2018 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

GEORGIA POWER COMPANY - PLANT BOWEN

Solid Waste Disposal Facility
Landfill Cells 1 & 2
Landfill Cells 3 & 4
Landfill Cells 9 & 10
Permit No. 008-018D (LI)

January 31, 2019

Prepared For:

Georgia Power

Atlanta, Georgia

Prepared By:
Wood Environment & Infrastructure Solutions, Inc.
1075 Big Shanty Road NW, Suite 100, Kennesaw, Georgia 30144

wood.

PROFESSIONAL ENGINEER CERTIFICATION STATEMENT

This 2018 *Annual Groundwater Monitoring and Corrective Action Report, Georgia Power Company - Plant Bowen Landfill Cells 1 & 2, 3 & 4, and 9 & 10* has been prepared to comply with the United States Environmental Protection Agency (USEPA) coal combustion residual (CCR) rule (40 Code of Federal Regulations [CFR] 257 Subpart D; published in 80 FR 21302-21501, April 17, 2015) by a licensed professional engineer with Wood Environment & Infrastructure Solutions, Inc.

Gregory J. Wrenn, P.E.
Registered Professional Engineer
Professional Engineer No. 025565

Jan. 30 2019
Date

PROFESSIONAL GROUND WATER SCIENTIST CERTIFICATION

I certify that I am a qualified ground-water scientist who has received a baccalaureate or post-graduate degree in the natural sciences or engineering, and have sufficient training and experience in ground-water hydrology and related fields, as demonstrated by state registration and completion of accredited university courses, that enable me to make sound professional judgments regarding ground-water monitoring and contaminant fate and transport. I further certify that this report was prepared by myself or by a subordinate working under my direction.

Rhonda N. Quinn, P.G.
Registered Professional Geologist
Georgia Registration #1031

Jan 30, 2019
Date

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1.0 INTRODUCTION

In accordance with the United States Environmental Protection Agency (USEPA) coal combustion residual (CCR) rule 40 Code of Federal Regulations (CFR) 257 Subpart D, this *2018 Annual Groundwater Monitoring and Corrective Action Report* has been prepared to document detection groundwater monitoring activities conducted at Georgia Power Company's (GPC) Plant Bowen Landfill Cells 1 & 2, 3 & 4, and 9 & 10 and satisfies the requirements of §257.90(e). Groundwater monitoring and reporting for Plant Bowen are performed in accordance with the monitoring requirements §257.90 through §257.94.

Georgia Power Company's Plant Bowen solid waste disposal facility (CCR unit) is located in south Bartow County off State Highway 113, approximately 7 miles west-southwest of Cartersville and 20 miles southeast of Rome (**Figure 1: Site Location Map)**. The disposal facility (Site) is approximately 300 acres located on a previously undeveloped, contiguous portion of the plant property. The landfill area topography is a hill sloping down to the river floodplain. The Site is bordered on the north and east sides by forested land with the Etowah River beyond the forested area, to the south the landfill cells are bordered by forested land and the railroad that services Plant Bowen, and power generating operations and the Etowah River border the Site to the west.

This report documents the groundwater monitoring program and actions for the 2018 calendar year.

1.1 Regional Geology & Hydrogeologic Setting

The geology and hydrogeology of the Plant Bowen Landfill Cells 1 & 2, 3 & 4, and 9 & 10 area are summarized below. The uppermost aquifer is comprised of the terrace deposits and clayey overburden soils and the upper fractured sedimentary bedrock consisting of dolomite and dolomitic limestone.

1.1.1 Regional Geology

The Plant Bowen Site lies within the Valley and Ridge physiographic province about three to four miles north of the Cartersville Fault. The Cartersville Fault separates the late Precambrian-aged metamorphic rocks to the east and south from the Cambrian-aged sedimentary rocks to the north-northeast and west. The Site lies within an area mapped as Knox Group undifferentiated with a southwestern portion of the facility mapped as Newala Limestone as noted in Croft (1963). It could be interpreted, based on regional structural geology (shallow dips to the east), and the apparent absence of major faulting at the Bowen plant site, the rocks underlying the southwestern portion of the site should be Chepultepec or older formations, not Newala (Friddell, 1995). The Plant Bowen Landfill Cells 1 & 2, 3 & 4, and 9 & 10 are located on the northeast portion of the Plant Bowen property **(Figure 1)**.

1.1.2 Site Geology

The lithologies present in the landfill area of the plant site from the ground surface to depth are terrace deposits, a residuum clay overburden, dolomite, and limestone bedrock. The Knox Group (dolomite and limestone bedrock) produces a characteristic orange to red clayey residuum (overburden) that ranges in thickness from 19 to 127 feet across the Plant Bowen site and often contains weathered chert and dolomite fragments. Silt and clay with some gravel and sand (terrace deposits) overlay the clayey residuum in some areas, but are not continuous across the landfill area.

Based on extensive drilling at the landfill area, the bedrock consists of dolomite and limestone, though the rock is predominately dolomite while limestone is interbedded at various depths. Fine-grained pyrite was noted in a few of the limestone core samples (SCS, 2002a).

1.1.3 Site Hydrogeology

Two main hydrostratigraphic layers (water-bearing zones) are present at the Plant Bowen site: overburden (residuum clay), and bedrock (dolomite and limestone) – both units comprise the uppermost aquifer for groundwater monitoring purposes. Overburden materials are very heterogeneous ranging in composition from well-graded gravelly sand to fat clay. Bedrock underlying the site (officially mapped as Knox undifferentiated) is a carbonate bedrock. Karst features within the underlying carbonate bedrock are predominately formed along initial discontinuities including joints, fissures (slots), fractures, and bedding planes or other linear features. These karst features may be partially or completely filled with soft unconsolidated sediments or may be empty or filled with water.

The water table commonly occurs in the lower overburden, but at some locations the water table is near the overburden-bedrock interface or in the upper fractured bedrock. Based on this data, it is likely that the overburden and bedrock are essentially a single inter-connected water-bearing zone below the unsaturated overburden. Therefore, the overburden and the upper fractured sedimentary bedrock together comprise the uppermost aquifer beneath the landfill area.

The groundwater flow in the Landfill Cells 1 & 2, 3 & 4, 9 & 10 area is to the north-northeast and west-northwest. However, there are variations in groundwater flow direction due to heterogeneous and anisotropic conditions at the site.

1.2 Groundwater Monitoring System and CCR Unit Descriptions

Pursuant to §257.91, a groundwater monitoring system was installed within the uppermost aquifer at Landfill Cells 1 & 2, 3 & 4, and 9 & 10. The monitoring system is designed to monitor groundwater passing the waste boundary of the Landfill Cells 1 & 2, 3 & 4, and 9 & 10 within the uppermost aquifer. Wells were located to serve as upgradient or downgradient monitoring points based on groundwater flow direction

(**Table 1: Monitoring Well Network Summary**). The upgradient well names include a prefix "GWA", whereas downgradient wells have a prefix "GWC". The bedrock wells are identified by a suffix "R" within the well name.

A well network surrounds each of the Landfill Cells 1 & 2, 3 & 4, and 9 & 10 and monitors the groundwater conditions at each of the landfill cells. The monitoring well locations are shown in **Figure 2: Monitoring Well Network - September 2018**. The current monitoring well network at Landfill Cells 1 & 2 consists of 29 wells (9 upgradient wells, and 20 downgradient wells) at 17 locations, as a result of some wells located in a cluster representing the overburden and the bedrock. Additionally, five wells are monitored for water levels only.

The current monitoring well network at disposal Landfill Cells 3 & 4 consists of 23 monitoring wells at 19 locations. Nine wells are screened in the overburden and 14 wells in the upper bedrock. This well network currently consists of 12 upgradient wells, and 11 downgradient wells.

The current monitoring network at disposal Landfill Cells 9 & 10 consists of 17 monitoring wells (8 upgradient wells and 9 downgradient wells) at 11 locations. Additionally, a well is monitored for water levels only. All the monitoring wells are equipped with dedicated bladder pumps and tubing for groundwater sampling.

The disposal facility (Plant Bowen landfill cells) receives coal combustion by-products, coal ash and gypsum, from coal-burning and flue gas desulfurization processes at the site. Landfill Cells 1 & 2 began waste operation in 2008. Landfill Cells 3 & 4 began receiving wastes in early 2015, while Landfill Cells 9 & 10 began waste operations in late 2015. The Plant Bowen solid waste disposal facility is currently operated in accordance with Georgia Environmental Protection Division's (EPD) Permit No. 008-018D (LI). An application for a new Georgia CCR permit was submitted in November 2018 to replace the Solid Waste Permit.

2.0 GROUNDWATER MONITORING ACTIVITIES

As required by §257.90(e), the following describes monitoring-related activities performed during the calendar year 2018 and discusses any change in status of the monitoring program. The groundwater sampling for the CCR detection monitoring was performed in accordance with §257.93. In March and September 2018, samples were collected from each well in the certified monitoring system shown on **Figure 2**. Pursuant to §257.90(e)(3), **Table 2: Groundwater Sampling Event Summary**, presents a summary of groundwater sampling events completed at Plant Bowen's Landfill Cells 1 & 2, 3 & 4, and 9 & 10.

2.1 Monitoring Well Installation and Maintenance

There was no change to the groundwater monitoring system in 2018; the network remained the same as in the 2017 (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 to conduct sampling under safe and clean conditions.

2.2 Detection Monitoring Program

In accordance with §257.94(b), the detection groundwater monitoring program continued in 2018. Groundwater samples were collected semi-annually from each monitoring well and analyzed for Appendix III constituents (boron, calcium, chloride, fluoride, pH, sulfate, and Total Dissolved Solids) according to §257.94(a). Data reports for the 2018 detection monitoring event are included in **Appendix A: Laboratory Analytical and Field Sampling Reports March and September 2018**. Statistical exceedances were identified during the 2018 monitoring events and were addressed with alternate source demonstrations.

2.3 Other Groundwater Sampling

In additional to sampling and analyzing the Appendix III parameters, the 16 metals listed below were also sampled and analyzed concurrent with the 2018 semi-annual CCR detection monitoring events as required by the landfill cell's Georgia Solid Waste Permit and in accordance with Georgia Solid Waste Rule 391-3-4-.14.

Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium
Cobalt	Copper	Lead	Mercury	Nickel	Selenium
Silver	Thallium	Vanadium	Zinc		

As shown on **Figure 2,** the same wells sampled and analyzed for the Appendix III parameters were also sampled and analyzed for the 16 metals. The landfill cells' Georgia Solid Waste Permit (No. 008-018D (LI)) requires the semi-annual monitoring of the 16 metals to evaluate groundwater quality upgradient and downgradient of the landfill cells. The results of the 2018 monitoring events for the Georgia Solid Waste Permit are presented in the *2018 First and Second Semi-Annual Groundwater Monitoring Reports.* The laboratory reports for these monitoring events are provided in **Appendix A**.

3.0 SAMPLE METHODOLOGY & ANALYSES

The following sections describe the methods used to conduct groundwater monitoring at Plant Bowen Landfill Cells 1 & 2, 3 & 4, and 9 & 10 CCR unit in 2018.

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 each well in the certified networks for Plant Bowen Landfill Cells 1 & 2, 3 & 4, and 9 & 10. Groundwater levels recorded during the monitoring events are summarized in **Table 3: Summary of Groundwater Elevations**. Groundwater levels from the March and September 2018 detection monitoring events were used to develop potentiometric surface elevation contour maps provided as **Figures 3 through 6**. The general direction of groundwater flow in the overburden in the Landfill Cells 1 & 2 and 9 & 10 area is to the north-northeast. Groundwater flow in the overburden in the Landfill Cells 3 & 4 is to west **(Figures 3 and 4: Potentiometric Surface – Overburden Wells – March and September 2018)**. The general groundwater flow direction in the bedrock is similar to the overburden, with groundwater flow in the bedrock in the Landfill Cells 1 & 2 and 9 & 10 area is to the north-northeast. Groundwater flow in the bedrock in the Landfill Cells 3 & 4 area is to the west-northwest **(Figures 5 and 6: Potentiometric Surface – Rock Wells Wells – March and September 2018)**. The groundwater flow patterns observed during the March and September 2018 detection monitoring events are consistent with historic observations.

Groundwater flow velocities were calculated for the Site based on hydraulic gradients, hydraulic conductivity from previous slug test results, and an estimated effective porosity of 0.01 (based on default soil type value for silty clays to clays in USEPA 530/SW-89-031) of the screened horizon. The average hydraulic conductivity (measured in centimeters/second or cm/sec) values used in the soil aquifer calculations (2.54×10^{-5} cm/sec = 0.072 ft/day) and the bedrock aquifer calculations (1.26×10^{-4} cm/sec = 0.36 ft/day) are presented in the *Plant Bowen Proposed Coal Combustion By-Product Storage Facility Site Acceptability Report* (Southern Company Services, 2002a). Measured hydraulic conductivity data in the uppermost aquifer at the Site are lower than many karst aquifers, but comparable to fractured carbonate aquifers in the Valley & Ridge region. The hydraulic gradients were calculated between well pairs. Horizontal groundwater flow velocities at Plant Bowen Landfill Cells 1 & 2, 3 & 4, and 9 & 10 were calculated using the commonly-used derivative of Darcy's Law:

$$V = \frac{K * i}{n_e}$$

Where:

$V =$ Groundwater flow velocity $\left(\frac{feet}{day}\right)$

$K =$ Average Permeability of the aquifer $\left(\frac{feet}{day}\right)$

$i =$ Horizontal hydraulic gradient $\left(\frac{feet}{feet}\right)$

$n_e =$ Effective porosity

Using this equation, groundwater flow velocities are calculated for various areas of the site and are tabulated on **Table 4: Groundwater Flow Velocity Calculations – March and September 2018**. The velocities presented on **Table 4** were calculated using groundwater elevation data from the March and September 2018 events.

Table 4: Groundwater Flow Velocity Calculations – March and September 2018
Plant Bowen Landfill Cells 1 & 2, 3 & 4, and 9 & 10

Flow Paths (*or well pairs*)		Hydraulic Gradient (i) (feet/feet)	Average Hydraulic Conductivity (K) (feet/day)	Estimated Effective Porosity (n_e)	Calculated Groundwater Flow Velocity (V) (feet/day)	Calculated Groundwater Flow Velocity (V) (feet/year)
Landfill Cells 1 & 2	Overburden March	0.003	0.072	0.01	0.02	7.3
	Overburden March	0.004	0.072	0.01	0.03	11.0
	Overburden September	0.004	0.072	0.01	0.03	11.0
	Overburden September	0.005	0.072	0.01	0.04	14.6
	Overburden September	0.021	0.072	0.01	0.15	54.8
	Bedrock March	0.001	0.36	0.01	0.04	14.6
	Bedrock March	0.002	0.36	0.01	0.07	25.6
	Bedrock September	0.002	0.36	0.01	0.07	25.6
	Bedrock September	0.001	0.36	0.01	0.04	14.6
Landfill Cells 3 & 4	Overburden March	0.004	0.072	0.01	0.03	11.0
	Overburden March	0.003	0.072	0.01	0.02	7.3
	Overburden September	0.002	0.072	0.01	0.01	3.7

Table 4: Groundwater Flow Velocity Calculations – March and September 2018
Plant Bowen Landfill Cells 1 & 2, 3 & 4, and 9 & 10

Flow Paths (*or well pairs*)		Hydraulic Gradient (i) (feet/feet)	Average Hydraulic Conductivity (K) (feet/day)	Estimated Effective Porosity (n_e)	Calculated Groundwater Flow Velocity (V) (feet/day)	Calculated Groundwater Flow Velocity (V) (feet/year)
Landfill Cells 3 & 4	Bedrock March	0.004	0.36	0.01	0.14	51.1
	Bedrock March	0.002	0.36	0.01	0.07	25.6
	Bedrock September	0.003	0.36	0.01	0.11	40.2
	Bedrock September	0.006	0.36	0.01	0.22	80.3
Landfill Cells 9 & 10	Overburden March	0.005	0.072	0.01	0.04	14.6
	Overburden March	0.004	0.072	0.01	0.03	11.0
	Overburden March	0.01	0.072	0.01	0.07	25.6
	Overburden September	0.013	0.072	0.01	0.09	32.9
	Overburden September	0.008	0.072	0.01	0.06	21.9
	Overburden September	0.007	0.072	0.01	0.05	18.3
	Bedrock March	0.01	0.36	0.01	0.36	131.4
	Bedrock March	0.006	0.36	0.01	0.22	80.3
	Bedrock September	0.01	0.36	0.01	0.36	131.4
	Bedrock September	0.006	0.36	0.01	0.22	80.3

The groundwater flow velocity across the Plant Bowen landfill cells in the overburden ranges from approximately 0.01 to 0.15 ft/day (3.7 to 54.8 ft/year). In the bedrock groundwater flow velocity ranges approximately from 0.04 to 0.36 ft/day (14.6 to 131.4 ft/year). Lower groundwater velocities noted in the overburden material are due to the abundance of residual clays in this zone. Relatively higher velocities noted in the bedrock aquifer are attributed to groundwater flow in the fractured carbonate rocks in the subsurface. Groundwater flow in the Knox Dolomite Formation, underlying the site, occurs in joints, fractures, bedding planes, and solution channels (Croft, 1963). These pathways can facilitate relatively higher groundwater flows in the upper fractured bedrock aquifer.

3.2 Groundwater Sampling

Groundwater samples were collected from monitoring wells for the detection monitoring using low-flow sampling procedures in accordance with §257.93(a). Groundwater samples collected for the landfill cells Georgia Solid Waste Permit requirements followed sampling procedures in accordance with Georgia Solid Waste rule 391-3-4-.14(12). Monitoring wells were purged and sampled using a dedicated QED bladder pump or a peristaltic pump using new disposable polyethylene tubing. A SmarTroll (In-Situ field instrument) was used to monitor and record field water quality parameters (pH, conductivity, and dissolved oxygen) during well purging to verify stabilization prior to sampling. Turbidity was measured using a Hach 2100Q (or similar) portable turbidity meter. Sampling equipment and pump intakes were placed at the midpoint of the well screen. Care was taken to maintain a water level above the top of screen and not draw the water level down below the pump during purging. Water level stabilization was achieved when three consecutive water level measurements vary by 0.3 foot or less at a pumping rate of no less than 100 milliliters per minute (mL/min). Groundwater samples were collected when the following stabilization criteria were met:

- pH ± 0.1 Standard Units (S.U.);
- Specific conductance ± 5%;
- 0.2 Mg/L or 10% for DO > 0.5 mg/l (whichever is greater).
- Turbidity measurements less than 10 NTU

Once stabilization was achieved, samples were collected into appropriately-preserved laboratory-supplied sample containers. Sample bottles were placed in ice-packed coolers, and submitted to Pace Analytical, Inc. in Peachtree Corners (Atlanta), Georgia following chain-of-custody protocol.

3.3 Laboratory Analyses

Two semi-annual monitoring events were conducted in 2018 with the first event conducted in March 2018 and the second event conducted in September 2018. During each of the 2018 monitoring events for the CCR detection monitoring, the 23 wells in Cells 1 & 2, 24 wells in Cells 3 & 4, and 17 wells in Cells 9 & 10 were sampled and analyzed for Appendix III monitoring parameters pursuant to §257.94(b). Also during the 2018 monitoring events, the 16 metals, required by the landfill cells Georgia Solid Waste Permit, were sampled and analyzed in accordance with Georgia Solid Waste rule 391-3-4-.14. Analytical methods used for groundwater sample analysis are listed on the analytical laboratory reports included in **Appendix A**.

Laboratory analyses were performed by Pace Analytical Services, LLC, of Peachtree Corners (Atlanta), Georgia, and Asheville, North Carolina. Both Pace Laboratories are accredited by National Environmental Laboratory Accreditation Program (NELAP) and maintain a NELAP certification for all parameters analyzed. In addition, Pace Laboratories are certified to perform analysis by the State of Georgia. Groundwater data laboratory reports and chain of custody records for the monitoring events are presented in **Appendix A**.

3.4 Quality Assurance & Quality Control

During each sampling event, quality assurance/quality control samples (QA/QC) were collected at a rate of one sample per every 10 detection samples. In addition, equipment blanks and duplicate samples were also collected during each sampling event. Data from these QA/QC samples were evaluated during data validation and are included in **Appendix A**.

Groundwater quality data in this report was independently validated in accordance with USEPA guidance (USEPA, 2011) and the analytical methods. Data validation generally consisted of reviewing sample integrity, holding times, laboratory method blanks, laboratory control samples, matrix spikes/matrix spike duplicate recoveries and relative percent differences (RPD), 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 USEPA procedures as guidance (USEPA, 2017). Flagged data are identified in **Tables 5, 6, and 7: Plant Bowen CCR Landfill Cells 1 & 2, 3 & 4, 9 & 10 Analytical Data Summary** and statistical analysis reports described in the following section.

4.0 STATISTICAL ANALYSIS

The site is currently performing detection monitoring. Statistical analysis of Appendix III groundwater monitoring data was performed on samples collected from the certified groundwater monitoring network pursuant to §257.93(f) and following the PE-certified statistical analysis plans. The statistical analysis plans used at the Site were developed in 2017 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, EPA 530/R-09-007 (USEPA, 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 detection 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 USEPA regulations and guidance as recommended in the Unified Guidance (USEPA, 2009) document.

The statistical methods used to evaluate groundwater quality data from the CCR detection monitoring consisted of both interwell prediction limits and intrawell prediction limits as described below. When using the interwell method, upgradient well data are pooled to establish a background statistical limit for each individual parameter. Data from the March and September 2018 CCR detection monitoring events were compared to the statistical limits to determine whether downgradient well concentrations exceed background statistical limits. The interwell statistical method uses a 1-of-2 verification resample plan. When an initial statistically significant increase (SSI) or questionable result occurs, a second sample may be collected to verify the initial result or determine if the result was an outlier. Per the statistical analysis plan, interwell prediction limits were used for the following locations and constituents:

- Landfill Cells 1 & 2 Overburden Wells and Bedrock Wells: Interwell statistical methods were used for boron, chloride, pH, and fluoride.

- Landfill Cells 3 & 4 Overburden and Bedrock Wells: Interwell statistical methods were used for boron, calcium, and fluoride

- Landfill Cells 9 & 10 Overburden and Bedrock Wells: Interwell statistical methods were used for boron, pH, and fluoride

In accordance with the landfill cells Georgia Solid Waste Permit, the 16 metals required to be sampled and analyzed by the Permit are statistically analyzed using interwell prediction limit methodology. The statistical results of the 2018 monitoring events for the Solid Waste Permit are presented in the *2018 First and Second Semi-Annual Groundwater Monitoring Reports*.

Groundwater quality data with significant natural spatial variation and no pre-existing exceedances of background were evaluated using intrawell prediction limits. Using this method, historical data from a given well for a parameter (e.g. pH at GWA-36) were used to establish a background statistical limit for that parameter at that well; therefore, each parameter will have a different statistical limit at each well. The most recent sample result of each parameter at each individual well is compared to its background statistical limit. If the most recent sample exceeds its respective background statistical limit, an initial SSI is identified.

Data from the March and September 2018 CCR detection monitoring events were compared to the statistical limits to evaluate whether downgradient concentrations exceed background statistical limits. During the initial detection monitoring events, to maintain consistency with intrawell prediction limits between events, the prediction limits are calculated using data from the first eight background events. After completion of the initial four detection monitoring events, the background data will be updated with the additional four events' data. The intrawell prediction limits for September 2018 are a little lower than the March 2018 intrawell calculations because the March background data set used nine events of data for the prediction limits instead of eight. The intrawell statistical method uses a 1-of-3 verification resample plan. When a SSI or questionable result occurs, up to 2 additional samples may be collected to verify the initial result or determine if the result was an outlier. Intrawell prediction limits were used for the following locations and constituents:

- Landfill Cells 1 & 2 Overburden Wells and Bedrock Wells: Intrawell methods were used for calcium, sulfate, and TDS

- Landfill Cells 3 & 4 Overburden and Bedrock Wells: Intrawell methods were used for chloride, pH, sulfate, and TDS.

- Landfill Cells 9 & 10 Overburden and Bedrock Wells: Intrawell methods were used for calcium, chloride, sulfate, and TDS.

If data from a sampling event initially exceed the PL, the resampling strategy may be used to verify the result. In 1-of-2 resampling, one independent resample may be collected and evaluated within 90 days to determine whether the initial exceedance is verified. In the 1-of-3 resampling, up to two independent resamples may be collected. If all resamples exceed the PL, the initial exceedance is verified and a SSI is

identified. When a resample result does not verify the initial result, and does not exceed the PL, there is no SSI. If resampling is not performed, the initial exceedance is a confirmed exceedance. If the initial finding is not verified by resampling, the resampled value will replace the initial finding. When the resample confirms the initial finding, the exceedance will be reported.

Some analytes may have a statistically-significant seasonal trend, based on testing with the non-parametric, seasonal Kruskal-Wallis test. If a statistically significant seasonal trend is found, then the data may be deseasonalized prior to statistical testing. The Sanitas™ software may optionally determine if there is a statistically-significant seasonal trend and adjust data accordingly. Prediction limits are developed based on residuals, not actual concentrations. Charts are also plotted with residual values that are seasonally adjusted and not actual concentrations. The Sanitas™ software deseasonalized some of the March 2018 data. Evaluation of the September 2018 data indicated deseasonalization was not needed for the September data.

The following are also applicable to the site statistical analysis method:

- Statistical analyses are not performed on analytes containing 100% non-detects (USEPA Unified Guidance, 2009, Chapter 6).
- When data contain less than 15% non-detects in background, simple substitution of one-half the reporting limit is utilized in the statistical analysis. The reporting limit utilized for non-detects is the practical quantitation limit (PQL) as reported by the laboratory.
- When data contain between 15-50% non-detects the Kaplan-Meier non-detect adjustment is applied to the background data. This technique adjusts the mean and standard deviation of the historical concentrations to account for concentrations below the reporting limit.
- Nonparametric prediction limits are used on data containing greater than 50% non-detects.

4.2 Statistical Analyses Results

Analytical data from the detection monitoring events in March and September 2018 at the Landfill Cells 1 & 2, 3 & 4, 9 & 10 were statistically analyzed in accordance with the PE-certified statistical analysis plans. CCR detection monitoring is only for the sampling and analysis of the Appendix III constituents. The statistical analysis and comparison to prediction limits are included as **Appendix B: Statistical Analyses. Table B-1: Summary of March and September 2018 Statistical Exceedances** in **Appendix B**, summarizes the 2018 statistical results.

5.0 ALTERNATE SOURCE DEMONSTRATIONS

In accordance with 40 CFR §257.94(e)(2), two alternate source demonstrations (ASDs) were prepared for pH, chloride, calcium, sulfate, and TDS. We note that state-required solid waste monitoring parameters antimony, nickel, barium, and zinc are also included in the ASD documents, but are not addressed as part of this report. Summaries demonstrating that sources other than the Landfill Cells 1 & 2, 3 & 4, and 9 & 10 caused the statistical exceedances of target constituents in Site groundwater are provided below. Complete ASD reports are provided in **Appendix C: Alternate Source Demonstrations**.

Several of the March and September 2018 results showed concentrations above the calculated PLs. Most of the concentrations above the PLs have been addressed previously in the August 2017 and April 2018 ASDs provided in **Appendix C: Alternate Source Demonstrations**. The March 2018 concentrations shown to be above PLs in the first 2018 semi-annual monitoring event, were either previously addressed in an ASD or were not confirmed by subsequent sampling. A few September 2018 concentrations above the PLs in downgradient wells are not specifically identified in the ASDs included in **Appendix C**, but are the same parameters and same hydraulic location as those statistical exceedances addressed in the ASDs, i.e., chloride and pH in Cells 1 & 2 downgradient wells, pH in Cells 3 & 4 downgradient well, sulfate and pH in Cells 9 & 10 downgradient wells. The analysis and explanations provided in the ASDs would apply to these wells.

The majority of the concentrations (calcium, chloride, sulfate, and TDS) above the PL calculated by the intrawell method were in "GWA" wells that are hydraulically upgradient of the landfill cells and are not in a groundwater flow path based on measured water level elevations. The groundwater flow directions have been consistent with historical data from the Site. A concentration greater than the PL in an upgradient well is not an indication of a release. The statistical exceedance of these parameters in upgradient wells, but not in corresponding downgradient wells demonstrates the natural occurrence and variability of target parameters at the Site.

The March and September concentrations above the PL have been previously addressed in ASDs or are upgradient wells that are not in the groundwater flow path from the landfill cells, or a subsequent sample confirmed there was no exceedance of the PL.

These concentrations above the PL are not thought to be the result of a release from the Landfill Cells 1 & 2, 3 & 4, and 9 & 10 and are attributed to natural variability of groundwater chemistry underlying the site that is not properly accommodated by the existing statistical methods due to geochemical differences between upgradient and downgradient wells, as described in the ASD documents. The basis for natural variability as the cause of the exceedances include:

1) the presence of naturally-occurring sulfide minerals containing these metals at the site,
2) a lack of increasing concentration trends of these metals and inorganic parameters over time, and
3) the lack of co-occurrence or correlation of metals with indicator parameters.

Furthermore, the non-detectable or low concentrations of other indicator parameters, including boron and fluoride, strongly support the natural occurrence of target parameters showing a statistical exceedance and a lack of a release from the landfill cells.

Pursuant to §257.94(e), within 90 days from determining an SSI, a demonstration showed that a source other than Landfill Cells 1 & 2, 3 & 4, 9 & 10 was the cause.

The ASD for Plant Bowen Cells 1 & 2, 3 & 4, and 9 & 10, dated April 19, 2018 was prepared to address the September 2017 Appendix III statistical exceedances as listed below.

- GWC-13RZ Chloride
- GWC-11R pH
- GWC-15Z pH
- GWC-8RR pH
- GWC-22R pH
- GWC-44 pH
- GWC-45 pH
- GWC-48 pH
- GWC-49Z pH
- GWC-16R Calcium
- GWC-17R Calcium
- GWC-21R Calcium
- GWC-23R Calcium
- GWC-13 Chloride
- GWA-40 Chloride and Sulfate
- GWA-4RZ Sulfate
- GWC-49R Sulfate
- GWA-53 Total Dissolved Solids
- GWA-39Z Total Dissolved Solids

As a part of the March 2018 semi-annual monitoring event, additional constituents, namely, magnesium, sodium, potassium, and alkalinity were analyzed in select wells to evaluate if 1) the upgradient and downgradient groundwater had consistent chemical characteristics and 2) were the upgradient wells geochemically representative of downgradient wells. The ASD presented data indicating there were geochemical differences between the upgradient and downgradient wells that contributes to the natural variation in the groundwater quality. In particular, at Cells 3 & 4 and Cells 9 & 10, there are differences in groundwater composition between upgradient and downgradient groundwater due to variable lithology (dolomite versus limestone bedrock). Statistical methods do not take geochemical differences into account and may not explain the natural variability for applicable parameters.

Statistical exceedances for antimony, barium, nickel and zinc were identified as part of the monitoring for the landfill cells' Georgia Solid Waste Permit requirements. The August 2017 and April 2018 ASDs also addressed the following Solid Waste Permit constituents monitored under Georgia Solid Waste requirements: 391-3-4.14.23(c).

GWC-16R	Antimony
GWC-21R	Antimony
GWC-13RZ	Barium
GWC-16R	Nickel
GWC-47	Zinc

The lines of evidence demonstrating the 2017-2018 statistical exceedances were from alternate sources included the following:

- Barium and zinc occur naturally associated with sulfide minerals of regional carbonate rocks and such occurrences can be reasonably expected at the Site.
- Barium and zinc were detected in upgradient and downgradient wells prior to waste placement and the landfill cells are lined to limit leaching.
- Other metals and inorganic parameters were not detected with the detection of barium, zinc, calcium, chloride, sulfate and TDS. In particular, boron, which is an indicator parameter for CCR constituents in groundwater, was either not detected above the laboratory reporting limits or was detected at low concentrations below background levels in Site wells.
- The geochemical data showed that recent recharge from rainfall affects the groundwater pH and chloride concentrations.

As noted on **Table B-1 in Appendix B**, most of the statistical exceedances in March and September 2018 were repeats of the September 2017 statistical exceedances which were addressed in the April 2018 ASD. The April 2018 ASD showed the statistical exceedances listed above are not an indication of a release from the lined landfill cells, but are a result of naturally-occurring sources in the geological formation and natural variability of groundwater chemistry resulting from water-bearing zone lithologies and recharge from rainfall.

6.0 MONITORING PROGRAM STATUS

The Plant Bowen Landfill Cells 1 & 2, 3 & 4, 9 & 10 are in detection monitoring. In 2018, statistical exceedances of Appendix III constituents were identified. Those statistical exceedances were addressed in ASDs that showed the target constituent concentrations were not an indication of a release from the lined landfill cells, but are due to naturally-occurring sources in the geological formation and natural variability of groundwater chemistry. Groundwater monitoring at Plant Bowen Landfill Cells 1 & 2, 3 & 4, 9 & 10 will continue in detection monitoring phase.

7.0 CONCLUSIONS & FUTURE ACTIONS

In 2018, statistical evaluations of the groundwater monitoring data for Plant Bowen Landfill Cells 1 & 2, 3 & 4, 9 & 10 identified some statistical exceedances of Appendix III groundwater monitoring constituents. Those exceedances have been addressed in ASDs. In 2019, CCR detection monitoring will continue to be implemented at the landfill cells on a semi-annual basis. In accordance with Georgia Solid Waste requirement 391-3-4.14.23(c), semi-annual monitoring for the 16 metals specified in the Site's Solid Waste Permit will continue.

The first 2019 semi-annual monitoring event is planned for March-April 2019.

8.0 REFERENCES

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TABLES & FIGURES

TABLE 1
MONITORING WELL NETWORK SUMMARY - Plant Bowen Landfill Cells 1 & 2, 3 & 4, and 9 & 10

Well Name	Installation Date	Northing (ft NAD83)	Easting (ft NAD83)	Ground Surface Elevation (ft, NAVD88)	Top of Casing Elevation (ft, NAVD88)	Top of Screen Elevation (ft, NAVD88)	Bottom of Screen Elevation (ft, NAVD88)	Screen Length (ft)	Total Well Depth on Construction Log (feet below land surface)	Lithology Screened	Hydraulic Location and Purpose
GWA-1	4/12/2007	1502840.52	2071724.11	739.4	742.20	601.7	591.7	10	148.0	Overburden/Bedrock	Cells 1 & 2 - Upgradient
GWA-2	4/4/2007	1502638.00	2071935.13	732.3	734.81	590.8	580.8	10	151.8	Overburden/Bedrock	Cells 1 & 2 - Upgradient
GWA-2R	8/3/2007	1502613.68	2071966.37	733.0	735.78	637.9	627.9	10	105.4	Bedrock	Cells 1 & 2 - Upgradient
GWA-3	4/11/2007	1502386.74	2072067.26	729.9	732.47	644.9	634.9	10	95.4	Overburden	Cells 1 & 2 - Upgradient
GWA-4	3/14/2007	1502239.16	2072318.41	741.0	743.47	681.5	671.5	10	69.8	Overburden	Cells 1 & 2 - Upgradient, Water level measurement only
GWA-4R	3/13/2007	1502244.98	2072317.65	741.4	743.84	658.4	648.4	10	93.4	Bedrock	Cells 1 & 2 - Upgradient, Water level measurement only. Well replaced by a new well GWA-4RZ.
GWA-4RZ	10/28/2016	1502237.97	2072329.51	740.1	742.85	633.1	623.1	10	117.0	Bedrock	Cells 1 & 2 - Upgradient
GWA-50	6/4/2008	1502156.81	2072442.89	720.6	722.98	636.6	626.6	10	94.3	Overburden	Cells 1 & 2 - Upgradient
GWA-50R	6/10/2008	1502153.32	2072447.90	719.0	721.30	590.8	580.8	10	138.5	Bedrock	Cells 1 & 2 - Upgradient
GWC-5	4/18/2006	1502338.19	2072677.08	735.8	738.17	634.7	624.7	10	111.4	Overburden	Cells 1 & 2 - Downgradient
GWC-6	5/1/2007	1502517.79	2072964.10	726.7	729.02	629.1	619.1	10	107.9	Overburden	Cells 1 & 2 - Downgradient
GWC-6RZ	4/28/2015	1502502.98	2072900.19	729.3	732.10	634.3	624.3	10	105.3	Bedrock	Cells 1 & 2 - Downgradient
GWC-7Z	5/19/2016	1502639.99	2073192.07	710.1	713.12	606.4	596.4	10	113.7	Overburden	Cells 1 & 2 - Downgradient
GWC-8Z	4/28/2015	1502828.21	2073525.42	699.3	702.32	636.3	626.3	10	73.0	Overburden	Cells 1 & 2 - Downgradient
GWC-8RR	6/27/2011	1502857.62	2073501.63	700.4	702.09	602	592	10	107.0	Bedrock	Cells 1 & 2 - Downgradient
GWC-9	8/16/2006	1503017.30	2073782.56	692.8	695.50	632.6	622.7	10	70.5	Overburden	Cells 1 & 2 - Downgradient
GWC-10	9/6/2006	1503160.48	2074020.99	685.8	688.57	627.6	617.6	10	68.5	Overburden	Cells 1 & 2 - Downgradient
GWC-10R	5/15/2007	1503151.35	2074021.32	686.6	688.61	601.1	591.1	10	95.8	Bedrock	Cells 1 & 2 - Downgradient
GWC-11	6/1/2007	1503388.37	2073830.98	676.0	678.43	644.2	634.2	10	42.1	Overburden	Cells 1 & 2 - Downgradient
GWC-11R	5/31/2007	1503393.39	2073829.01	675.9	678.32	608.0	598.0	10	78.2	Bedrock	Cells 1 & 2 - Downgradient
GWC-12	6/4/2007	1503660.16	2073693.51	675.2	677.77	637.1	627.1	10	48.4	Overburden	Cells 1 & 2 - Downgradient
GWC-13	5/31/2007	1503896.00	2073496.30	684.9	687.13	614.4	604.4	10	80.7	Overburden	Cells 1 & 2 - Downgradient
GWC-13R	6/5/2007	1503906.40	2073503.07	683.9	686.53	594.9	584.9	10	99.3	Bedrock	Cells 1 & 2 - Downgradient, Water level measurement only. Well replaced by a new well GWC-13RZ
GWC-13RZ	11/2/2016	1503927.54	2073517.10	681.8	684.61	589.8	579.8	10	102.0	Bedrock	Cells 1 & 2 - Downgradient
GWC-14	8/22/2007	1504081.44	2073214.90	683.6	686.30	615.8	605.8	10	78.0	Overburden	Cells 1 & 2 - Downgradient, Water level measurement only. Well replaced by a new well GWC-14Z
GWC-14Z	11/3/2016	1504061.38	2073193.18	684.4	687.33	621.4	611.4	10	73.0	Overburden	Cells 1 & 2 - Downgradient
GWC-15	6/1/2007	1503941.08	2072928.57	693.3	695.51	636.3	626.3	10	67.3	Overburden	Cells 1 & 2 - Downgradient, Water level measurement only. Well replaced by a new well GWC-15Z
GWC-15Z	10/31/2016	1503952.79	2072917.89	693.1	695.89	631.1	621.1	10	72.0	Overburden	Cells 1 & 2 - Downgradient

TABLE 1
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Well Name	Installation Date	Northing (ft NAD83)	Easting (ft NAD83)	Ground Surface Elevation (ft, NAVD88)	Top of Casing Elevation (ft, NAVD88)	Top of Screen Elevation (ft, NAVD88)	Bottom of Screen Elevation (ft, NAVD88)	Screen Length (ft)	Total Well Depth on Construction Log (feet below land surface)	Lithology Screened	Hydraulic Location and Purpose
GWC-15R	5/24/2007	1503934.08	2072920.90	693.8	696.44	611.6	601.6	10	92.4	Bedrock	Cells 1 & 2 - Downgradient
GWA-36	6/15/2011	1505057.05	2073383.57	682.3	684.91	616.6	606.6	10	76.0	Overburden	Cells 3 & 4 - Upgradient
GWA-36R	6/15/2011	1505050.78	2073384.01	681.8	684.53	606.1	596.1	10	86.0	Bedrock	Cells 3 & 4 - Upgradient
GWA-37	9/11/2013	1505341.85	2073070.71	701.02	703.66	606.8	596.8	10	104.5	Overburden	Cells 3 & 4 - Upgradient
GWA-38	6/13/2011	1505501.65	2072833.09	713.8	716.43	659.1	649.1	10	65.0	Overburden	Cells 3 & 4 - Upgradient
GWA-51RZ	3/1/2016	1505310.38	2073781.45	706.3	708.98	625.5	615.5	10	91.0	Bedrock	Cells 3 & 4 - Upgradient
GWA-52	4/21/2015	1505460.21	2073875.23	707.1	710.12	636.5	626.5	10	80.9	Overburden	Cells 3 & 4 - Upgradient
GWA-53	4/10/2015	1505696.02	2074038.42	708.3	711.38	600.8	590.8	10	117.8	Overburden	Cells 3 & 4 - Upgradient
GWA-53R	4/10/2015	1505689.59	2074031.47	708.8	711.93	554.7	543.7	11	165.4	Bedrock	Cells 3 & 4 - Upgradient
GWA-54	4/14/2015	1505853.97	2074285.87	701.7	704.63	638.8	628.8	10	73.2	Overburden	Cells 3 & 4 - Upgradient
GWA-55	4/15/2015	1506035.38	2074506.56	694.2	697.01	642.1	632.1	10	62.4	Overburden	Cells 3 & 4 - Upgradient
GWA-55R	4/15/2015	1506041.83	2074517.12	694.0	696.84	601.5	591.5	10	102.8	Bedrock	Cells 3 & 4 - Upgradient
GWA-56	4/16/2015	1506128.94	2074632.63	689.5	692.45	616.9	606.9	10	82.9	Overburden	Cells 3 & 4 - Upgradient
GWC-16R	12/13/2011	1505877.37	2072608.08	728.1	730.69	646.0	636.0	10	95.0	Bedrock	Cells 3 & 4 - Downgradient
GWC-17R	12/8/2011	1506068.86	2072829.56	730.7	733.73	651.5	641.5	10	89.5	Bedrock	Cells 3 & 4 - Downgradient
GWC-18	6/6/2011	1506306.93	2072930.02	719.1	721.93	651.4	642.4	9	77.0	Overburden	Cells 3 & 4 - Downgradient
GWC-18R	6/2/2011	1506301.46	2072930.28	719.2	721.78	591.9	581.9	10	137.5	Bedrock	Cells 3 & 4 - Downgradient
GWC-19R	6/7/2011	1506395.14	2073158.91	724.0	726.58	590.3	580.3	10	144.0	Bedrock	Cells 3 & 4 - Downgradient
GWC-20R	6/9/2011	1506601.52	2073487.28	718.4	721.09	644.4	634.4	10	84.3	Bedrock	Cells 3 & 4 - Downgradient
GWC-21R	12/16/2011	1506694.91	2073784.63	720.9	723.46	641.7	631.7	10	89.5	Bedrock	Cells 3 & 4 - Downgradient
GWC-22R	6/14/2011	1506717.20	2074105.68	713.3	715.85	606.6	596.6	10	117.0	Bedrock	Cells 3 & 4 - Downgradient
GWC-23R	6/28/2011	1506700.85	2074447.26	688.9	691.41	652.2	642.2	10	47.0	Bedrock	Cells 3 & 4 - Downgradient
GWC-24R	6/21/2011	1506693.97	2074805.76	674.3	676.92	647.6	637.6	10	37.0	Bedrock	Cells 3 & 4 - Downgradient
GWC-25R	6/21/2011	1506495.03	2075088.24	674.2	676.75	587.5	577.5	10	97.0	Bedrock	Cells 3 & 4 - Downgradient
GWA-39Z	3/1/2016	1502655.51	2071120.35	732.1	735.10	629.2	619.2	10	115.0	Overburden	Cells 9 & 10 - Upgradient
GWA-39R	6/15/2011	1502637.1	2071145.55	732.4	735.23	640.7	630.7	10	102.0	Bedrock	Cells 9 & 10 - Upgradient, Water level measurement only. Well replaced by a new well GWA-39RZ
GWA-39RZ	11/4/2016	1502618.22	2071163.59	729.8	732.58	602.8	592.8	10	137.0	Bedrock	Cells 9 & 10 - Upgradient
GWA-40	6/7/2011	1503195.11	2071300.70	728.6	731.73	586.5	576.5	10	153.0	Overburden	Cells 9 & 10 - Upgradient
GWA-41	6/6/2011	1503518.92	2071046.83	739.1	742.37	647	637	10	102.0	Overburden	Cells 9 & 10 - Upgradient
GWA-41R	6/1/2011	1503527.50	2071051.59	739.9	743.14	634.6	624.6	10	116.0	Bedrock	Cells 9 & 10 - Upgradient
GWA-42	6/1/2011	1503824.33	2071049.88	734.8	738.02	660.6	650.6	10	85.0	Overburden	Cells 9 & 10 - Upgradient

TABLE 1
MONITORING WELL NETWORK SUMMARY - Plant Bowen Landfill Cells 1 & 2, 3 & 4, and 9 & 10

Well Name	Installation Date	Northing (ft NAD83)	Easting (ft NAD83)	Ground Surface Elevation (ft, NAVD88)	Top of Casing Elevation (ft, NAVD88)	Top of Screen Elevation (ft, NAVD88)	Bottom of Screen Elevation (ft, NAVD88)	Screen Length (ft)	Total Well Depth on Construction Log (feet below land surface)	Lithology Screened	Hydraulic Location and Purpose
GWA-43	5/25/2011	1504128.26	2070982.13	707.7	710.97	635.5	625.5	10	93.0	Overburden	Cells 9 & 10 - Upgradient
GWA-43R	5/24/2011	1504117.91	2070972.79	707.9	711.21	601.7	591.7	10	127.0	Bedrock	Cells 9 & 10 - Upgradient
GWC-44	6/9/2011	1504436.07	2071414.77	709.9	712.95	634.7	624.7	10	86.0	Overburden	Cells 9 & 10 - Downgradient
GWC-45	5/17/2007	1504540.11	2071956.67	698.9	701.56	644.3	634.3	10	64.7	Overburden	Cells 9 & 10 - Downgradient
GWC-45R	5/22/2007	1504539.43	2071945.29	699.3	702.04	584.1	574.0	10	125.7	Bedrock	Cells 9 & 10 - Downgradient
GWC-46R	8/15/2014	1504523.07	2072184.48	687.9	690.51	642.3	632.3	10	56.5	Bedrock	Cells 9 & 10 - Downgradient
GWC-47	6 /2011	1504544.69	2072481.32	687.4	690.84	630	620	10	66	Overburden	Cells 9 & 10 - Downgradient
GWC-47R	4/24/2014	1504540.46	2072467.37	687.7	691.13	617.0	607.0	10	81.2	Bedrock	Cells 9 & 10 - Downgradient
GWC-48	6/8/2011	1504490.41	2072850.47	686.0	688.31	641.0	631.0	10	56.0	Overburden	Cells 9 & 10 - Downgradient
GWC-49Z	3/1/2016	1504238.74	2072896.12	706.2	709.12	627.2	617.2	10	90.0	Overburden	Cells 9 & 10 - Downgradient
GWC-49R	4/17/2014	1504246.61	2072916.91	706.0	709.50	585.7	575.7	10	131.1	Bedrock	Cells 9 & 10 - Downgradient

Notes:
1. ft NAD83 indicates feet referenced to the North American Datum of 1983.
2. NAVD88 indicates the North American Vertical Datum 1988.
3. TOC indicates top of casing.
4. The listed monitoring wells are measured for water levels and sampled for groundwater quality. Some wells are only measured for water levels as indicated under Purpose.

TABLE 2

GROUNDWATER SAMPLING EVENT SUMMARY - Plant Bowen Landfill Cells 1 & 2, 3 & 4, and 9 & 10

Well ID	Hydraulic Location	Summary of Sampling Events																		Status of Monitoring Well
		February 29 - April 5, 2016	May 2 - June 1, 2016	July 6 - August 9, 2016	September 7 - 30, 2016	October 25 - November 28, 2016	January 5 - February 22, 2017	March 14 - April 12, 2017	May 16 - June 16, 2017	July 12, 2017	July 14, 2017	July 17, 2017	July 19 - 20, 2017	July 26 - 28, 2017	August 9 - 10, 2017	August 24, 2017	September 15 - October 9, 2017	December 27-29, 2017	March 12 - 23, 2018	September 6 - 20, 2018	
Purpose of Sampling Event		Background	Background	Background	Background	Background	Background	Background	Background	Background Catchup	Background Catchup	Background Catchup	Background Catchup	Background Catchup	Background Catchup	Background Catchup	Detection	Verification	Detection	Detection	
LANDFILL CELLS 1 & 2 MONITORING WELL NETWORK																					
GWA-1	Upgradient	BG01	BG02	BG03	BG04	BG05	BG06	BG07	BG08								D01		D02	D03	Detection Monitoring
GWA-2	Upgradient	BG01	BG02	BG03	BG04	BG05	BG06	BG07	BG08								D01		D02	D03	Detection Monitoring
GWA-2R	Upgradient	BG01	BG02	BG03	BG04	BG05	BG06	BG07	BG08								D01		D02	D03	Detection Monitoring
GWA-3	Upgradient	BG01	BG02	BG03	BG04	BG05	BG06	BG07	BG08								D01		D02	D03	Detection Monitoring
GWA-4	Upgradient	NS																			
GWA-4R	Upgradient	NS																			
GWA-4RZ	Upgradient						BG06	BG07	BG08	BG01			BG02	BG03	BG04	BG05	D01	V01-Sulfate	D02	D03	Detection Monitoring
GWA-50	Upgradient	BG01	BG02	BG03	BG04	BG05	BG06	BG07	BG08								D01		D02	D03	Detection Monitoring
GWA-50R	Upgradient	BG01	BG02	BG03	BG04	BG05	BG06	BG07	BG08								D01		D02	D03	Detection Monitoring
GWC-5	Downgradient	BG01	BG02	BG03	BG04	BG05	BG06	BG07	BG08								D01		D02	D03	Detection Monitoring
GWC-6	Downgradient	BG01	BG02	BG03	BG04	BG05	BG06	BG07	BG08								D01		D02	D03	Detection Monitoring
GWC-6RZ	Downgradient	BG01	BG02	BG03	BG04	BG05	BG06	BG07	BG08								D01		D02	D03	Detection Monitoring
GWC-7Z	Downgradient		BG02	BG03	BG04	BG05	BG06	BG07	BG08		BG01						D01		D02	D03	Detection Monitoring
GWC-8Z	Downgradient	BG01	BG02	BG03	BG04	BG05	BG06	BG07	BG08								D01		D02	D03	Detection Monitoring
GWC-8RR	Downgradient	BG01	BG02	BG03	BG04	BG05	BG06	BG07	BG08								D01	V01-pH	D02	D03	Detection Monitoring
GWC-9	Downgradient	BG01	BG02	BG03	BG04	BG05	BG06	BG07	BG08								D01		D02	D03	Detection Monitoring
GWC-10	Downgradient	BG01	BG02	BG03	BG04	BG05	BG06	BG07	BG08								D01		D02	D03	Detection Monitoring
GWC-10R	Downgradient	BG01	BG02	BG03	BG04	BG05	BG06	BG07	BG08								D01		D02	D03	Detection Monitoring
GWC-11	Downgradient	BG01	BG02	BG03	BG04	BG05	BG06	BG07	BG08								D01		D02	D03	Detection Monitoring
GWC-11R	Downgradient	BG01	BG02	BG03	BG04	BG05	BG06	BG07	BG08								D01		D02	D03	Detection Monitoring
GWC-12	Downgradient	BG01	BG02	BG03	BG04	BG05	BG06	BG07	BG08								D01		D02	D03	Detection Monitoring
GWC-13	Downgradient	BG01	BG02	BG03	BG04	BG05	BG06	BG07	BG08								D01		D02	D03	Detection Monitoring
GWC-13R/GWC-13RZ	Downgradient	BG01	BG02				BG06	BG07	BG08	BG03				BG04	BG05		D01		D02	D03	Detection Monitoring
GWC-14/GWC-14Z	Downgradient	BG01	BG02	BG03		BG05	BG06	BG07	BG08	BG04							D01		D02	D03	Detection Monitoring
GWC-15/GWC-15Z	Downgradient	BG01	BG02			BG05	BG06	BG07	BG08	BG03				BG04			D01		D02	D03	Detection Monitoring
GWC-15R	Downgradient	BG01	BG02	BG03	BG04	BG05	BG06	BG07	BG08								D01		D02	D03	Detection Monitoring
LANDFILL CELLS 3 & 4 MONITORING WELL NETWORK																					
GWA-36	Upgradient	BG01	BG02	BG03	BG04	BG05	BG06	BG07	BG08								D01		D02	D03	Detection Monitoring
GWA-36R	Upgradient	BG01	BG02	BG03	BG04	BG05	BG06	BG07	BG08								D01		D02	D03	Detection Monitoring
GWA-37	Upgradient	BG01	BG02	BG03	BG04	BG05	BG06	BG07	BG08								D01		D02	D03	Detection Monitoring
GWA-38	Upgradient	BG01	BG02	BG03	BG04	BG05	BG06	BG07	BG08								D01		D02	D03	Detection Monitoring
GWA-51RZ	Upgradient		BG02	BG03	BG04	BG05	BG06	BG07	BG08				BG01				D01		D02	D03	Detection Monitoring
GWA-52	Upgradient	BG01	BG02	BG03	BG04	BG05	BG06	BG07	BG08								D01		D02	D03	Detection Monitoring
GWA-53	Upgradient	BG01	BG02	BG03	BG04	BG05	BG06	BG07	BG08								D01		D02	D03	Detection Monitoring
GWA-53R	Upgradient	BG01	BG02	BG03	BG04	BG05	BG06	BG07	BG08								D01		D02	D03	Detection Monitoring

TABLE 2

GROUNDWATER SAMPLING EVENT SUMMARY - Plant Bowen Landfill Cells 1 & 2, 3 & 4, and 9 & 10

Well ID	Hydraulic Location	Summary of Sampling Events																		Status of Monitoring Well
		February 29 - April 5, 2016	May 2 - June 1, 2016	July 6 - August 9, 2016	September 7 - 30, 2016	October 25 - November 28, 2016	January 5 - February 22, 2017	March 14 - April 12, 2017	May 16 - June 16, 2017	July 12, 2017	July 14, 2017	July 17, 2017	July 19 - 20, 2017	July 26 - 28, 2017	August 9 - 10, 2017	August 24, 2017	September 15 - October 9, 2017	December 27-29, 2017	March 12 - 23, 2018	September 6 - 20, 2018	
Purpose of Sampling Event		Background	Background	Background	Background	Background	Background	Background	Background	Background Catchup	Background Catchup	Background Catchup	Background Catchup	Background Catchup	Background Catchup	Background Catchup	Detection	Verification	Detection	Detection	
GWA-54	Upgradient	BG01	BG02	BG03	BG04	BG05	BG06	BG07	BG08								D01		D02	D03	Detection Monitoring
GWA-55	Upgradient	BG01	BG02	BG03	BG04	BG05	BG06	BG07	BG08								D01		D02	D03	Detection Monitoring
GWA-55R	Upgradient	BG01	BG02	BG03	BG04	BG05	BG06	BG07	BG08								D01		D02	D03	Detection Monitoring
GWA-56	Upgradient	BG01	BG02	BG03	BG04	BG05	BG06	BG07	BG08								D01	V01-pH	D02	D03	Detection Monitoring
GWC-16R	Downgradient	BG01	BG02	BG03	BG04	BG05	BG06	BG07	BG08								D01		D02	D03	Detection Monitoring
GWC-17R	Downgradient	BG01	BG02	BG03	BG04	BG05	BG06	BG07	BG08								D01		D02	D03	Detection Monitoring
GWC-18	Downgradient	BG01	BG02	BG03	BG04	BG05	BG06	BG07	BG08								D01		D02	D03	Detection Monitoring
GWC-18R	Downgradient	BG01	BG02	BG03	BG04	BG05	BG06	BG07	BG08								D01		D02	D03	Detection Monitoring
GWC-19R	Downgradient	BG01	BG02	BG03	BG04	BG05	BG06	BG07	BG08								D01		D02	D03	Detection Monitoring
GWC-20R	Downgradient	BG01	BG02	BG03	BG04	BG05	BG06	BG07	BG08								D01	V01-TDS	D02	D03	Detection Monitoring
GWC-21R	Downgradient	BG01	BG02	BG03	BG04	BG05	BG06	BG07	BG08								D01		D02	D03	Detection Monitoring
GWC-22R	Downgradient	BG01	BG02	BG03	BG04	BG05	BG06	BG07	BG08								D01	V01-pH	D02	D03	Detection Monitoring
GWC-23R	Downgradient	BG01	BG02	BG03	BG04	BG05	BG06	BG07	BG08								D01		D02	D03	Detection Monitoring
GWC-24R	Downgradient	BG01	BG02	BG03	BG04	BG05	BG06	BG07	BG08								D01		D02	D03	Detection Monitoring
GWC-25R	Downgradient	BG01	BG02	BG03	BG04	BG05	BG06	BG07	BG08								D01		D02	D03	Detection Monitoring
LANDFILL CELLS 9 & 10 MONITORING WELL NETWORK																					
GWA-39Z	Upgradient	BG01	BG02	BG03	BG04	BG05	BG06	BG07	BG08								D01	V01-Calcium	D02	D03	Detection Monitoring
GWA-39R/GWA-39RZ	Upgradient		BG02	BG03			BG06	BG07	BG08			BG01		BG04	BG05		D01		D02	D03	Detection Monitoring
GWA-40	Upgradient	BG01	BG02	BG03	BG04	BG05	BG06	BG07	BG08								D01	V01-Chloride, Sulfate	D02	D03	Detection Monitoring
GWA-41	Upgradient	BG01	BG02	BG03	BG04	BG05	BG06	BG07	BG08								D01		D02	D03	Detection Monitoring
GWA-41R	Upgradient	BG01	BG02	BG03	BG04	BG05	BG06	BG07	BG08								D01		D02	D03	Detection Monitoring
GWA-42	Upgradient	BG01	BG02	BG03	BG04	BG05	BG06	BG07	BG08								D01		D02	D03	Detection Monitoring
GWA-43	Upgradient	BG01	BG02	BG03	BG04	BG05	BG06	BG07	BG08								D01		D02	D03	Detection Monitoring
GWA-43R	Upgradient	BG01	BG02	BG03	BG04	BG05	BG06	BG07	BG08								D01	V01-Calcium	D02	D03	Detection Monitoring
GWC-44	Downgradient	BG01	BG02	BG03	BG04	BG05	BG06	BG07	BG08								D01		D02	D03	Detection Monitoring
GWC-45	Downgradient	BG01	BG02	BG03	BG04	BG05	BG06	BG07	BG08								D01		D02	D03	Detection Monitoring
GWC-45R	Downgradient	BG01	BG02	BG03	BG04	BG05	BG06	BG07	BG08								D01		D02	D03	Detection Monitoring
GWC-46R	Downgradient	BG01	BG02	BG03	BG04	BG05	BG06	BG07	BG08								D01		D02	D03	Detection Monitoring
GWC-47	Downgradient	BG01	BG02	BG03	BG04	BG05	BG06	BG07	BG08								D01		D02	D03	Detection Monitoring
GWC-47R	Downgradient	BG01	BG02	BG03	BG04	BG05	BG06	BG07	BG08								D01		D02	D03	Detection Monitoring
GWC-48	Downgradient	BG01	BG02	BG03	BG04	BG05	BG06	BG07	BG08								D01	V01-Sulfate	D02	D03	Detection Monitoring
GWC-49Z	Downgradient	BG01	BG02	BG03	BG04	BG05	BG06	BG07	BG08								D01	V01-pH	D02	D03	Detection Monitoring
GWC-49R	Downgradient	BG01	BG02	BG03	BG04	BG05	BG06	BG07	BG08								D01	V01-Sulfate	D02	D03	Detection Monitoring

Notes:

BGXX = Background Event and Number

Dxx - Detection Event Number

V = Verification Event and parameter resampled

TDS = Total Dissolved Solids

NS = indicated not sampled due to insufficient water volume

TABLE 3
SUMMARY OF GROUNDWATER ELEVATIONS - Plant Bowen Landfill Cells 1 & 2, 3 & 4, and 9 & 10

Well ID	Top of Casing Elevation (feet above MSL)	Groundwater Elevation (feet above MSL)										
		3/21/2016 (Event #1)	5/2/2016 (Event #2)	7/5/2016 (Event #3)	9/6/2016 (Event #4)	10/24/2016 (Event #5)	1/4/2017 (Event #6)	3/13/2017 (Event #7)	5/15/2017 (Event #8)	9/14/2017 (Event #9)	3/6/2018 (Event #10)	9/5/2018 (Event #11)
Landfill Cells 1 & 2												
GWA-1	**742.20**	654.18	656.69	655.41	654.49	654.21	654.80	654.81	655.20	655.77	658.47	655.56
GWA-2	**734.81**	657.81	654.01	652.26	651.30	651.01	652.19	651.89	652.43	653.46	656.31	653.00
GWA-2R	**735.78**	658.46	655.05	653.86	652.76	652.63	653.00	652.83	653.23	653.70	657.15	654.09
GWA-3	**732.47**	681.38	670.95	666.87	663.58	661.93	661.24	662.00	664.19	NM	674.10	666.72
GWA-4	**743.47**	671.26	NA	Dry	NA	NA	671.21	671.23	671.09	671.18	671.17	NM
GWA-4R	**743.84**	661.02	NA	Dry	NA	NA	657.34	655.95	655.81	655.57	658.00	656.07
GWC-4RZ	**742.85**	NA	NA	NA	NA	NA	649.41	652.42	653.60	643.93	655.08	655.55
GWA-50	**722.98**	671.25	665.44	662.47	659.49	657.62	656.08	654.82	654.33	654.23	656.17	657.50
GWA-50R	**721.30**	652.09	646.39	644.10	642.79	642.18	643.07	643.32	643.97	644.61	649.25	644.69
GWC-5	**738.17**	666.93	660.62	658.25	656.58	655.77	656.13	656.11	656.76	657.05	661.24	657.92
GWC-6	**729.02**	662.46	656.30	654.03	652.58	651.95	652.83	653.08	653.74	654.38	659.22	654.59
GWC-6RZ	**732.10**	661.62	655.80	653.49	652.19	651.62	652.42	652.65	653.33	653.91	658.51	645.03
GWC-7Z	**713.12**	660.93	NA	652.77	651.51	651.13	652.23	652.30	652.86	653.86	658.77	653.72
GWC-8Z	**702.32**	660.01	654.61	652.57	651.36	650.95	652.11	652.10	652.59	653.70	658.08	653.41
GWC-8RR	**702.09**	659.74	654.56	652.55	651.36	650.96	652.08	652.10	652.61	653.67	658.00	653.39
GWC-9	**695.50**	657.13	653.50	651.81	650.91	650.70	652.03	651.64	652.13	653.54	656.46	652.74
GWC-10	**688.57**	657.13	653.41	651.70	650.78	650.57	651.88	651.50	652.01	653.41	656.75	652.62
GWC-10R	**688.61**	657.11	653.39	651.69	650.76	650.56	651.84	651.45	651.96	653.35	656.69	652.58
GWC-11	**678.43**	656.95	653.33	651.68	650.73	650.49	651.84	651.57	651.94	653.48	656.60	652.63
GWC-11R	**678.32**	656.81	653.30	651.67	650.72	650.63	651.81	651.52	651.92	653.44	656.52	652.58
GWC-12	**677.77**	657.32	653.64	651.98	650.92	650.62	652.06	651.73	652.19	653.50	656.67	652.85
GWC-13	**687.13**	657.44	653.83	651.86	650.79	650.51	651.82	651.53	652.10	653.25	656.71	652.78
GWC-13R	**686.53**	657.32	653.26	651.28	650.89	650.62	651.92	651.70	652.17	653.41	656.63	652.86
GWC-13RZ	**684.61**	NA	NA	NA	NA	NA	NA	639.88	604.65	591.66	609.71	633.24
GWC-14	**686.30**	657.62	652.85	651.20	650.12	649.76	651.09	650.90	651.39	652.71	655.91	652.10
GWC-14Z	**687.33**	NA	NA	NA	NA	NA	652.34	652.26	652.62	653.53	657.41	653.31
GWC-15	**695.51**	661.75	654.51	652.89	651.66	651.19	652.45	652.49	652.97	653.70	657.76	653.73
GWC-15R	**696.44**	658.54	654.33	652.70	651.51	651.05	652.34	652.25	653.96	653.53	657.55	653.53
GWC-15Z	**695.89**	NA	NA	NA	NA	NA	652.06	652.01	652.51	653.30	657.30	653.30

TABLE 3
SUMMARY OF GROUNDWATER ELEVATIONS - Plant Bowen Landfill Cells 1 & 2, 3 & 4, and 9 & 10

Well ID	Top of Casing Elevation (feet above MSL)	Groundwater Elevation (feet above MSL)										
		3/21/2016 (Event #1)	5/2/2016 (Event #2)	7/5/2016 (Event #3)	9/6/2016 (Event #4)	10/24/2016 (Event #5)	1/4/2017 (Event #6)	3/13/2017 (Event #7)	5/15/2017 (Event #8)	9/14/2017 (Event #9)	3/6/2018 (Event #10)	9/5/2018 (Event #11)
Landfill Cells 3 & 4												
GWA-36	**684.91**	654.03	651.40	649.52	648.54	648.26	649.96	649.25	649.72	651.95	654.09	650.19
GWA-36R	**684.53**	654.01	651.37	649.45	648.50	648.23	649.94	649.23	649.69	651.93	654.08	650.16
GWA-37	**703.66**	653.36	652.53	649.78	648.64	648.14	649.68	649.25	649.91	651.43	652.94	651.51
GWA-38	**716.43**	665.11	664.49	661.87	659.24	657.59	655.97	656.28	657.32	658.78	659.80	662.00
GWA-51RZ	**708.98**	654.85	652.27	650.49	649.61	649.40	650.41	649.87	650.63	651.84	654.06	651.20
GWA-52	**710.12**	654.93	652.75	651.10	650.37	650.11	651.06	650.53	651.24	652.34	654.12	651.74
GWA-53	**711.38**	655.06	652.96	651.27	650.52	650.31	651.25	650.71	651.42	652.58	654.17	651.91
GWA-53R	**711.93**	654.97	652.86	651.16	650.38	650.19	651.19	650.63	651.31	652.47	654.08	651.85
GWA-54	**704.63**	655.28	653.16	651.43	650.70	650.46	651.41	650.87	651.59	652.74	654.32	652.11
GWA-55	**697.01**	655.09	652.97	649.29	650.54	650.28	651.39	648.73	651.47	652.64	654.21	651.99
GWA-55R	**696.84**	655.05	652.95	651.26	650.50	650.26	651.27	650.67	651.41	652.58	654.19	651.92
GWA-56	**692.45**	655.06	652.95	651.33	650.40	650.27	651.34	650.69	651.43	652.57	654.17	651.96
GWC-16R	**730.69**	651.86	652.23	652.23	652.13	652.02	651.85	650.39	649.95	650.08	651.35	650.57
GWC-17R	**733.73**	654.19	652.32	650.81	650.24	649.94	650.12	649.85	650.09	650.24	651.00	650.26
GWC-18	**721.93**	649.59	648.35	647.06	646.63	646.49	BTP	BTP	BTP	BTP	648.94	BTP
GWC-18R	**721.78**	649.94	648.53	647.19	646.68	646.50	647.47	646.76	647.28	649.05	649.17	647.54
GWC-19R	**726.58**	650.71	649.36	647.94	647.50	647.33	648.38	647.56	648.12	649.80	650.03	648.38
GWC-20R	**721.09**	651.56	650.03	648.55	649.77	647.78	648.77	647.98	648.56	650.36	650.62	648.94
GWC-21R	**723.46**	653.03	651.48	650.75	650.24	650.00	650.38	649.70	650.34	651.22	652.32	650.86
GWC-22R	**715.85**	653.71	651.77	650.21	649.50	649.25	650.20	649.57	650.28	651.44	652.65	650.75
GWC-23R	**691.41**	653.93	651.97	650.56	649.77	649.54	650.30	BTP	650.55	651.40	652.86	650.97
GWC-24R	**676.92**	653.75	651.87	650.31	649.56	649.37	650.25	649.70	650.34	651.48	652.78	650.82
GWC-25R	**676.75**	654.56	652.61	650.97	650.22	650.00	651.01	650.35	651.03	652.14	653.48	651.45

TABLE 3
SUMMARY OF GROUNDWATER ELEVATIONS - Plant Bowen Landfill Cells 1 & 2, 3 & 4, and 9 & 10

Well ID	Top of Casing Elevation (feet above MSL)	Groundwater Elevation (feet above MSL)										
		3/21/2016 (Event #1)	5/2/2016 (Event #2)	7/5/2016 (Event #3)	9/6/2016 (Event #4)	10/24/2016 (Event #5)	1/4/2017 (Event #6)	3/13/2017 (Event #7)	5/15/2017 (Event #8)	9/14/2017 (Event #9)	3/6/2018 (Event #10)	9/5/2018 (Event #11)
Landfill Cells 9 & 10												
GWA-39Z	**735.10**	673.67	668.97	667.15	666.07	664.40	663.66	664.74	665.07	665.91	668.56	666.16
GWA-39R	**735.23**	673.42	668.68	666.97	665.70	664.17	NA	NA	NA	NA	NA	NA
GWA-39RZ	**732.58**	NA	NA	NA	NA	NA	662.98	663.79	664.28	664.40	667.73	663.64
GWA-40	**731.73**	668.52	663.52	662.24	660.51	659.31	660.02	660.63	661.09	661.68	666.34	661.85
GWA-41	**742.37**	670.16	664.54	663.03	661.27	659.91	BTP	661.20	661.40	662.67	668.29	662.47
GWA-41R	**743.14**	670.19	664.58	663.08	661.30	659.99	660.70	661.22	661.49	662.69	668.35	662.57
GWA-42	**738.02**	667.33	662.64	661.23	659.69	658.58	658.97	659.82	660.23	660.71	665.19	660.97
GWA-43	**710.97**	663.54	657.76	655.89	654.43	653.79	654.75	655.25	655.25	656.72	661.80	655.96
GWA-43R	**711.21**	663.30	657.70	655.86	654.40	653.81	654.72	655.18	655.20	656.65	661.67	655.99
GWC-44	**712.95**	664.67	658.37	665.33	653.55	655.43	661.39	658.20	656.12	661.22	666.01	657.34
GWC-45	**701.56**	662.40	657.69	655.16	652.80	651.66	651.38	652.77	654.35	655.74	661.37	644.08
GWC-45R	**702.04**	653.41	650.39	648.41	647.43	647.32	648.43	648.04	648.09	650.22	652.67	649.24
GWC-46R	**690.51**	654.46	650.62	648.26	647.12	646.87	648.01	647.65	648.57	649.96	653.55	649.37
GWC-47	**690.84**	653.36	650.08	647.85	646.21	646.55	647.82	647.39	648.20	649.78	652.58	648.84
GWC-47R	**691.13**	653.70	650.27	647.98	646.92	646.69	647.90	647.47	648.32	649.86	652.87	649.01
GWC-48	**688.31**	653.70	650.57	648.49	647.75	647.62	648.35	648.37	648.84	650.30	653.36	649.48
GWC-49Z	**709.12**	656.90	653.49	651.54	650.44	650.10	651.26	651.09	651.60	652.96	656.34	652.47
GWC-49R	**709.50**	656.68	653.19	651.22	651.19	649.79	651.03	650.87	651.34	652.74	656.01	652.17

BTP - Below Top of Pump
Dry - Well was dry.
NA - Not available.
NM - Not measured.
MSL - Mean Sea Level

Table 5
Plant Bowen CCR Landfills Cells 1 & 2
Analytical Data Summary

Substance		MCL/ (SMCL)	Well ID							
			GWA-1	GWA-1	GWA-2	GWA-2	GWA-2R	GWA-2R	GWA-3	GWA-3
		Sample Date	3/16/2018	9/17/2018	3/19/2018	9/14/2018	3/16/2018	9/14/2018	3/19/2018	9/17/2018
APPENDIX III	**Boron**	N/R	ND	ND (0.0084 J)	ND (0.013 J)	ND	ND (0.0077 J)	ND	ND (0.0057 J)	ND
	Calcium	N/R	28.5	30.8	63.0	2.4	33.0	ND (22.8 J)	1.2	0.95
	Chloride	(250)	1.7	1.6	1.9	0.98	1.6	0.92	1.5	1.5
	Fluoride	4	ND (0.029 J)	ND	1.1	ND	ND	ND	ND	ND
	pH	N/R	7.6	7.5	6.6	5.8	7.3	7.6	5.4	5.2
	Sulfate	(250)	1.5	1.3	147	7.7	ND (14.8 J)	2.1	ND (0.49 J)	ND (0.36 J)
	TDS	(500)	140	162	295	30.0	130	103	ND	32.0

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 only as a general guideline (not enforced).
3. Results for substances are reported in milligrams per liter (mg/L).
4. ND (Not Detected) indicates the substance was not detected above the analytical method detection limit (MDL).
5. ND (value J) indicates the substance was detected at such low levels that the precision of the laboratory instruments could not produce a reliable value. Therefore, the value displayed (value J) is qualified by the laboratory as an estimated number.
6. ND U* = This analyte is considered “not-detected” because it was detected in an associated blank at a similar level.
7. N/R indicates a substance does not have an MCL or SMCL, but is evaluated statistically, as required by EPA's CCR Rule.
8. TDS indicates total dissolved solids.
9. Appendix III = indicator parameters evaluated during Detection Monitoring

Table 5
Plant Bowen CCR Landfills Cells 1 & 2
Analytical Data Summary

Substance		MCL/ (SMCL)	Well ID							
			GWA-4RZ	GWA-4RZ	GWA-50	GWA-50	GWA-50R	GWA-50R	GWC-5	GWC-5
		Sample Date	3/21/2018	9/18/2018	3/16/2018	9/17/2018	3/16/2018	9/18/2018	3/19/2018	9/17/2018
APPENDIX III	**Boron**	N/R	ND (0.0062 J)	ND (0.0096 J)	ND	ND	ND	ND	ND (0.0041 J)	ND
	Calcium	N/R	47.5	48.1	1.8	2.3	2.6	1.3	3.3	2.0
	Chloride	(250)	2.9	3.1	1.4	1.1	ND U*	1.0	0.82	0.90
	Fluoride	4	ND (0.24 J)	ND U*	ND	ND	ND	ND	ND	ND
	pH	N/R	7.3	7.3	5.6	5.8	5.5	5.4	6.1	6.1
	Sulfate	(250)	25.4	22.8	ND (0.67 J)	ND (0.47 J)	ND (0.87 J)	ND (0.87 J)	1.3	1.3
	TDS	(500)	237	227	ND	38.0	ND	ND (15.0 J)	ND	38.0

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 only as a general guideline (not enforced).
3. Results for substances are reported in milligrams per liter (mg/L).
4. ND (Not Detected) indicates the substance was not detected above the analytical method detection limit (MDL).
5. ND (value J) indicates the substance was detected at such low levels that the precision of the laboratory instruments could not produce a reliable value. Therefore, the value displayed (value J) is qualified by the laboratory as an estimated number.
6. ND U* = This analyte is considered “not-detected” because it was detected in an associated blank at a similar level.
7. N/R indicates a substance does not have an MCL or SMCL, but is evaluated statistically, as required by EPA's CCR Rule.
8. TDS indicates total dissolved solids.
9. Appendix III = indicator parameters evaluated during Detection Monitoring

Table 5
Plant Bowen CCR Landfills Cells 1 & 2
Analytical Data Summary

Substance		MCL/ (SMCL)	Well ID							
			GWC-6	GWC-6	GWC-6RZ	GWC-6RZ	GWC-7Z	GWC-7Z	GWC-8RR	GWC-8RR
		Sample Date	3/19/2018	9/17/2018	3/20/2018	9/17/2018	3/20/2018	9/18/2018	3/21/2018	9/18/2018
APPENDIX III	**Boron**	N/R	ND	ND	ND (0.0073 J)	ND (0.0046 J)	ND (0.0064 J)	ND (0.0045 J)	ND	ND
	Calcium	N/R	ND (14.4 J)	ND (12.4 J)	ND (11.5 J)	ND (11.0 J)	ND (22.9 J)	ND (20.8 J)	ND (22.5 J)	ND (20.8 J)
	Chloride	(250)	1.2	1.1	1.7	1.3	1.5	1.3	1.3	1.2
	Fluoride	4	ND	ND	ND	ND	ND	ND U*	ND	ND
	pH	N/R	7.3	7.6	6.9	7.0	6.8	7.3	7.9	7.9
	Sulfate	(250)	2.6	2.2	2.5	2.5	ND (0.50 J)	ND (0.65 J)	1.2	ND (0.90 J)
	TDS	(500)	70.0	77.0	78.0	74.0	136	116	117	110

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 only as a general guideline (not enforced).
3. Results for substances are reported in milligrams per liter (mg/L).
4. ND (Not Detected) indicates the substance was not detected above the analytical method detection limit (MDL).
5. ND (value J) indicates the substance was detected at such low levels that the precision of the laboratory instruments could not produce a reliable value. Therefore, the value displayed (value J) is qualified by the laboratory as an estimated number.
6. ND U* = This analyte is considered “not-detected” because it was detected in an associated blank at a similar level.
7. N/R indicates a substance does not have an MCL or SMCL, but is evaluated statistically, as required by EPA's CCR Rule.
8. TDS indicates total dissolved solids.
9. Appendix III = indicator parameters evaluated during Detection Monitoring

Table 5
Plant Bowen CCR Landfills Cells 1 & 2
Analytical Data Summary

Substance		MCL/ (SMCL)	Well ID							
			GWC-8Z	GWC-8Z	GWC-9	GWC-9	GWC-10	GWC-10	GWC-10R	GWC-10R
		Sample Date	3/20/2018	9/18/2018	3/20/2018	9/18/2018	3/20/2018	9/18/2018	3/21/2018	9/18/2018
APPENDIX III	**Boron**	N/R	ND	ND	ND (0.0096 J)	ND	ND (0.0040 J)	ND	ND	ND
	Calcium	N/R	ND (20.3 J)	ND (15.5 J)	1.4	3.3	ND (12.0 J)	36.7	43.3	45.4
	Chloride	(250)	1.8	1.9	2.4	2.4	2.2	2.4	2.5	2.5
	Fluoride	4	ND	ND U*	ND	ND U*	ND	ND U*	ND	ND
	pH	N/R	7.3	7.0	4.9	5.4	6.2	7.1	7.3	7.7
	Sulfate	(250)	1.6	1.6	1.2	2.6	1.4	1.6	1.1	1.9
	TDS	(500)	121	93.0	49.0	38.0	93.0	155	192	155

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 only as a general guideline (not enforced).
3. Results for substances are reported in milligrams per liter (mg/L).
4. ND (Not Detected) indicates the substance was not detected above the analytical method detection limit (MDL).
5. ND (value J) indicates the substance was detected at such low levels that the precision of the laboratory instruments could not produce a reliable value. Therefore, the value displayed (value J) is qualified by the laboratory as an estimated number.
6. ND U* = This analyte is considered “not-detected” because it was detected in an associated blank at a similar level.
7. N/R indicates a substance does not have an MCL or SMCL, but is evaluated statistically, as required by EPA's CCR Rule.
8. TDS indicates total dissolved solids.
9. Appendix III = indicator parameters evaluated during Detection Monitoring

Table 5
Plant Bowen CCR Landfills Cells 1 & 2
Analytical Data Summary

Substance		MCL/ (SMCL)	Well ID							
			GWC-11	GWC-11	GWC-11R	GWC-11R	GWC-12	GWC-12	GWC-13	GWC-13
		Sample Date	3/21/2018	9/18/2018	3/22/2018	9/18/2018	3/22/2018	9/18/2018	3/21/2018	9/19/2018
APPENDIX III	**Boron**	N/R	ND	ND	ND	ND	ND	ND	ND (0.021 J)	ND (0.026 J)
	Calcium	N/R	ND (19.7 J)	ND (17.6 J)	27.5	26.3	7.5	8.2	40.9	45.9
	Chloride	(250)	1.6	1.5	2.0	1.9	ND U*	1.3	4.6	5.1
	Fluoride	4	ND	ND U*	ND	ND	ND	ND U*	ND	ND
	pH	N/R	7.1	6.9	7.7	7.9	6.5	6.4	7.3	7.3
	Sulfate	(250)	2.4	2.8	2.2	2.6	ND (0.30 J)	ND U*	59.1	64.5
	TDS	(500)	111	106	139	139	54.0	73.0	211	222

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 only as a general guideline (not enforced).
3. Results for substances are reported in milligrams per liter (mg/L).
4. ND (Not Detected) indicates the substance was not detected above the analytical method detection limit (MDL).
5. ND (value J) indicates the substance was detected at such low levels that the precision of the laboratory instruments could not produce a reliable value. Therefore, the value displayed (value J) is qualified by the laboratory as an estimated number.
6. ND U* = This analyte is considered “not-detected” because it was detected in an associated blank at a similar level.
7. N/R indicates a substance does not have an MCL or SMCL, but is evaluated statistically, as required by EPA's CCR Rule.
8. TDS indicates total dissolved solids.
9. Appendix III = indicator parameters evaluated during Detection Monitoring

Table 5
Plant Bowen CCR Landfills Cells 1 & 2
Analytical Data Summary

Substance		MCL/ (SMCL)	Well ID							
			GWC-13RZ	GWC-13RZ	GWC-14Z	GWC-14Z	GWC-15R	GWC-15R	GWC-15Z	GWC-15Z
		Sample Date	3/23/2018	9/20/2018	3/22/2018	9/19/2018	3/23/2018	9/19/2018	3/23/2018	9/19/2018
APPENDIX III	**Boron**	N/R	ND (0.017 J)	ND (0.016 J)	ND	ND	ND (0.0053 J)	ND (0.0049 J)	ND (0.0092 J)	ND (0.0046 J)
	Calcium	N/R	41.4	47.5	ND (18.6 J)	ND (20.0 J)	35.6	35.7	ND (24.3 J)	ND (23.7 J)
	Chloride	(250)	8.3	9.6	3.4	2.8	1.5	1.7	ND U*	1.1
	Fluoride	4	ND (0.24 J)	ND U*	ND	ND	ND	ND	ND	ND U*
	pH	N/R	7.6	7.4	6.9	6.9	7.3	7.7	7.9	7.8
	Sulfate	(250)	75.8	72.2	2.5	1.7	10.6	10.4	1.6	2.6
	TDS	(500)	281	297	115	114	170	181	119	138

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 only as a general guideline (not enforced).
3. Results for substances are reported in milligrams per liter (mg/L).
4. ND (Not Detected) indicates the substance was not detected above the analytical method detection limit (MDL).
5. ND (value J) indicates the substance was detected at such low levels that the precision of the laboratory instruments could not produce a reliable value. Therefore, the value displayed (value J) is qualified by the laboratory as an estimated number.
6. ND U* = This analyte is considered “not-detected” because it was detected in an associated blank at a similar level.
7. N/R indicates a substance does not have an MCL or SMCL, but is evaluated statistically, as required by EPA's CCR Rule.
8. TDS indicates total dissolved solids.
9. Appendix III = indicator parameters evaluated during Detection Monitoring

Table 6
Plant Bowen CCR Landfills Cells 3 & 4
Analytical Data Summary

Substance		MCL/ (SMCL)	Well ID							
			GWA-36	GWA-36	GWA-36R	GWA-36R	GWA-37	GWA-37	GWA-38	GWA-38
		Sample Date	3/12/2018	9/6/2018	3/12/2018	9/6/2018	3/12/2018	9/6/2018	3/13/2018	9/6/2018
APPENDIX III	**Boron**	N/R	ND	ND	ND (0.0082 J)	ND	ND (0.0040 J)	ND	ND	ND
	Calcium	N/R	ND (11.8 J)	ND (13.5 J)	30.6	26.1	0.81	0.79	1.4	1.6
	Chloride	(250)	2.2	2.0	3.2	2.7	1.1	1.0	2.4	2.7
	Fluoride	4	ND	ND	ND	ND	ND	ND	ND	ND
	pH	N/R	6.6	6.8	7.3	7.2	5.7	5.6	5.6	5.7
	Sulfate	(250)	ND (0.77 J)	ND (0.80 J)	8.2	1.5	ND (0.42 J)	ND (0.37 J)	1.5	1.4
	TDS	(500)	81.0	107	169	155	ND	ND U*	33.0	ND U*

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 only as a general guideline (not enforced).
3. Results for substances are reported in milligrams per liter (mg/L).
4. ND (Not Detected) indicates the substance was not detected above the analytical method detection limit (MDL).
5. ND (value J) indicates the substance was detected at such low levels that the precision of the laboratory instruments could not produce a reliable value. Therefore, the value displayed (value J) is qualified by the laboratory as an estimated number.
6. ND U* = This analyte is considered “not-detected” because it was detected in an associated blank at a similar level.
7. N/R indicates a substance does not have an MCL or SMCL, but is evaluated statistically, as required by EPA's CCR Rule.
8. TDS indicates total dissolved solids.
9. Appendix III = indicator parameters evaluated during Detection Monitoring

Table 6
Plant Bowen CCR Landfills Cells 3 & 4
Analytical Data Summary

Substance		MCL/ (SMCL)	Well ID							
			GWA-51RZ	GWA-51RZ	GWA-52	GWA-52	GWA-53	GWA-53	GWA-53R	GWA-53R
		Sample Date	3/13/2018	9/7/2018	3/13/2018	9/6/2018	3/13/2018	9/11/2018	3/13/2018	9/11/2018
APPENDIX III	**Boron**	N/R	ND (0.013 J)	ND	ND (0.0084 J)	ND	ND	ND	ND	ND
	Calcium	N/R	46.1	44.2	26.2	27.9	28.6	27.3	29.3	26.3
	Chloride	(250)	3.3	3.3	3.0	1.9	2.7	2.4	2.6	2.4
	Fluoride	4	ND (0.16 J)	ND	ND (0.084 J)	ND	ND	ND	ND (0.032 J)	ND
	pH	N/R	7.6	7.4	7.3	7.5	7.7	7.6	7.8	7.8
	Sulfate	(250)	27.3	26.9	8.5	7.2	1.9	1.9	1.9	1.8
	TDS	(500)	233	232	150	160	138	140	132	142

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 only as a general guideline (not enforced).
3. Results for substances are reported in milligrams per liter (mg/L).
4. ND (Not Detected) indicates the substance was not detected above the analytical method detection limit (MDL).
5. ND (value J) indicates the substance was detected at such low levels that the precision of the laboratory instruments could not produce a reliable value. Therefore, the value displayed (value J) is qualified by the laboratory as an estimated number.
6. ND U* = This analyte is considered “not-detected” because it was detected in an associated blank at a similar level.
7. N/R indicates a substance does not have an MCL or SMCL, but is evaluated statistically, as required by EPA's CCR Rule.
8. TDS indicates total dissolved solids.
9. Appendix III = indicator parameters evaluated during Detection Monitoring

Table 6
Plant Bowen CCR Landfills Cells 3 & 4
Analytical Data Summary

Substance		MCL/ (SMCL)	Well ID							
			GWA-54	GWA-54	GWA-55	GWA-55	GWA-55R	GWA-55R	GWA-56	GWA-56
		Sample Date	3/13/2018	9/6/2018	3/12/2018	9/7/2018	3/12/2018	9/7/2018	3/13/2018	9/7/2018
APPENDIX III	**Boron**	N/R	ND (0.0053 J)	ND	ND (0.0055 J)	ND	ND (0.0041 J)	ND	ND (0.024 J)	ND (0.024 J)
	Calcium	N/R	ND (24.3 J)	25.6	39.6	45.2	38.2	40.3	26.0	25.1
	Chloride	(250)	0.93	1.1	3.6	3.8	3.2	3.3	6.9	6.9
	Fluoride	4	ND (0.054 J)	ND	ND	ND	ND	ND	0.40	ND (0.14 J)
	pH	N/R	7.4	7.7	7.0	7.5	7.1	7.6	8.0	8.1
	Sulfate	(250)	4.9	3.5	28.7	27.4	22.0	22.4	94.8	101
	TDS	(500)	133	135	212	240	207	202	349	377

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 only as a general guideline (not enforced).
3. Results for substances are reported in milligrams per liter (mg/L).
4. ND (Not Detected) indicates the substance was not detected above the analytical method detection limit (MDL).
5. ND (value J) indicates the substance was detected at such low levels that the precision of the laboratory instruments could not produce a reliable value. Therefore, the value displayed (value J) is qualified by the laboratory as an estimated number.
6. ND U* = This analyte is considered “not-detected” because it was detected in an associated blank at a similar level.
7. N/R indicates a substance does not have an MCL or SMCL, but is evaluated statistically, as required by EPA's CCR Rule.
8. TDS indicates total dissolved solids.
9. Appendix III = indicator parameters evaluated during Detection Monitoring

Table 6
Plant Bowen CCR Landfills Cells 3 & 4
Analytical Data Summary

Substance		MCL/ (SMCL)	Well ID							
			GWC-16R	GWC-16R	GWC-17R	GWC-17R	GWC-18	GWC-18	GWC-18R	GWC-18R
		Sample Date	3/14/2018	9/7/2018	3/14/2018	9/11/2018	3/14/2018	9/11/2018	3/14/2018	9/7/2018
APPENDIX III	**Boron**	N/R	ND (0.0065 J)	ND	ND (0.0051 J)	ND	ND	ND	ND	ND
	Calcium	N/R	60.6	62.4	65.6	63.2	ND (23.4 J)	ND (18.1 J)	27.6	29.5
	Chloride	(250)	2.1	2.1	6.1	6.7	2.1	2.3	2.2	2.3
	Fluoride	4	ND (0.17 J)	ND	ND	ND	ND (0.12 J)	ND	ND (0.12 J)	ND
	pH	N/R	7.1	7.1	7.2	7.1	7.1	7.0	7.5	7.7
	Sulfate	(250)	8.8	6.5	7.0	5.8	2.2	2.0	2.2	2.2
	TDS	(500)	312	298	323	317	115	102	139	149

Notes:
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3. Results for substances are reported in milligrams per liter (mg/L).
4. ND (Not Detected) indicates the substance was not detected above the analytical method detection limit (MDL).
5. ND (value J) indicates the substance was detected at such low levels that the precision of the laboratory instruments could not produce a reliable value. Therefore, the value displayed (value J) is qualified by the laboratory as an estimated number.
6. ND U* = This analyte is considered “not-detected” because it was detected in an associated blank at a similar level.
7. N/R indicates a substance does not have an MCL or SMCL, but is evaluated statistically, as required by EPA's CCR Rule.
8. TDS indicates total dissolved solids.
9. Appendix III = indicator parameters evaluated during Detection Monitoring

Table 6
Plant Bowen CCR Landfills Cells 3 & 4
Analytical Data Summary

Substance		MCL/ (SMCL)	Well ID							
			GWC-19R	GWC-19R	GWC-20R	GWC-20R	GWC-21R	GWC-21R	GWC-22R	GWC-22R
		Sample Date	3/14/2018	9/10/2018	3/14/2018	9/10/2018	3/14/2018	9/10/2018	3/13/2018	9/7/2018
APPENDIX III	**Boron**	N/R	ND (0.0076 J)	ND	ND	ND	ND (0.0053 J)	ND	ND	ND
	Calcium	N/R	30.7	30.7	35.9	31.6	65.6	61.7	32.1	32.7
	Chloride	(250)	2.2	2.1	2.0	1.6	4.4	3.9	2.8	2.7
	Fluoride	4	ND (0.045 J)	ND	ND (0.035 J)	ND	ND	ND	ND (0.046 J)	ND
	pH	N/R	7.7	7.7	7.6	7.8	7.0	7.0	7.5	7.5
	Sulfate	(250)	3.4	3.4	1.6	1.7	ND	4.8	2.4	1.8
	TDS	(500)	156	172	167	184	306	328	159	169

Notes:
1. MCL indicates Environmental Protection Agency (EPA) and Georgia Environmental Protection Division (EPD) maximum contaminant level.
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3. Results for substances are reported in milligrams per liter (mg/L).
4. ND (Not Detected) indicates the substance was not detected above the analytical method detection limit (MDL).
5. ND (value J) indicates the substance was detected at such low levels that the precision of the laboratory instruments could not produce a reliable value. Therefore, the value displayed (value J) is qualified by the laboratory as an estimated number.
6. ND U* = This analyte is considered “not-detected” because it was detected in an associated blank at a similar level.
7. N/R indicates a substance does not have an MCL or SMCL, but is evaluated statistically, as required by EPA's CCR Rule.
8. TDS indicates total dissolved solids.
9. Appendix III = indicator parameters evaluated during Detection Monitoring

Table 6
Plant Bowen CCR Landfills Cells 3 & 4
Analytical Data Summary

Substance		MCL/ (SMCL)	Well ID					
			GWC-23R	GWC-23R	GWC-24R	GWC-24R	GWC-25R	GWC-25R
		Sample Date	3/14/2018	9/11/2018	3/13/2018	9/11/2018	3/13/2018	9/11/2018
APPENDIX III	**Boron**	N/R	ND (0.0056 J)	ND	ND (0.0042 J)	ND	ND	ND
	Calcium	N/R	59.9	60.2	30.8	29.1	33.3	30.9
	Chloride	(250)	2.2	2.4	ND	2.3	2.7	2.4
	Fluoride	4	ND (0.18 J)	ND	ND (0.091 J)	ND	ND	ND
	pH	N/R	7.4	7.8	7.0	7.4	7.4	7.7
	Sulfate	(250)	14.0	14.9	1.4	1.7	1.7	1.7
	TDS	(500)	290	295	153	152	153	153

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 only as a general guideline (not enforced).
3. Results for substances are reported in milligrams per liter (mg/L).
4. ND (Not Detected) indicates the substance was not detected above the analytical method detection limit (MDL).
5. ND (value J) indicates the substance was detected at such low levels that the precision of the laboratory instruments could not produce a reliable value. Therefore, the value displayed (value J) is qualified by the laboratory as an estimated number.
6. ND U* = This analyte is considered “not-detected” because it was detected in an associated blank at a similar level.
7. N/R indicates a substance does not have an MCL or SMCL, but is evaluated statistically, as required by EPA's CCR Rule.
8. TDS indicates total dissolved solids.
9. Appendix III = indicator parameters evaluated during Detection Monitoring

Table 7
Plant Bowen CCR Landfills Cells 9 & 10
Analytical Data Summary

Substance		MCL/ (SMCL)	Well ID							
			GWA-39RZ	GWA-39RZ	GWA-39Z	GWA-39Z	GWA-40	GWA-40	GWA-41	GWA-41
		Sample Date	3/16/2018	9/14/2018	3/14/2018	9/12/2018	3/14/2018	9/12/2018	3/14/2018	9/12/2018
APPENDIX III	Boron	N/R	ND (0.0067 J)	ND (0.0059 J)	ND	ND	ND (0.0093 J)	ND	ND (0.011 J)	ND
	Calcium	N/R	32.6	29.2	26.4	25.1	25.7	ND (18.4 J)	39.6	ND (14.2 J)
	Chloride	(250)	2.6	1.9	1.4	1.6	2.4	1.0	3.0	1.4
	Fluoride	4	ND (0.27 J)	ND (0.10 J)	ND (0.14 J)	ND	ND (0.055 J)	ND	ND	ND
	pH	N/R	7.5	7.3	7.4	6.9	7.6	7.1	7.1	6.5
	Sulfate	(250)	15.5	11.6	3.8	3.7	3.8	1.7	11.5	1.8
	TDS	(500)	150	165	126	134	123	105	192	82.0

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 only as a general guideline (not enforced).
3. Results for substances are reported in milligrams per liter (mg/L).
4. ND (Not Detected) indicates the substance was not detected above the analytical method detection limit (MDL).
5. ND (value J) indicates the substance was detected at such low levels that the precision of the laboratory instruments could not produce a reliable value. Therefore, the value displayed (value J) is qualified by the laboratory as an estimated number.
6. ND U* = This analyte is considered “not-detected” because it was detected in an associated blank at a similar level.
7. N/R indicates a substance does not have an MCL or SMCL, but is evaluated statistically, as required by EPA's CCR Rule.
8. TDS indicates total dissolved solids.
9. Appendix III = indicator parameters evaluated during Detection Monitoring

Table 7
Plant Bowen CCR Landfills Cells 9 & 10
Analytical Data Summary

Substance		MCL/ (SMCL)	Well ID							
			GWA-41R	GWA-41R	GWA-42	GWA-42	GWA-43	GWA-43	GWA-43R	GWA-43R
		Sample Date	3/14/2018	9/12/2018	3/14/2018	9/14/2018	3/14/2018	9/12/2018	3/15/2018	9/12/2018
APPENDIX III	**Boron**	N/R	ND (0.014 J)	ND (0.013 J)	ND	ND	ND	ND	ND (0.018 J)	ND (0.018 J)
	Calcium	N/R	41.4	29.0	32.6	30.5	3.6	3.7	28.0	28.7
	Chloride	(250)	ND (4.0 J)	2.1	3.2	2.3	1.3	1.3	2.8	3.1
	Fluoride	4	ND	ND	ND (0.060 J)	ND	ND	ND	ND	ND
	pH	N/R	7.0	7.0	7.6	7.4	5.9	5.7	7.7	7.8
	Sulfate	(250)	ND (10.9 J)	3.7	2.1	1.6	ND (0.39 J)	ND (0.30 J)	5.1	5.6
	TDS	(500)	210	159	134	139	ND	ND U*	117	151

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 only as a general guideline (not enforced).
3. Results for substances are reported in milligrams per liter (mg/L).
4. ND (Not Detected) indicates the substance was not detected above the analytical method detection limit (MDL).
5. ND (value J) indicates the substance was detected at such low levels that the precision of the laboratory instruments could not produce a reliable value. Therefore, the value displayed (value J) is qualified by the laboratory as an estimated number.
6. ND U* = This analyte is considered “not-detected” because it was detected in an associated blank at a similar level.
7. N/R indicates a substance does not have an MCL or SMCL, but is evaluated statistically, as required by EPA's CCR Rule.
8. TDS indicates total dissolved solids.
9. Appendix III = indicator parameters evaluated during Detection Monitoring

Table 7
Plant Bowen CCR Landfills Cells 9 & 10
Analytical Data Summary

Substance		MCL/ (SMCL)	Well ID							
			GWC-44	GWC-44	GWC-45	GWC-45	GWC-45R	GWC-45R	GWC-46R	GWC-46R
		Sample Date	3/15/2018	9/12/2018	3/15/2018	9/13/2018	3/15/2018	9/13/2018	3/15/2018	9/13/2018
APPENDIX III	**Boron**	N/R	ND (0.014 J)	ND (0.0051 J)	ND (0.0077 J)	ND	ND (0.0063 J)	ND	ND (0.0042 J)	ND
	Calcium	N/R	9.0	4.1	0.77	0.79	34.6	36.1	46.2	45.3
	Chloride	(250)	6.5	3.6	ND U*	0.93	3.3	2.9	2.0	1.9
	Fluoride	4	ND (0.11 J)	ND (0.062 J)	ND	ND	ND	ND	ND	ND
	pH	N/R	4.3	4.5	4.6	5.3	6.9	7.3	7.2	7.5
	Sulfate	(250)	32.4	16.0	ND (0.75 J)	1.3	2.9	2.3	6.4	7.2
	TDS	(500)	41.0	ND U*	ND	ND U*	146	185	231	263

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 only as a general guideline (not enforced).
3. Results for substances are reported in milligrams per liter (mg/L).
4. ND (Not Detected) indicates the substance was not detected above the analytical method detection limit (MDL).
5. ND (value J) indicates the substance was detected at such low levels that the precision of the laboratory instruments could not produce a reliable value. Therefore, the value displayed (value J) is qualified by the laboratory as an estimated number.
6. ND U* = This analyte is considered “not-detected” because it was detected in an associated blank at a similar level.
7. N/R indicates a substance does not have an MCL or SMCL, but is evaluated statistically, as required by EPA's CCR Rule.
8. TDS indicates total dissolved solids.
9. Appendix III = indicator parameters evaluated during Detection Monitoring

Table 7
Plant Bowen CCR Landfills Cells 9 & 10
Analytical Data Summary

Substance		MCL/ (SMCL)	Well ID							
			GWC-47	GWC-47	GWC-47R	GWC-47R	GWC-48	GWC-48	GWC-49R	GWC-49R
		Sample Date	3/15/2018	9/13/2018	3/16/2018	9/13/2018	3/15/2018	9/13/2018	3/15/2018	9/13/2018
APPENDIX III	**Boron**	N/R	ND	ND	ND	ND	ND	ND	ND	ND
	Calcium	N/R	ND (21.6 J)	ND (23.8 J)	30.2	30.9	3.5	2.5	ND (24.4 J)	ND (22.8 J)
	Chloride	(250)	2.7	2.6	2.7	2.5	2.6	2.8	1.6	1.3
	Fluoride	4	ND	ND (0.047 J)	ND (0.13 J)	ND	ND	ND	ND	ND
	pH	N/R	7.4	7.5	7.7	7.7	5.1	5.0	7.5	8.0
	Sulfate	(250)	3.7	4.8	13.4	11.6	ND (0.76 J)	1.6	3.1	3.6
	TDS	(500)	102	144	141	175	ND	ND U*	88.0	137

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 only as a general guideline (not enforced).
3. Results for substances are reported in milligrams per liter (mg/L).
4. ND (Not Detected) indicates the substance was not detected above the analytical method detection limit (MDL).
5. ND (value J) indicates the substance was detected at such low levels that the precision of the laboratory instruments could not produce a reliable value. Therefore, the value displayed (value J) is qualified by the laboratory as an estimated number.
6. ND U* = This analyte is considered “not-detected” because it was detected in an associated blank at a similar level.
7. N/R indicates a substance does not have an MCL or SMCL, but is evaluated statistically, as required by EPA's CCR Rule.
8. TDS indicates total dissolved solids.
9. Appendix III = indicator parameters evaluated during Detection Monitoring

Table 7
Plant Bowen CCR Landfills Cells 9 & 10
Analytical Data Summary

Substance		MCL/ (SMCL)	Well ID	
			GWC-49Z	GWC-49Z
		Sample Date	3/15/2018	9/14/2018
APPENDIX III	**Boron**	N/R	ND (0.0052 J)	ND
	Calcium	N/R	0.81	0.70
	Chloride	(250)	1.4	1.1
	Fluoride	4	ND	ND
	pH	N/R	5.1	5.4
	Sulfate	(250)	2.4	2.4
	TDS	(500)	ND	29.0

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 only as a general guideline (not enforced).
3. Results for substances are reported in milligrams per liter (mg/L).
4. ND (Not Detected) indicates the substance was not detected above the analytical method detection limit (MDL).
5. ND (value J) indicates the substance was detected at such low levels that the precision of the laboratory instruments could not produce a reliable value. Therefore, the value displayed (value J) is qualified by the laboratory as an estimated number.
6. ND U* = This analyte is considered “not-detected” because it was detected in an associated blank at a similar level.
7. N/R indicates a substance does not have an MCL or SMCL, but is evaluated statistically, as required by EPA's CCR Rule.
8. TDS indicates total dissolved solids.
9. Appendix III = indicator parameters evaluated during Detection Monitoring

Landfill Cells
1&2, 3&4, and 9&10

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Georgia Power - Plant Bowen
Cells 1&2, 3&4, and 9&10

Site Location Map

Prepared by/Date: RD 5/16/2018	wood.	Figure Number: 1
Checked by/Date:: RRQ 5/16/2018		
Project Number: 6122160287		

Legend

Well Location

- Cells 1 & 2
- Cells 3 & 4
- Cells 9 & 10
- * Measured for Water Level Only

N

GWC-20R, GWC-21R, GWC-22R, GWC-23R, GWC-24R, GWC-25R, GWC-18, GWC-18R, GWC-19R, GWC-17R, GWC-16R, GWA-56, GWA-55R, GWA-55, GWA-54, Cells 3 & 4, GWA-53, GWA-53R, GWA-38, GWA-52, GWA-51RZ, GWA-37, GWA-36, GWA-36R, GWC-45, GWC-45R, GWC-46R, GWC-47R, GWC-47, GWC-44, GWC-48, GWC-49Z, GWC-49R, GWC-14 *, GWC-14Z, GWC-13RZ, GWC-13R *, GWC-13, GWA-43, GWA-43R, GWA-42, Cells 9 & 10, GWC-15Z, GWC-15 *, GWC-15R, GWC-12, GWA-41R, GWA-41, GWC-11R, GWC-11, GWC-10, GWC-10R, GWA-40, Cells 1 & 2, GWC-9, GWA-1, GWC-8RR, GWC-8Z, GWA-39Z, GWA-39R *, GWA-39RZ, GWA-2, GWA-2R, GWC-7Z, GWC-6, GWC-6RZ, GWA-3, GWC-5, GWA-4 *, GWA-4R *, GWA-4RZ, GWA-50R, GWA-50

0 250 500 1,000 Feet

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Georgia Power - Plant Bowen
Cells 1&2, 3&4, and 9&10

Monitoring Well Network September 2018

Prepared by/Date: CLS 1/25/2019	
Checked by/Date:: RRQ 1/25/2019	wood.
Project Number: 6122160287	Figure Number: 2

Legend

- Well Location
- Potentiometric Surface Contour in Feet
- Interpreted Groundwater Flow Direction
- 659.80 Groundwater Elevation in Feet

*Notes: Wells GWC-44, GWA-4, GWA-50, and GWA-38 were not used in contouring

N

Cells 3 & 4

Cells 9 & 10

Cells 1 & 2

GWC-18 648.94
GWA-56 654.17
GWA-55 654.21
GWA-54 654.32
GWA-53 654.17
GWA-38* 659.80
GWA-52 654.12
GWA-37 652.94
GWA-36 654.09
GWC-47 652.58
GWC-48 653.36
GWC-45 661.37
GWC-44* 666.01
GWC-49Z 656.34
GWA-43 661.80
GWC-14Z 657.41
GWC-14 655.91
GWC-15Z 657.30
GWC-15 657.76
GWC-13 656.71
GWA-42 665.19
GWC-12 656.67
GWA-41 668.29
GWC-11 656.60
GWA-40 666.34
GWC-10 656.75
GWC-9 656.46
GWC-8Z 658.08
GWA-39Z 668.56
GWC-7Z 658.77
GWC-6 659.22
GWA-3 674.10
GWC-5 661.24
GWA-4* 671.17
GWA-50* 656.17

650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673

0 250 500 1,000 Feet

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Georgia Power - Plant Bowen
Event 10 (March 2018)

Potentiometric Surface - Overburden Wells

Prepared by/Date: RD 4/30/2018	wood.	Figure Number: 3
Checked by/Date:: RRQ 4/30/2018		
Project Number: 6122160287		

Legend

- Well Location
- Interpreted Groundwater Flow Direction
- Potentiometric Surface Contour in Feet
- 651.51 Groundwater Elevation in Feet

*Notes: Wells GWC-44, GWA-38 were not used in contouring

BTP - Below Top of Pump

N

Cells 3 & 4

Cells 9 & 10

Cells 1 & 2

GWC-18 BTP

GWA-56 651.96

GWA-55 651.99

GWA-54 652.11

GWA-53 651.91

GWA-38* 662.00

GWA-52 651.74

GWA-37 651.51

GWA-36 650.19

GWC-45 644.08

GWC-47 648.84

GWC-48 649.48

GWC-44* 657.34

GWC-49Z 652.47

GWA-43 655.96

GWC-14Z 653.31

GWC-14 652.10

GWC-15Z 653.30

GWC-15 653.73

GWC-13 652.78

GWA-42 660.97

GWC-12 652.85

GWA-41 662.47

GWC-11 652.63

GWA-40 661.85

GWC-10 652.62

GWC-9 652.74

GWC-8Z 653.41

GWA-39Z 666.16

GWC-7Z 653.72

GWC-6 654.59

GWA-3 666.72

GWC-5 657.92

GWA-4 NM

GWA-50 657.50

652 651 650 649 648 647 646 645 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 665 664 663 662 661 660 659 658 657 656 655 654 653

0 250 500 1,000 Feet

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Georgia Power - Plant Bowen
Event 11 (September 2018)

Potentiometric Surface - Overburden Wells

Prepared by/Date: RD 1/25/2019	wood.
Checked by/Date:: RRQ 1/25/2019	Figure Number: 4
Project Number: 6122160287	

Legend

- Well Location
- Potentiometric Surface Contour in Feet
- Interpreted Groundwater Flow Direction
- 651.35 Groundwater Elevation in Feet
- *Notes: Wells GWC-13RZ, GWA-2, GWA-4RZ, and GWA-50R were not used in contouring

N

Cells 3 & 4

Cells 9 & 10

Cells 1 & 2

GWC-21R 652.32
GWC-22R 652.65
GWC-23R 652.86
GWC-24R 652.78
GWC-25R 653.48
GWC-20R 650.62
GWC-19R 650.03
GWC-18R 649.17
GWC-17R 651.00
GWC-16R 651.35
GWA-55R 654.19
GWA-53R 654.08
GWA-51RZ 654.06
GWA-36R 654.08
GWC-45R 652.67
GWC-46R 653.55
GWC-47R 652.87
GWC-49R 656.01
GWA-43R 661.67
GWC-15R 657.55
GWC-13RZ* 609.71
GWC-13R 656.63
GWA-41R 668.35
GWC-11R 656.52
GWC-10R 656.69
GWC-8RR 658.00
GWA-1 658.47
GWA-39RZ 667.73
GWA-2* 656.31
GWA-2R 657.15
GWC-6RZ 658.51
GWA-4R 658.00
GWA-4RZ* 655.08
GWA-50R* 649.25

650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668

0 250 500 1,000 Feet

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Georgia Power - Plant Bowen
Event 10 (March 2018)

Potentiometric Surface - Rock Wells

Prepared by/Date: RD 1/25/2019	wood.	Figure Number: 5
Checked by/Date:: RRQ 1/25/2019		
Project Number: 6122160287		

Legend

- Well Location
- Interpreted Groundwater Flow Direction
- Potentiometric Surface Contour in Feet
- 655.99 Groundwater Elevation in Feet

Note: Wells GWA-2, GWA-4R, GWA-50R, GWA-6RZ, GWC-13RZ were not used in contouring

N

GWC-21R 650.86
GWC-22R 650.75
GWC-23R 650.97
GWC-24R 650.82
GWC-25R 651.45
GWC-20R 648.94
GWC-19R 648.38
GWC-18R 647.54
GWC-17R 650.26
GWC-16R 650.57
GWA-55R 651.92
GWA-53R 651.85
GWA-51RZ 651.20
GWA-36R 650.16
GWC-45R 649.24
GWC-46R 649.37
GWC-47R 649.01
GWC-49R 652.17
GWA-43R 655.99
GWA-41R 662.57
GWC-15R 653.53
GWC-13RZ* 633.24
GWC-13R 652.86
GWC-11R 652.58
GWC-10R 652.58
GWC-8RR 653.39
GWA-1 655.56
GWA-2* 653.00
GWA-2R 654.09
GWA-39RZ 663.64
GWC-6RZ* 645.03
GWA-4R* 656.07
GWA-4RZ 655.55
GWA-50R* 644.69

Cells 3 & 4
Cells 9 & 10
Cells 1 & 2

0 250 500 1,000 Feet

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Georgia Power - Plant Bowen
Event 11 (September 2018)

Potentiometric Surface - Rock Wells

Prepared by/Date: RD 1/25/2019	wood.	Figure Number: 6
Checked by/Date:: RRQ 1/25/2019		
Project Number: 6122160287		

APPENDIX A

LABORATORY ANALYTICAL AND FIELD SAMPLING REPORTS MARCH AND SEPTEMBER 2018

Well ID	Sample Date	Purge Volume (liter)	Time Elapsed	DTW (feet, TOC)	Drawdown (feet)	pH (su)	ORP (mV)	Specific Conductance (uS/cm)	DO (mg/L)	Temperature ©	Turbidity (NTU)
GWA-1	3/16/2018	18.4	7919	94.97	11.13	7.58	69.8	294.74	3.16	16.74	4.56
GWA-2	3/19/2018	16.8	5522	78.97	0.06	6.55	59.4	428.39	6.37	15.58	0.82
GWA-2R	3/16/2018	4.0	2160	79.84	0	7.31	42.6	269.5	0.83	16.66	0.04
GWA-3	3/19/2018	3.6	2180	63.69	7.9	5.40	59.9	21.67	8.67	16.43	1.43
GWA-4RZ	3/21/2018	11.04	5519	109.21	20.04	7.30	50.3	410.29	3.76	15.65	0.14
GWC-5	3/19/2018	10.1	5042	83.31	6.68	6.06	104.4	42.8	8.57	15.58	4.47
GWC-6	3/19/2018	2.6	1200	70.07	0.28	7.32	76.6	129.9	7.8	15.57	4.7
GWC-6RZ	3/20/2018	2.2	1200	73.43	0.02	6.90	47.8	127.7	7.23	15.35	1.29
GWC-7Z	3/20/2018	2.3	1200	54.40	0.1	6.76	17.8	230.3	0.16	15.56	2.56
GWC-8RR	3/21/2018	7.68	3839	44.15	0.07	7.90	52.9	196.55	9.1	12.59	4.97
GWC-8Z	3/20/2018	15.84	7919	44.75	0.46	7.27	68.1	177.3	7.81	15.57	4.56
GWC-9	3/20/2018	3.85	1922	39.25	0	4.88	81.4	34.2	7.02	15.93	0.34
GWC-10	3/20/2018	6.72	3361	32.11	0.92	6.23	87.5	142	6.82	15.58	3.74
GWC-10R	3/21/2018	6.5	2641	32.07	0	7.33	41.4	318.9	5.61	12.85	0.02
GWC-11	3/21/2018	12.0	3841	22.07	0	7.07	51	185.1	5.48	16.03	0.83
GWC-11R	3/22/2018	4.6	1441	22.00	0	7.72	57.9	261.1	6.4	15.83	0.35
GWC-12	3/22/2018	21.12	11523	21.56	0.21	6.45	-33	116.56	0.37	16.76	6.96
GWC-13	3/21/2018	10.0	4799	31.69	0	7.33	29	315.4	4.63	14.53	3.6
GWC-13RZ	3/23/2018	2.4	8160	94.15	0	7.58	69.8	453.7	4.79	16.33	0.76
GWC-14Z	3/22/2018	20.0	13478	32.30	0	6.93	80.4	223.8	5.42	16.86	7.17
GWC-15R	3/23/2018	16.4	8164	39.46	0.21	7.34	604.21	313.01	2.19	17.64	4.36
GWC-15Z	3/23/2018	21.12	10559	39.30	0.32	7.89	12.81	232.76	6.51	17.18	4.95
GWC-16R	3/14/2018	8.0	4143	88.36	8.67	7.11	500	563.7	2.18	15.87	0.98
GWC-17R	3/14/2018	3.0	1440	84.10	5.33	7.16	60.7	582.85	7.26	16.96	0.34
GWC-18	3/14/2018	30.0	4802	73.03	0	7.06	85.6	215.32	6.97	15.92	4.04
GWC-18R	3/14/2018	12.0	1681	72.65	0.02	7.51	62.1	258.52	7.04	15.08	4.35
GWC-19R	3/14/2018	5.0	1200	76.67	0	7.74	62.3	282.2	6.8	15.24	3.91
GWC-20R	3/14/2018	3.6	2166	70.61	0.10	7.62	58.6	337.97	6.9	14.58	0.08
GWC-21R	3/14/2018	7.2	3613	76.81	5.6	6.99	33.4	567.2	2.95	15.7	0.46
GWC-22R	3/13/2018	17.0	7470	63.17	0	7.49	-13.5	290.1	5.61	16.6	4.82
GWC-23R	3/14/2018	2.0	900	40.34	1.73	7.40	507.3	555.8	7.1	18.03	1.94
GWC-24R	3/13/2018	2.0	1200	24.80	0.05	7.02	18.7	356.9	1.4	15.92	1.55
GWC-25R	3/13/2018	4.5	1946	23.22	0	7.43	52.4	282.37	6.79	14.4	1.26

Well ID	Sample Date	Purge Volume (liter)	Time Elapsed	DTW (feet, TOC)	Drawdown (feet)	pH (su)	ORP (mV)	Specific Conductance (uS/cm)	DO (mg/L)	Temperature ©	Turbidity (NTU)
GWA-36	3/12/2018	2.88	1440	30.41	0	6.60	28.9	140.4	7.05	15.97	2.76
GWA-36R	3/12/2018	4.8	1200	30.04	0.03	7.26	42.2	297.2	5.31	15.11	4.02
GWA-37	3/12/2018	6.0	3600	58.45	7.76	5.72	50.6	24.4	4.01	14.38	0.15
GWA-38	3/13/2018	3.08	1680	57.36	0.61	5.57	68.8	34.39	7.96	15.89	2.79
GWA-39RZ	3/16/2018	36.0	21844	127.85	65.6	7.49	45.62	340.9	2	15.52	0.66
GWA-39Z	3/14/2018	21.0	6483	66.44	0	7.42	60.78	245.9	6	14.6	4.38
GWA-40	3/14/2018	6.2	1680	65.23	0.00	7.56	50.19	244.6	7.99	15.8	3.64
GWA-41	3/14/2018	2.4	1200	73.33	0.1	7.08	32.55	356.3	4.23	16.42	2.61
GWA-41R	3/14/2018	5.28	2642	74.14	0.14	7.04	32.07	381.9	1.59	16.64	4.46
GWA-42	3/14/2018	2.88	1440	72.75	0.01	7.60	45.82	275.13	3.32	16.51	0.59
GWA-43	3/14/2018	3.36	1681	48.73	0.08	5.85	76.11	32.78	8.45	15.39	1.73
GWA-43R	3/15/2018	70.0	12497	49.39	0.28	7.66	39.4	249.59	7.59	16.2	8.85
GWC-44	3/15/2018	2.0	1200	45.54	0.16	4.34	84.8	120.04	4.44	15.35	0.18
GWC-45	3/15/2018	6.9	2881	43.64	3.63	4.60	113.3	22.7	5.84	16.00	0.51
GWC-45R	3/15/2018	3.6	1919	49.45	0.06	6.87	85.2	337.9	3.83	17.31	0.52
GWC-46R	3/15/2018	2.4	1200	38.27	1.38	7.22	72.3	469.77	6.31	17.5	0.07
GWC-47	3/15/2018	70.0	1200	38.24	0.03	7.42	35.8	212.52	3.13	17.14	4.31
GWC-47R	3/16/2018	7.5	4321	42.29	4.6	7.72	71.6	295.7	2.82	17.44	0.65
GWC-48	3/15/2018	2.88	1440	34.93	0.11	5.14	69.1	38.35	3.58	18.02	0.11
GWC-49R	3/15/2018	6.2	2639	53.37	0	7.51	86.4	235.8	5.2	18.87	0.15
GWC-49Z	3/15/2018	11.6	2880	54.23	1.38	5.12	139	28.6	6.58	18.01	1.35
GWA-50	3/16/2018	7.7	4500	73.62	7.2	5.64	221.8	23.9	5.62	16.58	0.25
GWA-50R	3/16/2018	6.7	3840	71.96	0.04	5.46	292.2	20.8	9.32	15.37	0.16
GWA-51RZ	3/13/2018	1.6	15372	84.30	0	7.62	23.3	341.8	4.16	16.16	0.71
GWA-52	3/13/2018	7.2	2400	55.93	0	7.34	61.1	274.4	6.46	15.26	0.74
GWA-53	3/13/2018	20	6001	57.15	0	7.74	48	267.7	6.93	16.7	3.85
GWA-53R	3/13/2018	5.0	1920	56.78	0	7.80	44.9	270.6	6.87	16.43	2.4
GWA-54	3/13/2018	4.0	2160	50.25	0.01	7.39	315.2	240.9	2.53	16.2	0.29
GWA-55	3/12/2018	3.2	1200	42.59	0	7.00	24.9	371.9	3.88	16.49	0.38
GWA-55R	3/12/2018	2.4	1200	42.59	0	7.11	63.5	355.23	4.66	15.88	1.02
GWA-56	3/12/2018	7.0	1937	38.65	0.53	8.03	68.1	564.46	1.52	15.51	2.61

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

May 16, 2018

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

RE: Project: Plant Bowen cells 1+2
Pace Project No.: 262978

Dear Joju Abraham:
Enclosed are the analytical results for sample(s) received by the laboratory on March 16, 2018. 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.

REV05082018_report revised to correct MDL / J-flag settings.

REV05162018_report revised to set reporting limits in accordance with project scope.

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: Maria Padilla, Georgia Power
Greg Wrenn, Wood PLC

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

CERTIFICATIONS

Project: Plant Bowen cells 1+2
Pace Project No.: 262978

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
Texas Certification #: T104704397-08-TX
Virginia Certification #: 460204

Asheville Certification IDs

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE SUMMARY

Project: Plant Bowen cells 1+2
Pace Project No.: 262978

Lab ID	Sample ID	Matrix	Date Collected	Date Received
262978001	**GWA-50R**	Water	03/16/18 11:12	03/16/18 16:35
262978002	**GWA-50**	Water	03/16/18 13:00	03/16/18 16:35
262978003	**GWA-1**	Water	03/16/18 13:10	03/16/18 16:35
262978004	**GWA-2R**	Water	03/16/18 13:35	03/16/18 16:35
262978005	**DUP-1**	Water	03/16/18 00:00	03/16/18 16:35

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE ANALYTE COUNT

Project: Plant Bowen cells 1+2
Pace Project No.: 262978

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
262978001	**GWA-50R**	EPA 6020B	CSW	20	PASI-GA
		EPA 7470A	MTC	1	PASI-GA
		SM 2320B	JAD	3	PASI-GA
		SM 2540C	MJP	1	PASI-A
		EPA 300.0	RLC	3	PASI-GA
262978002	**GWA-50**	EPA 6020B	CSW	20	PASI-GA
		EPA 7470A	MTC	1	PASI-GA
		SM 2320B	JAD	3	PASI-GA
		SM 2540C	MJP	1	PASI-A
		EPA 300.0	RLC	3	PASI-GA
262978003	**GWA-1**	EPA 6020B	CSW	20	PASI-GA
		EPA 7470A	MTC	1	PASI-GA
		SM 2320B	JAD	3	PASI-GA
		SM 2540C	MJP	1	PASI-A
		EPA 300.0	RLC	3	PASI-GA
262978004	**GWA-2R**	EPA 6020B	CSW	20	PASI-GA
		EPA 7470A	MTC	1	PASI-GA
		SM 2320B	JAD	3	PASI-GA
		SM 2540C	MJP	1	PASI-A
		EPA 300.0	RLC	3	PASI-GA
262978005	**DUP-1**	EPA 6020B	CSW	20	PASI-GA
		EPA 7470A	MTC	1	PASI-GA
		SM 2320B	JAD	3	PASI-GA
		SM 2540C	MJP	1	PASI-A
		EPA 300.0	RLC	3	PASI-GA

Pace Analytical Services, LLC
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(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells 1+2
Pace Project No.: 262978

Sample: GWA-50R **Lab ID: 262978001** Collected: 03/16/18 11:12 Received: 03/16/18 16:35 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								
Antimony	ND	mg/L	0.0030	0.00078	1	03/20/18 13:18	03/22/18 18:19	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	03/20/18 13:18	03/22/18 18:19	7440-38-2	
Barium	**0.012**	mg/L	0.010	0.00078	1	03/20/18 13:18	03/22/18 18:19	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	03/20/18 13:18	03/22/18 18:19	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	03/20/18 13:18	03/22/18 18:19	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	03/20/18 13:18	03/22/18 18:19	7440-43-9	
Calcium	**2.6**	mg/L	0.50	0.014	1	03/20/18 13:18	03/22/18 18:19	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	03/20/18 13:18	03/22/18 18:19	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	03/20/18 13:18	03/22/18 18:19	7440-48-4	
Copper	**0.0035J**	mg/L	0.025	0.0013	1	03/20/18 13:18	03/22/18 18:19	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	03/20/18 13:18	03/22/18 18:19	7439-92-1	
Magnesium	**1.1**	mg/L	0.050	0.0062	1	03/20/18 13:18	03/22/18 18:19	7439-95-4	
Nickel	**0.0014J**	mg/L	0.010	0.00095	1	03/20/18 13:18	03/22/18 18:19	7440-02-0	
Potassium	**0.26**	mg/L	0.10	0.035	1	03/20/18 13:18	03/22/18 18:19	7440-09-7	
Selenium	ND	mg/L	0.010	0.0014	1	03/20/18 13:18	03/22/18 18:19	7782-49-2	
Silver	**0.0023J**	mg/L	0.010	0.00095	1	03/20/18 13:18	03/22/18 18:19	7440-22-4	
Sodium	**1.1**	mg/L	0.10	0.015	1	03/20/18 13:18	03/22/18 18:19	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00014	1	03/20/18 13:18	03/22/18 18:19	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	03/20/18 13:18	03/22/18 18:19	7440-62-2	
Zinc	**0.0024J**	mg/L	0.010	0.0021	1	03/20/18 13:18	03/22/18 18:19	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	03/20/18 17:20	03/21/18 12:31	7439-97-6	
2320B Alkalinity Low Level	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**8.5**	mg/L	1.0	1.0	1		03/22/18 14:41		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	1.0	1.0	1		03/22/18 14:41		
Alkalinity, Total as CaCO3	**8.5**	mg/L	1.0	1.0	1		03/22/18 14:41		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		03/23/18 09:19		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**1.1**	mg/L	0.25	0.024	1		03/21/18 12:48	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		03/21/18 12:48	16984-48-8	
Sulfate	**0.87J**	mg/L	1.0	0.017	1		03/21/18 12:48	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells 1+2
Pace Project No.: 262978

Sample: GWA-50 **Lab ID: 262978002** Collected: 03/16/18 13:00 Received: 03/16/18 16:35 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								
Antimony	ND	mg/L	0.0030	0.00078	1	03/20/18 13:18	03/22/18 18:31	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	03/20/18 13:18	03/22/18 18:31	7440-38-2	
Barium	**0.0084J**	mg/L	0.010	0.00078	1	03/20/18 13:18	03/22/18 18:31	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	03/20/18 13:18	03/22/18 18:31	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	03/20/18 13:18	03/22/18 18:31	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	03/20/18 13:18	03/22/18 18:31	7440-43-9	
Calcium	**1.8**	mg/L	0.50	0.014	1	03/20/18 13:18	03/22/18 18:31	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	03/20/18 13:18	03/22/18 18:31	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	03/20/18 13:18	03/22/18 18:31	7440-48-4	
Copper	**0.0037J**	mg/L	0.025	0.0013	1	03/20/18 13:18	03/22/18 18:31	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	03/20/18 13:18	03/22/18 18:31	7439-92-1	
Magnesium	**0.33**	mg/L	0.050	0.0062	1	03/20/18 13:18	03/22/18 18:31	7439-95-4	
Nickel	ND	mg/L	0.010	0.00095	1	03/20/18 13:18	03/22/18 18:31	7440-02-0	
Potassium	**0.34**	mg/L	0.10	0.035	1	03/20/18 13:18	03/22/18 18:31	7440-09-7	
Selenium	ND	mg/L	0.010	0.0014	1	03/20/18 13:18	03/22/18 18:31	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	03/20/18 13:18	03/22/18 18:31	7440-22-4	
Sodium	**2.5**	mg/L	0.10	0.015	1	03/20/18 13:18	03/22/18 18:31	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00014	1	03/20/18 13:18	03/22/18 18:31	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	03/20/18 13:18	03/22/18 18:31	7440-62-2	
Zinc	ND	mg/L	0.010	0.0021	1	03/20/18 13:18	03/22/18 18:31	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	03/20/18 17:20	03/21/18 12:38	7439-97-6	
2320B Alkalinity Low Level	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**9.5**	mg/L	1.0	1.0	1		03/22/18 14:44		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	1.0	1.0	1		03/22/18 14:44		
Alkalinity, Total as CaCO3	**9.5**	mg/L	1.0	1.0	1		03/22/18 14:44		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		03/23/18 09:19		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**1.4**	mg/L	0.25	0.024	1		03/21/18 13:10	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		03/21/18 13:10	16984-48-8	
Sulfate	**0.67J**	mg/L	1.0	0.017	1		03/21/18 13:10	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells 1+2
Pace Project No.: 262978

Sample: GWA-1 **Lab ID: 262978003** Collected: 03/16/18 13:10 Received: 03/16/18 16:35 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								
Antimony	**0.0014J**	mg/L	0.0030	0.00078	1	03/20/18 13:18	03/22/18 18:42	7440-36-0	
Arsenic	**0.00085J**	mg/L	0.0050	0.00057	1	03/20/18 13:18	03/22/18 18:42	7440-38-2	
Barium	**0.016**	mg/L	0.010	0.00078	1	03/20/18 13:18	03/22/18 18:42	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	03/20/18 13:18	03/22/18 18:42	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	03/20/18 13:18	03/22/18 18:42	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	03/20/18 13:18	03/22/18 18:42	7440-43-9	
Calcium	**28.5**	mg/L	25.0	0.69	50	03/20/18 13:18	03/22/18 18:48	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	03/20/18 13:18	03/22/18 18:42	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	03/20/18 13:18	03/22/18 18:42	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	03/20/18 13:18	03/22/18 18:42	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	03/20/18 13:18	03/22/18 18:42	7439-92-1	
Magnesium	**16.6**	mg/L	2.5	0.31	50	03/20/18 13:18	03/22/18 18:48	7439-95-4	
Nickel	ND	mg/L	0.010	0.00095	1	03/20/18 13:18	03/22/18 18:42	7440-02-0	
Potassium	**1.3**	mg/L	0.10	0.035	1	03/20/18 13:18	03/22/18 18:42	7440-09-7	
Selenium	ND	mg/L	0.010	0.0014	1	03/20/18 13:18	03/22/18 18:42	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	03/20/18 13:18	03/22/18 18:42	7440-22-4	
Sodium	**6.1**	mg/L	0.10	0.015	1	03/20/18 13:18	03/22/18 18:42	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00014	1	03/20/18 13:18	03/22/18 18:42	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	03/20/18 13:18	03/22/18 18:42	7440-62-2	
Zinc	**0.0061J**	mg/L	0.010	0.0021	1	03/20/18 13:18	03/22/18 18:42	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	03/20/18 17:20	03/21/18 12:40	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**161**	mg/L	20.0	20.0	1		03/26/18 13:14		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	20.0	20.0	1		03/26/18 13:14		
Alkalinity, Total as CaCO3	**161**	mg/L	20.0	20.0	1		03/26/18 13:14		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**140**	mg/L	25.0	25.0	1		03/23/18 09:19		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**1.7**	mg/L	0.25	0.024	1		03/21/18 13:32	16887-00-6	
Fluoride	**0.029J**	mg/L	0.30	0.029	1		03/21/18 13:32	16984-48-8	
Sulfate	**1.5**	mg/L	1.0	0.017	1		03/21/18 13:32	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells 1+2
Pace Project No.: 262978

Sample: GWA-2R **Lab ID: 262978004** Collected: 03/16/18 13:35 Received: 03/16/18 16:35 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								
Antimony	**0.021**	mg/L	0.0030	0.00078	1	03/20/18 13:18	03/22/18 18:54	7440-36-0	
Arsenic	**0.0010J**	mg/L	0.0050	0.00057	1	03/20/18 13:18	03/22/18 18:54	7440-38-2	
Barium	**0.015**	mg/L	0.010	0.00078	1	03/20/18 13:18	03/22/18 18:54	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	03/20/18 13:18	03/22/18 18:54	7440-41-7	
Boron	**0.0077J**	mg/L	0.040	0.0039	1	03/20/18 13:18	03/22/18 18:54	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	03/20/18 13:18	03/22/18 18:54	7440-43-9	
Calcium	**33.0**	mg/L	25.0	0.69	50	03/20/18 13:18	03/22/18 18:59	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	03/20/18 13:18	03/22/18 18:54	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	03/20/18 13:18	03/22/18 18:54	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	03/20/18 13:18	03/22/18 18:54	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	03/20/18 13:18	03/22/18 18:54	7439-92-1	
Magnesium	**12.0**	mg/L	2.5	0.31	50	03/20/18 13:18	03/22/18 18:59	7439-95-4	
Nickel	ND	mg/L	0.010	0.00095	1	03/20/18 13:18	03/22/18 18:54	7440-02-0	
Potassium	**0.37**	mg/L	0.10	0.035	1	03/20/18 13:18	03/22/18 18:54	7440-09-7	
Selenium	ND	mg/L	0.010	0.0014	1	03/20/18 13:18	03/22/18 18:54	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	03/20/18 13:18	03/22/18 18:54	7440-22-4	
Sodium	**2.2**	mg/L	0.10	0.015	1	03/20/18 13:18	03/22/18 18:54	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00014	1	03/20/18 13:18	03/22/18 18:54	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	03/20/18 13:18	03/22/18 18:54	7440-62-2	
Zinc	ND	mg/L	0.010	0.0021	1	03/20/18 13:18	03/22/18 18:54	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	03/20/18 17:20	03/21/18 12:43	7439-97-6	
2320B Alkalinity Low Level	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**104**	mg/L	1.0	1.0	1		03/26/18 15:34		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	1.0	1.0	1		03/26/18 15:34		
Alkalinity, Total as CaCO3	**104**	mg/L	1.0	1.0	1		03/26/18 15:34		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**130**	mg/L	25.0	25.0	1		03/23/18 09:19		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**1.6**	mg/L	0.25	0.024	1		03/21/18 13:54	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		03/21/18 13:54	16984-48-8	
Sulfate	**14.8**	mg/L	1.0	0.017	1		03/21/18 13:54	14808-79-8	M1

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells 1+2
Pace Project No.: 262978

Sample: DUP-1 **Lab ID: 262978005** Collected: 03/16/18 00:00 Received: 03/16/18 16:35 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								
Antimony	ND	mg/L	0.0030	0.00078	1	03/20/18 13:18	03/22/18 19:05	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	03/20/18 13:18	03/22/18 19:05	7440-38-2	
Barium	**0.012**	mg/L	0.010	0.00078	1	03/20/18 13:18	03/22/18 19:05	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	03/20/18 13:18	03/22/18 19:05	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	03/20/18 13:18	03/22/18 19:05	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	03/20/18 13:18	03/22/18 19:05	7440-43-9	
Calcium	**2.7**	mg/L	0.50	0.014	1	03/20/18 13:18	03/22/18 19:05	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	03/20/18 13:18	03/22/18 19:05	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	03/20/18 13:18	03/22/18 19:05	7440-48-4	
Copper	**0.0035J**	mg/L	0.025	0.0013	1	03/20/18 13:18	03/22/18 19:05	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	03/20/18 13:18	03/22/18 19:05	7439-92-1	
Magnesium	**1.2**	mg/L	0.050	0.0062	1	03/20/18 13:18	03/22/18 19:05	7439-95-4	
Nickel	**0.0015J**	mg/L	0.010	0.00095	1	03/20/18 13:18	03/22/18 19:05	7440-02-0	
Potassium	**0.26**	mg/L	0.10	0.035	1	03/20/18 13:18	03/22/18 19:05	7440-09-7	
Selenium	ND	mg/L	0.010	0.0014	1	03/20/18 13:18	03/22/18 19:05	7782-49-2	
Silver	**0.0022J**	mg/L	0.010	0.00095	1	03/20/18 13:18	03/22/18 19:05	7440-22-4	
Sodium	**1.1**	mg/L	0.10	0.015	1	03/20/18 13:18	03/22/18 19:05	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00014	1	03/20/18 13:18	03/22/18 19:05	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	03/20/18 13:18	03/22/18 19:05	7440-62-2	
Zinc	**0.0041J**	mg/L	0.010	0.0021	1	03/20/18 13:18	03/22/18 19:05	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	03/20/18 17:20	03/21/18 12:45	7439-97-6	
2320B Alkalinity Low Level	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**9.5**	mg/L	1.0	1.0	1		03/26/18 15:38		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	1.0	1.0	1		03/26/18 15:38		
Alkalinity, Total as CaCO3	**9.5**	mg/L	1.0	1.0	1		03/26/18 15:38		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		03/23/18 09:19		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**1.1**	mg/L	0.25	0.024	1		03/21/18 14:37	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		03/21/18 14:37	16984-48-8	
Sulfate	**0.86J**	mg/L	1.0	0.017	1		03/21/18 14:37	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells 1+2
Pace Project No.: 262978

QC Batch: 2864 Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
Associated Lab Samples: 262978001, 262978002, 262978003, 262978004, 262978005

METHOD BLANK: 14956 Matrix: Water
Associated Lab Samples: 262978001, 262978002, 262978003, 262978004, 262978005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00050	0.000036	03/21/18 11:43	

LABORATORY CONTROL SAMPLE: 14957

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	.0025	0.0025	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 14958 14959

Parameter	Units	262977002 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	.0025	.0025	0.0026	0.0025	102	100	75-125	2	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells 1+2
Pace Project No.: 262978

QC Batch: 2844 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020B MET
Associated Lab Samples: 262978001, 262978002, 262978003, 262978004, 262978005

METHOD BLANK: 14842 Matrix: Water
Associated Lab Samples: 262978001, 262978002, 262978003, 262978004, 262978005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	03/22/18 14:50	
Arsenic	mg/L	ND	0.0050	0.00057	03/22/18 14:50	
Barium	mg/L	ND	0.010	0.00078	03/22/18 14:50	
Beryllium	mg/L	ND	0.0030	0.000050	03/22/18 14:50	
Boron	mg/L	ND	0.040	0.0039	03/22/18 14:50	
Cadmium	mg/L	ND	0.0010	0.000093	03/22/18 14:50	
Calcium	mg/L	ND	0.50	0.014	03/22/18 14:50	
Chromium	mg/L	ND	0.010	0.0016	03/22/18 14:50	
Cobalt	mg/L	ND	0.010	0.00052	03/22/18 14:50	
Copper	mg/L	ND	0.025	0.0013	03/22/18 14:50	
Lead	mg/L	ND	0.0050	0.00027	03/22/18 14:50	
Magnesium	mg/L	ND	0.050	0.0062	03/22/18 14:50	
Nickel	mg/L	ND	0.010	0.00095	03/22/18 14:50	
Potassium	mg/L	ND	0.10	0.035	03/22/18 14:50	
Selenium	mg/L	ND	0.010	0.0014	03/22/18 14:50	
Silver	mg/L	ND	0.010	0.00095	03/22/18 14:50	
Sodium	mg/L	ND	0.10	0.015	03/22/18 14:50	
Thallium	mg/L	ND	0.0010	0.00014	03/22/18 14:50	
Vanadium	mg/L	ND	0.010	0.0019	03/22/18 14:50	
Zinc	mg/L	ND	0.010	0.0021	03/22/18 14:50	

LABORATORY CONTROL SAMPLE: 14843

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	.1	0.11	108	80-120	
Arsenic	mg/L	.1	0.10	103	80-120	
Barium	mg/L	.1	0.11	107	80-120	
Beryllium	mg/L	.1	0.11	111	80-120	
Boron	mg/L	1	1.1	112	80-120	
Cadmium	mg/L	.1	0.11	108	80-120	
Calcium	mg/L	1	1.1	108	80-120	
Chromium	mg/L	.1	0.10	105	80-120	
Cobalt	mg/L	.1	0.11	108	80-120	
Copper	mg/L	.1	0.11	107	80-120	
Lead	mg/L	.1	0.11	107	80-120	
Magnesium	mg/L	1	1.1	111	80-120	
Nickel	mg/L	.1	0.10	105	80-120	
Potassium	mg/L	1	1.1	107	80-120	
Selenium	mg/L	.1	0.10	103	80-120	
Silver	mg/L	.1	0.094	94	80-120	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells 1+2
Pace Project No.: 262978

LABORATORY CONTROL SAMPLE: 14843

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sodium	mg/L	1	1.1	110	80-120	
Thallium	mg/L	.1	0.10	104	80-120	
Vanadium	mg/L	.1	0.11	109	80-120	
Zinc	mg/L	.1	0.11	113	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 14844 14845

Parameter	Units	262977001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	.1	.1	0.10	0.10	104	103	75-125	2	20	
Arsenic	mg/L	0.00076J	.1	.1	0.10	0.10	101	101	75-125	0	20	
Barium	mg/L	0.016	.1	.1	0.12	0.12	102	100	75-125	2	20	
Beryllium	mg/L	0.000065J	.1	.1	0.10	0.10	104	103	75-125	0	20	
Boron	mg/L	0.0076J	1	1	1.0	1.1	103	105	75-125	2	20	
Cadmium	mg/L	ND	.1	.1	0.10	0.10	101	101	75-125	1	20	
Calcium	mg/L	30.7	1	1	29.3	30.7	-135	6	75-125	5	20	M6
Chromium	mg/L	ND	.1	.1	0.11	0.10	108	104	75-125	4	20	
Cobalt	mg/L	ND	.1	.1	0.11	0.10	108	104	75-125	4	20	
Copper	mg/L	ND	.1	.1	0.11	0.10	107	101	75-125	6	20	
Lead	mg/L	ND	.1	.1	0.10	0.10	101	100	75-125	1	20	
Magnesium	mg/L	17.4	1	1	17.9	17.9	42	47	75-125	0	20	M1
Nickel	mg/L	ND	.1	.1	0.10	0.10	104	100	75-125	4	20	
Potassium	mg/L	0.68	1	1	1.7	1.7	102	98	75-125	3	20	
Selenium	mg/L	ND	.1	.1	0.10	0.10	100	101	75-125	1	20	
Silver	mg/L	ND	.1	.1	0.091	0.089	91	89	75-125	2	20	
Sodium	mg/L	1.3	1	1	2.3	2.3	96	98	75-125	1	20	
Thallium	mg/L	ND	.1	.1	0.10	0.099	102	99	75-125	3	20	
Vanadium	mg/L	ND	.1	.1	0.11	0.11	107	105	75-125	2	20	
Zinc	mg/L	ND	.1	.1	0.11	0.11	113	106	75-125	6	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells 1+2
Pace Project No.: 262978

QC Batch: 3164 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 262978003

METHOD BLANK: 16361 Matrix: Water
Associated Lab Samples: 262978003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	20.0	20.0	03/26/18 11:36	

LABORATORY CONTROL SAMPLE: 16362

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	100	101	101	85-115	

SAMPLE DUPLICATE: 16363

Parameter	Units	262962001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	159	158	1	10	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells 1+2
Pace Project No.: 262978

QC Batch: 2991 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity, Low Level
Associated Lab Samples: 262978001, 262978002

METHOD BLANK: 15595 Matrix: Water
Associated Lab Samples: 262978001, 262978002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	1.0	1.0	03/22/18 12:16	

LABORATORY CONTROL SAMPLE: 15596

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	49.5	99	85-115	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells 1+2
Pace Project No.: 262978

QC Batch: 3193 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity, Low Level
Associated Lab Samples: 262978004, 262978005

METHOD BLANK: 16458 Matrix: Water
Associated Lab Samples: 262978004, 262978005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	1.0	1.0	03/26/18 15:15	

LABORATORY CONTROL SAMPLE: 16459

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.0	100	85-115	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells 1+2
Pace Project No.: 262978

QC Batch: 403194 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 262978001, 262978002, 262978003, 262978004, 262978005

METHOD BLANK: 2236685 Matrix: Water
Associated Lab Samples: 262978001, 262978002, 262978003, 262978004, 262978005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	03/26/18 13:30	

LABORATORY CONTROL SAMPLE: 2236686

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	250	100	90-110	

SAMPLE DUPLICATE: 2236687

Parameter	Units	262978001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	ND	ND		5	

SAMPLE DUPLICATE: 2236688

Parameter	Units	262960001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	<25.0	ND		5	

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REPORT OF LABORATORY ANALYSIS

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(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells 1+2
Pace Project No.: 262978

QC Batch: 2892 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 262978001, 262978002, 262978003, 262978004, 262978005

METHOD BLANK: 15092 Matrix: Water
Associated Lab Samples: 262978001, 262978002, 262978003, 262978004, 262978005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	0.024	03/21/18 05:04	
Fluoride	mg/L	ND	0.30	0.029	03/21/18 05:04	
Sulfate	mg/L	ND	1.0	0.017	03/21/18 05:04	

LABORATORY CONTROL SAMPLE: 15093

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	10	10.4	104	90-110	
Fluoride	mg/L	10	10.9	109	90-110	
Sulfate	mg/L	10	10.6	106	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 15094 15095

Parameter	Units	262969001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	1.2	10	10	10.8	10.7	96	95	90-110	1	15	
Fluoride	mg/L	ND	10	10	10.6	10.5	106	105	90-110	0	15	
Sulfate	mg/L	0.75J	10	10	10.9	10.9	101	101	90-110	0	15	

MATRIX SPIKE SAMPLE: 15096

Parameter	Units	262978004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	1.6	10	11.4	98	90-110	
Fluoride	mg/L	ND	10	10.8	108	90-110	
Sulfate	mg/L	14.8	10	23.8	89	90-110	M1

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REPORT OF LABORATORY ANALYSIS

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110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALIFIERS

Project: Plant Bowen cells 1+2
Pace Project No.: 262978

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.

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.

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Bowen cells 1+2
Pace Project No.: 262978

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
262978001	**GWA-50R**	EPA 3005A	2844	EPA 6020B	3022
262978002	**GWA-50**	EPA 3005A	2844	EPA 6020B	3022
262978003	**GWA-1**	EPA 3005A	2844	EPA 6020B	3022
262978004	**GWA-2R**	EPA 3005A	2844	EPA 6020B	3022
262978005	**DUP-1**	EPA 3005A	2844	EPA 6020B	3022
262978001	**GWA-50R**	EPA 7470A	2864	EPA 7470A	2916
262978002	**GWA-50**	EPA 7470A	2864	EPA 7470A	2916
262978003	**GWA-1**	EPA 7470A	2864	EPA 7470A	2916
262978004	**GWA-2R**	EPA 7470A	2864	EPA 7470A	2916
262978005	**DUP-1**	EPA 7470A	2864	EPA 7470A	2916
262978003	**GWA-1**	SM 2320B	3164		
262978001	**GWA-50R**	SM 2320B	2991		
262978002	**GWA-50**	SM 2320B	2991		
262978004	**GWA-2R**	SM 2320B	3193		
262978005	**DUP-1**	SM 2320B	3193		
262978001	**GWA-50R**	SM 2540C	403194		
262978002	**GWA-50**	SM 2540C	403194		
262978003	**GWA-1**	SM 2540C	403194		
262978004	**GWA-2R**	SM 2540C	403194		
262978005	**DUP-1**	SM 2540C	403194		
262978001	**GWA-50R**	EPA 300.0	2892		
262978002	**GWA-50**	EPA 300.0	2892		
262978003	**GWA-1**	EPA 300.0	2892		
262978004	**GWA-2R**	EPA 300.0	2892		
262978005	**DUP-1**	EPA 300.0	2892		

CHAIN OF CUSTODY RECORD

Pace Analytical® www.pacelabs.com

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

PAGE: 1 OF 1

CLIENT NAME: Southern Company Services
CLIENT ADDRESS/PHONE NUMBER/FAX NUMBER: 241 Ralph McGill Blvd SE BIN 10185 Atlanta GA 30308
REPORT TO: Joju Abraham
CC: Maria Padilla
REQUESTED COMPLETION DATE:
PO #: GPC10684198
PROJECT NAME/STATE: Plant Bowen Cells 1&2 CCR + Bowen Shale
PROJECT #:

ANALYSIS REQUESTED:

Analysis	Container type	Preservation
Metals App. III EPA 6020	P	3
Bowen State GW EPA 6020/7470	P	3
Mg, Na, K EPA 6020	P	3
Cl, F, SO4 EPA 300 TDS SM2540C	P	7
CO3, HCO3 SM2320B	P	7

Collection DATE	Collection TIME	MATRIX CODE*	COMP	GRAB	SAMPLE IDENTIFICATION	# of CONTAINERS	Metals App. III EPA 6020	Bowen State GW EPA 6020/7470	Mg, Na, K EPA 6020	Cl, F, SO4 EPA 300 TDS SM2540C	CO3, HCO3 SM2320B	LAB ID NUMBER	REMARKS/ADDITIONAL INFORMATION
3/16/18	1112	GW		X	GWA-50R	2	X	X	X	X	X	1	
3/16/18	1300	GW		X	GWA-50	2	X	X	X	X	X	2	
3/16/18	1310	GW		X	GWA-1	2	X	X	X	X	X	3	
3/16/18	1335	GW		X	GWA-2R	2	X	X	X	X	X	4	
3/16/18	–	GW		X	DUP-1	2	X	X	X	X	X	5	

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

PRESERVATION
- 1 - HCl, ≤6°C
- 2 - H_2SO_4, ≤6°C
- 3 - HNO_3
- 4 - NaOH, ≤6°C
- 5 - NaOH/ZnAc, ≤6°C
- 6 - $Na_2S_2O_3$, ≤6°C
- 7 - ≤6°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

SAMPLED BY AND TITLE: Kuno Shepard / Robert Mull, Bowen Shaler — DATE/TIME: 3/16/18 @1420
RECEIVED BY: — DATE/TIME:
RECEIVED BY LAB: Charles Hunter — DATE/TIME: 3/16/18 1635
pH checked: Yes No NA — Ice: Yes No NA — Temperature: Min: 1.4 Max:

RELINQUISHED BY: Kurt E. Hall — DATE/TIME: 3/16/18 1635
RELINQUISHED BY: — DATE/TIME:

SAMPLE SHIPPED VIA: UPS FED-EX USPS COURIER CLIENT OTHER
Custody Seal: Intact Broken Not Present N/A — # of Coolers — Cooler ID:

FOR LAB USE ONLY
LAB #:
Entered into LIMS:

WO#: 262978
262978

Pace Analytical

Sample Condition Upon Receipt

WO# : 262978

PM: BM Due Date: 03/23/18

CLIENT: GAPower-CCR

Client Name: Georgia Power

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Commercial ☐ Pace Other _____

Tracking #: _____

Optional
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: THR082 Type of Ice: (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature: 1.4°C Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: 3/16/18 CH

Temp should be above freezing to 6°C

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix: GW/W	☑Yes ☐No ☐N/A	12.
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☑No	Initial when completed: _____ Lot # of added preservative: _____
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	15.
Trip Blank Present:	☐Yes ☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☑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)

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

May 16, 2018

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

RE: Project: Plant Bowen cells 1+2
Pace Project No.: 263022

Dear Joju Abraham:
Enclosed are the analytical results for sample(s) received by the laboratory on March 20, 2018. 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.

REV04052018_report revised per consultant request to provide Carbonate and Bicarbonate Alkalinity data.

REV05082018_report revised to correct MDL / J-flag settings.

REV05162018_report revised to set reporting limits in accordance with project scope.

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: Maria Padilla, Georgia Power
Greg Wrenn, Wood PLC

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

CERTIFICATIONS

Project: Plant Bowen cells 1+2
Pace Project No.: 263022

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
Texas Certification #: T104704397-08-TX
Virginia Certification #: 460204

Asheville Certification IDs

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE SUMMARY

Project: Plant Bowen cells 1+2
Pace Project No.: 263022

Lab ID	Sample ID	Matrix	Date Collected	Date Received
263022001	**GWA-2**	Water	03/19/18 12:16	03/20/18 11:35
263022002	**GWA-3**	Water	03/19/18 14:28	03/20/18 11:35
263022003	**GWC-5**	Water	03/19/18 11:45	03/20/18 11:35
263022004	**GWC-6**	Water	03/19/18 15:45	03/20/18 11:35
263022005	**FBL031918**	Water	03/19/18 16:14	03/20/18 11:35
263022006	**EQBL031918**	Water	03/19/18 16:18	03/20/18 11:35

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE ANALYTE COUNT

Project: Plant Bowen cells 1+2
Pace Project No.: 263022

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
263022001	**GWA-2**	EPA 6020B	CSW	20	PASI-GA
		EPA 7470A	MTC	1	PASI-GA
		SM 2320B	JAD	3	PASI-GA
		SM 2540C	MJP	1	PASI-A
		EPA 300.0	RLC	3	PASI-GA
263022002	**GWA-3**	EPA 6020B	CSW	20	PASI-GA
		EPA 7470A	MTC	1	PASI-GA
		SM 2320B	JAD	3	PASI-GA
		SM 2540C	MJP	1	PASI-A
		EPA 300.0	RLC	3	PASI-GA
263022003	**GWC-5**	EPA 6020B	CSW	17	PASI-GA
		EPA 7470A	MTC	1	PASI-GA
		SM 2540C	MJP	1	PASI-A
		EPA 300.0	RLC	3	PASI-GA
263022004	**GWC-6**	EPA 6020B	CSW	17	PASI-GA
		EPA 7470A	MTC	1	PASI-GA
		SM 2540C	MJP	1	PASI-A
		EPA 300.0	RLC	3	PASI-GA
263022005	**FBL031918**	EPA 6020B	CSW	20	PASI-GA
		EPA 7470A	MTC	1	PASI-GA
		SM 2320B	JAD	3	PASI-GA
		SM 2540C	MJP	1	PASI-A
		EPA 300.0	RLC	3	PASI-GA
263022006	**EQBL031918**	EPA 6020B	CSW	20	PASI-GA
		EPA 7470A	MTC	1	PASI-GA
		SM 2320B	JAD	3	PASI-GA
		SM 2540C	MJP	1	PASI-A
		EPA 300.0	RLC	3	PASI-GA

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells 1+2
Pace Project No.: 263022

Sample: GWA-2 **Lab ID: 263022001** Collected: 03/19/18 12:16 Received: 03/20/18 11:35 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								
Antimony	ND	mg/L	0.0030	0.00078	1	03/22/18 11:15	03/27/18 16:08	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	03/22/18 11:15	03/27/18 16:08	7440-38-2	
Barium	**0.037**	mg/L	0.010	0.00078	1	03/22/18 11:15	03/27/18 16:08	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	03/22/18 11:15	03/27/18 16:08	7440-41-7	
Boron	**0.013J**	mg/L	0.040	0.0039	1	03/22/18 11:15	03/27/18 16:08	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	03/22/18 11:15	03/27/18 16:08	7440-43-9	
Calcium	**63.0**	mg/L	25.0	0.69	50	03/22/18 11:15	03/27/18 16:13	7440-70-2	M6
Chromium	**0.0031J**	mg/L	0.010	0.0016	1	03/22/18 11:15	03/27/18 16:08	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	03/22/18 11:15	03/27/18 16:08	7440-48-4	
Copper	**0.0025J**	mg/L	0.025	0.0013	1	03/22/18 11:15	03/27/18 16:08	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	03/22/18 11:15	03/27/18 16:08	7439-92-1	
Magnesium	**17.8**	mg/L	2.5	0.31	50	03/22/18 11:15	03/27/18 16:13	7439-95-4	M1
Nickel	ND	mg/L	0.010	0.00095	1	03/22/18 11:15	03/27/18 16:08	7440-02-0	
Potassium	**1.0**	mg/L	0.10	0.035	1	03/22/18 11:15	03/27/18 16:08	7440-09-7	
Selenium	**0.0016J**	mg/L	0.010	0.0014	1	03/22/18 11:15	03/27/18 16:08	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	03/22/18 11:15	03/27/18 16:08	7440-22-4	
Sodium	**2.0**	mg/L	0.10	0.015	1	03/22/18 11:15	03/27/18 16:08	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00014	1	03/22/18 11:15	03/27/18 16:08	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	03/22/18 11:15	03/27/18 16:08	7440-62-2	
Zinc	ND	mg/L	0.010	0.0021	1	03/22/18 11:15	03/27/18 16:08	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	03/23/18 11:45	03/23/18 16:50	7439-97-6	
2320B Alkalinity Low Level	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**56.5**	mg/L	1.0	1.0	1		03/26/18 15:42		
Alkalinity,Bicarbonate (CaCO3)	**56.5**	mg/L	1.0	1.0	1		03/26/18 15:42		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	1.0	1.0	1		03/26/18 15:42		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**295**	mg/L	25.0	25.0	1		03/23/18 09:27		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**1.9**	mg/L	0.25	0.024	1		03/23/18 17:23	16887-00-6	
Fluoride	**1.1**	mg/L	0.30	0.029	1		03/23/18 17:23	16984-48-8	
Sulfate	**147**	mg/L	10.0	0.17	10		03/27/18 08:04	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells 1+2
Pace Project No.: 263022

Sample: GWA-3 **Lab ID: 263022002** Collected: 03/19/18 14:28 Received: 03/20/18 11:35 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								
Antimony	**0.0019J**	mg/L	0.0030	0.00078	1	03/22/18 11:15	03/27/18 16:59	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	03/22/18 11:15	03/27/18 16:59	7440-38-2	
Barium	**0.0047J**	mg/L	0.010	0.00078	1	03/22/18 11:15	03/27/18 16:59	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	03/22/18 11:15	03/27/18 16:59	7440-41-7	
Boron	**0.0057J**	mg/L	0.040	0.0039	1	03/22/18 11:15	03/27/18 16:59	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	03/22/18 11:15	03/27/18 16:59	7440-43-9	
Calcium	**1.2**	mg/L	0.50	0.014	1	03/22/18 11:15	03/27/18 16:59	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	03/22/18 11:15	03/27/18 16:59	7440-47-3	
Cobalt	**0.00059J**	mg/L	0.010	0.00052	1	03/22/18 11:15	03/27/18 16:59	7440-48-4	
Copper	**0.033**	mg/L	0.025	0.0013	1	03/22/18 11:15	03/27/18 16:59	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	03/22/18 11:15	03/27/18 16:59	7439-92-1	
Magnesium	**0.35**	mg/L	0.050	0.0062	1	03/22/18 11:15	03/27/18 16:59	7439-95-4	
Nickel	**0.015**	mg/L	0.010	0.00095	1	03/22/18 11:15	03/27/18 16:59	7440-02-0	
Potassium	**0.26**	mg/L	0.10	0.035	1	03/22/18 11:15	03/27/18 16:59	7440-09-7	
Selenium	ND	mg/L	0.010	0.0014	1	03/22/18 11:15	03/27/18 16:59	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	03/22/18 11:15	03/27/18 16:59	7440-22-4	
Sodium	**1.7**	mg/L	0.10	0.015	1	03/22/18 11:15	03/27/18 16:59	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00014	1	03/22/18 11:15	03/27/18 16:59	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	03/22/18 11:15	03/27/18 16:59	7440-62-2	
Zinc	**0.040**	mg/L	0.010	0.0021	1	03/22/18 11:15	03/27/18 16:59	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	03/23/18 11:45	03/23/18 16:52	7439-97-6	
2320B Alkalinity Low Level	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**3.5**	mg/L	1.0	1.0	1		03/26/18 15:46		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	1.0	1.0	1		03/26/18 15:46		
Alkalinity, Total as CaCO3	**3.5**	mg/L	1.0	1.0	1		03/26/18 15:46		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		03/23/18 09:27		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**1.5**	mg/L	0.25	0.024	1		03/23/18 17:45	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		03/23/18 17:45	16984-48-8	
Sulfate	**0.49J**	mg/L	1.0	0.017	1		03/23/18 17:45	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells 1+2
Pace Project No.: 263022

Sample: GWC-5 **Lab ID: 263022003** Collected: 03/19/18 11:45 Received: 03/20/18 11:35 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								
Antimony	ND	mg/L	0.0030	0.00078	1	03/22/18 11:15	03/27/18 17:10	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	03/22/18 11:15	03/27/18 17:10	7440-38-2	
Barium	**0.013**	mg/L	0.010	0.00078	1	03/22/18 11:15	03/27/18 17:10	7440-39-3	
Beryllium	**0.00050J**	mg/L	0.0030	0.000050	1	03/22/18 11:15	03/27/18 17:10	7440-41-7	
Boron	**0.0041J**	mg/L	0.040	0.0039	1	03/22/18 11:15	03/27/18 17:10	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	03/22/18 11:15	03/27/18 17:10	7440-43-9	
Calcium	**3.3**	mg/L	0.50	0.014	1	03/22/18 11:15	03/27/18 17:10	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	03/22/18 11:15	03/27/18 17:10	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	03/22/18 11:15	03/27/18 17:10	7440-48-4	
Copper	**0.021J**	mg/L	0.025	0.0013	1	03/22/18 11:15	03/27/18 17:10	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	03/22/18 11:15	03/27/18 17:10	7439-92-1	
Nickel	**0.0092J**	mg/L	0.010	0.00095	1	03/22/18 11:15	03/27/18 17:10	7440-02-0	
Selenium	ND	mg/L	0.010	0.0014	1	03/22/18 11:15	03/27/18 17:10	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	03/22/18 11:15	03/27/18 17:10	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	03/22/18 11:15	03/27/18 17:10	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	03/22/18 11:15	03/27/18 17:10	7440-62-2	
Zinc	**0.034**	mg/L	0.010	0.0021	1	03/22/18 11:15	03/27/18 17:10	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	03/23/18 11:45	03/23/18 16:55	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		03/23/18 09:27		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**0.82**	mg/L	0.25	0.024	1		03/23/18 18:07	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		03/23/18 18:07	16984-48-8	
Sulfate	**1.3**	mg/L	1.0	0.017	1		03/23/18 18:07	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells 1+2
Pace Project No.: 263022

Sample: GWC-6 **Lab ID: 263022004** Collected: 03/19/18 15:45 Received: 03/20/18 11:35 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								
Antimony	ND	mg/L	0.0030	0.00078	1	03/22/18 11:15	03/27/18 17:22	7440-36-0	
Arsenic	**0.00089J**	mg/L	0.0050	0.00057	1	03/22/18 11:15	03/27/18 17:22	7440-38-2	
Barium	**0.0079J**	mg/L	0.010	0.00078	1	03/22/18 11:15	03/27/18 17:22	7440-39-3	
Beryllium	**0.000066J**	mg/L	0.0030	0.000050	1	03/22/18 11:15	03/27/18 17:22	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	03/22/18 11:15	03/27/18 17:22	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	03/22/18 11:15	03/27/18 17:22	7440-43-9	
Calcium	**14.4J**	mg/L	25.0	0.69	50	03/22/18 11:15	03/27/18 17:28	7440-70-2	D3
Chromium	**0.0035J**	mg/L	0.010	0.0016	1	03/22/18 11:15	03/27/18 17:22	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	03/22/18 11:15	03/27/18 17:22	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	03/22/18 11:15	03/27/18 17:22	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	03/22/18 11:15	03/27/18 17:22	7439-92-1	
Nickel	ND	mg/L	0.010	0.00095	1	03/22/18 11:15	03/27/18 17:22	7440-02-0	
Selenium	ND	mg/L	0.010	0.0014	1	03/22/18 11:15	03/27/18 17:22	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	03/22/18 11:15	03/27/18 17:22	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	03/22/18 11:15	03/27/18 17:22	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	03/22/18 11:15	03/27/18 17:22	7440-62-2	
Zinc	**0.0022J**	mg/L	0.010	0.0021	1	03/22/18 11:15	03/27/18 17:22	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	03/23/18 11:45	03/23/18 16:57	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**70.0**	mg/L	25.0	25.0	1		03/23/18 09:27		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**1.2**	mg/L	0.25	0.024	1		03/23/18 18:29	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		03/23/18 18:29	16984-48-8	
Sulfate	**2.6**	mg/L	1.0	0.017	1		03/23/18 18:29	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells 1+2
Pace Project No.: 263022

Sample: FBL031918 **Lab ID: 263022005** Collected: 03/19/18 16:14 Received: 03/20/18 11:35 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								
Antimony	ND	mg/L	0.0030	0.00078	1	03/22/18 11:15	03/27/18 17:39	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	03/22/18 11:15	03/27/18 17:39	7440-38-2	
Barium	ND	mg/L	0.010	0.00078	1	03/22/18 11:15	03/27/18 17:39	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	03/22/18 11:15	03/27/18 17:39	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	03/22/18 11:15	03/27/18 17:39	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	03/22/18 11:15	03/27/18 17:39	7440-43-9	
Calcium	**0.021J**	mg/L	0.50	0.014	1	03/22/18 11:15	03/27/18 17:39	7440-70-2	B
Chromium	ND	mg/L	0.010	0.0016	1	03/22/18 11:15	03/27/18 17:39	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	03/22/18 11:15	03/27/18 17:39	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	03/22/18 11:15	03/27/18 17:39	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	03/22/18 11:15	03/27/18 17:39	7439-92-1	
Magnesium	ND	mg/L	0.050	0.0062	1	03/22/18 11:15	03/27/18 17:39	7439-95-4	
Nickel	ND	mg/L	0.010	0.00095	1	03/22/18 11:15	03/27/18 17:39	7440-02-0	
Potassium	ND	mg/L	0.10	0.035	1	03/22/18 11:15	03/27/18 17:39	7440-09-7	
Selenium	ND	mg/L	0.010	0.0014	1	03/22/18 11:15	03/27/18 17:39	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	03/22/18 11:15	03/27/18 17:39	7440-22-4	
Sodium	ND	mg/L	0.10	0.015	1	03/22/18 11:15	03/27/18 17:39	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00014	1	03/22/18 11:15	03/27/18 17:39	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	03/22/18 11:15	03/27/18 17:39	7440-62-2	
Zinc	**0.20**	mg/L	0.010	0.0021	1	03/22/18 11:15	03/27/18 17:39	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	03/23/18 11:45	03/23/18 17:24	7439-97-6	
2320B Alkalinity Low Level	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	ND	mg/L	1.0	1.0	1		03/26/18 15:48		
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	1.0	1.0	1		03/26/18 15:48		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	1.0	1.0	1		03/26/18 15:48		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		03/23/18 09:27		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	ND	mg/L	0.25	0.024	1		03/23/18 18:50	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		03/23/18 18:50	16984-48-8	
Sulfate	ND	mg/L	1.0	0.017	1		03/23/18 18:50	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells 1+2
Pace Project No.: 263022

Sample: EQBL031918 **Lab ID: 263022006** Collected: 03/19/18 16:18 Received: 03/20/18 11:35 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								
Antimony	ND	mg/L	0.0030	0.00078	1	03/22/18 11:15	03/27/18 17:45	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	03/22/18 11:15	03/27/18 17:45	7440-38-2	
Barium	ND	mg/L	0.010	0.00078	1	03/22/18 11:15	03/27/18 17:45	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	03/22/18 11:15	03/27/18 17:45	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	03/22/18 11:15	03/27/18 17:45	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	03/22/18 11:15	03/27/18 17:45	7440-43-9	
Calcium	**0.024J**	mg/L	0.50	0.014	1	03/22/18 11:15	03/27/18 17:45	7440-70-2	B
Chromium	ND	mg/L	0.010	0.0016	1	03/22/18 11:15	03/27/18 17:45	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	03/22/18 11:15	03/27/18 17:45	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	03/22/18 11:15	03/27/18 17:45	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	03/22/18 11:15	03/27/18 17:45	7439-92-1	
Magnesium	ND	mg/L	0.050	0.0062	1	03/22/18 11:15	03/27/18 17:45	7439-95-4	
Nickel	ND	mg/L	0.010	0.00095	1	03/22/18 11:15	03/27/18 17:45	7440-02-0	
Potassium	ND	mg/L	0.10	0.035	1	03/22/18 11:15	03/27/18 17:45	7440-09-7	
Selenium	ND	mg/L	0.010	0.0014	1	03/22/18 11:15	03/27/18 17:45	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	03/22/18 11:15	03/27/18 17:45	7440-22-4	
Sodium	ND	mg/L	0.10	0.015	1	03/22/18 11:15	03/27/18 17:45	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00014	1	03/22/18 11:15	03/27/18 17:45	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	03/22/18 11:15	03/27/18 17:45	7440-62-2	
Zinc	ND	mg/L	0.010	0.0021	1	03/22/18 11:15	03/27/18 17:45	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	03/23/18 11:45	03/23/18 17:26	7439-97-6	
2320B Alkalinity Low Level	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**1.5**	mg/L	1.0	1.0	1		03/26/18 15:51		
Alkalinity,Bicarbonate (CaCO3)	**1.5**	mg/L	1.0	1.0	1		03/26/18 15:51		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	1.0	1.0	1		03/26/18 15:51		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		03/23/18 09:27		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	ND	mg/L	0.25	0.024	1		03/23/18 19:12	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		03/23/18 19:12	16984-48-8	
Sulfate	ND	mg/L	1.0	0.017	1		03/23/18 19:12	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells 1+2
Pace Project No.: 263022

QC Batch: 2969 Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
Associated Lab Samples: 263022001, 263022002, 263022003, 263022004, 263022005, 263022006

METHOD BLANK: 15505 Matrix: Water
Associated Lab Samples: 263022001, 263022002, 263022003, 263022004, 263022005, 263022006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00050	0.000036	03/23/18 16:36	

LABORATORY CONTROL SAMPLE: 15506

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	.0025	0.0025	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 16058 16059

Parameter	Units	263170002 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	.0025	.0025	0.0026	0.0025	103	100	75-125	3	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
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(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells 1+2
Pace Project No.: 263022

QC Batch: 2943 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020B MET
Associated Lab Samples: 263022001, 263022002, 263022003, 263022004, 263022005, 263022006

METHOD BLANK: 15366 Matrix: Water
Associated Lab Samples: 263022001, 263022002, 263022003, 263022004, 263022005, 263022006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	03/27/18 15:56	
Arsenic	mg/L	ND	0.0050	0.00057	03/27/18 15:56	
Barium	mg/L	ND	0.010	0.00078	03/27/18 15:56	
Beryllium	mg/L	ND	0.0030	0.000050	03/27/18 15:56	
Boron	mg/L	ND	0.040	0.0039	03/27/18 15:56	
Cadmium	mg/L	ND	0.0010	0.000093	03/27/18 15:56	
Calcium	mg/L	0.023J	0.50	0.014	03/27/18 15:56	
Chromium	mg/L	ND	0.010	0.0016	03/27/18 15:56	
Cobalt	mg/L	ND	0.010	0.00052	03/27/18 15:56	
Copper	mg/L	ND	0.025	0.0013	03/27/18 15:56	
Lead	mg/L	ND	0.0050	0.00027	03/27/18 15:56	
Magnesium	mg/L	ND	0.050	0.0062	03/27/18 15:56	
Nickel	mg/L	ND	0.010	0.00095	03/27/18 15:56	
Potassium	mg/L	ND	0.10	0.035	03/27/18 15:56	
Selenium	mg/L	ND	0.010	0.0014	03/27/18 15:56	
Silver	mg/L	ND	0.010	0.00095	03/27/18 15:56	
Sodium	mg/L	ND	0.10	0.015	03/27/18 15:56	
Thallium	mg/L	ND	0.0010	0.00014	03/27/18 15:56	
Vanadium	mg/L	ND	0.010	0.0019	03/27/18 15:56	
Zinc	mg/L	ND	0.010	0.0021	03/27/18 15:56	

LABORATORY CONTROL SAMPLE: 15367

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	.1	0.11	105	80-120	
Arsenic	mg/L	.1	0.098	98	80-120	
Barium	mg/L	.1	0.10	101	80-120	
Beryllium	mg/L	.1	0.10	101	80-120	
Boron	mg/L	1	1.1	107	80-120	
Cadmium	mg/L	.1	0.10	101	80-120	
Calcium	mg/L	1	1.1	107	80-120	
Chromium	mg/L	.1	0.10	102	80-120	
Cobalt	mg/L	.1	0.10	100	80-120	
Copper	mg/L	.1	0.10	101	80-120	
Lead	mg/L	.1	0.10	102	80-120	
Magnesium	mg/L	1	1.0	105	80-120	
Nickel	mg/L	.1	0.10	102	80-120	
Potassium	mg/L	1	1.0	100	80-120	
Selenium	mg/L	.1	0.098	98	80-120	
Silver	mg/L	.1	0.093	93	80-120	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells 1+2
Pace Project No.: 263022

LABORATORY CONTROL SAMPLE: 15367

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sodium	mg/L	1	1.0	103	80-120	
Thallium	mg/L	.1	0.10	102	80-120	
Vanadium	mg/L	.1	0.10	104	80-120	
Zinc	mg/L	.1	0.10	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 15391 15392

Parameter	Units	263022001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	.1	.1	0.11	0.11	108	107	75-125	1	20	
Arsenic	mg/L	ND	.1	.1	0.10	0.10	104	102	75-125	1	20	
Barium	mg/L	0.037	.1	.1	0.14	0.13	103	98	75-125	4	20	
Beryllium	mg/L	ND	.1	.1	0.10	0.097	102	97	75-125	5	20	
Boron	mg/L	0.013J	1	1	1.1	1.0	105	100	75-125	5	20	
Cadmium	mg/L	ND	.1	.1	0.10	0.10	104	103	75-125	2	20	
Calcium	mg/L	63.0	1	1	63.7	62.1	68	-93	75-125	3	20	M6
Chromium	mg/L	0.0031J	.1	.1	0.11	0.11	109	102	75-125	6	20	
Cobalt	mg/L	ND	.1	.1	0.11	0.10	107	103	75-125	4	20	
Copper	mg/L	0.0025J	.1	.1	0.10	0.10	100	97	75-125	3	20	
Lead	mg/L	ND	.1	.1	0.099	0.099	99	99	75-125	1	20	
Magnesium	mg/L	17.8	1	1	19.5	18.3	172	57	75-125	6	20	M6
Nickel	mg/L	ND	.1	.1	0.11	0.10	106	103	75-125	3	20	
Potassium	mg/L	1.0	1	1	2.1	2.0	105	94	75-125	5	20	
Selenium	mg/L	0.0016J	.1	.1	0.11	0.10	105	102	75-125	3	20	
Silver	mg/L	ND	.1	.1	0.090	0.088	90	88	75-125	2	20	
Sodium	mg/L	2.0	1	1	3.0	2.8	99	84	75-125	5	20	
Thallium	mg/L	ND	.1	.1	0.10	0.10	102	101	75-125	1	20	
Vanadium	mg/L	ND	.1	.1	0.11	0.11	111	107	75-125	3	20	
Zinc	mg/L	ND	.1	.1	0.11	0.10	107	100	75-125	7	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells 1+2
Pace Project No.: 263022

QC Batch: 3193 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity, Low Level
Associated Lab Samples: 263022001, 263022002, 263022005, 263022006

METHOD BLANK: 16458 Matrix: Water
Associated Lab Samples: 263022001, 263022002, 263022005, 263022006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	1.0	1.0	03/26/18 15:15	

LABORATORY CONTROL SAMPLE: 16459

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.0	100	85-115	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells 1+2
Pace Project No.: 263022

QC Batch: 403195 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 263022001, 263022002, 263022003, 263022004, 263022005, 263022006

METHOD BLANK: 2236689 Matrix: Water
Associated Lab Samples: 263022001, 263022002, 263022003, 263022004, 263022005, 263022006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	03/23/18 09:26	

LABORATORY CONTROL SAMPLE: 2236690

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	240	96	90-110	

SAMPLE DUPLICATE: 2236691

Parameter	Units	262990012 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	418	390	7	5	D6

SAMPLE DUPLICATE: 2236692

Parameter	Units	263022002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	ND	ND		5	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells 1+2
Pace Project No.: 263022

QC Batch: 3107 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 263022001, 263022002, 263022003, 263022004, 263022005, 263022006

METHOD BLANK: 16045 Matrix: Water
Associated Lab Samples: 263022001, 263022002, 263022003, 263022004, 263022005, 263022006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	0.024	03/23/18 14:51	
Fluoride	mg/L	ND	0.30	0.029	03/23/18 14:51	
Sulfate	mg/L	ND	1.0	0.017	03/23/18 14:51	

LABORATORY CONTROL SAMPLE: 16046

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	10	10.1	101	90-110	
Fluoride	mg/L	10	10.2	102	90-110	
Sulfate	mg/L	10	10.3	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 16047 16048

Parameter	Units	263170002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	7.8	10	10	17.0	17.0	92	92	90-110	0	15	
Fluoride	mg/L	0.30	10	10	10.6	10.6	103	103	90-110	0	15	
Sulfate	mg/L	336	10	10	217	217	-1190	-1190	90-110	0	15	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

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALIFIERS

Project: Plant Bowen cells 1+2
Pace Project No.: 263022

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.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-A	Pace Analytical Services - Asheville
PASI-GA	Pace Analytical Services - Atlanta, GA

ANALYTE QUALIFIERS

B	Analyte was detected in the associated method blank.
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.

Pace Analytical Services, LLC
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Bowen cells 1+2
Pace Project No.: 263022

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
263022001	**GWA-2**	EPA 3005A	2943	EPA 6020B	3270
263022002	**GWA-3**	EPA 3005A	2943	EPA 6020B	3270
263022003	**GWC-5**	EPA 3005A	2943	EPA 6020B	3270
263022004	**GWC-6**	EPA 3005A	2943	EPA 6020B	3270
263022005	**FBL031918**	EPA 3005A	2943	EPA 6020B	3270
263022006	**EQBL031918**	EPA 3005A	2943	EPA 6020B	3270
263022001	**GWA-2**	EPA 7470A	2969	EPA 7470A	3116
263022002	**GWA-3**	EPA 7470A	2969	EPA 7470A	3116
263022003	**GWC-5**	EPA 7470A	2969	EPA 7470A	3116
263022004	**GWC-6**	EPA 7470A	2969	EPA 7470A	3116
263022005	**FBL031918**	EPA 7470A	2969	EPA 7470A	3116
263022006	**EQBL031918**	EPA 7470A	2969	EPA 7470A	3116
263022001	**GWA-2**	SM 2320B	3193		
263022002	**GWA-3**	SM 2320B	3193		
263022005	**FBL031918**	SM 2320B	3193		
263022006	**EQBL031918**	SM 2320B	3193		
263022001	**GWA-2**	SM 2540C	403195		
263022002	**GWA-3**	SM 2540C	403195		
263022003	**GWC-5**	SM 2540C	403195		
263022004	**GWC-6**	SM 2540C	403195		
263022005	**FBL031918**	SM 2540C	403195		
263022006	**EQBL031918**	SM 2540C	403195		
263022001	**GWA-2**	EPA 300.0	3107		
263022002	**GWA-3**	EPA 300.0	3107		
263022003	**GWC-5**	EPA 300.0	3107		
263022004	**GWC-6**	EPA 300.0	3107		
263022005	**FBL031918**	EPA 300.0	3107		
263022006	**EQBL031918**	EPA 300.0	3107		

CHAIN OF CUSTODY RECORD

Pace Analytical
www.pacelabs.com

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

CLIENT NAME: Southern Company Services

CLIENT ADDRESS/PHONE NUMBER/FAX NUMBER:
241 Ralph McGill Blvd SE Bin 85
Atlanta, GA 30308

REPORT TO: Jay Alexander | CC: Marcia Padilla

REQUESTED COMPLETION DATE: | PO #: GR10684198

PROJECT NAME/STATE: Plant Branch Cell 182 CCR & State GW

PROJECT #:

ANALYSIS REQUESTED

Collection DATE	Collection TIME	MATRIX CODE*	COMP	GRAB	SAMPLE IDENTIFICATION	# of CONTAINERS	CONTAINER TYPE	PRESERVATION	Metals (Ag, Be, Cd, Co, Cr, Li, Mo, Se, Tl) EPA 6020	Boron, Silver EPA 6020	Calcium, Chloride, Fluoride, Sulfate, TDS SM2540C	Mercury EPA 7470A	Radium 226, Radium 228 EPA 9315/9320	Gross Alpha, Gross Beta EPA 900.0	Nitrate-Nitrite as N EPA 353.2	Total Organic Carbon SM5310C	Alkalinity as CaCO3 SM2320B
3/19/18	1216	GW		X	GWA-2	2	P	3	X	X	X	X	X				
3/19/18	1428	GW		X	GWA-3	2	P	3	X	X	X	X	X				
3/19/18	1145	GW		X	GWC-5	2	P	3	X	X		X					
3/19/18	1545	GW		X	GWC-6	2	P	3	X	X		X					
3/19/18	1614	W		X	EBLO319R	2	P	3	X	X	X	X	X				
3/19/18	1618	W		X	EQBLO319R	2	P	3	X	X	X	X	X				

LAB ID NUMBER

CONTAINER TYPE	PRESERVATION
P - PLASTIC	1 - HCl, ≤6°C
A - AMBER GLASS	2 - H_2SO_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 - $Na_2S_2O_3$, ≤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

REMARKS/ADDITIONAL INFORMATION

WO# : 263022

263022

SAMPLED BY AND TITLE: [illegible]/Andrew Fisher | DATE/TIME: 3/19/18 @ 1632

RELINQUISHED BY: Cindy Marchi | DATE/TIME: 3/20 0947

RECEIVED BY: Mike Nguyen | DATE/TIME: 3/20/18 0947

RELINQUISHED BY: | DATE/TIME:

RECEIVED BY/LAB: [illegible] | DATE/TIME: 03/20/18 1135

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

pH Checked: Yes No NA | Ice: Yes No NA | Temperature: Min: 0.5 Max:

Custody Seal: Intact Broken Not Present N/A | Not Coolers | Cooler ID:

FOR LAB USE ONLY
LAB #:
Entered into LIMS:
Tracking #:

Sample Condition Upon Receipt

Pace Analytical

Client Name: GA Power

Project #

WO# : 263022

PM: BH Due Date: 03/27/18

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 0.5

Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: 3/20/18 MA

Temp should be above freezing to 6°C

Comments:

Chain of Custody Present:	☑Yes	☐No	☐N/A	1.
Chain of Custody Filled Out:	☑Yes	☐No	☐N/A	2.
Chain of Custody Relinquished:	☑Yes	☐No	☐N/A	3.
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☑Yes	☐No	☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes	☑No	☐N/A	6.
Rush Turn Around Time Requested:	☐Yes	☑No	☐N/A	7.
Sufficient Volume:	☑Yes	☐No	☐N/A	8.
Correct Containers Used:	☑Yes	☐No	☐N/A	9.
-Pace Containers Used:	☑Yes	☐No	☐N/A	
Containers Intact:	☑Yes	☐No	☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☑N/A	11.
Sample Labels match COC:	☑Yes	☐No	☐N/A	12.
-Includes date/time/ID/Analysis Matrix: GW				
All containers needing preservation have been checked.	☑Yes	☐No	☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes	☐No	☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes	☑No		Initial when completed / Lot # of added preservative
Samples checked for dechlorination:	☐Yes	☐No	☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☑N/A	15.
Trip Blank Present:	☐Yes	☐No	☑N/A	16.
Trip Blank Custody Seals Present	☐Yes	☐No	☑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).

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

May 16, 2018

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

RE: Project: Plant Bowen cells 1+2
Pace Project No.: 263231

Dear Joju Abraham:
Enclosed are the analytical results for sample(s) received by the laboratory on March 23, 2018. 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.

REV05082018_report revised to correct MDL / J-flag settings.

REV05162018_report revised to set reporting limits in accordance with project scope.

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: Maria Padilla, Georgia Power
Greg Wrenn, Wood PLC

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

CERTIFICATIONS

Project: Plant Bowen cells 1+2
Pace Project No.: 263231

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
Texas Certification #: T104704397-08-TX
Virginia Certification #: 460204

Asheville Certification IDs

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE SUMMARY

Project: Plant Bowen cells 1+2
Pace Project No.: 263231

Lab ID	Sample ID	Matrix	Date Collected	Date Received
263231001	**GWC-6RZ**	Water	03/20/18 10:13	03/23/18 16:00
263231002	**GWC-7Z**	Water	03/20/18 11:30	03/23/18 16:00
263231003	**GWC-9**	Water	03/20/18 13:20	03/23/18 16:00
263231004	**GWC-10**	Water	03/20/18 15:23	03/23/18 16:00
263231005	**GWC-8Z**	Water	03/20/18 14:50	03/23/18 16:00
263231006	**Dup-2**	Water	03/20/18 00:00	03/23/18 16:00
263231007	**FBL032018**	Water	03/20/18 15:28	03/23/18 16:00
263231008	**EQBL032018**	Water	03/20/18 15:32	03/23/18 16:00

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE ANALYTE COUNT

Project: Plant Bowen cells 1+2
Pace Project No.: 263231

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
263231001	**GWC-6RZ**	EPA 6020B	CSW	17	PASI-GA
		EPA 7470A	AAP	1	PASI-GA
		SM 2540C	EJJ	1	PASI-A
		EPA 300.0	RLC	3	PASI-GA
263231002	**GWC-7Z**	EPA 6020B	CSW	17	PASI-GA
		EPA 7470A	AAP	1	PASI-GA
		SM 2540C	EJJ	1	PASI-A
		EPA 300.0	RLC	3	PASI-GA
263231003	**GWC-9**	EPA 6020B	CSW	17	PASI-GA
		EPA 7470A	AAP	1	PASI-GA
		SM 2540C	EJJ	1	PASI-A
		EPA 300.0	RLC	3	PASI-GA
263231004	**GWC-10**	EPA 6020B	CSW	17	PASI-GA
		EPA 7470A	AAP	1	PASI-GA
		SM 2540C	EJJ	1	PASI-A
		EPA 300.0	RLC	3	PASI-GA
263231005	**GWC-8Z**	EPA 6020B	CSW	17	PASI-GA
		EPA 7470A	AAP	1	PASI-GA
		SM 2540C	EJJ	1	PASI-A
		EPA 300.0	RLC	3	PASI-GA
263231006	**Dup-2**	EPA 6020B	CSW	17	PASI-GA
		EPA 7470A	AAP	1	PASI-GA
		SM 2540C	EJJ	1	PASI-A
		EPA 300.0	RLC	3	PASI-GA
263231007	**FBL032018**	EPA 6020B	CSW	20	PASI-GA
		EPA 7470A	AAP	1	PASI-GA
		SM 2320B	JAD	3	PASI-GA
		SM 2540C	EJJ	1	PASI-A
		EPA 300.0	RLC	3	PASI-GA
263231008	**EQBL032018**	EPA 6020B	CSW	20	PASI-GA
		EPA 7470A	AAP	1	PASI-GA
		SM 2320B	JAD	3	PASI-GA
		SM 2540C	EJJ	1	PASI-A
		EPA 300.0	RLC	3	PASI-GA

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells 1+2
Pace Project No.: 263231

Sample: GWC-6RZ **Lab ID: 263231001** Collected: 03/20/18 10:13 Received: 03/23/18 16:00 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	03/28/18 11:30	03/29/18 15:26	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	03/28/18 11:30	03/29/18 15:26	7440-38-2	
Barium	**0.0088J**	mg/L	0.010	0.00078	1	03/28/18 11:30	03/29/18 15:26	7440-39-3	
Beryllium	**0.000068J**	mg/L	0.0030	0.000050	1	03/28/18 11:30	03/29/18 15:26	7440-41-7	
Boron	**0.0073J**	mg/L	0.040	0.0039	1	03/28/18 11:30	03/29/18 15:26	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	03/28/18 11:30	03/29/18 15:26	7440-43-9	
Calcium	**11.5J**	mg/L	25.0	0.69	50	03/28/18 11:30	03/29/18 15:31	7440-70-2	D3
Chromium	**0.0017J**	mg/L	0.010	0.0016	1	03/28/18 11:30	03/29/18 15:26	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	03/28/18 11:30	03/29/18 15:26	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	03/28/18 11:30	03/29/18 15:26	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	03/28/18 11:30	03/29/18 15:26	7439-92-1	
Nickel	ND	mg/L	0.010	0.00095	1	03/28/18 11:30	03/29/18 15:26	7440-02-0	
Selenium	ND	mg/L	0.010	0.0014	1	03/28/18 11:30	03/29/18 15:26	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	03/28/18 11:30	03/29/18 15:26	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	03/28/18 11:30	03/29/18 15:26	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	03/28/18 11:30	03/29/18 15:26	7440-62-2	
Zinc	ND	mg/L	0.010	0.0021	1	03/28/18 11:30	03/29/18 15:26	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	03/27/18 12:20	03/28/18 09:54	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**78.0**	mg/L	25.0	25.0	1		03/27/18 20:05		D6
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**1.7**	mg/L	0.25	0.024	1		03/28/18 16:02	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		03/28/18 16:02	16984-48-8	
Sulfate	**2.5**	mg/L	1.0	0.017	1		03/28/18 16:02	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells 1+2
Pace Project No.: 263231

Sample: GWC-7Z **Lab ID: 263231002** Collected: 03/20/18 11:30 Received: 03/23/18 16:00 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	03/28/18 11:30	03/29/18 15:37	7440-36-0	
Arsenic	**0.0024J**	mg/L	0.0050	0.00057	1	03/28/18 11:30	03/29/18 15:37	7440-38-2	
Barium	**0.024**	mg/L	0.010	0.00078	1	03/28/18 11:30	03/29/18 15:37	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	03/28/18 11:30	03/29/18 15:37	7440-41-7	
Boron	**0.0064J**	mg/L	0.040	0.0039	1	03/28/18 11:30	03/29/18 15:37	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	03/28/18 11:30	03/29/18 15:37	7440-43-9	
Calcium	**22.9J**	mg/L	25.0	0.69	50	03/28/18 11:30	03/29/18 15:43	7440-70-2	D3,M6
Chromium	ND	mg/L	0.010	0.0016	1	03/28/18 11:30	03/29/18 15:37	7440-47-3	
Cobalt	**0.00076J**	mg/L	0.010	0.00052	1	03/28/18 11:30	03/29/18 15:37	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	03/28/18 11:30	03/29/18 15:37	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	03/28/18 11:30	03/29/18 15:37	7439-92-1	
Nickel	ND	mg/L	0.010	0.00095	1	03/28/18 11:30	03/29/18 15:37	7440-02-0	
Selenium	ND	mg/L	0.010	0.0014	1	03/28/18 11:30	03/29/18 15:37	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	03/28/18 11:30	03/29/18 15:37	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	03/28/18 11:30	03/29/18 15:37	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	03/28/18 11:30	03/29/18 15:37	7440-62-2	
Zinc	**0.0023J**	mg/L	0.010	0.0021	1	03/28/18 11:30	03/29/18 15:37	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	03/27/18 12:20	03/28/18 10:04	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**136**	mg/L	25.0	25.0	1		03/27/18 20:05		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**1.5**	mg/L	0.25	0.024	1		03/28/18 18:50	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		03/28/18 18:50	16984-48-8	
Sulfate	**0.50J**	mg/L	1.0	0.017	1		03/28/18 18:50	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells 1+2
Pace Project No.: 263231

Sample: GWC-9 **Lab ID: 263231003** Collected: 03/20/18 13:20 Received: 03/23/18 16:00 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	**0.0010J**	mg/L	0.0030	0.00078	1	03/28/18 11:30	03/29/18 16:33	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	03/28/18 11:30	03/29/18 16:33	7440-38-2	
Barium	**0.039**	mg/L	0.010	0.00078	1	03/28/18 11:30	03/29/18 16:33	7440-39-3	
Beryllium	**0.00022J**	mg/L	0.0030	0.000050	1	03/28/18 11:30	03/29/18 16:33	7440-41-7	
Boron	**0.0096J**	mg/L	0.040	0.0039	1	03/28/18 11:30	03/29/18 16:33	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	03/28/18 11:30	03/29/18 16:33	7440-43-9	
Calcium	**1.4**	mg/L	0.50	0.014	1	03/28/18 11:30	03/29/18 16:33	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	03/28/18 11:30	03/29/18 16:33	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	03/28/18 11:30	03/29/18 16:33	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	03/28/18 11:30	03/29/18 16:33	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	03/28/18 11:30	03/29/18 16:33	7439-92-1	
Nickel	**0.00097J**	mg/L	0.010	0.00095	1	03/28/18 11:30	03/29/18 16:33	7440-02-0	
Selenium	ND	mg/L	0.010	0.0014	1	03/28/18 11:30	03/29/18 16:33	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	03/28/18 11:30	03/29/18 16:33	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	03/28/18 11:30	03/29/18 16:33	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	03/28/18 11:30	03/29/18 16:33	7440-62-2	
Zinc	**0.0056J**	mg/L	0.010	0.0021	1	03/28/18 11:30	03/29/18 16:33	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	03/27/18 12:20	03/28/18 10:06	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**49.0**	mg/L	25.0	25.0	1		03/27/18 20:05		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**2.4**	mg/L	0.25	0.024	1		03/28/18 19:11	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		03/28/18 19:11	16984-48-8	
Sulfate	**1.2**	mg/L	1.0	0.017	1		03/28/18 19:11	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells 1+2
Pace Project No.: 263231

Sample: GWC-10 **Lab ID: 263231004** Collected: 03/20/18 15:23 Received: 03/23/18 16:00 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	03/28/18 11:30	03/29/18 16:44	7440-36-0	
Arsenic	**0.00079J**	mg/L	0.0050	0.00057	1	03/28/18 11:30	03/29/18 16:44	7440-38-2	
Barium	**0.021**	mg/L	0.010	0.00078	1	03/28/18 11:30	03/29/18 16:44	7440-39-3	
Beryllium	**0.00019J**	mg/L	0.0030	0.000050	1	03/28/18 11:30	03/29/18 16:44	7440-41-7	
Boron	**0.0040J**	mg/L	0.040	0.0039	1	03/28/18 11:30	03/29/18 16:44	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	03/28/18 11:30	03/29/18 16:44	7440-43-9	
Calcium	**12.0J**	mg/L	25.0	0.69	50	03/28/18 11:30	03/29/18 16:51	7440-70-2	D3
Chromium	ND	mg/L	0.010	0.0016	1	03/28/18 11:30	03/29/18 16:44	7440-47-3	
Cobalt	**0.0021J**	mg/L	0.010	0.00052	1	03/28/18 11:30	03/29/18 16:44	7440-48-4	
Copper	**0.0016J**	mg/L	0.025	0.0013	1	03/28/18 11:30	03/29/18 16:44	7440-50-8	B
Lead	ND	mg/L	0.0050	0.00027	1	03/28/18 11:30	03/29/18 16:44	7439-92-1	
Nickel	**0.0016J**	mg/L	0.010	0.00095	1	03/28/18 11:30	03/29/18 16:44	7440-02-0	
Selenium	ND	mg/L	0.010	0.0014	1	03/28/18 11:30	03/29/18 16:44	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	03/28/18 11:30	03/29/18 16:44	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	03/28/18 11:30	03/29/18 16:44	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	03/28/18 11:30	03/29/18 16:44	7440-62-2	
Zinc	**0.0030J**	mg/L	0.010	0.0021	1	03/28/18 11:30	03/29/18 16:44	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	03/27/18 12:20	03/28/18 10:08	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**93.0**	mg/L	25.0	25.0	1		03/27/18 20:05		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**2.2**	mg/L	0.25	0.024	1		03/28/18 19:32	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		03/28/18 19:32	16984-48-8	
Sulfate	**1.4**	mg/L	1.0	0.017	1		03/28/18 19:32	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells 1+2
Pace Project No.: 263231

Sample: GWC-8Z **Lab ID: 263231005** Collected: 03/20/18 14:50 Received: 03/23/18 16:00 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	03/28/18 11:30	03/29/18 16:57	7440-36-0	
Arsenic	**0.00060J**	mg/L	0.0050	0.00057	1	03/28/18 11:30	03/29/18 16:57	7440-38-2	
Barium	**0.029**	mg/L	0.010	0.00078	1	03/28/18 11:30	03/29/18 16:57	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	03/28/18 11:30	03/29/18 16:57	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	03/28/18 11:30	03/29/18 16:57	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	03/28/18 11:30	03/29/18 16:57	7440-43-9	
Calcium	**20.3J**	mg/L	25.0	0.69	50	03/28/18 11:30	03/29/18 17:03	7440-70-2	D3
Chromium	**0.0017J**	mg/L	0.010	0.0016	1	03/28/18 11:30	03/29/18 16:57	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	03/28/18 11:30	03/29/18 16:57	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	03/28/18 11:30	03/29/18 16:57	7440-50-8	
Lead	**0.00042J**	mg/L	0.0050	0.00027	1	03/28/18 11:30	03/29/18 16:57	7439-92-1	
Nickel	ND	mg/L	0.010	0.00095	1	03/28/18 11:30	03/29/18 16:57	7440-02-0	
Selenium	ND	mg/L	0.010	0.0014	1	03/28/18 11:30	03/29/18 16:57	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	03/28/18 11:30	03/29/18 16:57	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	03/28/18 11:30	03/29/18 16:57	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	03/28/18 11:30	03/29/18 16:57	7440-62-2	
Zinc	**0.0029J**	mg/L	0.010	0.0021	1	03/28/18 11:30	03/29/18 16:57	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	03/27/18 12:20	03/28/18 10:11	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**121**	mg/L	25.0	25.0	1		03/27/18 20:05		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**1.8**	mg/L	0.25	0.024	1		03/28/18 19:52	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		03/28/18 19:52	16984-48-8	
Sulfate	**1.6**	mg/L	1.0	0.017	1		03/28/18 19:52	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells 1+2
Pace Project No.: 263231

Sample: Dup-2 **Lab ID: 263231006** Collected: 03/20/18 00:00 Received: 03/23/18 16:00 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	03/28/18 11:30	03/29/18 17:08	7440-36-0	
Arsenic	**0.00061J**	mg/L	0.0050	0.00057	1	03/28/18 11:30	03/29/18 17:08	7440-38-2	
Barium	**0.040**	mg/L	0.010	0.00078	1	03/28/18 11:30	03/29/18 17:08	7440-39-3	
Beryllium	**0.00018J**	mg/L	0.0030	0.000050	1	03/28/18 11:30	03/29/18 17:08	7440-41-7	
Boron	**0.0048J**	mg/L	0.040	0.0039	1	03/28/18 11:30	03/29/18 17:08	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	03/28/18 11:30	03/29/18 17:08	7440-43-9	
Calcium	**1.5**	mg/L	0.50	0.014	1	03/28/18 11:30	03/29/18 17:08	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	03/28/18 11:30	03/29/18 17:08	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	03/28/18 11:30	03/29/18 17:08	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	03/28/18 11:30	03/29/18 17:08	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	03/28/18 11:30	03/29/18 17:08	7439-92-1	
Nickel	**0.0012J**	mg/L	0.010	0.00095	1	03/28/18 11:30	03/29/18 17:08	7440-02-0	
Selenium	ND	mg/L	0.010	0.0014	1	03/28/18 11:30	03/29/18 17:08	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	03/28/18 11:30	03/29/18 17:08	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	03/28/18 11:30	03/29/18 17:08	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	03/28/18 11:30	03/29/18 17:08	7440-62-2	
Zinc	**0.0099J**	mg/L	0.010	0.0021	1	03/28/18 11:30	03/29/18 17:08	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	03/27/18 12:20	03/28/18 10:20	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**51.0**	mg/L	25.0	25.0	1		03/27/18 20:05		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**2.4**	mg/L	0.25	0.024	1		03/28/18 20:13	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		03/28/18 20:13	16984-48-8	
Sulfate	**1.2**	mg/L	1.0	0.017	1		03/28/18 20:13	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells 1+2
Pace Project No.: 263231

Sample: FBL032018 **Lab ID: 263231007** Collected: 03/20/18 15:28 Received: 03/23/18 16:00 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	03/28/18 11:30	03/29/18 17:20	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	03/28/18 11:30	03/29/18 17:20	7440-38-2	
Barium	ND	mg/L	0.010	0.00078	1	03/28/18 11:30	03/29/18 17:20	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	03/28/18 11:30	03/29/18 17:20	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	03/28/18 11:30	03/29/18 17:20	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	03/28/18 11:30	03/29/18 17:20	7440-43-9	
Calcium	**0.040J**	mg/L	0.50	0.014	1	03/28/18 11:30	03/29/18 17:20	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	03/28/18 11:30	03/29/18 17:20	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	03/28/18 11:30	03/29/18 17:20	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	03/28/18 11:30	03/29/18 17:20	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	03/28/18 11:30	03/29/18 17:20	7439-92-1	
Magnesium	ND	mg/L	0.050	0.0062	1	03/28/18 11:30	03/29/18 17:20	7439-95-4	
Nickel	ND	mg/L	0.010	0.00095	1	03/28/18 11:30	03/29/18 17:20	7440-02-0	
Potassium	ND	mg/L	0.10	0.035	1	03/28/18 11:30	03/29/18 17:20	7440-09-7	
Selenium	ND	mg/L	0.010	0.0014	1	03/28/18 11:30	03/29/18 17:20	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	03/28/18 11:30	03/29/18 17:20	7440-22-4	
Sodium	ND	mg/L	0.10	0.015	1	03/28/18 11:30	03/29/18 17:20	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00014	1	03/28/18 11:30	03/29/18 17:20	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	03/28/18 11:30	03/29/18 17:20	7440-62-2	
Zinc	**0.0040J**	mg/L	0.010	0.0021	1	03/28/18 11:30	03/29/18 17:20	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	03/27/18 12:20	03/28/18 10:23	7439-97-6	
2320B Alkalinity Low Level	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	1.0	1.0	1		03/26/18 15:54		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	1.0	1.0	1		03/26/18 15:54		
Alkalinity, Total as CaCO3	ND	mg/L	1.0	1.0	1		03/26/18 15:54		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		03/27/18 20:05		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**0.26**	mg/L	0.25	0.024	1		03/28/18 20:34	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		03/28/18 20:34	16984-48-8	
Sulfate	ND	mg/L	1.0	0.017	1		03/28/18 20:34	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells 1+2
Pace Project No.: 263231

Sample: EQBL032018 **Lab ID: 263231008** Collected: 03/20/18 15:32 Received: 03/23/18 16:00 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	03/28/18 11:30	03/29/18 17:41	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	03/28/18 11:30	03/29/18 17:41	7440-38-2	
Barium	ND	mg/L	0.010	0.00078	1	03/28/18 11:30	03/29/18 17:41	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	03/28/18 11:30	03/29/18 17:41	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	03/28/18 11:30	03/29/18 17:41	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	03/28/18 11:30	03/29/18 17:41	7440-43-9	
Calcium	**0.019J**	mg/L	0.50	0.014	1	03/28/18 11:30	03/29/18 17:41	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	03/28/18 11:30	03/29/18 17:41	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	03/28/18 11:30	03/29/18 17:41	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	03/28/18 11:30	03/29/18 17:41	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	03/28/18 11:30	03/29/18 17:41	7439-92-1	
Magnesium	ND	mg/L	0.050	0.0062	1	03/28/18 11:30	03/29/18 17:41	7439-95-4	
Nickel	ND	mg/L	0.010	0.00095	1	03/28/18 11:30	03/29/18 17:41	7440-02-0	
Potassium	ND	mg/L	0.10	0.035	1	03/28/18 11:30	03/29/18 17:41	7440-09-7	
Selenium	ND	mg/L	0.010	0.0014	1	03/28/18 11:30	03/29/18 17:41	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	03/28/18 11:30	03/29/18 17:41	7440-22-4	
Sodium	ND	mg/L	0.10	0.015	1	03/28/18 11:30	03/29/18 17:41	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00014	1	03/28/18 11:30	03/29/18 17:41	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	03/28/18 11:30	03/29/18 17:41	7440-62-2	
Zinc	ND	mg/L	0.010	0.0021	1	03/28/18 11:30	03/29/18 17:41	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	03/27/18 12:20	03/28/18 10:25	7439-97-6	
2320B Alkalinity Low Level	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**1.0**	mg/L	1.0	1.0	1		03/26/18 15:57		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	1.0	1.0	1		03/26/18 15:57		
Alkalinity, Total as CaCO3	**1.0**	mg/L	1.0	1.0	1		03/26/18 15:57		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		03/27/18 20:05		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	ND	mg/L	0.25	0.024	1		03/28/18 20:54	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		03/28/18 20:54	16984-48-8	
Sulfate	ND	mg/L	1.0	0.017	1		03/28/18 20:54	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells 1+2
Pace Project No.: 263231

QC Batch: 3238 Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
Associated Lab Samples: 263231001, 263231002, 263231003, 263231004, 263231005, 263231006, 263231007, 263231008

METHOD BLANK: 16579 Matrix: Water
Associated Lab Samples: 263231001, 263231002, 263231003, 263231004, 263231005, 263231006, 263231007, 263231008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00050	0.000036	03/28/18 09:49	

LABORATORY CONTROL SAMPLE: 16580

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	.0025	0.0029	117	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 16581 16582

Parameter	Units	263231001 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	.0025	.0025	0.0027	0.0028	110	111	75-125	1	20	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells 1+2
Pace Project No.: 263231

QC Batch: 3318 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020B MET
Associated Lab Samples: 263231001, 263231002, 263231003, 263231004, 263231005, 263231006, 263231007, 263231008

METHOD BLANK: 16955 Matrix: Water
Associated Lab Samples: 263231001, 263231002, 263231003, 263231004, 263231005, 263231006, 263231007, 263231008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	03/29/18 15:14	
Arsenic	mg/L	ND	0.0050	0.00057	03/29/18 15:14	
Barium	mg/L	ND	0.010	0.00078	03/29/18 15:14	
Beryllium	mg/L	ND	0.0030	0.000050	03/29/18 15:14	
Boron	mg/L	ND	0.040	0.0039	03/29/18 15:14	
Cadmium	mg/L	ND	0.0010	0.000093	03/29/18 15:14	
Calcium	mg/L	ND	0.50	0.014	03/29/18 15:14	
Chromium	mg/L	ND	0.010	0.0016	03/29/18 15:14	
Cobalt	mg/L	ND	0.010	0.00052	03/29/18 15:14	
Copper	mg/L	0.0039J	0.025	0.0013	03/29/18 15:14	
Lead	mg/L	ND	0.0050	0.00027	03/29/18 15:14	
Magnesium	mg/L	ND	0.050	0.0062	03/29/18 15:14	
Nickel	mg/L	ND	0.010	0.00095	03/29/18 15:14	
Potassium	mg/L	ND	0.10	0.035	03/29/18 15:14	
Selenium	mg/L	ND	0.010	0.0014	03/29/18 15:14	
Silver	mg/L	ND	0.010	0.00095	03/29/18 15:14	
Sodium	mg/L	ND	0.10	0.015	03/29/18 15:14	
Thallium	mg/L	ND	0.0010	0.00014	03/29/18 15:14	
Vanadium	mg/L	ND	0.010	0.0019	03/29/18 15:14	
Zinc	mg/L	ND	0.010	0.0021	03/29/18 15:14	

LABORATORY CONTROL SAMPLE: 16956

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	.1	0.10	104	80-120	
Arsenic	mg/L	.1	0.10	101	80-120	
Barium	mg/L	.1	0.10	100	80-120	
Beryllium	mg/L	.1	0.098	98	80-120	
Boron	mg/L	1	1.0	101	80-120	
Cadmium	mg/L	.1	0.10	103	80-120	
Calcium	mg/L	1	0.97	97	80-120	
Chromium	mg/L	.1	0.10	102	80-120	
Cobalt	mg/L	.1	0.10	103	80-120	
Copper	mg/L	.1	0.10	101	80-120	
Lead	mg/L	.1	0.10	101	80-120	
Magnesium	mg/L	1	0.96	96	80-120	
Nickel	mg/L	.1	0.10	102	80-120	
Potassium	mg/L	1	0.99	99	80-120	
Selenium	mg/L	.1	0.10	101	80-120	
Silver	mg/L	.1	0.089	89	80-120	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells 1+2
Pace Project No.: 263231

LABORATORY CONTROL SAMPLE: 16956

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sodium	mg/L	1	0.96	96	80-120	
Thallium	mg/L	.1	0.10	101	80-120	
Vanadium	mg/L	.1	0.10	104	80-120	
Zinc	mg/L	.1	0.10	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 16957 16958

Parameter	Units	263231002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	.1	.1	0.11	0.11	108	108	75-125	1	20	
Arsenic	mg/L	0.0024J	.1	.1	0.11	0.11	106	105	75-125	1	20	
Barium	mg/L	0.024	.1	.1	0.13	0.13	106	102	75-125	3	20	
Beryllium	mg/L	ND	.1	.1	0.10	0.10	102	101	75-125	2	20	
Boron	mg/L	0.0064J	1	1	1.0	1.0	104	101	75-125	3	20	
Cadmium	mg/L	ND	.1	.1	0.10	0.10	103	102	75-125	1	20	
Calcium	mg/L	22.9J	1	1	23.3J	23.9J	35	94	75-125	3	20	M6
Chromium	mg/L	ND	.1	.1	0.11	0.11	107	107	75-125	0	20	
Cobalt	mg/L	0.00076J	.1	.1	0.11	0.11	105	106	75-125	1	20	
Copper	mg/L	ND	.1	.1	0.11	0.11	105	107	75-125	1	20	
Lead	mg/L	ND	.1	.1	0.10	0.10	101	101	75-125	0	20	
Magnesium	mg/L	12.0	1	1	13.6	13.5	161	151	75-125	1	20	
Nickel	mg/L	ND	.1	.1	0.11	0.11	105	106	75-125	1	20	
Potassium	mg/L	1.0	1	1	2.1	2.0	103	101	75-125	1	20	
Selenium	mg/L	ND	.1	.1	0.10	0.11	104	105	75-125	2	20	
Silver	mg/L	ND	.1	.1	0.091	0.091	91	91	75-125	0	20	
Sodium	mg/L	2.9	1	1	3.9	3.8	104	93	75-125	3	20	
Thallium	mg/L	ND	.1	.1	0.10	0.10	103	103	75-125	0	20	
Vanadium	mg/L	ND	.1	.1	0.11	0.11	109	111	75-125	2	20	
Zinc	mg/L	0.0023J	.1	.1	0.11	0.11	104	107	75-125	2	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells 1+2
Pace Project No.: 263231

QC Batch: 3193 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity, Low Level
Associated Lab Samples: 263231007, 263231008

METHOD BLANK: 16458 Matrix: Water
Associated Lab Samples: 263231007, 263231008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	1.0	1.0	03/26/18 15:15	

LABORATORY CONTROL SAMPLE: 16459

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.0	100	85-115	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells 1+2
Pace Project No.: 263231

QC Batch: 403686 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 263231001, 263231002, 263231003, 263231004, 263231005, 263231006, 263231007, 263231008

METHOD BLANK: 2239514 Matrix: Water
Associated Lab Samples: 263231001, 263231002, 263231003, 263231004, 263231005, 263231006, 263231007, 263231008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	03/27/18 20:05	

LABORATORY CONTROL SAMPLE: 2239515

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	272	109	90-110	

SAMPLE DUPLICATE: 2239516

Parameter	Units	263231001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	78.0	92.0	16	5	D6

SAMPLE DUPLICATE: 2239517

Parameter	Units	263232001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	192	191	1	5	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells 1+2
Pace Project No.: 263231

QC Batch: 3328 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 263231001, 263231002, 263231003, 263231004, 263231005, 263231006, 263231007, 263231008

METHOD BLANK: 16994 Matrix: Water
Associated Lab Samples: 263231001, 263231002, 263231003, 263231004, 263231005, 263231006, 263231007, 263231008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	0.024	03/28/18 14:40	
Fluoride	mg/L	ND	0.30	0.029	03/28/18 14:40	
Sulfate	mg/L	ND	1.0	0.017	03/28/18 14:40	

LABORATORY CONTROL SAMPLE: 16995

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	10	10.2	102	90-110	
Fluoride	mg/L	10	10.6	106	90-110	
Sulfate	mg/L	10	10.4	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 16996 16997

Parameter	Units	263231001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	1.7	10	10	11.6	11.5	99	98	90-110	1	15	
Fluoride	mg/L	ND	10	10	10.7	10.7	107	107	90-110	1	15	
Sulfate	mg/L	2.5	10	10	13.1	12.6	106	101	90-110	4	15	

MATRIX SPIKE SAMPLE: 16998

Parameter	Units	263231002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	1.5	10	11.3	98	90-110	
Fluoride	mg/L	ND	10	10.9	109	90-110	
Sulfate	mg/L	0.50J	10	10.9	104	90-110	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALIFIERS

Project: Plant Bowen cells 1+2
Pace Project No.: 263231

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.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-A	Pace Analytical Services - Asheville
PASI-GA	Pace Analytical Services - Atlanta, GA

ANALYTE QUALIFIERS

B	Analyte was detected in the associated method blank.
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.

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Bowen cells 1+2
Pace Project No.: 263231

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
263231001	**GWC-6RZ**	EPA 3005A	3318	EPA 6020B	3434
263231002	**GWC-7Z**	EPA 3005A	3318	EPA 6020B	3434
263231003	**GWC-9**	EPA 3005A	3318	EPA 6020B	3434
263231004	**GWC-10**	EPA 3005A	3318	EPA 6020B	3434
263231005	**GWC-8Z**	EPA 3005A	3318	EPA 6020B	3434
263231006	**Dup-2**	EPA 3005A	3318	EPA 6020B	3434
263231007	**FBL032018**	EPA 3005A	3318	EPA 6020B	3434
263231008	**EQBL032018**	EPA 3005A	3318	EPA 6020B	3434
263231001	**GWC-6RZ**	EPA 7470A	3238	EPA 7470A	3266
263231002	**GWC-7Z**	EPA 7470A	3238	EPA 7470A	3266
263231003	**GWC-9**	EPA 7470A	3238	EPA 7470A	3266
263231004	**GWC-10**	EPA 7470A	3238	EPA 7470A	3266
263231005	**GWC-8Z**	EPA 7470A	3238	EPA 7470A	3266
263231006	**Dup-2**	EPA 7470A	3238	EPA 7470A	3266
263231007	**FBL032018**	EPA 7470A	3238	EPA 7470A	3266
263231008	**EQBL032018**	EPA 7470A	3238	EPA 7470A	3266
263231007	**FBL032018**	SM 2320B	3193		
263231008	**EQBL032018**	SM 2320B	3193		
263231001	**GWC-6RZ**	SM 2540C	403686		
263231002	**GWC-7Z**	SM 2540C	403686		
263231003	**GWC-9**	SM 2540C	403686		
263231004	**GWC-10**	SM 2540C	403686		
263231005	**GWC-8Z**	SM 2540C	403686		
263231006	**Dup-2**	SM 2540C	403686		
263231007	**FBL032018**	SM 2540C	403686		
263231008	**EQBL032018**	SM 2540C	403686		
263231001	**GWC-6RZ**	EPA 300.0	3328		
263231002	**GWC-7Z**	EPA 300.0	3328		
263231003	**GWC-9**	EPA 300.0	3328		
263231004	**GWC-10**	EPA 300.0	3328		
263231005	**GWC-8Z**	EPA 300.0	3328		
263231006	**Dup-2**	EPA 300.0	3328		
263231007	**FBL032018**	EPA 300.0	3328		
263231008	**EQBL032018**	EPA 300.0	3328		

CHAIN OF CUSTODY RECORD

Pace Analytical
www.pacelabs.com

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

PAGE: 1 OF 1

CLIENT NAME: Southern Company Services

CLIENT ADDRESS/PHONE NUMBER/FAX NUMBER:
241 Ralph McGill Blvd SE B10185
Atlanta GA 30308

REPORT TO: Jon Atterbury
CC: Marina Padilla

REQUESTED COMPLETION DATE:
PO #: GPC10684198

PROJECT NAME/STATE: Celco 192
Plant Branch CCR + State GW

PROJECT #:

ANALYSIS REQUESTED

Collection DATE	Collection TIME	MATRIX CODE*	COMP	GRAB	SAMPLE IDENTIFICATION	# of CONTAINERS	Alkalinity SM2320B	Boron, Total EPA 6020	Fluoride EPA 9056	Sulfate EPA 300	TDS SM2540C	Chloride SM4500
					CONTAINER TYPE:		P	P	P	P	P	P
					PRESERVATION:		3	3	3	7	7	7
3/20/18	1013	GW		X	GWC-6R2	2	X	X		X		
3/20/18	1130	GW		X	GWC-7R2	2	X	X		X		
3/20/18	1320	GW		X	GWC-9	2	X	X		X		
3/20/18	1523	GW		X	GWC-10	2	X	X		X		
3/20/18	1450	GW		X	GWC-8R2	2	X	X		X		
3/20/18	—	GW		X	DUP-2	2	X	X		X		
3/20/18	1528	~~GW~~ FB		X	FBL032018	2	X	X	X	X	X	
3/20/18	1532	~~GW~~ EB		X	EQBL032018	2	X	X	X	X	X	

LAB ID NUMBER

CONTAINER TYPE	PRESERVATION
P - PLASTIC	1 - HCl, ≤6°C
A - AMBER GLASS	2 - H_2SO_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 - $Na_2S_2O_3$, ≤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

REMARKS/ADDITIONAL INFORMATION

WO# : 263231

263231

SAMPLED BY AND TITLE: [illegible] / Analyst Fam
DATE/TIME: 3/20/18 @ 1604

RELINQUISHED BY:
DATE/TIME: 3/23/18 1244

RECEIVED BY: Mike Noonan
DATE/TIME: 3/23/18 1244

RELINQUISHED BY:
DATE/TIME:

RECEIVED BY/LAB: [illegible]
DATE/TIME: 03/23/18 1600

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

pH checked: Yes No NA
Ice: Yes No NA
Temperature: Min: 0.3 Max:
Custody Seal: Intact Broken Not Present N/A
# of Coolers:
Cooler ID:

FOR LAB USE ONLY
LAB #:
Entered into LIMS:
Tracking #:

Rev. 12/15/2016

Sample Condition Upon Receipt

Pace Analytical

Client Name: GA Power

Project #

WO# : 263231

PM: BM Due Date: 03/30/18

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 0.3 Biological Tissue is Frozen: Yes No

Temp should be above freezing to 6°C

Comments:

Date and Initials of person examining contents: 3/23/18 NR

Chain of Custody Present:	☑Yes	☐No	☐N/A	1.	
Chain of Custody Filled Out:	☑Yes	☐No	☐N/A	2.	
Chain of Custody Relinquished:	☑Yes	☐No	☐N/A	3.	
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.	
Samples Arrived within Hold Time:	☑Yes	☐No	☐N/A	5.	
Short Hold Time Analysis (<72hr):	☐Yes	☑No	☐N/A	6.	
Rush Turn Around Time Requested:	☐Yes	☑No	☐N/A	7.	
Sufficient Volume:	☑Yes	☐No	☐N/A	8.	
Correct Containers Used:	☑Yes	☐No	☐N/A	9.	
-Pace Containers Used:	☑Yes	☐No	☐N/A		
Containers Intact:	☑Yes	☐No	☐N/A	10.	
Filtered volume received for Dissolved tests	☐Yes	☐No	☑N/A	11.	
Sample Labels match COC:	☑Yes	☐No	☐N/A	12.	
-Includes date/time/ID/Analysis Matrix: GW					
All containers needing preservation have been checked.	☑Yes	☐No	☐N/A	13.	
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes	☐No	☐N/A		
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes	☑No		Initial when completed	Lot # of added preservative
Samples checked for dechlorination:	☐Yes	☐No	☑N/A	14.	
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☑N/A	15	
Trip Blank Present:	☐Yes	☐No	☑N/A	16.	
Trip Blank Custody Seals Present	☐Yes	☐No	☑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).

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

May 16, 2018

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

RE: Project: Plant Bowen cells 1+2
Pace Project No.: 263232

Dear Joju Abraham:
Enclosed are the analytical results for sample(s) received by the laboratory on March 23, 2018. 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.

REV05082018_report revised to correct MDL / J-flag settings.

REV05162018_report revised to set reporting limits in accordance with project scope.

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: Maria Padilla, Georgia Power
Greg Wrenn, Wood PLC

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

CERTIFICATIONS

Project: Plant Bowen cells 1+2
Pace Project No.: 263232

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
Texas Certification #: T104704397-08-TX
Virginia Certification #: 460204

Asheville Certification IDs

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE SUMMARY

Project: Plant Bowen cells 1+2
Pace Project No.: 263232

Lab ID	Sample ID	Matrix	Date Collected	Date Received
263232001	**GWC-10R**	Water	03/21/18 09:55	03/23/18 16:00
263232002	**GWC-11**	Water	03/21/18 11:35	03/23/18 16:00
263232003	**GWC-13**	Water	03/21/18 14:50	03/23/18 16:00
263232004	**GWA-4RZ**	Water	03/21/18 09:18	03/23/18 16:00
263232005	**GWC-8RR**	Water	03/21/18 11:48	03/23/18 16:00
263232006	**EQBL032118**	Water	03/21/18 16:00	03/23/18 16:00
263232007	**FBL032118**	Water	03/21/18 16:30	03/23/18 16:00

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE ANALYTE COUNT

Project: Plant Bowen cells 1+2
Pace Project No.: 263232

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
263232001	**GWC-10R**	EPA 6020B	CSW	17	PASI-GA
		EPA 7470A	AAP	1	PASI-GA
		SM 2540C	EJJ	1	PASI-A
		EPA 300.0	RLC	3	PASI-GA
263232002	**GWC-11**	EPA 6020B	CSW	17	PASI-GA
		EPA 7470A	AAP	1	PASI-GA
		SM 2540C	EJJ	1	PASI-A
		EPA 300.0	RLC	3	PASI-GA
263232003	**GWC-13**	EPA 6020B	CSW	20	PASI-GA
		EPA 7470A	AAP	1	PASI-GA
		SM 2320B	JAD	3	PASI-GA
		SM 2540C	EJJ	1	PASI-A
		EPA 300.0	RLC	3	PASI-GA
263232004	**GWA-4RZ**	EPA 6020B	CSW	20	PASI-GA
		EPA 7470A	AAP	1	PASI-GA
		SM 2320B	JAD	3	PASI-GA
		SM 2540C	EJJ	1	PASI-A
		EPA 300.0	RLC	3	PASI-GA
263232005	**GWC-8RR**	EPA 6020B	CSW	20	PASI-GA
		EPA 7470A	AAP	1	PASI-GA
		SM 2320B	JAD	3	PASI-GA
		SM 2540C	EJJ	1	PASI-A
		EPA 300.0	RLC	3	PASI-GA
263232006	**EQBL032118**	EPA 6020B	CSW	20	PASI-GA
		EPA 7470A	AAP	1	PASI-GA
		SM 2320B	JAD	3	PASI-GA
		SM 2540C	EJJ	1	PASI-A
		EPA 300.0	RLC	3	PASI-GA
263232007	**FBL032118**	EPA 6020B	CSW	20	PASI-GA
		EPA 7470A	AAP	1	PASI-GA
		SM 2320B	JAD	3	PASI-GA
		SM 2540C	EJJ	1	PASI-A
		EPA 300.0	RLC	3	PASI-GA

Pace Analytical Services, LLC
110 Technology Parkway
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ANALYTICAL RESULTS

Project: Plant Bowen cells 1+2
Pace Project No.: 263232

Sample: GWC-10R **Lab ID: 263232001** Collected: 03/21/18 09:55 Received: 03/23/18 16:00 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	03/28/18 11:30	03/29/18 17:47	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	03/28/18 11:30	03/29/18 17:47	7440-38-2	
Barium	**0.022**	mg/L	0.010	0.00078	1	03/28/18 11:30	03/29/18 17:47	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	03/28/18 11:30	03/29/18 17:47	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	03/28/18 11:30	03/29/18 17:47	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	03/28/18 11:30	03/29/18 17:47	7440-43-9	
Calcium	**43.3**	mg/L	25.0	0.69	50	03/28/18 11:30	03/29/18 17:52	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	03/28/18 11:30	03/29/18 17:47	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	03/28/18 11:30	03/29/18 17:47	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	03/28/18 11:30	03/29/18 17:47	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	03/28/18 11:30	03/29/18 17:47	7439-92-1	
Nickel	ND	mg/L	0.010	0.00095	1	03/28/18 11:30	03/29/18 17:47	7440-02-0	
Selenium	ND	mg/L	0.010	0.0014	1	03/28/18 11:30	03/29/18 17:47	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	03/28/18 11:30	03/29/18 17:47	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	03/28/18 11:30	03/29/18 17:47	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	03/28/18 11:30	03/29/18 17:47	7440-62-2	
Zinc	**0.0038J**	mg/L	0.010	0.0021	1	03/28/18 11:30	03/29/18 17:47	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	03/27/18 12:20	03/28/18 11:18	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**192**	mg/L	25.0	25.0	1		03/27/18 20:05		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**2.5**	mg/L	0.25	0.024	1		03/28/18 22:38	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		03/28/18 22:38	16984-48-8	
Sulfate	**1.1**	mg/L	1.0	0.017	1		03/28/18 22:38	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells 1+2
Pace Project No.: 263232

Sample: GWC-11 **Lab ID: 263232002** Collected: 03/21/18 11:35 Received: 03/23/18 16:00 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	03/28/18 11:30	03/29/18 17:58	7440-36-0	
Arsenic	**0.00058J**	mg/L	0.0050	0.00057	1	03/28/18 11:30	03/29/18 17:58	7440-38-2	
Barium	**0.012**	mg/L	0.010	0.00078	1	03/28/18 11:30	03/29/18 17:58	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	03/28/18 11:30	03/29/18 17:58	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	03/28/18 11:30	03/29/18 17:58	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	03/28/18 11:30	03/29/18 17:58	7440-43-9	
Calcium	**19.7J**	mg/L	25.0	0.69	50	03/28/18 11:30	03/29/18 18:04	7440-70-2	D3
Chromium	**0.0079J**	mg/L	0.010	0.0016	1	03/28/18 11:30	03/29/18 17:58	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	03/28/18 11:30	03/29/18 17:58	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	03/28/18 11:30	03/29/18 17:58	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	03/28/18 11:30	03/29/18 17:58	7439-92-1	
Nickel	ND	mg/L	0.010	0.00095	1	03/28/18 11:30	03/29/18 17:58	7440-02-0	
Selenium	ND	mg/L	0.010	0.0014	1	03/28/18 11:30	03/29/18 17:58	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	03/28/18 11:30	03/29/18 17:58	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	03/28/18 11:30	03/29/18 17:58	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	03/28/18 11:30	03/29/18 17:58	7440-62-2	
Zinc	ND	mg/L	0.010	0.0021	1	03/28/18 11:30	03/29/18 17:58	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	03/27/18 12:20	03/28/18 11:28	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**111**	mg/L	25.0	25.0	1		03/27/18 20:05		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**1.6**	mg/L	0.25	0.024	1		03/28/18 22:58	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		03/28/18 22:58	16984-48-8	
Sulfate	**2.4**	mg/L	1.0	0.017	1		03/28/18 22:58	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells 1+2
Pace Project No.: 263232

Sample: GWC-13 **Lab ID: 263232003** Collected: 03/21/18 14:50 Received: 03/23/18 16:00 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	03/28/18 11:30	03/29/18 18:10	7440-36-0	
Arsenic	**0.0013J**	mg/L	0.0050	0.00057	1	03/28/18 11:30	03/29/18 18:10	7440-38-2	
Barium	**0.032**	mg/L	0.010	0.00078	1	03/28/18 11:30	03/29/18 18:10	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	03/28/18 11:30	03/29/18 18:10	7440-41-7	
Boron	**0.021J**	mg/L	0.040	0.0039	1	03/28/18 11:30	03/29/18 18:10	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	03/28/18 11:30	03/29/18 18:10	7440-43-9	
Calcium	**40.9**	mg/L	25.0	0.69	50	03/28/18 11:30	03/29/18 18:15	7440-70-2	
Chromium	**0.0055J**	mg/L	0.010	0.0016	1	03/28/18 11:30	03/29/18 18:10	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	03/28/18 11:30	03/29/18 18:10	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	03/28/18 11:30	03/29/18 18:10	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	03/28/18 11:30	03/29/18 18:10	7439-92-1	
Magnesium	**11.7**	mg/L	2.5	0.31	50	03/28/18 11:30	03/29/18 18:15	7439-95-4	
Nickel	ND	mg/L	0.010	0.00095	1	03/28/18 11:30	03/29/18 18:10	7440-02-0	
Potassium	**2.4**	mg/L	0.10	0.035	1	03/28/18 11:30	03/29/18 18:10	7440-09-7	
Selenium	**0.0021J**	mg/L	0.010	0.0014	1	03/28/18 11:30	03/29/18 18:10	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	03/28/18 11:30	03/29/18 18:10	7440-22-4	
Sodium	**2.3**	mg/L	0.10	0.015	1	03/28/18 11:30	03/29/18 18:10	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00014	1	03/28/18 11:30	03/29/18 18:10	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	03/28/18 11:30	03/29/18 18:10	7440-62-2	
Zinc	**0.0045J**	mg/L	0.010	0.0021	1	03/28/18 11:30	03/29/18 18:10	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	03/27/18 12:20	03/28/18 11:30	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**101**	mg/L	20.0	20.0	1		03/26/18 12:32		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	20.0	20.0	1		03/26/18 12:32		
Alkalinity, Total as CaCO3	**101**	mg/L	20.0	20.0	1		03/26/18 12:32		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**211**	mg/L	25.0	25.0	1		03/27/18 20:05		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**4.6**	mg/L	0.25	0.024	1		03/28/18 23:40	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		03/28/18 23:40	16984-48-8	
Sulfate	**59.1**	mg/L	10.0	0.17	10		03/30/18 10:31	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells 1+2
Pace Project No.: 263232

Sample: GWA-4RZ **Lab ID: 263232004** Collected: 03/21/18 09:18 Received: 03/23/18 16:00 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	03/28/18 11:30	03/29/18 18:21	7440-36-0	
Arsenic	**0.0012J**	mg/L	0.0050	0.00057	1	03/28/18 11:30	03/29/18 18:21	7440-38-2	
Barium	**0.030**	mg/L	0.010	0.00078	1	03/28/18 11:30	03/29/18 18:21	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	03/28/18 11:30	03/29/18 18:21	7440-41-7	
Boron	**0.0062J**	mg/L	0.040	0.0039	1	03/28/18 11:30	03/29/18 18:21	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	03/28/18 11:30	03/29/18 18:21	7440-43-9	
Calcium	**47.5**	mg/L	25.0	0.69	50	03/28/18 11:30	03/29/18 18:27	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	03/28/18 11:30	03/29/18 18:21	7440-47-3	
Cobalt	**0.014**	mg/L	0.010	0.00052	1	03/28/18 11:30	03/29/18 18:21	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	03/28/18 11:30	03/29/18 18:21	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	03/28/18 11:30	03/29/18 18:21	7439-92-1	
Magnesium	**22.4**	mg/L	2.5	0.31	50	03/28/18 11:30	03/29/18 18:27	7439-95-4	
Nickel	ND	mg/L	0.010	0.00095	1	03/28/18 11:30	03/29/18 18:21	7440-02-0	
Potassium	**0.73**	mg/L	0.10	0.035	1	03/28/18 11:30	03/29/18 18:21	7440-09-7	
Selenium	ND	mg/L	0.010	0.0014	1	03/28/18 11:30	03/29/18 18:21	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	03/28/18 11:30	03/29/18 18:21	7440-22-4	
Sodium	**5.4**	mg/L	0.10	0.015	1	03/28/18 11:30	03/29/18 18:21	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00014	1	03/28/18 11:30	03/29/18 18:21	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	03/28/18 11:30	03/29/18 18:21	7440-62-2	
Zinc	**0.0034J**	mg/L	0.010	0.0021	1	03/28/18 11:30	03/29/18 18:21	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	03/27/18 12:20	03/28/18 11:33	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**200**	mg/L	20.0	20.0	1		03/26/18 12:36		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	20.0	20.0	1		03/26/18 12:36		
Alkalinity, Total as CaCO3	**200**	mg/L	20.0	20.0	1		03/26/18 12:36		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**237**	mg/L	25.0	25.0	1		03/27/18 20:05		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**2.9**	mg/L	0.25	0.024	1		03/29/18 00:00	16887-00-6	
Fluoride	**0.24J**	mg/L	0.30	0.029	1		03/29/18 00:00	16984-48-8	
Sulfate	**25.4**	mg/L	1.0	0.017	1		03/29/18 00:00	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells 1+2
Pace Project No.: 263232

Sample: GWC-8RR **Lab ID: 263232005** Collected: 03/21/18 11:48 Received: 03/23/18 16:00 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	03/28/18 11:30	03/29/18 19:18	7440-36-0	
Arsenic	**0.00077J**	mg/L	0.0050	0.00057	1	03/28/18 11:30	03/29/18 19:18	7440-38-2	
Barium	**0.015**	mg/L	0.010	0.00078	1	03/28/18 11:30	03/29/18 19:18	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	03/28/18 11:30	03/29/18 19:18	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	03/28/18 11:30	03/29/18 19:18	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	03/28/18 11:30	03/29/18 19:18	7440-43-9	
Calcium	**22.5J**	mg/L	25.0	0.69	50	03/28/18 11:30	03/29/18 19:23	7440-70-2	D3
Chromium	ND	mg/L	0.010	0.0016	1	03/28/18 11:30	03/29/18 19:18	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	03/28/18 11:30	03/29/18 19:18	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	03/28/18 11:30	03/29/18 19:18	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	03/28/18 11:30	03/29/18 19:18	7439-92-1	
Magnesium	**10.8**	mg/L	2.5	0.31	50	03/28/18 11:30	03/29/18 19:23	7439-95-4	
Nickel	ND	mg/L	0.010	0.00095	1	03/28/18 11:30	03/29/18 19:18	7440-02-0	
Potassium	**1.2**	mg/L	0.10	0.035	1	03/28/18 11:30	03/29/18 19:18	7440-09-7	
Selenium	ND	mg/L	0.010	0.0014	1	03/28/18 11:30	03/29/18 19:18	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	03/28/18 11:30	03/29/18 19:18	7440-22-4	
Sodium	**1.1**	mg/L	0.10	0.015	1	03/28/18 11:30	03/29/18 19:18	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00014	1	03/28/18 11:30	03/29/18 19:18	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	03/28/18 11:30	03/29/18 19:18	7440-62-2	
Zinc	**0.0039J**	mg/L	0.010	0.0021	1	03/28/18 11:30	03/29/18 19:18	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	03/27/18 12:20	03/28/18 11:35	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**104**	mg/L	20.0	20.0	1		03/26/18 12:39		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	20.0	20.0	1		03/26/18 12:39		
Alkalinity, Total as CaCO3	**104**	mg/L	20.0	20.0	1		03/26/18 12:39		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**117**	mg/L	25.0	25.0	1		03/27/18 20:05		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**1.3**	mg/L	0.25	0.024	1		03/29/18 00:21	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		03/29/18 00:21	16984-48-8	
Sulfate	**1.2**	mg/L	1.0	0.017	1		03/29/18 00:21	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells 1+2
Pace Project No.: 263232

Sample: EQBL032118 **Lab ID: 263232006** Collected: 03/21/18 16:00 Received: 03/23/18 16:00 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	03/28/18 11:30	03/29/18 19:29	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	03/28/18 11:30	03/29/18 19:29	7440-38-2	
Barium	ND	mg/L	0.010	0.00078	1	03/28/18 11:30	03/29/18 19:29	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	03/28/18 11:30	03/29/18 19:29	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	03/28/18 11:30	03/29/18 19:29	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	03/28/18 11:30	03/29/18 19:29	7440-43-9	
Calcium	**0.025J**	mg/L	0.50	0.014	1	03/28/18 11:30	03/29/18 19:29	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	03/28/18 11:30	03/29/18 19:29	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	03/28/18 11:30	03/29/18 19:29	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	03/28/18 11:30	03/29/18 19:29	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	03/28/18 11:30	03/29/18 19:29	7439-92-1	
Magnesium	ND	mg/L	0.050	0.0062	1	03/28/18 11:30	03/29/18 19:29	7439-95-4	
Nickel	ND	mg/L	0.010	0.00095	1	03/28/18 11:30	03/29/18 19:29	7440-02-0	
Potassium	ND	mg/L	0.10	0.035	1	03/28/18 11:30	03/29/18 19:29	7440-09-7	
Selenium	ND	mg/L	0.010	0.0014	1	03/28/18 11:30	03/29/18 19:29	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	03/28/18 11:30	03/29/18 19:29	7440-22-4	
Sodium	ND	mg/L	0.10	0.015	1	03/28/18 11:30	03/29/18 19:29	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00014	1	03/28/18 11:30	03/29/18 19:29	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	03/28/18 11:30	03/29/18 19:29	7440-62-2	
Zinc	**0.0022J**	mg/L	0.010	0.0021	1	03/28/18 11:30	03/29/18 19:29	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	03/27/18 12:20	03/28/18 11:42	7439-97-6	
2320B Alkalinity Low Level	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	1.0	1.0	1		03/26/18 15:59		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	1.0	1.0	1		03/26/18 15:59		
Alkalinity, Total as CaCO3	ND	mg/L	1.0	1.0	1		03/26/18 15:59		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		03/27/18 20:05		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**0.27**	mg/L	0.25	0.024	1		03/29/18 00:42	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		03/29/18 00:42	16984-48-8	
Sulfate	ND	mg/L	1.0	0.017	1		03/29/18 00:42	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells 1+2
Pace Project No.: 263232

Sample: FBL032118 **Lab ID: 263232007** Collected: 03/21/18 16:30 Received: 03/23/18 16:00 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	03/28/18 11:30	03/29/18 19:35	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	03/28/18 11:30	03/29/18 19:35	7440-38-2	
Barium	ND	mg/L	0.010	0.00078	1	03/28/18 11:30	03/29/18 19:35	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	03/28/18 11:30	03/29/18 19:35	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	03/28/18 11:30	03/29/18 19:35	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	03/28/18 11:30	03/29/18 19:35	7440-43-9	
Calcium	**0.017J**	mg/L	0.50	0.014	1	03/28/18 11:30	03/29/18 19:35	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	03/28/18 11:30	03/29/18 19:35	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	03/28/18 11:30	03/29/18 19:35	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	03/28/18 11:30	03/29/18 19:35	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	03/28/18 11:30	03/29/18 19:35	7439-92-1	
Magnesium	ND	mg/L	0.050	0.0062	1	03/28/18 11:30	03/29/18 19:35	7439-95-4	
Nickel	ND	mg/L	0.010	0.00095	1	03/28/18 11:30	03/29/18 19:35	7440-02-0	
Potassium	ND	mg/L	0.10	0.035	1	03/28/18 11:30	03/29/18 19:35	7440-09-7	
Selenium	ND	mg/L	0.010	0.0014	1	03/28/18 11:30	03/29/18 19:35	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	03/28/18 11:30	03/29/18 19:35	7440-22-4	
Sodium	**0.020J**	mg/L	0.10	0.015	1	03/28/18 11:30	03/29/18 19:35	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00014	1	03/28/18 11:30	03/29/18 19:35	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	03/28/18 11:30	03/29/18 19:35	7440-62-2	
Zinc	ND	mg/L	0.010	0.0021	1	03/28/18 11:30	03/29/18 19:35	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	03/27/18 12:20	03/28/18 11:44	7439-97-6	
2320B Alkalinity Low Level	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	1.0	1.0	1		03/26/18 16:01		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	1.0	1.0	1		03/26/18 16:01		
Alkalinity, Total as CaCO3	ND	mg/L	1.0	1.0	1		03/26/18 16:01		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		03/27/18 20:05		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**0.26**	mg/L	0.25	0.024	1		03/29/18 01:02	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		03/29/18 01:02	16984-48-8	
Sulfate	ND	mg/L	1.0	0.017	1		03/29/18 01:02	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells 1+2
Pace Project No.: 263232

QC Batch: 3239 Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
Associated Lab Samples: 263232001, 263232002, 263232003, 263232004, 263232005, 263232006, 263232007

METHOD BLANK: 16583 Matrix: Water
Associated Lab Samples: 263232001, 263232002, 263232003, 263232004, 263232005, 263232006, 263232007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00050	0.000036	03/28/18 11:14	

LABORATORY CONTROL SAMPLE: 16584

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	.0025	0.0029	117	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 16585 16586

Parameter	Units	263232001 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	.0025	.0025	0.0028	0.0028	113	112	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells 1+2
Pace Project No.: 263232

QC Batch: 3318 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020B MET
Associated Lab Samples: 263232001, 263232002, 263232003, 263232004, 263232005, 263232006, 263232007

METHOD BLANK: 16955 Matrix: Water
Associated Lab Samples: 263232001, 263232002, 263232003, 263232004, 263232005, 263232006, 263232007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	03/29/18 15:14	
Arsenic	mg/L	ND	0.0050	0.00057	03/29/18 15:14	
Barium	mg/L	ND	0.010	0.00078	03/29/18 15:14	
Beryllium	mg/L	ND	0.0030	0.000050	03/29/18 15:14	
Boron	mg/L	ND	0.040	0.0039	03/29/18 15:14	
Cadmium	mg/L	ND	0.0010	0.000093	03/29/18 15:14	
Calcium	mg/L	ND	0.50	0.014	03/29/18 15:14	
Chromium	mg/L	ND	0.010	0.0016	03/29/18 15:14	
Cobalt	mg/L	ND	0.010	0.00052	03/29/18 15:14	
Copper	mg/L	0.0039J	0.025	0.0013	03/29/18 15:14	
Lead	mg/L	ND	0.0050	0.00027	03/29/18 15:14	
Magnesium	mg/L	ND	0.050	0.0062	03/29/18 15:14	
Nickel	mg/L	ND	0.010	0.00095	03/29/18 15:14	
Potassium	mg/L	ND	0.10	0.035	03/29/18 15:14	
Selenium	mg/L	ND	0.010	0.0014	03/29/18 15:14	
Silver	mg/L	ND	0.010	0.00095	03/29/18 15:14	
Sodium	mg/L	ND	0.10	0.015	03/29/18 15:14	
Thallium	mg/L	ND	0.0010	0.00014	03/29/18 15:14	
Vanadium	mg/L	ND	0.010	0.0019	03/29/18 15:14	
Zinc	mg/L	ND	0.010	0.0021	03/29/18 15:14	

LABORATORY CONTROL SAMPLE: 16956

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	.1	0.10	104	80-120	
Arsenic	mg/L	.1	0.10	101	80-120	
Barium	mg/L	.1	0.10	100	80-120	
Beryllium	mg/L	.1	0.098	98	80-120	
Boron	mg/L	1	1.0	101	80-120	
Cadmium	mg/L	.1	0.10	103	80-120	
Calcium	mg/L	1	0.97	97	80-120	
Chromium	mg/L	.1	0.10	102	80-120	
Cobalt	mg/L	.1	0.10	103	80-120	
Copper	mg/L	.1	0.10	101	80-120	
Lead	mg/L	.1	0.10	101	80-120	
Magnesium	mg/L	1	0.96	96	80-120	
Nickel	mg/L	.1	0.10	102	80-120	
Potassium	mg/L	1	0.99	99	80-120	
Selenium	mg/L	.1	0.10	101	80-120	
Silver	mg/L	.1	0.089	89	80-120	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells 1+2
Pace Project No.: 263232

LABORATORY CONTROL SAMPLE: 16956

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sodium	mg/L	1	0.96	96	80-120	
Thallium	mg/L	.1	0.10	101	80-120	
Vanadium	mg/L	.1	0.10	104	80-120	
Zinc	mg/L	.1	0.10	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 16957 16958

Parameter	Units	263231002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	.1	.1	0.11	0.11	108	108	75-125	1	20	
Arsenic	mg/L	0.0024J	.1	.1	0.11	0.11	106	105	75-125	1	20	
Barium	mg/L	0.024	.1	.1	0.13	0.13	106	102	75-125	3	20	
Beryllium	mg/L	ND	.1	.1	0.10	0.10	102	101	75-125	2	20	
Boron	mg/L	0.0064J	1	1	1.0	1.0	104	101	75-125	3	20	
Cadmium	mg/L	ND	.1	.1	0.10	0.10	103	102	75-125	1	20	
Calcium	mg/L	22.9J	1	1	23.3J	23.9J	35	94	75-125	3	20	M6
Chromium	mg/L	ND	.1	.1	0.11	0.11	107	107	75-125	0	20	
Cobalt	mg/L	0.00076J	.1	.1	0.11	0.11	105	106	75-125	1	20	
Copper	mg/L	ND	.1	.1	0.11	0.11	105	107	75-125	1	20	
Lead	mg/L	ND	.1	.1	0.10	0.10	101	101	75-125	0	20	
Magnesium	mg/L	12.0	1	1	13.6	13.5	161	151	75-125	1	20	
Nickel	mg/L	ND	.1	.1	0.11	0.11	105	106	75-125	1	20	
Potassium	mg/L	1.0	1	1	2.1	2.0	103	101	75-125	1	20	
Selenium	mg/L	ND	.1	.1	0.10	0.11	104	105	75-125	2	20	
Silver	mg/L	ND	.1	.1	0.091	0.091	91	91	75-125	0	20	
Sodium	mg/L	2.9	1	1	3.9	3.8	104	93	75-125	3	20	
Thallium	mg/L	ND	.1	.1	0.10	0.10	103	103	75-125	0	20	
Vanadium	mg/L	ND	.1	.1	0.11	0.11	109	111	75-125	2	20	
Zinc	mg/L	0.0023J	.1	.1	0.11	0.11	104	107	75-125	2	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells 1+2
Pace Project No.: 263232

QC Batch: 3164 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 263232003, 263232004, 263232005

METHOD BLANK: 16361 Matrix: Water
Associated Lab Samples: 263232003, 263232004, 263232005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	20.0	20.0	03/26/18 11:36	

LABORATORY CONTROL SAMPLE: 16362

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	100	101	101	85-115	

SAMPLE DUPLICATE: 16363

Parameter	Units	262962001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	159	158	1	10	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells 1+2
Pace Project No.: 263232

QC Batch: 3193 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity, Low Level
Associated Lab Samples: 263232006, 263232007

METHOD BLANK: 16458 Matrix: Water
Associated Lab Samples: 263232006, 263232007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	1.0	1.0	03/26/18 15:15	

LABORATORY CONTROL SAMPLE: 16459

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.0	100	85-115	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells 1+2
Pace Project No.: 263232

QC Batch: 403686 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 263232001, 263232002, 263232003, 263232004, 263232005, 263232006, 263232007

METHOD BLANK: 2239514 Matrix: Water
Associated Lab Samples: 263232001, 263232002, 263232003, 263232004, 263232005, 263232006, 263232007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	03/27/18 20:05	

LABORATORY CONTROL SAMPLE: 2239515

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	272	109	90-110	

SAMPLE DUPLICATE: 2239516

Parameter	Units	263231001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	78.0	92.0	16	5	D6

SAMPLE DUPLICATE: 2239517

Parameter	Units	263232001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	192	191	1	5	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells 1+2
Pace Project No.: 263232

QC Batch: 3328 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 263232001, 263232002, 263232003, 263232004, 263232005, 263232006, 263232007

METHOD BLANK: 16994 Matrix: Water
Associated Lab Samples: 263232001, 263232002, 263232003, 263232004, 263232005, 263232006, 263232007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	0.024	03/28/18 14:40	
Fluoride	mg/L	ND	0.30	0.029	03/28/18 14:40	
Sulfate	mg/L	ND	1.0	0.017	03/28/18 14:40	

LABORATORY CONTROL SAMPLE: 16995

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	10	10.2	102	90-110	
Fluoride	mg/L	10	10.6	106	90-110	
Sulfate	mg/L	10	10.4	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 16996 16997

Parameter	Units	263231001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	1.7	10	10	11.6	11.5	99	98	90-110	1	15	
Fluoride	mg/L	ND	10	10	10.7	10.7	107	107	90-110	1	15	
Sulfate	mg/L	2.5	10	10	13.1	12.6	106	101	90-110	4	15	

MATRIX SPIKE SAMPLE: 16998

Parameter	Units	263231002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	1.5	10	11.3	98	90-110	
Fluoride	mg/L	ND	10	10.9	109	90-110	
Sulfate	mg/L	0.50J	10	10.9	104	90-110	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALIFIERS

Project: Plant Bowen cells 1+2
Pace Project No.: 263232

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.

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

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.

Pace Analytical Services, LLC
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Peachtree Corners, GA 30092
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Bowen cells 1+2
Pace Project No.: 263232

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
263232001	**GWC-10R**	EPA 3005A	3318	EPA 6020B	3434
263232002	**GWC-11**	EPA 3005A	3318	EPA 6020B	3434
263232003	**GWC-13**	EPA 3005A	3318	EPA 6020B	3434
263232004	**GWA-4RZ**	EPA 3005A	3318	EPA 6020B	3434
263232005	**GWC-8RR**	EPA 3005A	3318	EPA 6020B	3434
263232006	**EQBL032118**	EPA 3005A	3318	EPA 6020B	3434
263232007	**FBL032118**	EPA 3005A	3318	EPA 6020B	3434
263232001	**GWC-10R**	EPA 7470A	3239	EPA 7470A	3267
263232002	**GWC-11**	EPA 7470A	3239	EPA 7470A	3267
263232003	**GWC-13**	EPA 7470A	3239	EPA 7470A	3267
263232004	**GWA-4RZ**	EPA 7470A	3239	EPA 7470A	3267
263232005	**GWC-8RR**	EPA 7470A	3239	EPA 7470A	3267
263232006	**EQBL032118**	EPA 7470A	3239	EPA 7470A	3267
263232007	**FBL032118**	EPA 7470A	3239	EPA 7470A	3267
263232003	**GWC-13**	SM 2320B	3164		
263232004	**GWA-4RZ**	SM 2320B	3164		
263232005	**GWC-8RR**	SM 2320B	3164		
263232006	**EQBL032118**	SM 2320B	3193		
263232007	**FBL032118**	SM 2320B	3193		
263232001	**GWC-10R**	SM 2540C	403686		
263232002	**GWC-11**	SM 2540C	403686		
263232003	**GWC-13**	SM 2540C	403686		
263232004	**GWA-4RZ**	SM 2540C	403686		
263232005	**GWC-8RR**	SM 2540C	403686		
263232006	**EQBL032118**	SM 2540C	403686		
263232007	**FBL032118**	SM 2540C	403686		
263232001	**GWC-10R**	EPA 300.0	3328		
263232002	**GWC-11**	EPA 300.0	3328		
263232003	**GWC-13**	EPA 300.0	3328		
263232004	**GWA-4RZ**	EPA 300.0	3328		
263232005	**GWC-8RR**	EPA 300.0	3328		
263232006	**EQBL032118**	EPA 300.0	3328		
263232007	**FBL032118**	EPA 300.0	3328		

7086

CHAIN OF CUSTODY RECORD

Pace Analytical®
www.pacelabs.com

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

PAGE: 1 OF 1

CLIENT NAME: Southern Company Services

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

REPORT TO: Jojo Abraham

CC: Maria Padilla

REQUESTED COMPLETION DATE:

PO #: GPC10684198

PROJECT NAME/STATE: Plant Bowen Cells 1&2 CCR + Bowen State GW

PROJECT #:

ANALYSIS REQUESTED

Collection DATE	Collection TIME	MATRIX CODE*	COMP	GRAB	SAMPLE IDENTIFICATION	# of CONTAINERS	Metals App. IV EPA 6020	Bowen State GW EPA 6020, 3470	Mg, Na, K EPA 6020	Cl, F, SO4 EPA 300 TDS SM2540C	CO3, HCO3 SM2320B	LAB ID NUMBER
					CONTAINER TYPE:		P	P	P	P	P	
					PRESERVATION:		3	3	3	7	7	
3/21/18	0955	GW			GWC-10R	2	X	X		X		
3/21/18	1135	GW			GWC-11	2	X	X		X		
3/21/18	1450	GW			GWC-13	2	X	X	X	X	X	
3/21/18	0918	GW			GWA-4R7	2	X	X	X	X	X	
3/21/18	1148	GW			GWC-8RR	2	X	X	X	X	X	
3/21/18	1800	W			EQBL032118	2	X	X	X	X	X	
3/21/18	1630	W			FBL032118	2	X	X	X	X	X	

CONTAINER TYPE	PRESERVATION
P - PLASTIC	1 - HCl, ≤6°C
A - AMBER GLASS	2 - H_2SO_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 - $Na_2S_2O_3$, ≤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

REMARKS/ADDITIONAL INFORMATION

WO#: 263232

263232

SAMPLED BY AND TITLE: Kevin Stephenson Brian Steele

DATE/TIME: 3-21-18 @1645

RELINQUISHED BY:

DATE/TIME: 3/22/18 1244

RECEIVED BY: Mike Nolan

DATE/TIME: 3/23/18 1244

RELINQUISHED BY:

DATE/TIME:

RECEIVED BY LAB: Mdatman

DATE/TIME: 03/23/18 1600

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

pH checked: Yes No NA

Ice: Yes No NA

Temperature: Min: 0.1 Max:

Custody Seal: Intact Broken Not Present

# of Coolers

Cooler ID:

FOR LAB USE ONLY

LAB #:

Entered Into LIMS:

Tracking #:

Sample Condition Upon Receipt

Pace Analytical

Client Name: GA Power

Project #

WO#: 263232

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace Other

PM: BM Due Date: 03/30/18

Tracking #:

CLIENT: GAPower-CCR

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 0.1 Biological Tissue is Frozen: Yes No

Temp should be above freezing to 6°C

Comments:

Date and Initials of person examining contents: 3/23/18 LR

Chain of Custody Present:	☑Yes	☐No	☐N/A	1.	
Chain of Custody Filled Out:	☑Yes	☐No	☐N/A	2.	
Chain of Custody Relinquished:	☑Yes	☐No	☐N/A	3.	
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.	
Samples Arrived within Hold Time:	☑Yes	☐No	☐N/A	5.	
Short Hold Time Analysis (<72hr):	☐Yes	☑No	☐N/A	6.	
Rush Turn Around Time Requested:	☐Yes	☑No	☐N/A	7.	
Sufficient Volume:	☑Yes	☐No	☐N/A	8.	
Correct Containers Used:	☑Yes	☐No	☐N/A	9.	
-Pace Containers Used:	☑Yes	☐No	☐N/A		
Containers Intact:	☑Yes	☐No	☐N/A	10.	
Filtered volume received for Dissolved tests	☐Yes	☐No	☑N/A	11.	
Sample Labels match COC:	☑Yes	☐No	☐N/A	12.	
-Includes date/time/ID/Analysis Matrix: GW					
All containers needing preservation have been checked.	☑Yes	☐No	☐N/A	13	
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes	☐No	☐N/A		
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes	☑No		Initial when completed	Lot # of added preservative
Samples checked for dechlorination:	☐Yes	☐No	☑N/A	14.	
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☑N/A	15	
Trip Blank Present:	☐Yes	☐No	☑N/A	16	
Trip Blank Custody Seals Present	☐Yes	☐No	☑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).

F-ALL-C003rev.3, 11September2006

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

May 16, 2018

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

RE: Project: Plant Bowen cells 1+2
Pace Project No.: 263233

Dear Joju Abraham:
Enclosed are the analytical results for sample(s) received by the laboratory on March 23, 2018. 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.

REV05082018_report revised to correct MDL / J-flag settings.

REV05162018_report revised to set reporting limits in accordance with project scope.

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: Maria Padilla, Georgia Power
Greg Wrenn, Wood PLC

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

CERTIFICATIONS

Project: Plant Bowen cells 1+2
Pace Project No.: 263233

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
Texas Certification #: T104704397-08-TX
Virginia Certification #: 460204

Asheville Certification IDs

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE SUMMARY

Project: Plant Bowen cells 1+2
Pace Project No.: 263233

Lab ID	Sample ID	Matrix	Date Collected	Date Received
263233001	**GWC-12**	Water	03/22/18 15:04	03/23/18 16:00
263233002	**GWC-11R**	Water	03/22/18 10:10	03/23/18 16:00
263233003	**GWC-14Z**	Water	03/22/18 17:20	03/23/18 16:00

Pace Analytical Services, LLC
110 Technology Parkway
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SAMPLE ANALYTE COUNT

Project: Plant Bowen cells 1+2
Pace Project No.: 263233

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
263233001	**GWC-12**	EPA 6020B	CSW	17	PASI-GA
		EPA 7470A	AAP	1	PASI-GA
		SM 2540C	NAL	1	PASI-A
		EPA 300.0	RLC	3	PASI-GA
263233002	**GWC-11R**	EPA 6020B	CSW	20	PASI-GA
		EPA 7470A	AAP	1	PASI-GA
		SM 2320B	JAD	3	PASI-GA
		SM 2540C	NAL	1	PASI-A
		EPA 300.0	RLC	3	PASI-GA
263233003	**GWC-14Z**	EPA 6020B	CSW	17	PASI-GA
		EPA 7470A	AAP	1	PASI-GA
		SM 2540C	NAL	1	PASI-A
		EPA 300.0	RLC	3	PASI-GA

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: Plant Bowen cells 1+2
Pace Project No.: 263233

Sample: GWC-12 **Lab ID: 263233001** Collected: 03/22/18 15:04 Received: 03/23/18 16:00 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	03/28/18 11:30	03/29/18 19:41	7440-36-0	
Arsenic	**0.0055**	mg/L	0.0050	0.00057	1	03/28/18 11:30	03/29/18 19:41	7440-38-2	
Barium	**0.024**	mg/L	0.010	0.00078	1	03/28/18 11:30	03/29/18 19:41	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	03/28/18 11:30	03/29/18 19:41	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	03/28/18 11:30	03/29/18 19:41	7440-42-8	
Cadmium	**0.00032J**	mg/L	0.0010	0.000093	1	03/28/18 11:30	03/29/18 19:41	7440-43-9	
Calcium	**7.5**	mg/L	0.50	0.014	1	03/28/18 11:30	03/29/18 19:41	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	03/28/18 11:30	03/29/18 19:41	7440-47-3	
Cobalt	**0.0033J**	mg/L	0.010	0.00052	1	03/28/18 11:30	03/29/18 19:41	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	03/28/18 11:30	03/29/18 19:41	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	03/28/18 11:30	03/29/18 19:41	7439-92-1	
Nickel	**0.0025J**	mg/L	0.010	0.00095	1	03/28/18 11:30	03/29/18 19:41	7440-02-0	
Selenium	ND	mg/L	0.010	0.0014	1	03/28/18 11:30	03/29/18 19:41	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	03/28/18 11:30	03/29/18 19:41	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	03/28/18 11:30	03/29/18 19:41	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	03/28/18 11:30	03/29/18 19:41	7440-62-2	
Zinc	**0.014**	mg/L	0.010	0.0021	1	03/28/18 11:30	03/29/18 19:41	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	03/27/18 12:20	03/28/18 11:47	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**54.0**	mg/L	25.0	25.0	1		03/28/18 12:52		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**1.3**	mg/L	0.25	0.024	1		03/29/18 01:23	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		03/29/18 01:23	16984-48-8	
Sulfate	**0.30J**	mg/L	1.0	0.017	1		03/29/18 01:23	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells 1+2
Pace Project No.: 263233

Sample: GWC-11R **Lab ID: 263233002** Collected: 03/22/18 10:10 Received: 03/23/18 16:00 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	03/28/18 11:30	03/29/18 19:52	7440-36-0	
Arsenic	**0.0022J**	mg/L	0.0050	0.00057	1	03/28/18 11:30	03/29/18 19:52	7440-38-2	
Barium	**0.017**	mg/L	0.010	0.00078	1	03/28/18 11:30	03/29/18 19:52	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	03/28/18 11:30	03/29/18 19:52	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	03/28/18 11:30	03/29/18 19:52	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	03/28/18 11:30	03/29/18 19:52	7440-43-9	
Calcium	**27.5**	mg/L	25.0	0.69	50	03/28/18 11:30	03/29/18 19:58	7440-70-2	
Chromium	**0.0062J**	mg/L	0.010	0.0016	1	03/28/18 11:30	03/29/18 19:52	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	03/28/18 11:30	03/29/18 19:52	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	03/28/18 11:30	03/29/18 19:52	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	03/28/18 11:30	03/29/18 19:52	7439-92-1	
Magnesium	**15.2**	mg/L	2.5	0.31	50	03/28/18 11:30	03/29/18 19:58	7439-95-4	
Nickel	ND	mg/L	0.010	0.00095	1	03/28/18 11:30	03/29/18 19:52	7440-02-0	
Potassium	**1.2**	mg/L	0.10	0.035	1	03/28/18 11:30	03/29/18 19:52	7440-09-7	
Selenium	ND	mg/L	0.010	0.0014	1	03/28/18 11:30	03/29/18 19:52	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	03/28/18 11:30	03/29/18 19:52	7440-22-4	
Sodium	**0.91**	mg/L	0.10	0.015	1	03/28/18 11:30	03/29/18 19:52	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00014	1	03/28/18 11:30	03/29/18 19:52	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	03/28/18 11:30	03/29/18 19:52	7440-62-2	
Zinc	ND	mg/L	0.010	0.0021	1	03/28/18 11:30	03/29/18 19:52	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	03/27/18 12:20	03/28/18 11:49	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**134**	mg/L	20.0	20.0	1		03/26/18 12:45		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	20.0	20.0	1		03/26/18 12:45		
Alkalinity, Total as CaCO3	**134**	mg/L	20.0	20.0	1		03/26/18 12:45		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**139**	mg/L	25.0	25.0	1		03/28/18 12:52		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**2.0**	mg/L	0.25	0.024	1		03/29/18 01:44	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		03/29/18 01:44	16984-48-8	
Sulfate	**2.2**	mg/L	1.0	0.017	1		03/29/18 01:44	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells 1+2
Pace Project No.: 263233

Sample: GWC-14Z **Lab ID: 263233003** Collected: 03/22/18 17:20 Received: 03/23/18 16:00 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	03/28/18 11:30	03/29/18 20:03	7440-36-0	
Arsenic	**0.00096J**	mg/L	0.0050	0.00057	1	03/28/18 11:30	03/29/18 20:03	7440-38-2	
Barium	**0.011**	mg/L	0.010	0.00078	1	03/28/18 11:30	03/29/18 20:03	7440-39-3	
Beryllium	**0.000091J**	mg/L	0.0030	0.000050	1	03/28/18 11:30	03/29/18 20:03	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	03/28/18 11:30	03/29/18 20:03	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	03/28/18 11:30	03/29/18 20:03	7440-43-9	
Calcium	**18.6J**	mg/L	25.0	0.69	50	03/28/18 11:30	03/29/18 20:09	7440-70-2	D3
Chromium	ND	mg/L	0.010	0.0016	1	03/28/18 11:30	03/29/18 20:03	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	03/28/18 11:30	03/29/18 20:03	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	03/28/18 11:30	03/29/18 20:03	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	03/28/18 11:30	03/29/18 20:03	7439-92-1	
Nickel	ND	mg/L	0.010	0.00095	1	03/28/18 11:30	03/29/18 20:03	7440-02-0	
Selenium	ND	mg/L	0.010	0.0014	1	03/28/18 11:30	03/29/18 20:03	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	03/28/18 11:30	03/29/18 20:03	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	03/28/18 11:30	03/29/18 20:03	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	03/28/18 11:30	03/29/18 20:03	7440-62-2	
Zinc	**0.0021J**	mg/L	0.010	0.0021	1	03/28/18 11:30	03/29/18 20:03	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	03/27/18 12:20	03/28/18 11:52	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**115**	mg/L	25.0	25.0	1		03/28/18 12:52		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**3.4**	mg/L	0.25	0.024	1		03/29/18 03:27	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		03/29/18 03:27	16984-48-8	
Sulfate	**2.5**	mg/L	1.0	0.017	1		03/29/18 03:27	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells 1+2
Pace Project No.: 263233

QC Batch: 3239 Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
Associated Lab Samples: 263233001, 263233002, 263233003

METHOD BLANK: 16583 Matrix: Water
Associated Lab Samples: 263233001, 263233002, 263233003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00050	0.000036	03/28/18 11:14	

LABORATORY CONTROL SAMPLE: 16584

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	.0025	0.0029	117	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 16585 16586

Parameter	Units	263232001 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	.0025	.0025	0.0028	0.0028	113	112	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells 1+2
Pace Project No.: 263233

QC Batch: 3318 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020B MET
Associated Lab Samples: 263233001, 263233002, 263233003

METHOD BLANK: 16955 Matrix: Water
Associated Lab Samples: 263233001, 263233002, 263233003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	03/29/18 15:14	
Arsenic	mg/L	ND	0.0050	0.00057	03/29/18 15:14	
Barium	mg/L	ND	0.010	0.00078	03/29/18 15:14	
Beryllium	mg/L	ND	0.0030	0.000050	03/29/18 15:14	
Boron	mg/L	ND	0.040	0.0039	03/29/18 15:14	
Cadmium	mg/L	ND	0.0010	0.000093	03/29/18 15:14	
Calcium	mg/L	ND	0.50	0.014	03/29/18 15:14	
Chromium	mg/L	ND	0.010	0.0016	03/29/18 15:14	
Cobalt	mg/L	ND	0.010	0.00052	03/29/18 15:14	
Copper	mg/L	0.0039J	0.025	0.0013	03/29/18 15:14	
Lead	mg/L	ND	0.0050	0.00027	03/29/18 15:14	
Magnesium	mg/L	ND	0.050	0.0062	03/29/18 15:14	
Nickel	mg/L	ND	0.010	0.00095	03/29/18 15:14	
Potassium	mg/L	ND	0.10	0.035	03/29/18 15:14	
Selenium	mg/L	ND	0.010	0.0014	03/29/18 15:14	
Silver	mg/L	ND	0.010	0.00095	03/29/18 15:14	
Sodium	mg/L	ND	0.10	0.015	03/29/18 15:14	
Thallium	mg/L	ND	0.0010	0.00014	03/29/18 15:14	
Vanadium	mg/L	ND	0.010	0.0019	03/29/18 15:14	
Zinc	mg/L	ND	0.010	0.0021	03/29/18 15:14	

LABORATORY CONTROL SAMPLE: 16956

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	.1	0.10	104	80-120	
Arsenic	mg/L	.1	0.10	101	80-120	
Barium	mg/L	.1	0.10	100	80-120	
Beryllium	mg/L	.1	0.098	98	80-120	
Boron	mg/L	1	1.0	101	80-120	
Cadmium	mg/L	.1	0.10	103	80-120	
Calcium	mg/L	1	0.97	97	80-120	
Chromium	mg/L	.1	0.10	102	80-120	
Cobalt	mg/L	.1	0.10	103	80-120	
Copper	mg/L	.1	0.10	101	80-120	
Lead	mg/L	.1	0.10	101	80-120	
Magnesium	mg/L	1	0.96	96	80-120	
Nickel	mg/L	.1	0.10	102	80-120	
Potassium	mg/L	1	0.99	99	80-120	
Selenium	mg/L	.1	0.10	101	80-120	
Silver	mg/L	.1	0.089	89	80-120	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells 1+2
Pace Project No.: 263233

LABORATORY CONTROL SAMPLE: 16956

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sodium	mg/L	1	0.96	96	80-120	
Thallium	mg/L	.1	0.10	101	80-120	
Vanadium	mg/L	.1	0.10	104	80-120	
Zinc	mg/L	.1	0.10	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 16957 16958

Parameter	Units	263231002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	.1	.1	0.11	0.11	108	108	75-125	1	20	
Arsenic	mg/L	0.0024J	.1	.1	0.11	0.11	106	105	75-125	1	20	
Barium	mg/L	0.024	.1	.1	0.13	0.13	106	102	75-125	3	20	
Beryllium	mg/L	ND	.1	.1	0.10	0.10	102	101	75-125	2	20	
Boron	mg/L	0.0064J	1	1	1.0	1.0	104	101	75-125	3	20	
Cadmium	mg/L	ND	.1	.1	0.10	0.10	103	102	75-125	1	20	
Calcium	mg/L	22.9J	1	1	23.3J	23.9J	35	94	75-125	3	20	M6
Chromium	mg/L	ND	.1	.1	0.11	0.11	107	107	75-125	0	20	
Cobalt	mg/L	0.00076J	.1	.1	0.11	0.11	105	106	75-125	1	20	
Copper	mg/L	ND	.1	.1	0.11	0.11	105	107	75-125	1	20	
Lead	mg/L	ND	.1	.1	0.10	0.10	101	101	75-125	0	20	
Magnesium	mg/L	12.0	1	1	13.6	13.5	161	151	75-125	1	20	
Nickel	mg/L	ND	.1	.1	0.11	0.11	105	106	75-125	1	20	
Potassium	mg/L	1.0	1	1	2.1	2.0	103	101	75-125	1	20	
Selenium	mg/L	ND	.1	.1	0.10	0.11	104	105	75-125	2	20	
Silver	mg/L	ND	.1	.1	0.091	0.091	91	91	75-125	0	20	
Sodium	mg/L	2.9	1	1	3.9	3.8	104	93	75-125	3	20	
Thallium	mg/L	ND	.1	.1	0.10	0.10	103	103	75-125	0	20	
Vanadium	mg/L	ND	.1	.1	0.11	0.11	109	111	75-125	2	20	
Zinc	mg/L	0.0023J	.1	.1	0.11	0.11	104	107	75-125	2	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells 1+2
Pace Project No.: 263233

QC Batch: 3164 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 263233002

METHOD BLANK: 16361 Matrix: Water
Associated Lab Samples: 263233002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	20.0	20.0	03/26/18 11:36	

LABORATORY CONTROL SAMPLE: 16362

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	100	101	101	85-115	

SAMPLE DUPLICATE: 16363

Parameter	Units	262962001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	159	158	1	10	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells 1+2
Pace Project No.: 263233

QC Batch: 403795 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 263233001, 263233002, 263233003

METHOD BLANK: 2239938 Matrix: Water
Associated Lab Samples: 263233001, 263233002, 263233003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	03/28/18 12:52	

LABORATORY CONTROL SAMPLE: 2239939

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	258	103	90-110	

SAMPLE DUPLICATE: 2239940

Parameter	Units	92378053002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	67.0	74.0	10	5	D6

SAMPLE DUPLICATE: 2239941

Parameter	Units	92378063009 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	37.0	44.0	17	5	D6

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells 1+2
Pace Project No.: 263233

QC Batch: 3328 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 263233001, 263233002, 263233003

METHOD BLANK: 16994 Matrix: Water
Associated Lab Samples: 263233001, 263233002, 263233003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	0.024	03/28/18 14:40	
Fluoride	mg/L	ND	0.30	0.029	03/28/18 14:40	
Sulfate	mg/L	ND	1.0	0.017	03/28/18 14:40	

LABORATORY CONTROL SAMPLE: 16995

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	10	10.2	102	90-110	
Fluoride	mg/L	10	10.6	106	90-110	
Sulfate	mg/L	10	10.4	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 16996 16997

Parameter	Units	263231001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	1.7	10	10	11.6	11.5	99	98	90-110	1	15	
Fluoride	mg/L	ND	10	10	10.7	10.7	107	107	90-110	1	15	
Sulfate	mg/L	2.5	10	10	13.1	12.6	106	101	90-110	4	15	

MATRIX SPIKE SAMPLE: 16998

Parameter	Units	263231002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	1.5	10	11.3	98	90-110	
Fluoride	mg/L	ND	10	10.9	109	90-110	
Sulfate	mg/L	0.50J	10	10.9	104	90-110	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALIFIERS

Project: Plant Bowen cells 1+2
Pace Project No.: 263233

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.

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

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.

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Bowen cells 1+2
Pace Project No.: 263233

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
263233001	**GWC-12**	EPA 3005A	3318	EPA 6020B	3434
263233002	**GWC-11R**	EPA 3005A	3318	EPA 6020B	3434
263233003	**GWC-14Z**	EPA 3005A	3318	EPA 6020B	3434
263233001	**GWC-12**	EPA 7470A	3239	EPA 7470A	3267
263233002	**GWC-11R**	EPA 7470A	3239	EPA 7470A	3267
263233003	**GWC-14Z**	EPA 7470A	3239	EPA 7470A	3267
263233002	**GWC-11R**	SM 2320B	3164		
263233001	**GWC-12**	SM 2540C	403795		
263233002	**GWC-11R**	SM 2540C	403795		
263233003	**GWC-14Z**	SM 2540C	403795		
263233001	**GWC-12**	EPA 300.0	3328		
263233002	**GWC-11R**	EPA 300.0	3328		
263233003	**GWC-14Z**	EPA 300.0	3328		

CHAIN OF CUSTODY RECORD

Pace Analytical® www.pacelabs.com

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

CLIENT NAME: Southern Company Services

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

REPORT TO: Jon Abrahams
CC: Mara Padilla
REQUESTED COMPLETION DATE:
PO #: GPW06EH198

PROJECT NAME/STATE:
Plant Bowen Cell 62 CCR # State: GW

PROJECT #:

Collection DATE	Collection TIME	MATRIX CODE*	COMP	GRAB	SAMPLE IDENTIFICATION	# of CONTAINERS	Unpreserved 250mL HDPE EPA 9020	H2SO4 250mL HDPE EPA 9056/9251	HNO3 250mL HDPE EPA 9056/6020	NaOH 250mL HDPE EPA 9020	Zinc Acetate 250mL HDPE SM 4500S2D	NaOH/ZnAc 250mL HDPE SM 4500S2D	Unpreserved 250mL HDPE SM 3120B
3/22/18	1504	GW		X	GWX-12	2	X	X			X		
3/22/18	1010	GW		X	GWX-11R	2	X	X	X		X	X	
3/22/18	1720	GW		X	GWX-14Z	2	X	X			X		

LAB ID NUMBER

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

PRESERVATION: 1 - HCl, ≤6°C; 2 - H_2SO_4, ≤6°C; 3 - HNO_3; 4 - NaOH, ≤6°C; 5 - NaOH/ZnAc, ≤6°C; 6 - $Na_2S_2O_3$, ≤6°C; 7 - ≤6°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

WO# : 263233

263233

SAMPLED BY AND TITLE: [illegible] / [illegible]
DATE/TIME: 3/22/18 @

RELINQUISHED BY: [signature]
DATE/TIME: 3/23/18 1244

RECEIVED BY: Mike Nguyen
DATE/TIME: 3/23/18 1244

RELINQUISHED BY:
DATE/TIME:

RECEIVED BY/LAB: M Lanman
DATE/TIME: 03/23/18 1600

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

pH Checked: Yes No NA
Ice: Yes No NA
Temperature: Min: 0 Max: 3

Custody Seal: Intact Broken Not Present N/A
# of Coolers:
Cooler ID:

FOR LAB USE ONLY
LAB #:
Entered into LIMS:
Tracking #:

Sample Condition Upon Receipt

Pace Analytical

Client Name: GA Power

Project #

WO#: 263233

PM: BM Due Date: 03/30/18

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 0.3 Biological Tissue is Frozen: Yes No

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 3/23/18 KR

				Comments:
Chain of Custody Present:	☑Yes	☐No	☐N/A	1.
Chain of Custody Filled Out:	☑Yes	☐No	☐N/A	2.
Chain of Custody Relinquished:	☑Yes	☐No	☐N/A	3.
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☑Yes	☐No	☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes	☑No	☐N/A	6.
Rush Turn Around Time Requested:	☐Yes	☑No	☐N/A	7.
Sufficient Volume:	☑Yes	☐No	☐N/A	8.
Correct Containers Used:	☑Yes	☐No	☐N/A	9.
-Pace Containers Used:	☑Yes	☐No	☐N/A	
Containers Intact:	☑Yes	☐No	☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☑N/A	11.
Sample Labels match COC:	☑Yes	☐No	☐N/A	12.
-Includes date/time/ID/Analysis Matrix: GW				
All containers needing preservation have been checked.	☑Yes	☐No	☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes	☐No	☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes	☑No		Initial when completed / Lot # of added preservative
Samples checked for dechlorination:	☐Yes	☐No	☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☑N/A	15.
Trip Blank Present:	☐Yes	☐No	☑N/A	16.
Trip Blank Custody Seals Present	☐Yes	☐No	☑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.

F-ALL-Q-003rev.3, 11September2006

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

May 16, 2018

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

RE: Project: Plant Bowen cells 1+2
Pace Project No.: 263234

Dear Joju Abraham:
Enclosed are the analytical results for sample(s) received by the laboratory on March 23, 2018. 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.

REV05082018_report revised to correct MDL / J-flag settings.

REV05162018_report revised to set reporting limits in accordance with project scope.

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: Maria Padilla, Georgia Power
Greg Wrenn, Wood PLC

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

CERTIFICATIONS

Project: Plant Bowen cells 1+2
Pace Project No.: 263234

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
Texas Certification #: T104704397-08-TX
Virginia Certification #: 460204

Asheville Certification IDs

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE SUMMARY

Project: Plant Bowen cells 1+2
Pace Project No.: 263234

Lab ID	Sample ID	Matrix	Date Collected	Date Received
263234001	**GWC-13RZ**	Water	03/23/18 09:38	03/23/18 16:55
263234002	**GWC-15R**	Water	03/23/18 12:02	03/23/18 16:55
263234003	**GWC-15Z**	Water	03/23/18 14:04	03/23/18 16:55
263234004	**Dup-3**	Water	03/23/18 00:00	03/23/18 16:55

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Plant Bowen cells 1+2
Pace Project No.: 263234

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
263234001	**GWC-13RZ**	EPA 6020B	CSW	20	PASI-GA
		EPA 7470A	AAP	1	PASI-GA
		SM 2320B	JAD	3	PASI-GA
		SM 2540C	NAL	1	PASI-A
		EPA 300.0	RLC	3	PASI-GA
263234002	**GWC-15R**	EPA 6020B	CSW	17	PASI-GA
		EPA 7470A	AAP	1	PASI-GA
		SM 2540C	NAL	1	PASI-A
		EPA 300.0	RLC	3	PASI-GA
263234003	**GWC-15Z**	EPA 6020B	CSW	20	PASI-GA
		EPA 7470A	AAP	1	PASI-GA
		SM 2320B	JAD	3	PASI-GA
		SM 2540C	NAL	1	PASI-A
		EPA 300.0	RLC	3	PASI-GA
263234004	**Dup-3**	EPA 6020B	CSW	17	PASI-GA
		EPA 7470A	AAP	1	PASI-GA
		SM 2540C	NAL	1	PASI-A
		EPA 300.0	RLC	3	PASI-GA

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ANALYTICAL RESULTS

Project: Plant Bowen cells 1+2
Pace Project No.: 263234

Sample: GWC-13RZ **Lab ID: 263234001** Collected: 03/23/18 09:38 Received: 03/23/18 16:55 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	**0.0015J**	mg/L	0.0030	0.00078	1	03/28/18 13:00	03/29/18 21:06	7440-36-0	
Arsenic	**0.0017J**	mg/L	0.0050	0.00057	1	03/28/18 13:00	03/29/18 21:06	7440-38-2	B
Barium	**0.086**	mg/L	0.010	0.00078	1	03/28/18 13:00	03/29/18 21:06	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	03/28/18 13:00	03/29/18 21:06	7440-41-7	
Boron	**0.017J**	mg/L	0.040	0.0039	1	03/28/18 13:00	03/29/18 21:06	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	03/28/18 13:00	03/29/18 21:06	7440-43-9	
Calcium	**41.4**	mg/L	25.0	0.69	50	03/28/18 13:00	03/29/18 21:12	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	03/28/18 13:00	03/29/18 21:06	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	03/28/18 13:00	03/29/18 21:06	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	03/28/18 13:00	03/29/18 21:06	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	03/28/18 13:00	03/29/18 21:06	7439-92-1	
Magnesium	**19.4**	mg/L	2.5	0.31	50	03/28/18 13:00	03/29/18 21:12	7439-95-4	
Nickel	ND	mg/L	0.010	0.00095	1	03/28/18 13:00	03/29/18 21:06	7440-02-0	
Potassium	**1.2**	mg/L	0.10	0.035	1	03/28/18 13:00	03/29/18 21:06	7440-09-7	
Selenium	ND	mg/L	0.010	0.0014	1	03/28/18 13:00	03/29/18 21:06	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	03/28/18 13:00	03/29/18 21:06	7440-22-4	
Sodium	**29.1**	mg/L	5.0	0.75	50	03/28/18 13:00	03/29/18 21:12	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00014	1	03/28/18 13:00	03/29/18 21:06	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	03/28/18 13:00	03/29/18 21:06	7440-62-2	
Zinc	**0.0050J**	mg/L	0.010	0.0021	1	03/28/18 13:00	03/29/18 21:06	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	03/27/18 12:20	03/28/18 11:54	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**174**	mg/L	20.0	20.0	1		03/26/18 12:49		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	20.0	20.0	1		03/26/18 12:49		
Alkalinity, Total as CaCO3	**174**	mg/L	20.0	20.0	1		03/26/18 12:49		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**281**	mg/L	25.0	25.0	1		03/28/18 12:52		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**8.3**	mg/L	0.25	0.024	1		03/28/18 15:28	16887-00-6	
Fluoride	**0.24J**	mg/L	0.30	0.029	1		03/28/18 15:28	16984-48-8	
Sulfate	**75.8**	mg/L	10.0	0.17	10		03/30/18 11:12	14808-79-8	M1

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
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ANALYTICAL RESULTS

Project: Plant Bowen cells 1+2
Pace Project No.: 263234

Sample: GWC-15R **Lab ID: 263234002** Collected: 03/23/18 12:02 Received: 03/23/18 16:55 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	**0.0010J**	mg/L	0.0030	0.00078	1	03/28/18 13:00	03/29/18 21:18	7440-36-0	
Arsenic	**0.00071J**	mg/L	0.0050	0.00057	1	03/28/18 13:00	03/29/18 21:18	7440-38-2	B
Barium	**0.021**	mg/L	0.010	0.00078	1	03/28/18 13:00	03/29/18 21:18	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	03/28/18 13:00	03/29/18 21:18	7440-41-7	
Boron	**0.0053J**	mg/L	0.040	0.0039	1	03/28/18 13:00	03/29/18 21:18	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	03/28/18 13:00	03/29/18 21:18	7440-43-9	
Calcium	**35.6**	mg/L	25.0	0.69	50	03/28/18 13:00	03/29/18 21:23	7440-70-2	M6
Chromium	ND	mg/L	0.010	0.0016	1	03/28/18 13:00	03/29/18 21:18	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	03/28/18 13:00	03/29/18 21:18	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	03/28/18 13:00	03/29/18 21:18	7440-50-8	
Lead	**0.00028J**	mg/L	0.0050	0.00027	1	03/28/18 13:00	03/29/18 21:18	7439-92-1	
Nickel	ND	mg/L	0.010	0.00095	1	03/28/18 13:00	03/29/18 21:18	7440-02-0	
Selenium	ND	mg/L	0.010	0.0014	1	03/28/18 13:00	03/29/18 21:18	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	03/28/18 13:00	03/29/18 21:18	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	03/28/18 13:00	03/29/18 21:18	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	03/28/18 13:00	03/29/18 21:18	7440-62-2	
Zinc	**0.0058J**	mg/L	0.010	0.0021	1	03/28/18 13:00	03/29/18 21:18	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	ug/L	0.50	0.036	1	03/27/18 12:20	03/28/18 11:56	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**170**	mg/L	25.0	25.0	1		03/28/18 12:52		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**1.5**	mg/L	0.25	0.024	1		03/28/18 16:30	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		03/28/18 16:30	16984-48-8	
Sulfate	**10.6**	mg/L	1.0	0.017	1		03/28/18 16:30	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: Plant Bowen cells 1+2
Pace Project No.: 263234

Sample: GWC-15Z **Lab ID: 263234003** Collected: 03/23/18 14:04 Received: 03/23/18 16:55 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	**0.00089J**	mg/L	0.0030	0.00078	1	03/28/18 13:00	03/29/18 22:09	7440-36-0	
Arsenic	**0.00097J**	mg/L	0.0050	0.00057	1	03/28/18 13:00	03/29/18 22:09	7440-38-2	B
Barium	**0.013**	mg/L	0.010	0.00078	1	03/28/18 13:00	03/29/18 22:09	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	03/28/18 13:00	03/29/18 22:09	7440-41-7	
Boron	**0.0092J**	mg/L	0.040	0.0039	1	03/28/18 13:00	03/29/18 22:09	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	03/28/18 13:00	03/29/18 22:09	7440-43-9	
Calcium	**24.3J**	mg/L	25.0	0.69	50	03/28/18 13:00	03/29/18 22:15	7440-70-2	D3
Chromium	ND	mg/L	0.010	0.0016	1	03/28/18 13:00	03/29/18 22:09	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	03/28/18 13:00	03/29/18 22:09	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	03/28/18 13:00	03/29/18 22:09	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	03/28/18 13:00	03/29/18 22:09	7439-92-1	
Magnesium	**14.4**	mg/L	2.5	0.31	50	03/28/18 13:00	03/29/18 22:15	7439-95-4	
Nickel	ND	mg/L	0.010	0.00095	1	03/28/18 13:00	03/29/18 22:09	7440-02-0	
Potassium	**0.97**	mg/L	0.10	0.035	1	03/28/18 13:00	03/29/18 22:09	7440-09-7	
Selenium	ND	mg/L	0.010	0.0014	1	03/28/18 13:00	03/29/18 22:09	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	03/28/18 13:00	03/29/18 22:09	7440-22-4	
Sodium	**2.0**	mg/L	0.10	0.015	1	03/28/18 13:00	03/29/18 22:09	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00014	1	03/28/18 13:00	03/29/18 22:09	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	03/28/18 13:00	03/29/18 22:09	7440-62-2	
Zinc	**0.0030J**	mg/L	0.010	0.0021	1	03/28/18 13:00	03/29/18 22:09	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	03/27/18 12:20	03/28/18 11:59	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**125**	mg/L	20.0	20.0	1		03/26/18 12:53		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	20.0	20.0	1		03/26/18 12:53		
Alkalinity, Total as CaCO3	**125**	mg/L	20.0	20.0	1		03/26/18 12:53		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**119**	mg/L	25.0	25.0	1		03/28/18 12:52		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**0.80**	mg/L	0.25	0.024	1		03/28/18 16:51	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		03/28/18 16:51	16984-48-8	
Sulfate	**1.6**	mg/L	1.0	0.017	1		03/28/18 16:51	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
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ANALYTICAL RESULTS

Project: Plant Bowen cells 1+2
Pace Project No.: 263234

Sample: Dup-3 **Lab ID: 263234004** Collected: 03/23/18 00:00 Received: 03/23/18 16:55 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	**0.00078J**	mg/L	0.0030	0.00078	1	03/28/18 13:00	03/29/18 22:21	7440-36-0	
Arsenic	**0.00079J**	mg/L	0.0050	0.00057	1	03/28/18 13:00	03/29/18 22:21	7440-38-2	B
Barium	**0.022**	mg/L	0.010	0.00078	1	03/28/18 13:00	03/29/18 22:21	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	03/28/18 13:00	03/29/18 22:21	7440-41-7	
Boron	**0.0064J**	mg/L	0.040	0.0039	1	03/28/18 13:00	03/29/18 22:21	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	03/28/18 13:00	03/29/18 22:21	7440-43-9	
Calcium	**37.0**	mg/L	25.0	0.69	50	03/28/18 13:00	03/29/18 22:26	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	03/28/18 13:00	03/29/18 22:21	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	03/28/18 13:00	03/29/18 22:21	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	03/28/18 13:00	03/29/18 22:21	7440-50-8	
Lead	**0.00034J**	mg/L	0.0050	0.00027	1	03/28/18 13:00	03/29/18 22:21	7439-92-1	
Nickel	ND	mg/L	0.010	0.00095	1	03/28/18 13:00	03/29/18 22:21	7440-02-0	
Selenium	ND	mg/L	0.010	0.0014	1	03/28/18 13:00	03/29/18 22:21	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	03/28/18 13:00	03/29/18 22:21	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	03/28/18 13:00	03/29/18 22:21	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	03/28/18 13:00	03/29/18 22:21	7440-62-2	
Zinc	**0.0046J**	mg/L	0.010	0.0021	1	03/28/18 13:00	03/29/18 22:21	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	ug/L	0.50	0.036	1	03/27/18 12:20	03/28/18 12:01	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**166**	mg/L	25.0	25.0	1		03/28/18 12:52		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**1.4**	mg/L	0.25	0.024	1		03/28/18 17:12	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		03/28/18 17:12	16984-48-8	
Sulfate	**10.6**	mg/L	1.0	0.017	1		03/28/18 17:12	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
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(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells 1+2
Pace Project No.: 263234

QC Batch: 3239 Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
Associated Lab Samples: 263234001, 263234002, 263234003, 263234004

METHOD BLANK: 16583 Matrix: Water
Associated Lab Samples: 263234001, 263234002, 263234003, 263234004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00050	0.000036	03/28/18 11:14	

LABORATORY CONTROL SAMPLE: 16584

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	.0025	0.0029	117	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 16585 16586

Parameter	Units	263232001 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	.0025	.0025	0.0028	0.0028	113	112	75-125	1	20	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: Plant Bowen cells 1+2
Pace Project No.: 263234

QC Batch: 3319 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020B MET
Associated Lab Samples: 263234001, 263234002, 263234003, 263234004

METHOD BLANK: 16959 Matrix: Water
Associated Lab Samples: 263234001, 263234002, 263234003, 263234004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	03/29/18 20:55	
Arsenic	mg/L	0.00059J	0.0050	0.00057	03/29/18 20:55	
Barium	mg/L	ND	0.010	0.00078	03/29/18 20:55	
Beryllium	mg/L	ND	0.0030	0.000050	03/29/18 20:55	
Boron	mg/L	ND	0.040	0.0039	03/29/18 20:55	
Cadmium	mg/L	ND	0.0010	0.000093	03/29/18 20:55	
Calcium	mg/L	ND	0.50	0.014	03/29/18 20:55	
Chromium	mg/L	ND	0.010	0.0016	03/29/18 20:55	
Cobalt	mg/L	ND	0.010	0.00052	03/29/18 20:55	
Copper	mg/L	ND	0.025	0.0013	03/29/18 20:55	
Lead	mg/L	ND	0.0050	0.00027	03/29/18 20:55	
Magnesium	mg/L	ND	0.050	0.0062	03/29/18 20:55	
Nickel	mg/L	ND	0.010	0.00095	03/29/18 20:55	
Potassium	mg/L	ND	0.10	0.035	03/29/18 20:55	
Selenium	mg/L	ND	0.010	0.0014	03/29/18 20:55	
Silver	mg/L	ND	0.010	0.00095	03/29/18 20:55	
Sodium	mg/L	ND	0.10	0.015	03/29/18 20:55	
Thallium	mg/L	ND	0.0010	0.00014	03/29/18 20:55	
Vanadium	mg/L	ND	0.010	0.0019	03/29/18 20:55	
Zinc	mg/L	ND	0.010	0.0021	03/29/18 20:55	

LABORATORY CONTROL SAMPLE: 16960

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	.1	0.11	106	80-120	
Arsenic	mg/L	.1	0.10	102	80-120	
Barium	mg/L	.1	0.099	99	80-120	
Beryllium	mg/L	.1	0.10	100	80-120	
Boron	mg/L	1	1.0	103	80-120	
Cadmium	mg/L	.1	0.10	101	80-120	
Calcium	mg/L	1	1.0	102	80-120	
Chromium	mg/L	.1	0.10	103	80-120	
Cobalt	mg/L	.1	0.10	100	80-120	
Copper	mg/L	.1	0.10	105	80-120	
Lead	mg/L	.1	0.098	98	80-120	
Magnesium	mg/L	1	1.0	101	80-120	
Nickel	mg/L	.1	0.10	103	80-120	
Potassium	mg/L	1	1.1	106	80-120	
Selenium	mg/L	.1	0.10	102	80-120	
Silver	mg/L	.1	0.091	91	80-120	

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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(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells 1+2
Pace Project No.: 263234

LABORATORY CONTROL SAMPLE: 16960

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sodium	mg/L	1	1.0	102	80-120	
Thallium	mg/L	.1	0.10	100	80-120	
Vanadium	mg/L	.1	0.10	103	80-120	
Zinc	mg/L	.1	0.10	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 16961 16962

Parameter	Units	263234002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	0.0010J	.1	.1	0.11	0.11	108	108	75-125	0	20	
Arsenic	mg/L	0.00071J	.1	.1	0.11	0.11	106	106	75-125	0	20	
Barium	mg/L	0.021	.1	.1	0.12	0.12	104	103	75-125	1	20	
Beryllium	mg/L	ND	.1	.1	0.10	0.10	104	102	75-125	2	20	
Boron	mg/L	0.0053J	1	1	1.0	1.0	104	103	75-125	1	20	
Cadmium	mg/L	ND	.1	.1	0.11	0.10	106	104	75-125	2	20	
Calcium	mg/L	35.6	1	1	36.0	38.0	45	237	75-125	5	20	M6
Chromium	mg/L	ND	.1	.1	0.11	0.11	107	108	75-125	0	20	
Cobalt	mg/L	ND	.1	.1	0.10	0.10	105	104	75-125	0	20	
Copper	mg/L	ND	.1	.1	0.11	0.10	106	104	75-125	1	20	
Lead	mg/L	0.00028J	.1	.1	0.10	0.10	102	101	75-125	1	20	
Magnesium	mg/L	20.2	1	1	20.4	21.1	14	81	75-125	3	20	M6
Nickel	mg/L	ND	.1	.1	0.10	0.10	103	103	75-125	1	20	
Potassium	mg/L	0.88	1	1	1.9	1.9	102	106	75-125	2	20	
Selenium	mg/L	ND	.1	.1	0.10	0.11	103	106	75-125	3	20	
Silver	mg/L	ND	.1	.1	0.091	0.090	91	90	75-125	1	20	
Sodium	mg/L	1.1	1	1	2.1	2.2	97	107	75-125	4	20	
Thallium	mg/L	ND	.1	.1	0.10	0.10	104	102	75-125	1	20	
Vanadium	mg/L	ND	.1	.1	0.11	0.11	110	111	75-125	1	20	
Zinc	mg/L	0.0058J	.1	.1	0.11	0.11	106	105	75-125	1	20	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells 1+2
Pace Project No.: 263234

QC Batch: 3164 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 263234001, 263234003

METHOD BLANK: 16361 Matrix: Water
Associated Lab Samples: 263234001, 263234003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	20.0	20.0	03/26/18 11:36	

LABORATORY CONTROL SAMPLE: 16362

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	100	101	101	85-115	

SAMPLE DUPLICATE: 16363

Parameter	Units	262962001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	159	158	1	10	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells 1+2
Pace Project No.: 263234

QC Batch: 403795 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 263234001, 263234002, 263234003, 263234004

METHOD BLANK: 2239938 Matrix: Water
Associated Lab Samples: 263234001, 263234002, 263234003, 263234004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	03/28/18 12:52	

LABORATORY CONTROL SAMPLE: 2239939

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	258	103	90-110	

SAMPLE DUPLICATE: 2239940

Parameter	Units	92378053002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	67.0	74.0	10	5	D6

SAMPLE DUPLICATE: 2239941

Parameter	Units	92378063009 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	37.0	44.0	17	5	D6

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
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QUALITY CONTROL DATA

Project: Plant Bowen cells 1+2
Pace Project No.: 263234

QC Batch: 3334 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 263234001, 263234002, 263234003, 263234004

METHOD BLANK: 17039 Matrix: Water
Associated Lab Samples: 263234001, 263234002, 263234003, 263234004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	0.024	03/28/18 14:06	
Fluoride	mg/L	ND	0.30	0.029	03/28/18 14:06	
Sulfate	mg/L	ND	1.0	0.017	03/28/18 14:06	

LABORATORY CONTROL SAMPLE: 17040

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	10	10.2	102	90-110	
Fluoride	mg/L	10	9.5	95	90-110	
Sulfate	mg/L	10	10.3	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 17041 17042

Parameter	Units	263234001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	8.3	10	10	17.5	17.6	92	92	90-110	0	15	
Fluoride	mg/L	0.24J	10	10	10	9.9	97	96	90-110	1	15	
Sulfate	mg/L	75.8	10	10	71.3	71.3	-45	-45	90-110	0	15	E,M1

MATRIX SPIKE SAMPLE: 17043

Parameter	Units	263234002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	1.5	10	11.6	101	90-110	
Fluoride	mg/L	ND	10	9.7	97	90-110	
Sulfate	mg/L	10.6	10	20.2	96	90-110	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(770)734-4200

QUALIFIERS

Project: Plant Bowen cells 1+2
Pace Project No.: 263234

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.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-A	Pace Analytical Services - Asheville
PASI-GA	Pace Analytical Services - Atlanta, GA

ANALYTE QUALIFIERS

B	Analyte was detected in the associated method blank.
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.

Pace Analytical Services, LLC
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Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Bowen cells 1+2
Pace Project No.: 263234

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
263234001	**GWC-13RZ**	EPA 3005A	3319	EPA 6020B	3454
263234002	**GWC-15R**	EPA 3005A	3319	EPA 6020B	3454
263234003	**GWC-15Z**	EPA 3005A	3319	EPA 6020B	3454
263234004	**Dup-3**	EPA 3005A	3319	EPA 6020B	3454
263234001	**GWC-13RZ**	EPA 7470A	3239	EPA 7470A	3267
263234002	**GWC-15R**	EPA 7470A	3239	EPA 7470A	3267
263234003	**GWC-15Z**	EPA 7470A	3239	EPA 7470A	3267
263234004	**Dup-3**	EPA 7470A	3239	EPA 7470A	3267
263234001	**GWC-13RZ**	SM 2320B	3164		
263234003	**GWC-15Z**	SM 2320B	3164		
263234001	**GWC-13RZ**	SM 2540C	403795		
263234002	**GWC-15R**	SM 2540C	403795		
263234003	**GWC-15Z**	SM 2540C	403795		
263234004	**Dup-3**	SM 2540C	403795		
263234001	**GWC-13RZ**	EPA 300.0	3334		
263234002	**GWC-15R**	EPA 300.0	3334		
263234003	**GWC-15Z**	EPA 300.0	3334		
263234004	**Dup-3**	EPA 300.0	3334		

CHAIN OF CUSTODY RECORD

Pace Analytical®
www.pacelabs.com

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

PAGE: 1 OF 1

CLIENT NAME: Southern Company Services

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

REPORT TO: Saju Abraham
CC: Maria Padilla

REQUESTED COMPLETION DATE:
PO #: GPC10684198

PROJECT NAME/STATE:
Plant Bowen-Cells 1+2 CCR + Bowen State GW

PROJECT #:

ANALYSIS REQUESTED

Collection DATE	Collection TIME	MATRIX CODE*	COMP	GRAB	SAMPLE IDENTIFICATION	# of CONTAINERS	Metals App. III EPA 6020 (P, 3)	Bowen State GW EPA 6020, EPA 7470 (P, 3)	Mg, Na, K EPA 6020 (P, 3)	Cl, F, SO4 EPA 300 TDS SM2540C (P, 1)	CO3, HCO3 SM2320B (P, 1)	LAB ID NUMBER
3/23/18	0938	GW		X	GWC-13RZ		X	X	X	X	X	1
3/23/18	1202	GW		X	GWC-15R		X	X		X		2
3/23/18	1404	GW		X	GWC-15Z		X	X	X	X	X	3
3/23/18	—	GW		X	DUP-3		X	X		X		4

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

PRESERVATION: 1 - HCl, ≤6°C; 2 - H_2SO_4, ≤6°C; 3 - HNO_3; 4 - NaOH, ≤6°C; 5 - NaOH/ZnAc, ≤6°C; 6 - $Na_2S_2O_3$, ≤6°C; 7 - ≤6°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

SAMPLED BY AND TITLE: Kevin Stephenson, Robert Mull
DATE/TIME: 3/23/18 1430
RELINQUISHED BY: [signature]
DATE/TIME: 3/23/18 1655

RECEIVED BY:
DATE/TIME:
RELINQUISHED BY:
DATE/TIME:

RECEIVED BY LAB: [signature]
DATE/TIME: 3/23/18 1655
SAMPLE SHIPPED VIA: UPS FED-EX USPS COURIER CLIENT OTHER FS

pH checked: Yes No NA
Ice: Yes No NA
Temperature: Min: 3 Max: 3°C
Custody Seal: Intact Broken Not Present N/A
# of Coolers:
Cooler ID:

FOR LAB USE ONLY
LAB #:
Entered into LIMS:
Tracking #:

WO#: 263234

Pace Analytical

Sample Condition Upon Receipt

WO#: 263234

PM: BM Due Date: 03/30/18

CLIENT: GAPower-CCR

Client Name: Georgia Power

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Commercial ☐ Pace Other _____

Proj. Due Date:
Proj. Name:

Tracking #: _____

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

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other _____

Thermometer Used THR082 Type of Ice: (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 3.7°C Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: 3/23/18 CH

Temp should be above freezing to 6°C

Comments:

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☐Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☐No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☐No ☐N/A	7.
Sufficient Volume:	☐Yes ☐No ☐N/A	8.
Correct Containers Used:	☐Yes ☐No ☐N/A	9.
-Pace Containers Used:	☐Yes ☐No ☐N/A	
Containers Intact:	☐Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☐N/A	11.
Sample Labels match COC:	☐Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix:_____		
All containers needing preservation have been checked.	☐Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☐No	Initial when completed _____ Lot # of added preservative _____
Samples checked for dechlorination:	☐Yes ☐No ☐N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☐N/A	15.
Trip Blank Present:	☐Yes ☐No ☐N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☐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)

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

May 16, 2018

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

RE: Project: Plant Bowen cells 3+4
Pace Project No.: 262779

Dear Joju Abraham:
Enclosed are the analytical results for sample(s) received by the laboratory on March 13, 2018. 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.

REV03282018_report revised to remove Mo and Li data per consultant request.

REV04052018_report revised per consultant request to provide Carbonate and Bicarbonate Alkalinity data.

REV05162018_report revised to set reporting limits in accordance with project scope.

REV05082018_report revised to correct MDL / J-flag settings.

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

Enclosures

cc: Maria Padilla, Georgia Power
Greg Wrenn, Wood PLC

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

CERTIFICATIONS

Project: Plant Bowen cells 3+4
Pace Project No.: 262779

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
Texas Certification #: T104704397-08-TX
Virginia Certification #: 460204

Asheville Certification IDs

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE SUMMARY

Project: Plant Bowen cells 3+4
Pace Project No.: 262779

Lab ID	Sample ID	Matrix	Date Collected	Date Received
262779001	**GWA-37**	Water	03/12/18 11:55	03/13/18 12:00
262779002	**GWA-36R**	Water	03/12/18 12:18	03/13/18 12:00
262779003	**GWA-36**	Water	03/12/18 13:24	03/13/18 12:00
262779004	**GWA-55**	Water	03/12/18 15:30	03/13/18 12:00
262779005	**GWA-55R**	Water	03/12/18 16:08	03/13/18 12:00

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110 Technology Parkway
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(770)734-4200

SAMPLE ANALYTE COUNT

Project: Plant Bowen cells 3+4
Pace Project No.: 262779

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
262779001	**GWA-37**	EPA 6020B	CSW	20	PASI-GA
		EPA 7470A	MTC	1	PASI-GA
		SM 2320B	JAD	3	PASI-GA
		SM 2540C	EJJ	1	PASI-A
		EPA 300.0	RLC	3	PASI-GA
262779002	**GWA-36R**	EPA 6020B	CSW	20	PASI-GA
		EPA 7470A	MTC	1	PASI-GA
		SM 2320B	JAD	3	PASI-GA
		SM 2540C	EJJ	1	PASI-A
		EPA 300.0	RLC	3	PASI-GA
262779003	**GWA-36**	EPA 6020B	CSW	20	PASI-GA
		EPA 7470A	MTC	1	PASI-GA
		SM 2320B	JAD	3	PASI-GA
		SM 2540C	EJJ	1	PASI-A
		EPA 300.0	RLC	3	PASI-GA
262779004	**GWA-55**	EPA 6020B	CSW	20	PASI-GA
		EPA 7470A	MTC	1	PASI-GA
		SM 2320B	JAD	3	PASI-GA
		SM 2540C	EJJ	1	PASI-A
		EPA 300.0	RLC	3	PASI-GA
262779005	**GWA-55R**	EPA 6020B	CSW	20	PASI-GA
		EPA 7470A	MTC	1	PASI-GA
		SM 2320B	JAD	3	PASI-GA
		SM 2540C	EJJ	1	PASI-A
		EPA 300.0	RLC	3	PASI-GA

Pace Analytical Services, LLC
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(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells 3+4
Pace Project No.: 262779

Sample: GWA-37 **Lab ID: 262779001** Collected: 03/12/18 11:55 Received: 03/13/18 12:00 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	**0.0023J**	mg/L	0.0030	0.00078	1	03/14/18 10:10	03/17/18 19:09	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	03/14/18 10:10	03/17/18 19:09	7440-38-2	
Barium	**0.0060J**	mg/L	0.010	0.00078	1	03/14/18 10:10	03/17/18 19:09	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	03/14/18 10:10	03/17/18 19:09	7440-41-7	
Boron	**0.0040J**	mg/L	0.040	0.0039	1	03/14/18 10:10	03/17/18 19:09	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	03/14/18 10:10	03/17/18 19:09	7440-43-9	
Calcium	**0.81**	mg/L	0.50	0.014	1	03/14/18 10:10	03/17/18 19:09	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	03/14/18 10:10	03/17/18 19:09	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	03/14/18 10:10	03/17/18 19:09	7440-48-4	
Copper	**0.0053J**	mg/L	0.025	0.0013	1	03/14/18 10:10	03/17/18 19:09	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	03/14/18 10:10	03/17/18 19:09	7439-92-1	
Magnesium	**0.33**	mg/L	0.050	0.0062	1	03/14/18 10:10	03/17/18 19:09	7439-95-4	
Nickel	**0.0054J**	mg/L	0.010	0.00095	1	03/14/18 10:10	03/17/18 19:09	7440-02-0	
Potassium	**0.84**	mg/L	0.10	0.035	1	03/14/18 10:10	03/17/18 19:09	7440-09-7	
Selenium	ND	mg/L	0.010	0.0014	1	03/14/18 10:10	03/17/18 19:09	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	03/14/18 10:10	03/17/18 19:09	7440-22-4	
Sodium	**3.2**	mg/L	0.10	0.015	1	03/14/18 10:10	03/17/18 19:09	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00014	1	03/14/18 10:10	03/17/18 19:09	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	03/14/18 10:10	03/17/18 19:09	7440-62-2	
Zinc	**0.0025J**	mg/L	0.010	0.0021	1	03/14/18 10:10	03/17/18 19:09	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	03/16/18 11:47	03/16/18 15:14	7439-97-6	
2320B Alkalinity Low Level	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**8.5**	mg/L	1.0	1.0	1		03/20/18 13:34		
Alkalinity,Bicarbonate (CaCO3)	**8.5**	mg/L	1.0	1.0	1		03/20/18 13:34		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	1.0	1.0	1		03/20/18 13:34		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		03/16/18 00:53		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**1.1**	mg/L	0.25	0.024	1		03/17/18 03:54	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		03/17/18 03:54	16984-48-8	
Sulfate	**0.42J**	mg/L	1.0	0.017	1		03/17/18 03:54	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells 3+4
Pace Project No.: 262779

Sample: GWA-36R **Lab ID: 262779002** Collected: 03/12/18 12:18 Received: 03/13/18 12:00 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	03/14/18 10:10	03/17/18 19:21	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	03/14/18 10:10	03/17/18 19:21	7440-38-2	
Barium	**0.023**	mg/L	0.010	0.00078	1	03/14/18 10:10	03/17/18 19:21	7440-39-3	
Beryllium	**0.000056J**	mg/L	0.0030	0.000050	1	03/14/18 10:10	03/17/18 19:21	7440-41-7	
Boron	**0.0082J**	mg/L	0.040	0.0039	1	03/14/18 10:10	03/17/18 19:21	7440-42-8	
Cadmium	**0.00013J**	mg/L	0.0010	0.000093	1	03/14/18 10:10	03/17/18 19:21	7440-43-9	
Calcium	**30.6**	mg/L	25.0	0.69	50	03/14/18 10:10	03/17/18 19:26	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	03/14/18 10:10	03/17/18 19:21	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	03/14/18 10:10	03/17/18 19:21	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	03/14/18 10:10	03/17/18 19:21	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	03/14/18 10:10	03/17/18 19:21	7439-92-1	
Magnesium	**17.8**	mg/L	2.5	0.31	50	03/14/18 10:10	03/17/18 19:26	7439-95-4	
Nickel	ND	mg/L	0.010	0.00095	1	03/14/18 10:10	03/17/18 19:21	7440-02-0	
Potassium	**1.2**	mg/L	0.10	0.035	1	03/14/18 10:10	03/17/18 19:21	7440-09-7	
Selenium	ND	mg/L	0.010	0.0014	1	03/14/18 10:10	03/17/18 19:21	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	03/14/18 10:10	03/17/18 19:21	7440-22-4	
Sodium	**1.7**	mg/L	0.10	0.015	1	03/14/18 10:10	03/17/18 19:21	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00014	1	03/14/18 10:10	03/17/18 19:21	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	03/14/18 10:10	03/17/18 19:21	7440-62-2	
Zinc	**0.042**	mg/L	0.010	0.0021	1	03/14/18 10:10	03/17/18 19:21	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	03/16/18 11:47	03/16/18 16:08	7439-97-6	
2320B Alkalinity Low Level	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**144**	mg/L	1.0	1.0	1		03/20/18 13:42		
Alkalinity,Bicarbonate (CaCO3)	**144**	mg/L	1.0	1.0	1		03/20/18 13:42		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	1.0	1.0	1		03/20/18 13:42		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**169**	mg/L	25.0	25.0	1		03/16/18 00:53		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**3.2**	mg/L	0.25	0.024	1		03/17/18 04:59	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		03/17/18 04:59	16984-48-8	
Sulfate	**8.2**	mg/L	1.0	0.017	1		03/17/18 04:59	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells 3+4
Pace Project No.: 262779

Sample: GWA-36 **Lab ID: 262779003** Collected: 03/12/18 13:24 Received: 03/13/18 12:00 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	03/14/18 10:10	03/17/18 19:32	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	03/14/18 10:10	03/17/18 19:32	7440-38-2	
Barium	**0.014**	mg/L	0.010	0.00078	1	03/14/18 10:10	03/17/18 19:32	7440-39-3	
Beryllium	**0.00017J**	mg/L	0.0030	0.000050	1	03/14/18 10:10	03/17/18 19:32	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	03/14/18 10:10	03/17/18 19:32	7440-42-8	
Cadmium	**0.0011**	mg/L	0.0010	0.000093	1	03/14/18 10:10	03/17/18 19:32	7440-43-9	
Calcium	**11.8J**	mg/L	25.0	0.69	50	03/14/18 10:10	03/17/18 19:38	7440-70-2	D3
Chromium	ND	mg/L	0.010	0.0016	1	03/14/18 10:10	03/17/18 19:32	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	03/14/18 10:10	03/17/18 19:32	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	03/14/18 10:10	03/17/18 19:32	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	03/14/18 10:10	03/17/18 19:32	7439-92-1	
Magnesium	**7.3**	mg/L	0.050	0.0062	1	03/14/18 10:10	03/17/18 19:32	7439-95-4	
Nickel	ND	mg/L	0.010	0.00095	1	03/14/18 10:10	03/17/18 19:32	7440-02-0	
Potassium	**0.49**	mg/L	0.10	0.035	1	03/14/18 10:10	03/17/18 19:32	7440-09-7	
Selenium	ND	mg/L	0.010	0.0014	1	03/14/18 10:10	03/17/18 19:32	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	03/14/18 10:10	03/17/18 19:32	7440-22-4	
Sodium	**3.5**	mg/L	0.10	0.015	1	03/14/18 10:10	03/17/18 19:32	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00014	1	03/14/18 10:10	03/17/18 19:32	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	03/14/18 10:10	03/17/18 19:32	7440-62-2	
Zinc	**0.50**	mg/L	0.010	0.0021	1	03/14/18 10:10	03/17/18 19:32	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	03/16/18 11:47	03/16/18 16:11	7439-97-6	
2320B Alkalinity Low Level	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**62.0**	mg/L	1.0	1.0	1		03/20/18 13:46		
Alkalinity,Bicarbonate (CaCO3)	**62.0**	mg/L	1.0	1.0	1		03/20/18 13:46		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	1.0	1.0	1		03/20/18 13:46		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**81.0**	mg/L	25.0	25.0	1		03/16/18 00:53		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**2.2**	mg/L	0.25	0.024	1		03/17/18 05:21	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		03/17/18 05:21	16984-48-8	
Sulfate	**0.77J**	mg/L	1.0	0.017	1		03/17/18 05:21	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells 3+4
Pace Project No.: 262779

Sample: GWA-55 **Lab ID: 262779004** Collected: 03/12/18 15:30 Received: 03/13/18 12:00 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	03/14/18 10:10	03/17/18 19:55	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	03/14/18 10:10	03/17/18 19:55	7440-38-2	
Barium	**0.023**	mg/L	0.010	0.00078	1	03/14/18 10:10	03/17/18 19:55	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	03/14/18 10:10	03/17/18 19:55	7440-41-7	
Boron	**0.0055J**	mg/L	0.040	0.0039	1	03/14/18 10:10	03/17/18 19:55	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	03/14/18 10:10	03/17/18 19:55	7440-43-9	
Calcium	**39.6**	mg/L	25.0	0.69	50	03/14/18 10:10	03/17/18 20:01	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	03/14/18 10:10	03/17/18 19:55	7440-47-3	
Cobalt	**0.0034J**	mg/L	0.010	0.00052	1	03/14/18 10:10	03/17/18 19:55	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	03/14/18 10:10	03/17/18 19:55	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	03/14/18 10:10	03/17/18 19:55	7439-92-1	
Magnesium	**23.2**	mg/L	2.5	0.31	50	03/14/18 10:10	03/17/18 20:01	7439-95-4	
Nickel	ND	mg/L	0.010	0.00095	1	03/14/18 10:10	03/17/18 19:55	7440-02-0	
Potassium	**1.2**	mg/L	0.10	0.035	1	03/14/18 10:10	03/17/18 19:55	7440-09-7	
Selenium	**0.0018J**	mg/L	0.010	0.0014	1	03/14/18 10:10	03/17/18 19:55	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	03/14/18 10:10	03/17/18 19:55	7440-22-4	
Sodium	**0.85**	mg/L	0.10	0.015	1	03/14/18 10:10	03/17/18 19:55	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00014	1	03/14/18 10:10	03/17/18 19:55	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	03/14/18 10:10	03/17/18 19:55	7440-62-2	
Zinc	ND	mg/L	0.010	0.0021	1	03/14/18 10:10	03/17/18 19:55	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	03/16/18 11:47	03/16/18 16:13	7439-97-6	
2320B Alkalinity Low Level	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**163**	mg/L	1.0	1.0	1		03/20/18 13:52		
Alkalinity,Bicarbonate (CaCO3)	**163**	mg/L	1.0	1.0	1		03/20/18 13:52		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	1.0	1.0	1		03/20/18 13:52		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**212**	mg/L	25.0	25.0	1		03/16/18 00:53		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**3.6**	mg/L	0.25	0.024	1		03/17/18 05:43	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		03/17/18 05:43	16984-48-8	
Sulfate	**28.7**	mg/L	1.0	0.017	1		03/22/18 09:31	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells 3+4
Pace Project No.: 262779

Sample: GWA-55R **Lab ID: 262779005** Collected: 03/12/18 16:08 Received: 03/13/18 12:00 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	03/14/18 10:10	03/17/18 20:06	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	03/14/18 10:10	03/17/18 20:06	7440-38-2	
Barium	**0.041**	mg/L	0.010	0.00078	1	03/14/18 10:10	03/17/18 20:06	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	03/14/18 10:10	03/17/18 20:06	7440-41-7	
Boron	**0.0041J**	mg/L	0.040	0.0039	1	03/14/18 10:10	03/17/18 20:06	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	03/14/18 10:10	03/17/18 20:06	7440-43-9	
Calcium	**38.2**	mg/L	25.0	0.69	50	03/14/18 10:10	03/17/18 20:12	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	03/14/18 10:10	03/17/18 20:06	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	03/14/18 10:10	03/17/18 20:06	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	03/14/18 10:10	03/17/18 20:06	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	03/14/18 10:10	03/17/18 20:06	7439-92-1	
Magnesium	**23.0**	mg/L	2.5	0.31	50	03/14/18 10:10	03/17/18 20:12	7439-95-4	
Nickel	ND	mg/L	0.010	0.00095	1	03/14/18 10:10	03/17/18 20:06	7440-02-0	
Potassium	**0.97**	mg/L	0.10	0.035	1	03/14/18 10:10	03/17/18 20:06	7440-09-7	
Selenium	ND	mg/L	0.010	0.0014	1	03/14/18 10:10	03/17/18 20:06	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	03/14/18 10:10	03/17/18 20:06	7440-22-4	
Sodium	**1.2**	mg/L	0.10	0.015	1	03/14/18 10:10	03/17/18 20:06	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00014	1	03/14/18 10:10	03/17/18 20:06	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	03/14/18 10:10	03/17/18 20:06	7440-62-2	
Zinc	ND	mg/L	0.010	0.0021	1	03/14/18 10:10	03/17/18 20:06	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	03/16/18 11:47	03/16/18 16:15	7439-97-6	
2320B Alkalinity Low Level	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**164**	mg/L	1.0	1.0	1		03/20/18 13:57		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	1.0	1.0	1		03/20/18 13:57		
Alkalinity, Total as CaCO3	**164**	mg/L	1.0	1.0	1		03/20/18 13:57		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**207**	mg/L	25.0	25.0	1		03/16/18 00:53		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**3.2**	mg/L	0.25	0.024	1		03/17/18 06:04	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		03/17/18 06:04	16984-48-8	
Sulfate	**22.0**	mg/L	1.0	0.017	1		03/22/18 09:54	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells 3+4
Pace Project No.: 262779

QC Batch: 2540 Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
Associated Lab Samples: 262779001, 262779002, 262779003, 262779004, 262779005

METHOD BLANK: 13358 Matrix: Water
Associated Lab Samples: 262779001, 262779002, 262779003, 262779004, 262779005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00050	0.000036	03/16/18 15:09	

LABORATORY CONTROL SAMPLE: 13359

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	.0025	0.0024	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 13429 13430

Parameter	Units	262779001 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	.0025	.0025	0.0024	0.0024	98	97	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.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells 3+4
Pace Project No.: 262779

QC Batch: 2491 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020B MET
Associated Lab Samples: 262779001, 262779002, 262779003, 262779004, 262779005

METHOD BLANK: 13190 Matrix: Water
Associated Lab Samples: 262779001, 262779002, 262779003, 262779004, 262779005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	03/17/18 17:44	
Arsenic	mg/L	ND	0.0050	0.00057	03/17/18 17:44	
Barium	mg/L	ND	0.010	0.00078	03/17/18 17:44	
Beryllium	mg/L	ND	0.0030	0.000050	03/17/18 17:44	
Boron	mg/L	ND	0.040	0.0039	03/17/18 17:44	
Cadmium	mg/L	ND	0.0010	0.000093	03/17/18 17:44	
Calcium	mg/L	ND	0.50	0.014	03/17/18 17:44	
Chromium	mg/L	ND	0.010	0.0016	03/17/18 17:44	
Cobalt	mg/L	ND	0.010	0.00052	03/17/18 17:44	
Copper	mg/L	ND	0.025	0.0013	03/17/18 17:44	
Lead	mg/L	ND	0.0050	0.00027	03/17/18 17:44	
Magnesium	mg/L	ND	0.050	0.0062	03/17/18 17:44	
Nickel	mg/L	ND	0.010	0.00095	03/17/18 17:44	
Potassium	mg/L	ND	0.10	0.035	03/17/18 17:44	
Selenium	mg/L	ND	0.010	0.0014	03/17/18 17:44	
Silver	mg/L	ND	0.010	0.00095	03/17/18 17:44	
Sodium	mg/L	ND	0.10	0.015	03/17/18 17:44	
Thallium	mg/L	ND	0.0010	0.00014	03/17/18 17:44	
Vanadium	mg/L	ND	0.010	0.0019	03/17/18 17:44	
Zinc	mg/L	ND	0.010	0.0021	03/17/18 17:44	

LABORATORY CONTROL SAMPLE: 13191

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	.1	0.10	104	80-120	
Arsenic	mg/L	.1	0.099	99	80-120	
Barium	mg/L	.1	0.10	100	80-120	
Beryllium	mg/L	.1	0.097	97	80-120	
Boron	mg/L	1	1.0	101	80-120	
Cadmium	mg/L	.1	0.10	104	80-120	
Calcium	mg/L	1	1.0	102	80-120	
Chromium	mg/L	.1	0.11	109	80-120	
Cobalt	mg/L	.1	0.11	107	80-120	
Copper	mg/L	.1	0.11	105	80-120	
Lead	mg/L	.1	0.098	98	80-120	
Magnesium	mg/L	1	1.0	104	80-120	
Nickel	mg/L	.1	0.11	107	80-120	
Potassium	mg/L	1	1.0	105	80-120	
Selenium	mg/L	.1	0.10	100	80-120	
Silver	mg/L	.1	0.092	92	80-120	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells 3+4
Pace Project No.: 262779

LABORATORY CONTROL SAMPLE: 13191

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sodium	mg/L	1	1.0	104	80-120	
Thallium	mg/L	.1	0.099	99	80-120	
Vanadium	mg/L	.1	0.11	109	80-120	
Zinc	mg/L	.1	0.11	110	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 13245 13246

Parameter	Units	262659001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	.1	.1	0.11	0.10	105	103	75-125	2	20	
Arsenic	mg/L	ND	.1	.1	0.10	0.10	102	99	75-125	2	20	
Barium	mg/L	0.19	.1	.1	0.29	0.29	99	98	75-125	0	20	
Beryllium	mg/L	ND	.1	.1	0.091	0.10	91	104	75-125	14	20	
Boron	mg/L	0.13J	1	1	0.99	1.2	86	103	75-125	15	20	
Cadmium	mg/L	ND	.1	.1	0.10	0.10	105	103	75-125	2	20	
Calcium	mg/L	39.8	1	1	37.2	37.2	-267	-265	75-125	0	20	M6
Chromium	mg/L	ND	.1	.1	0.10	0.10	104	104	75-125	0	20	
Cobalt	mg/L	0.027	.1	.1	0.13	0.13	103	103	75-125	0	20	
Copper	mg/L	0.0030J	.1	.1	0.10	0.10	100	100	75-125	0	20	
Lead	mg/L	ND	.1	.1	0.097	0.097	97	97	75-125	0	20	
Magnesium	mg/L	10.6	1	1	11.6	11.9	99	135	75-125	3	20	
Nickel	mg/L	0.014	.1	.1	0.12	0.12	103	101	75-125	1	20	
Potassium	mg/L	5.2	1	1	6.1	5.4	90	28	75-125	11	20	
Selenium	mg/L	ND	.1	.1	0.10	0.10	102	101	75-125	1	20	
Silver	mg/L	ND	.1	.1	0.089	0.089	89	89	75-125	0	20	
Sodium	mg/L	6.3	1	1	7.0	7.5	71	116	75-125	6	20	M1
Thallium	mg/L	ND	.1	.1	0.099	0.096	98	96	75-125	2	20	
Vanadium	mg/L	ND	.1	.1	0.11	0.11	107	107	75-125	0	20	
Zinc	mg/L	0.0022J	.1	.1	0.11	0.11	107	106	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells 3+4
Pace Project No.: 262779

QC Batch: 2834 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity, Low Level
Associated Lab Samples: 262779001, 262779002, 262779003, 262779004, 262779005

METHOD BLANK: 14788 Matrix: Water
Associated Lab Samples: 262779001, 262779002, 262779003, 262779004, 262779005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	1.0	1.0	03/20/18 13:24	

LABORATORY CONTROL SAMPLE: 14789

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	49.0	98	85-115	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells 3+4
Pace Project No.: 262779

QC Batch: 402219 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 262779001, 262779002, 262779003, 262779004, 262779005

METHOD BLANK: 2231136 Matrix: Water
Associated Lab Samples: 262779001, 262779002, 262779003, 262779004, 262779005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	03/16/18 00:53	

LABORATORY CONTROL SAMPLE: 2231137

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	236	94	90-110	

SAMPLE DUPLICATE: 2231138

Parameter	Units	262783001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	2670	2690	1	5	

SAMPLE DUPLICATE: 2231139

Parameter	Units	92376600001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	218	224	3	5	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells 3+4
Pace Project No.: 262779

QC Batch: 2695 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 262779001, 262779002, 262779003, 262779004, 262779005

METHOD BLANK: 14190 Matrix: Water
Associated Lab Samples: 262779001, 262779002, 262779003, 262779004, 262779005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	0.057J	0.25	0.024	03/17/18 02:27	
Fluoride	mg/L	ND	0.30	0.029	03/17/18 02:27	
Sulfate	mg/L	ND	1.0	0.017	03/17/18 02:27	

LABORATORY CONTROL SAMPLE: 14191

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	10	10.4	104	90-110	
Fluoride	mg/L	10	10.1	101	90-110	
Sulfate	mg/L	10	10.6	106	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 14192 14193

Parameter	Units	262779001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	1.1	10	10	11.3	11.3	102	102	90-110	0	15	
Fluoride	mg/L	ND	10	10	10.3	10.2	103	102	90-110	0	15	
Sulfate	mg/L	0.42J	10	10	10.3	10.4	99	100	90-110	0	15	

MATRIX SPIKE SAMPLE: 14194

Parameter	Units	262779002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	3.2	10	12.9	97	90-110	
Fluoride	mg/L	ND	10	10.3	103	90-110	
Sulfate	mg/L	8.2	10	17.5	93	90-110	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALIFIERS

Project: Plant Bowen cells 3+4
Pace Project No.: 262779

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.

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

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

Pace Analytical Services, LLC
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Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Bowen cells 3+4
Pace Project No.: 262779

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
262779001	**GWA-37**	EPA 3005A	2491	EPA 6020B	2728
262779002	**GWA-36R**	EPA 3005A	2491	EPA 6020B	2728
262779003	**GWA-36**	EPA 3005A	2491	EPA 6020B	2728
262779004	**GWA-55**	EPA 3005A	2491	EPA 6020B	2728
262779005	**GWA-55R**	EPA 3005A	2491	EPA 6020B	2728
262779001	**GWA-37**	EPA 7470A	2540	EPA 7470A	2686
262779002	**GWA-36R**	EPA 7470A	2540	EPA 7470A	2686
262779003	**GWA-36**	EPA 7470A	2540	EPA 7470A	2686
262779004	**GWA-55**	EPA 7470A	2540	EPA 7470A	2686
262779005	**GWA-55R**	EPA 7470A	2540	EPA 7470A	2686
262779001	**GWA-37**	SM 2320B	2834		
262779002	**GWA-36R**	SM 2320B	2834		
262779003	**GWA-36**	SM 2320B	2834		
262779004	**GWA-55**	SM 2320B	2834		
262779005	**GWA-55R**	SM 2320B	2834		
262779001	**GWA-37**	SM 2540C	402219		
262779002	**GWA-36R**	SM 2540C	402219		
262779003	**GWA-36**	SM 2540C	402219		
262779004	**GWA-55**	SM 2540C	402219		
262779005	**GWA-55R**	SM 2540C	402219		
262779001	**GWA-37**	EPA 300.0	2695		
262779002	**GWA-36R**	EPA 300.0	2695		
262779003	**GWA-36**	EPA 300.0	2695		
262779004	**GWA-55**	EPA 300.0	2695		
262779005	**GWA-55R**	EPA 300.0	2695		

CHAIN OF CUSTODY RECORD

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

PAGE: 1 OF 1

CLIENT NAME: Southern Company Services

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

REPORT TO: John Abraham
CC: Maria Padilla

REQUESTED COMPLETION DATE:
PO #: GPC 10684198

PROJECT NAME/STATE: Plant Bowen - Cells 3+4 CCR + Bowen State

PROJECT #:

ANALYSIS REQUESTED

Collection DATE	Collection TIME	MATRIX CODE*	COMP	GRAB	SAMPLE IDENTIFICATION	# of CONTAINERS	Metals EPA 6020 Ag, As, Ba, Be, Cd, Co, Cr, Li, Mo, Ni, Pb, Sb, Se, Tl, V	Bowen State GW EPA 6020 + EPA 7470	Cl, F, SO4, EPA 300 TDS SM2540C CO3, HCO3, 2320B
					CONTAINER TYPE:		P	P	P
					PRESERVATION:	3	3	7
3/12/18	1155	GW		X	GWA-37	2	X	X	1
3/12/18	1218	GW		X	GWA-36R	2	X	X	1
3/12/18	1324	GW		X	GWA-36	2	X	X	1
3/12/18	1530	GW		X	GWA-55	2	X	X	1
3/12/18	1608	GW		X	GWA-55R	2	X	X	1

LAB ID NUMBER

CONTAINER TYPE	PRESERVATION
P - PLASTIC	1 - HCl, ≤6°C
A - AMBER GLASS	2 - H_2SO_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 - $Na_2S_2O_3$, ≤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

REMARKS/ADDITIONAL INFORMATION

WO#: 262779

262779

SAMPLED BY AND TITLE: Robert Mill/Kevin Stickles/Anthony Fitz/Brian Steele
DATE/TIME: 3/12/18 1712
RELINQUISHED BY:
DATE/TIME: 3/13/18 0938

RECEIVED BY: Mike Nguyen
DATE/TIME: 3/13/18 0938
RELINQUISHED BY:
DATE/TIME:

RECEIVED BY/LAB: Malman
DATE/TIME: 03/13/18 1200
SAMPLE SHIPPED VIA: UPS FED-EX USPS COURIER Pace CLIENT OTHER FS

pH checked: Yes No NA
Ice: Yes No NA
Temperature: Min: 0.2 Max:
Custody Seal: Intact Broken Not Present
# of Coolers:
Cooler ID:

FOR LAB USE ONLY
LAB #:
Entered into LIMS:
Tracking #:

Sample Condition Upon Receipt

Pace Analytical

Client Name: GA Power

Project #

WO# : 262779

PM: BM Due Date: 03/20/18

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 IR3 3/13/18 283 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: 3/13/18 NR

			Comments:	
Chain of Custody Present:	☑Yes	☐No ☐N/A	1.	
Chain of Custody Filled Out:	☑Yes	☐No ☐N/A	2.	
Chain of Custody Relinquished:	☑Yes	☐No ☐N/A	3.	
Sampler Name & Signature on COC:	☑Yes	☐No ☐N/A	4.	
Samples Arrived within Hold Time:	☑Yes	☐No ☐N/A	5.	
Short Hold Time Analysis (<72hr):	☐Yes	☑No ☐N/A	6.	
Rush Turn Around Time Requested:	☐Yes	☑No ☐N/A	7.	
Sufficient Volume:	☑Yes	☐No ☐N/A	8.	
Correct Containers Used:	☑Yes	☐No ☐N/A	9.	
-Pace Containers Used:	☑Yes	☐No ☐N/A		
Containers Intact:	☑Yes	☐No ☐N/A	10.	
Filtered volume received for Dissolved tests	☐Yes	☐No ☑N/A	11.	
Sample Labels match COC:	☑Yes	☐No ☐N/A	12.	
-Includes date/time/ID/Analysis Matrix: W				
All containers needing preservation have been checked.	☑Yes	☐No ☐N/A	13.	
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes	☐No ☐N/A		
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes	☑No	Initial when completed	Lot # of added preservative
Samples checked for dechlorination:	☐Yes	☐No ☑N/A	14.	
Headspace in VOA Vials (>6mm):	☐Yes	☐No ☑N/A	15.	
Trip Blank Present:	☐Yes	☐No ☑N/A	16.	
Trip Blank Custody Seals Present	☐Yes	☐No ☑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)

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

May 16, 2018

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

RE: Project: Plant Bowen cells 3+4
Pace Project No.: 262972

Dear Joju Abraham:
Enclosed are the analytical results for sample(s) received by the laboratory on March 16, 2018. 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.

REV04042018_report revised to remove Mo and Li data per consultant request.

REV05082018_report revised to correct MDL / J-flag settings.

REV05162018_report revised to set reporting limits in accordance with project scope.

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: Maria Padilla, Georgia Power
Greg Wrenn, Wood PLC

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

CERTIFICATIONS

Project: Plant Bowen cells 3+4
Pace Project No.: 262972

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
Texas Certification #: T104704397-08-TX
Virginia Certification #: 460204

Asheville Certification IDs

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE SUMMARY

Project: Plant Bowen cells 3+4
Pace Project No.: 262972

Lab ID	Sample ID	Matrix	Date Collected	Date Received
262972001	**GWA-52**	Water	03/13/18 10:30	03/16/18 16:00
262972002	**GWA-54**	Water	03/13/18 10:25	03/16/18 16:00
262972003	**GWA-51RZ**	Water	03/13/18 11:00	03/16/18 16:00
262972004	**GWA-38**	Water	03/13/18 11:20	03/16/18 16:00
262972005	**GWA-53R**	Water	03/13/18 13:00	03/16/18 16:00
262972006	**GWC-25R**	Water	03/13/18 13:20	03/16/18 16:00
262972007	**GWC-24R**	Water	03/13/18 13:33	03/16/18 16:00
262972008	**GWA-53**	Water	03/13/18 15:10	03/16/18 16:00
262972009	**Dup-1**	Water	03/13/18 00:00	03/16/18 16:00
262972010	**GWA-56**	Water	03/13/18 12:00	03/16/18 16:00
262972011	**GWC-22R**	Water	03/13/18 16:15	03/16/18 16:00
262972012	**Dup-2**	Water	03/13/18 00:00	03/16/18 16:00
262972013	**FBL031318**	Water	03/13/18 16:06	03/16/18 16:00
262972014	**EQBL031318**	Water	03/13/18 16:11	03/16/18 16:00

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE ANALYTE COUNT

Project: Plant Bowen cells 3+4
Pace Project No.: 262972

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
262972001	**GWA-52**	EPA 6020B	CSW	20	PASI-GA
		EPA 7470A	MTC	1	PASI-GA
		SM 2320B	JAD	3	PASI-GA
		SM 2540C	EJJ	1	PASI-A
		EPA 300.0	RLC	3	PASI-GA
262972002	**GWA-54**	EPA 6020B	CSW	20	PASI-GA
		EPA 7470A	MTC	1	PASI-GA
		SM 2320B	JAD	3	PASI-GA
		SM 2540C	EJJ	1	PASI-A
		EPA 300.0	RLC	3	PASI-GA
262972003	**GWA-51RZ**	EPA 6020B	CSW	20	PASI-GA
		EPA 7470A	MTC	1	PASI-GA
		SM 2320B	JAD	3	PASI-GA
		SM 2540C	EJJ	1	PASI-A
		EPA 300.0	RLC	3	PASI-GA
262972004	**GWA-38**	EPA 6020B	CSW	20	PASI-GA
		EPA 7470A	MTC	1	PASI-GA
		SM 2320B	JAD	3	PASI-GA
		SM 2540C	EJJ	1	PASI-A
		EPA 300.0	RLC	3	PASI-GA
262972005	**GWA-53R**	EPA 6020B	CSW	20	PASI-GA
		EPA 7470A	MTC	1	PASI-GA
		SM 2320B	JAD	3	PASI-GA
		SM 2540C	EJJ	1	PASI-A
		EPA 300.0	RLC	3	PASI-GA
262972006	**GWC-25R**	EPA 6020B	CSW	17	PASI-GA
		EPA 7470A	MTC	1	PASI-GA
		SM 2540C	EJJ	1	PASI-A
		EPA 300.0	RLC	3	PASI-GA
262972007	**GWC-24R**	EPA 6020B	CSW	17	PASI-GA
		EPA 7470A	MTC	1	PASI-GA
		SM 2540C	EJJ	1	PASI-A
		EPA 300.0	RLC	3	PASI-GA
262972008	**GWA-53**	EPA 6020B	CSW	20	PASI-GA
		EPA 7470A	MTC	1	PASI-GA
		SM 2320B	JAD	3	PASI-GA
		SM 2540C	EJJ	1	PASI-A

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SAMPLE ANALYTE COUNT

Project: Plant Bowen cells 3+4
Pace Project No.: 262972

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 300.0	RLC	3	PASI-GA
262972009	Dup-1	EPA 6020B	CSW	20	PASI-GA
		EPA 7470A	MTC	1	PASI-GA
		SM 2320B	JAD	3	PASI-GA
		SM 2540C	MVC	1	PASI-A
		EPA 300.0	RLC	3	PASI-GA
262972010	GWA-56	EPA 6020B	CSW	20	PASI-GA
		EPA 7470A	MTC	1	PASI-GA
		SM 2320B	JAD	3	PASI-GA
		SM 2540C	EJJ	1	PASI-A
		EPA 300.0	RLC	3	PASI-GA
262972011	GWC-22R	EPA 6020B	CSW	20	PASI-GA
		EPA 7470A	MTC	1	PASI-GA
		SM 2320B	JAD	3	PASI-GA
		SM 2540C	EJJ	1	PASI-A
		EPA 300.0	RLC	3	PASI-GA
262972012	Dup-2	EPA 6020B	CSW	20	PASI-GA
		EPA 7470A	MTC	1	PASI-GA
		SM 2320B	JAD	3	PASI-GA
		SM 2540C	EJJ	1	PASI-A
		EPA 300.0	RLC	3	PASI-GA
262972013	FBL031318	EPA 6020B	CSW	20	PASI-GA
		EPA 7470A	MTC	1	PASI-GA
		SM 2320B	JAD	3	PASI-GA
		SM 2540C	EJJ	1	PASI-A
		EPA 300.0	RLC	3	PASI-GA
262972014	EQBL031318	EPA 6020B	CSW	20	PASI-GA
		EPA 7470A	MTC	1	PASI-GA
		SM 2320B	JAD	3	PASI-GA
		SM 2540C	EJJ	1	PASI-A
		EPA 300.0	RLC	3	PASI-GA

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ANALYTICAL RESULTS

Project: Plant Bowen cells 3+4
Pace Project No.: 262972

Sample: GWA-52 **Lab ID: 262972001** Collected: 03/13/18 10:30 Received: 03/16/18 16:00 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	03/20/18 09:19	03/20/18 20:35	7440-36-0	
Arsenic	**0.00063J**	mg/L	0.0050	0.00057	1	03/20/18 09:19	03/20/18 20:35	7440-38-2	
Barium	**0.020**	mg/L	0.010	0.00078	1	03/20/18 09:19	03/20/18 20:35	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	03/20/18 09:19	03/20/18 20:35	7440-41-7	
Boron	**0.0084J**	mg/L	0.040	0.0039	1	03/20/18 09:19	03/20/18 20:35	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	03/20/18 09:19	03/20/18 20:35	7440-43-9	
Calcium	**26.2**	mg/L	25.0	0.69	50	03/20/18 09:19	03/20/18 20:40	7440-70-2	M6
Chromium	ND	mg/L	0.010	0.0016	1	03/20/18 09:19	03/20/18 20:35	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	03/20/18 09:19	03/20/18 20:35	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	03/20/18 09:19	03/20/18 20:35	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	03/20/18 09:19	03/20/18 20:35	7439-92-1	
Magnesium	**15.0**	mg/L	2.5	0.31	50	03/20/18 09:19	03/20/18 20:40	7439-95-4	M1
Nickel	ND	mg/L	0.010	0.00095	1	03/20/18 09:19	03/20/18 20:35	7440-02-0	
Potassium	**0.96**	mg/L	0.10	0.035	1	03/20/18 09:19	03/20/18 20:35	7440-09-7	
Selenium	ND	mg/L	0.010	0.0014	1	03/20/18 09:19	03/20/18 20:35	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	03/20/18 09:19	03/20/18 20:35	7440-22-4	
Sodium	**3.7**	mg/L	0.10	0.015	1	03/20/18 09:19	03/20/18 20:35	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00014	1	03/20/18 09:19	03/20/18 20:35	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	03/20/18 09:19	03/20/18 20:35	7440-62-2	
Zinc	ND	mg/L	0.010	0.0021	1	03/20/18 09:19	03/20/18 20:35	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	03/20/18 13:28	03/20/18 18:00	7439-97-6	
2320B Alkalinity Low Level	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**128**	mg/L	1.0	1.0	1		03/20/18 14:10		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	1.0	1.0	1		03/20/18 14:10		
Alkalinity, Total as CaCO3	**128**	mg/L	1.0	1.0	1		03/20/18 14:10		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**150**	mg/L	25.0	25.0	1		03/20/18 17:59		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**3.0**	mg/L	0.25	0.024	1		03/21/18 21:00	16887-00-6	
Fluoride	**0.084J**	mg/L	0.30	0.029	1		03/21/18 21:00	16984-48-8	
Sulfate	**8.5**	mg/L	1.0	0.017	1		03/21/18 21:00	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells 3+4
Pace Project No.: 262972

Sample: GWA-54 **Lab ID: 262972002** Collected: 03/13/18 10:25 Received: 03/16/18 16:00 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	03/20/18 09:19	03/20/18 21:26	7440-36-0	
Arsenic	**0.00066J**	mg/L	0.0050	0.00057	1	03/20/18 09:19	03/20/18 21:26	7440-38-2	
Barium	**0.034**	mg/L	0.010	0.00078	1	03/20/18 09:19	03/20/18 21:26	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	03/20/18 09:19	03/20/18 21:26	7440-41-7	
Boron	**0.0053J**	mg/L	0.040	0.0039	1	03/20/18 09:19	03/20/18 21:26	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	03/20/18 09:19	03/20/18 21:26	7440-43-9	
Calcium	**24.3J**	mg/L	25.0	0.69	50	03/20/18 09:19	03/20/18 21:32	7440-70-2	D3
Chromium	ND	mg/L	0.010	0.0016	1	03/20/18 09:19	03/20/18 21:26	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	03/20/18 09:19	03/20/18 21:26	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	03/20/18 09:19	03/20/18 21:26	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	03/20/18 09:19	03/20/18 21:26	7439-92-1	
Magnesium	**14.3**	mg/L	2.5	0.31	50	03/20/18 09:19	03/20/18 21:32	7439-95-4	
Nickel	ND	mg/L	0.010	0.00095	1	03/20/18 09:19	03/20/18 21:26	7440-02-0	
Potassium	**0.90**	mg/L	0.10	0.035	1	03/20/18 09:19	03/20/18 21:26	7440-09-7	
Selenium	ND	mg/L	0.010	0.0014	1	03/20/18 09:19	03/20/18 21:26	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	03/20/18 09:19	03/20/18 21:26	7440-22-4	
Sodium	**3.3**	mg/L	0.10	0.015	1	03/20/18 09:19	03/20/18 21:26	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00014	1	03/20/18 09:19	03/20/18 21:26	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	03/20/18 09:19	03/20/18 21:26	7440-62-2	
Zinc	**0.0023J**	mg/L	0.010	0.0021	1	03/20/18 09:19	03/20/18 21:26	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	03/20/18 13:28	03/20/18 18:02	7439-97-6	
2320B Alkalinity Low Level	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**106**	mg/L	1.0	1.0	1		03/20/18 14:15		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	1.0	1.0	1		03/20/18 14:15		
Alkalinity, Total as CaCO3	**106**	mg/L	1.0	1.0	1		03/20/18 14:15		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**133**	mg/L	25.0	25.0	1		03/20/18 17:59		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**0.93**	mg/L	0.25	0.024	1		03/21/18 22:02	16887-00-6	
Fluoride	**0.054J**	mg/L	0.30	0.029	1		03/21/18 22:02	16984-48-8	
Sulfate	**4.9**	mg/L	1.0	0.017	1		03/21/18 22:02	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
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ANALYTICAL RESULTS

Project: Plant Bowen cells 3+4
Pace Project No.: 262972

Sample: GWA-51RZ **Lab ID: 262972003** Collected: 03/13/18 11:00 Received: 03/16/18 16:00 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	03/20/18 09:19	03/20/18 21:37	7440-36-0	
Arsenic	**0.0017J**	mg/L	0.0050	0.00057	1	03/20/18 09:19	03/20/18 21:37	7440-38-2	
Barium	**0.017**	mg/L	0.010	0.00078	1	03/20/18 09:19	03/20/18 21:37	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	03/20/18 09:19	03/20/18 21:37	7440-41-7	
Boron	**0.013J**	mg/L	0.040	0.0039	1	03/20/18 09:19	03/20/18 21:37	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	03/20/18 09:19	03/20/18 21:37	7440-43-9	
Calcium	**46.1**	mg/L	25.0	0.69	50	03/20/18 09:19	03/20/18 21:43	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	03/20/18 09:19	03/20/18 21:37	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	03/20/18 09:19	03/20/18 21:37	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	03/20/18 09:19	03/20/18 21:37	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	03/20/18 09:19	03/20/18 21:37	7439-92-1	
Magnesium	**22.5**	mg/L	2.5	0.31	50	03/20/18 09:19	03/20/18 21:43	7439-95-4	
Nickel	ND	mg/L	0.010	0.00095	1	03/20/18 09:19	03/20/18 21:37	7440-02-0	
Potassium	**1.1**	mg/L	0.10	0.035	1	03/20/18 09:19	03/20/18 21:37	7440-09-7	
Selenium	**0.0050J**	mg/L	0.010	0.0014	1	03/20/18 09:19	03/20/18 21:37	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	03/20/18 09:19	03/20/18 21:37	7440-22-4	
Sodium	**3.5**	mg/L	0.10	0.015	1	03/20/18 09:19	03/20/18 21:37	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00014	1	03/20/18 09:19	03/20/18 21:37	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	03/20/18 09:19	03/20/18 21:37	7440-62-2	
Zinc	ND	mg/L	0.010	0.0021	1	03/20/18 09:19	03/20/18 21:37	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	03/20/18 13:28	03/20/18 18:05	7439-97-6	
2320B Alkalinity Low Level	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**196**	mg/L	1.0	1.0	1		03/20/18 14:21		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	1.0	1.0	1		03/20/18 14:21		
Alkalinity, Total as CaCO3	**196**	mg/L	1.0	1.0	1		03/20/18 14:21		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**233**	mg/L	25.0	25.0	1		03/20/18 17:59		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**3.3**	mg/L	0.25	0.024	1		03/21/18 22:23	16887-00-6	
Fluoride	**0.16J**	mg/L	0.30	0.029	1		03/21/18 22:23	16984-48-8	
Sulfate	**27.3**	mg/L	5.0	0.085	5		03/23/18 13:24	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells 3+4
Pace Project No.: 262972

Sample: GWA-38 **Lab ID: 262972004** Collected: 03/13/18 11:20 Received: 03/16/18 16:00 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	03/20/18 09:19	03/20/18 21:49	7440-36-0	
Arsenic	**0.00061J**	mg/L	0.0050	0.00057	1	03/20/18 09:19	03/20/18 21:49	7440-38-2	
Barium	**0.011**	mg/L	0.010	0.00078	1	03/20/18 09:19	03/20/18 21:49	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	03/20/18 09:19	03/20/18 21:49	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	03/20/18 09:19	03/20/18 21:49	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	03/20/18 09:19	03/20/18 21:49	7440-43-9	
Calcium	**1.4**	mg/L	0.50	0.014	1	03/20/18 09:19	03/20/18 21:49	7440-70-2	
Chromium	**0.0017J**	mg/L	0.010	0.0016	1	03/20/18 09:19	03/20/18 21:49	7440-47-3	
Cobalt	**0.0013J**	mg/L	0.010	0.00052	1	03/20/18 09:19	03/20/18 21:49	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	03/20/18 09:19	03/20/18 21:49	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	03/20/18 09:19	03/20/18 21:49	7439-92-1	
Magnesium	**0.40**	mg/L	0.050	0.0062	1	03/20/18 09:19	03/20/18 21:49	7439-95-4	
Nickel	ND	mg/L	0.010	0.00095	1	03/20/18 09:19	03/20/18 21:49	7440-02-0	
Potassium	**0.41**	mg/L	0.10	0.035	1	03/20/18 09:19	03/20/18 21:49	7440-09-7	
Selenium	ND	mg/L	0.010	0.0014	1	03/20/18 09:19	03/20/18 21:49	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	03/20/18 09:19	03/20/18 21:49	7440-22-4	
Sodium	**4.7**	mg/L	0.10	0.015	1	03/20/18 09:19	03/20/18 21:49	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00014	1	03/20/18 09:19	03/20/18 21:49	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	03/20/18 09:19	03/20/18 21:49	7440-62-2	
Zinc	ND	mg/L	0.010	0.0021	1	03/20/18 09:19	03/20/18 21:49	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	03/20/18 13:28	03/20/18 18:12	7439-97-6	
2320B Alkalinity Low Level	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**8.5**	mg/L	1.0	1.0	1		03/20/18 14:38		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	1.0	1.0	1		03/20/18 14:38		
Alkalinity, Total as CaCO3	**8.5**	mg/L	1.0	1.0	1		03/20/18 14:38		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**33.0**	mg/L	25.0	25.0	1		03/20/18 17:59		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**2.4**	mg/L	0.25	0.024	1		03/21/18 22:44	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		03/21/18 22:44	16984-48-8	
Sulfate	**1.5**	mg/L	1.0	0.017	1		03/21/18 22:44	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells 3+4
Pace Project No.: 262972

Sample: GWA-53R **Lab ID: 262972005** Collected: 03/13/18 13:00 Received: 03/16/18 16:00 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	**0.0034**	mg/L	0.0030	0.00078	1	03/20/18 09:19	03/20/18 22:00	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	03/20/18 09:19	03/20/18 22:00	7440-38-2	
Barium	**0.015**	mg/L	0.010	0.00078	1	03/20/18 09:19	03/20/18 22:00	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	03/20/18 09:19	03/20/18 22:00	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	03/20/18 09:19	03/20/18 22:00	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	03/20/18 09:19	03/20/18 22:00	7440-43-9	
Calcium	**29.3**	mg/L	25.0	0.69	50	03/20/18 09:19	03/20/18 22:06	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	03/20/18 09:19	03/20/18 22:00	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	03/20/18 09:19	03/20/18 22:00	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	03/20/18 09:19	03/20/18 22:00	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	03/20/18 09:19	03/20/18 22:00	7439-92-1	
Magnesium	**16.9**	mg/L	2.5	0.31	50	03/20/18 09:19	03/20/18 22:06	7439-95-4	
Nickel	ND	mg/L	0.010	0.00095	1	03/20/18 09:19	03/20/18 22:00	7440-02-0	
Potassium	**0.70**	mg/L	0.10	0.035	1	03/20/18 09:19	03/20/18 22:00	7440-09-7	
Selenium	ND	mg/L	0.010	0.0014	1	03/20/18 09:19	03/20/18 22:00	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	03/20/18 09:19	03/20/18 22:00	7440-22-4	
Sodium	**1.5**	mg/L	0.10	0.015	1	03/20/18 09:19	03/20/18 22:00	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00014	1	03/20/18 09:19	03/20/18 22:00	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	03/20/18 09:19	03/20/18 22:00	7440-62-2	
Zinc	ND	mg/L	0.010	0.0021	1	03/20/18 09:19	03/20/18 22:00	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	03/20/18 13:28	03/20/18 18:14	7439-97-6	
2320B Alkalinity Low Level	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**134**	mg/L	1.0	1.0	1		03/20/18 14:44		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	1.0	1.0	1		03/20/18 14:44		
Alkalinity, Total as CaCO3	**134**	mg/L	1.0	1.0	1		03/20/18 14:44		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**132**	mg/L	25.0	25.0	1		03/20/18 17:59		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**2.6**	mg/L	0.25	0.024	1		03/21/18 23:04	16887-00-6	
Fluoride	**0.032J**	mg/L	0.30	0.029	1		03/21/18 23:04	16984-48-8	
Sulfate	**1.9**	mg/L	1.0	0.017	1		03/21/18 23:04	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells 3+4
Pace Project No.: 262972

Sample: GWC-25R **Lab ID: 262972006** Collected: 03/13/18 13:20 Received: 03/16/18 16:00 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	**0.00093J**	mg/L	0.0030	0.00078	1	03/20/18 09:19	03/20/18 22:12	7440-36-0	
Arsenic	**0.00073J**	mg/L	0.0050	0.00057	1	03/20/18 09:19	03/20/18 22:12	7440-38-2	
Barium	**0.015**	mg/L	0.010	0.00078	1	03/20/18 09:19	03/20/18 22:12	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	03/20/18 09:19	03/20/18 22:12	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	03/20/18 09:19	03/20/18 22:12	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	03/20/18 09:19	03/20/18 22:12	7440-43-9	
Calcium	**33.3**	mg/L	25.0	0.69	50	03/20/18 09:19	03/20/18 22:17	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	03/20/18 09:19	03/20/18 22:12	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	03/20/18 09:19	03/20/18 22:12	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	03/20/18 09:19	03/20/18 22:12	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	03/20/18 09:19	03/20/18 22:12	7439-92-1	
Nickel	ND	mg/L	0.010	0.00095	1	03/20/18 09:19	03/20/18 22:12	7440-02-0	
Selenium	ND	mg/L	0.010	0.0014	1	03/20/18 09:19	03/20/18 22:12	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	03/20/18 09:19	03/20/18 22:12	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	03/20/18 09:19	03/20/18 22:12	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	03/20/18 09:19	03/20/18 22:12	7440-62-2	
Zinc	ND	mg/L	0.010	0.0021	1	03/20/18 09:19	03/20/18 22:12	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	03/20/18 13:28	03/20/18 18:17	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**153**	mg/L	25.0	25.0	1		03/20/18 17:59		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**2.7**	mg/L	0.25	0.024	1		03/21/18 23:25	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		03/21/18 23:25	16984-48-8	
Sulfate	**1.7**	mg/L	1.0	0.017	1		03/21/18 23:25	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells 3+4
Pace Project No.: 262972

Sample: GWC-24R **Lab ID: 262972007** Collected: 03/13/18 13:33 Received: 03/16/18 16:00 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	**0.0016J**	mg/L	0.0030	0.00078	1	03/20/18 09:19	03/20/18 22:35	7440-36-0	
Arsenic	**0.0015J**	mg/L	0.0050	0.00057	1	03/20/18 09:19	03/20/18 22:35	7440-38-2	
Barium	**0.031**	mg/L	0.010	0.00078	1	03/20/18 09:19	03/20/18 22:35	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	03/20/18 09:19	03/20/18 22:35	7440-41-7	
Boron	**0.0042J**	mg/L	0.040	0.0039	1	03/20/18 09:19	03/20/18 22:35	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	03/20/18 09:19	03/20/18 22:35	7440-43-9	
Calcium	**30.8**	mg/L	25.0	0.69	50	03/20/18 09:19	03/20/18 22:40	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	03/20/18 09:19	03/20/18 22:35	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	03/20/18 09:19	03/20/18 22:35	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	03/20/18 09:19	03/20/18 22:35	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	03/20/18 09:19	03/20/18 22:35	7439-92-1	
Nickel	ND	mg/L	0.010	0.00095	1	03/20/18 09:19	03/20/18 22:35	7440-02-0	
Selenium	ND	mg/L	0.010	0.0014	1	03/20/18 09:19	03/20/18 22:35	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	03/20/18 09:19	03/20/18 22:35	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	03/20/18 09:19	03/20/18 22:35	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	03/20/18 09:19	03/20/18 22:35	7440-62-2	
Zinc	**0.0068J**	mg/L	0.010	0.0021	1	03/20/18 09:19	03/20/18 22:35	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	03/20/18 13:28	03/20/18 18:19	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**153**	mg/L	25.0	25.0	1		03/20/18 17:59		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	ND	mg/L	0.25	0.024	1		03/21/18 23:46	16887-00-6	
Fluoride	**0.091J**	mg/L	0.30	0.029	1		03/21/18 23:46	16984-48-8	
Sulfate	**1.4**	mg/L	1.0	0.017	1		03/21/18 23:46	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells 3+4
Pace Project No.: 262972

Sample: GWA-53 **Lab ID: 262972008** Collected: 03/13/18 15:10 Received: 03/16/18 16:00 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	03/20/18 09:19	03/20/18 22:46	7440-36-0	
Arsenic	**0.00058J**	mg/L	0.0050	0.00057	1	03/20/18 09:19	03/20/18 22:46	7440-38-2	
Barium	**0.013**	mg/L	0.010	0.00078	1	03/20/18 09:19	03/20/18 22:46	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	03/20/18 09:19	03/20/18 22:46	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	03/20/18 09:19	03/20/18 22:46	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	03/20/18 09:19	03/20/18 22:46	7440-43-9	
Calcium	**28.6**	mg/L	25.0	0.69	50	03/20/18 09:19	03/20/18 22:52	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	03/20/18 09:19	03/20/18 22:46	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	03/20/18 09:19	03/20/18 22:46	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	03/20/18 09:19	03/20/18 22:46	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	03/20/18 09:19	03/20/18 22:46	7439-92-1	
Magnesium	**17.1**	mg/L	2.5	0.31	50	03/20/18 09:19	03/20/18 22:52	7439-95-4	
Nickel	ND	mg/L	0.010	0.00095	1	03/20/18 09:19	03/20/18 22:46	7440-02-0	
Potassium	**0.68**	mg/L	0.10	0.035	1	03/20/18 09:19	03/20/18 22:46	7440-09-7	
Selenium	ND	mg/L	0.010	0.0014	1	03/20/18 09:19	03/20/18 22:46	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	03/20/18 09:19	03/20/18 22:46	7440-22-4	
Sodium	**1.5**	mg/L	0.10	0.015	1	03/20/18 09:19	03/20/18 22:46	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00014	1	03/20/18 09:19	03/20/18 22:46	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	03/20/18 09:19	03/20/18 22:46	7440-62-2	
Zinc	**0.0021J**	mg/L	0.010	0.0021	1	03/20/18 09:19	03/20/18 22:46	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	03/20/18 13:28	03/20/18 18:22	7439-97-6	
2320B Alkalinity Low Level	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**136**	mg/L	1.0	1.0	1		03/20/18 14:50		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	1.0	1.0	1		03/20/18 14:50		
Alkalinity, Total as CaCO3	**136**	mg/L	1.0	1.0	1		03/20/18 14:50		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**138**	mg/L	25.0	25.0	1		03/20/18 17:59		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**2.7**	mg/L	0.25	0.024	1		03/22/18 00:06	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		03/22/18 00:06	16984-48-8	
Sulfate	**1.9**	mg/L	1.0	0.017	1		03/22/18 00:06	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells 3+4
Pace Project No.: 262972

Sample: Dup-1 **Lab ID: 262972009** Collected: 03/13/18 00:00 Received: 03/16/18 16:00 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	03/20/18 09:19	03/20/18 22:57	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	03/20/18 09:19	03/20/18 22:57	7440-38-2	
Barium	**0.038**	mg/L	0.010	0.00078	1	03/20/18 09:19	03/20/18 22:57	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	03/20/18 09:19	03/20/18 22:57	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	03/20/18 09:19	03/20/18 22:57	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	03/20/18 09:19	03/20/18 22:57	7440-43-9	
Calcium	**25.6**	mg/L	25.0	0.69	50	03/20/18 09:19	03/20/18 23:03	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	03/20/18 09:19	03/20/18 22:57	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	03/20/18 09:19	03/20/18 22:57	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	03/20/18 09:19	03/20/18 22:57	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	03/20/18 09:19	03/20/18 22:57	7439-92-1	
Magnesium	**15.3**	mg/L	2.5	0.31	50	03/20/18 09:19	03/20/18 23:03	7439-95-4	
Nickel	ND	mg/L	0.010	0.00095	1	03/20/18 09:19	03/20/18 22:57	7440-02-0	
Potassium	**0.99**	mg/L	0.10	0.035	1	03/20/18 09:19	03/20/18 22:57	7440-09-7	
Selenium	ND	mg/L	0.010	0.0014	1	03/20/18 09:19	03/20/18 22:57	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	03/20/18 09:19	03/20/18 22:57	7440-22-4	
Sodium	**3.6**	mg/L	0.10	0.015	1	03/20/18 09:19	03/20/18 22:57	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00014	1	03/20/18 09:19	03/20/18 22:57	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	03/20/18 09:19	03/20/18 22:57	7440-62-2	
Zinc	ND	mg/L	0.010	0.0021	1	03/20/18 09:19	03/20/18 22:57	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	03/20/18 13:28	03/20/18 18:24	7439-97-6	
2320B Alkalinity Low Level	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**128**	mg/L	1.0	1.0	1		03/20/18 14:55		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	1.0	1.0	1		03/20/18 14:55		
Alkalinity, Total as CaCO3	**128**	mg/L	1.0	1.0	1		03/20/18 14:55		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**121**	mg/L	25.0	25.0	1		03/21/18 20:48		H1
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**0.93**	mg/L	0.25	0.024	1		03/22/18 01:49	16887-00-6	
Fluoride	**0.15J**	mg/L	0.30	0.029	1		03/22/18 01:49	16984-48-8	
Sulfate	**4.9**	mg/L	1.0	0.017	1		03/22/18 01:49	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells 3+4
Pace Project No.: 262972

Sample: GWA-56 **Lab ID: 262972010** Collected: 03/13/18 12:00 Received: 03/16/18 16:00 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	03/20/18 09:19	03/20/18 23:09	7440-36-0	
Arsenic	**0.00088J**	mg/L	0.0050	0.00057	1	03/20/18 09:19	03/20/18 23:09	7440-38-2	
Barium	**0.031**	mg/L	0.010	0.00078	1	03/20/18 09:19	03/20/18 23:09	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	03/20/18 09:19	03/20/18 23:09	7440-41-7	
Boron	**0.024J**	mg/L	0.040	0.0039	1	03/20/18 09:19	03/20/18 23:09	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	03/20/18 09:19	03/20/18 23:09	7440-43-9	
Calcium	**26.0**	mg/L	25.0	0.69	50	03/20/18 09:19	03/20/18 23:14	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	03/20/18 09:19	03/20/18 23:09	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	03/20/18 09:19	03/20/18 23:09	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	03/20/18 09:19	03/20/18 23:09	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	03/20/18 09:19	03/20/18 23:09	7439-92-1	
Magnesium	**21.1**	mg/L	2.5	0.31	50	03/20/18 09:19	03/20/18 23:14	7439-95-4	
Nickel	ND	mg/L	0.010	0.00095	1	03/20/18 09:19	03/20/18 23:09	7440-02-0	
Potassium	**2.2**	mg/L	0.10	0.035	1	03/20/18 09:19	03/20/18 23:09	7440-09-7	
Selenium	ND	mg/L	0.010	0.0014	1	03/20/18 09:19	03/20/18 23:09	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	03/20/18 09:19	03/20/18 23:09	7440-22-4	
Sodium	**72.8**	mg/L	5.0	0.75	50	03/20/18 09:19	03/20/18 23:14	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00014	1	03/20/18 09:19	03/20/18 23:09	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	03/20/18 09:19	03/20/18 23:09	7440-62-2	
Zinc	**0.0029J**	mg/L	0.010	0.0021	1	03/20/18 09:19	03/20/18 23:09	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	03/20/18 13:28	03/20/18 18:26	7439-97-6	
2320B Alkalinity Low Level	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**207**	mg/L	1.0	1.0	1		03/20/18 15:02		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	1.0	1.0	1		03/20/18 15:02		
Alkalinity, Total as CaCO3	**207**	mg/L	1.0	1.0	1		03/20/18 15:02		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**349**	mg/L	25.0	25.0	1		03/20/18 17:59		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**6.9**	mg/L	0.25	0.024	1		03/22/18 02:10	16887-00-6	
Fluoride	**0.40**	mg/L	0.30	0.029	1		03/22/18 02:10	16984-48-8	
Sulfate	**94.8**	mg/L	10.0	0.17	10		03/23/18 13:46	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells 3+4
Pace Project No.: 262972

Sample: GWC-22R **Lab ID: 262972011** Collected: 03/13/18 16:15 Received: 03/16/18 16:00 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	03/20/18 09:19	03/20/18 23:20	7440-36-0	
Arsenic	**0.00087J**	mg/L	0.0050	0.00057	1	03/20/18 09:19	03/20/18 23:20	7440-38-2	
Barium	**0.028**	mg/L	0.010	0.00078	1	03/20/18 09:19	03/20/18 23:20	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	03/20/18 09:19	03/20/18 23:20	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	03/20/18 09:19	03/20/18 23:20	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	03/20/18 09:19	03/20/18 23:20	7440-43-9	
Calcium	**32.1**	mg/L	25.0	0.69	50	03/20/18 09:19	03/20/18 23:26	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	03/20/18 09:19	03/20/18 23:20	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	03/20/18 09:19	03/20/18 23:20	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	03/20/18 09:19	03/20/18 23:20	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	03/20/18 09:19	03/20/18 23:20	7439-92-1	
Magnesium	**18.7**	mg/L	2.5	0.31	50	03/20/18 09:19	03/20/18 23:26	7439-95-4	
Nickel	ND	mg/L	0.010	0.00095	1	03/20/18 09:19	03/20/18 23:20	7440-02-0	
Potassium	**0.88**	mg/L	0.10	0.035	1	03/20/18 09:19	03/20/18 23:20	7440-09-7	
Selenium	ND	mg/L	0.010	0.0014	1	03/20/18 09:19	03/20/18 23:20	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	03/20/18 09:19	03/20/18 23:20	7440-22-4	
Sodium	**1.7**	mg/L	0.10	0.015	1	03/20/18 09:19	03/20/18 23:20	7440-23-5	
Thallium	**0.00017J**	mg/L	0.0010	0.00014	1	03/20/18 09:19	03/20/18 23:20	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	03/20/18 09:19	03/20/18 23:20	7440-62-2	
Zinc	ND	mg/L	0.010	0.0021	1	03/20/18 09:19	03/20/18 23:20	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	03/20/18 13:28	03/20/18 18:29	7439-97-6	
2320B Alkalinity Low Level	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**159**	mg/L	1.0	1.0	1		03/20/18 15:08		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	1.0	1.0	1		03/20/18 15:08		
Alkalinity, Total as CaCO3	**159**	mg/L	1.0	1.0	1		03/20/18 15:08		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**159**	mg/L	25.0	25.0	1		03/20/18 17:59		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**2.8**	mg/L	0.25	0.024	1		03/22/18 02:51	16887-00-6	
Fluoride	**0.046J**	mg/L	0.30	0.029	1		03/22/18 02:51	16984-48-8	
Sulfate	**2.4**	mg/L	1.0	0.017	1		03/22/18 02:51	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells 3+4
Pace Project No.: 262972

Sample: Dup-2 **Lab ID: 262972012** Collected: 03/13/18 00:00 Received: 03/16/18 16:00 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	03/20/18 09:19	03/20/18 23:43	7440-36-0	
Arsenic	**0.00081J**	mg/L	0.0050	0.00057	1	03/20/18 09:19	03/20/18 23:43	7440-38-2	
Barium	**0.027**	mg/L	0.010	0.00078	1	03/20/18 09:19	03/20/18 23:43	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	03/20/18 09:19	03/20/18 23:43	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	03/20/18 09:19	03/20/18 23:43	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	03/20/18 09:19	03/20/18 23:43	7440-43-9	
Calcium	**32.4**	mg/L	25.0	0.69	50	03/20/18 09:19	03/20/18 23:49	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	03/20/18 09:19	03/20/18 23:43	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	03/20/18 09:19	03/20/18 23:43	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	03/20/18 09:19	03/20/18 23:43	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	03/20/18 09:19	03/20/18 23:43	7439-92-1	
Magnesium	**19.0**	mg/L	2.5	0.31	50	03/20/18 09:19	03/20/18 23:49	7439-95-4	
Nickel	ND	mg/L	0.010	0.00095	1	03/20/18 09:19	03/20/18 23:43	7440-02-0	
Potassium	**0.87**	mg/L	0.10	0.035	1	03/20/18 09:19	03/20/18 23:43	7440-09-7	
Selenium	ND	mg/L	0.010	0.0014	1	03/20/18 09:19	03/20/18 23:43	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	03/20/18 09:19	03/20/18 23:43	7440-22-4	
Sodium	**1.7**	mg/L	0.10	0.015	1	03/20/18 09:19	03/20/18 23:43	7440-23-5	
Thallium	**0.00017J**	mg/L	0.0010	0.00014	1	03/20/18 09:19	03/20/18 23:43	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	03/20/18 09:19	03/20/18 23:43	7440-62-2	
Zinc	ND	mg/L	0.010	0.0021	1	03/20/18 09:19	03/20/18 23:43	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	03/20/18 13:28	03/20/18 18:31	7439-97-6	
2320B Alkalinity Low Level	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**158**	mg/L	1.0	1.0	1		03/20/18 15:14		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	1.0	1.0	1		03/20/18 15:14		
Alkalinity, Total as CaCO3	**158**	mg/L	1.0	1.0	1		03/20/18 15:14		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**161**	mg/L	25.0	25.0	1		03/20/18 17:59		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**2.8**	mg/L	0.25	0.024	1		03/22/18 03:12	16887-00-6	
Fluoride	**0.051J**	mg/L	0.30	0.029	1		03/22/18 03:12	16984-48-8	
Sulfate	**2.4**	mg/L	1.0	0.017	1		03/22/18 03:12	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells 3+4
Pace Project No.: 262972

Sample: FBL031318 **Lab ID: 262972013** Collected: 03/13/18 16:06 Received: 03/16/18 16:00 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	03/20/18 09:19	03/20/18 23:54	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	03/20/18 09:19	03/20/18 23:54	7440-38-2	
Barium	ND	mg/L	0.010	0.00078	1	03/20/18 09:19	03/20/18 23:54	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	03/20/18 09:19	03/20/18 23:54	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	03/20/18 09:19	03/20/18 23:54	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	03/20/18 09:19	03/20/18 23:54	7440-43-9	
Calcium	**0.022J**	mg/L	0.50	0.014	1	03/20/18 09:19	03/20/18 23:54	7440-70-2	B
Chromium	ND	mg/L	0.010	0.0016	1	03/20/18 09:19	03/20/18 23:54	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	03/20/18 09:19	03/20/18 23:54	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	03/20/18 09:19	03/20/18 23:54	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	03/20/18 09:19	03/20/18 23:54	7439-92-1	
Magnesium	ND	mg/L	0.050	0.0062	1	03/20/18 09:19	03/20/18 23:54	7439-95-4	
Nickel	ND	mg/L	0.010	0.00095	1	03/20/18 09:19	03/20/18 23:54	7440-02-0	
Potassium	ND	mg/L	0.10	0.035	1	03/20/18 09:19	03/20/18 23:54	7440-09-7	
Selenium	ND	mg/L	0.010	0.0014	1	03/20/18 09:19	03/20/18 23:54	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	03/20/18 09:19	03/20/18 23:54	7440-22-4	
Sodium	ND	mg/L	0.10	0.015	1	03/20/18 09:19	03/20/18 23:54	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00014	1	03/20/18 09:19	03/20/18 23:54	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	03/20/18 09:19	03/20/18 23:54	7440-62-2	
Zinc	ND	mg/L	0.010	0.0021	1	03/20/18 09:19	03/20/18 23:54	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	03/20/18 13:28	03/20/18 18:33	7439-97-6	
2320B Alkalinity Low Level	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	1.0	1.0	1		03/20/18 15:17		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	1.0	1.0	1		03/20/18 15:17		
Alkalinity, Total as CaCO3	ND	mg/L	1.0	1.0	1		03/20/18 15:17		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		03/20/18 17:59		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	ND	mg/L	0.25	0.024	1		03/22/18 03:33	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		03/22/18 03:33	16984-48-8	
Sulfate	ND	mg/L	1.0	0.017	1		03/22/18 03:33	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells 3+4
Pace Project No.: 262972

Sample: EQBL031318 **Lab ID: 262972014** Collected: 03/13/18 16:11 Received: 03/16/18 16:00 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	03/20/18 09:19	03/21/18 00:00	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	03/20/18 09:19	03/21/18 00:00	7440-38-2	
Barium	ND	mg/L	0.010	0.00078	1	03/20/18 09:19	03/21/18 00:00	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	03/20/18 09:19	03/21/18 00:00	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	03/20/18 09:19	03/21/18 00:00	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	03/20/18 09:19	03/21/18 00:00	7440-43-9	
Calcium	**0.039J**	mg/L	0.50	0.014	1	03/20/18 09:19	03/21/18 00:00	7440-70-2	B
Chromium	ND	mg/L	0.010	0.0016	1	03/20/18 09:19	03/21/18 00:00	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	03/20/18 09:19	03/21/18 00:00	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	03/20/18 09:19	03/21/18 00:00	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	03/20/18 09:19	03/21/18 00:00	7439-92-1	
Magnesium	ND	mg/L	0.050	0.0062	1	03/20/18 09:19	03/21/18 00:00	7439-95-4	
Nickel	ND	mg/L	0.010	0.00095	1	03/20/18 09:19	03/21/18 00:00	7440-02-0	
Potassium	ND	mg/L	0.10	0.035	1	03/20/18 09:19	03/21/18 00:00	7440-09-7	
Selenium	ND	mg/L	0.010	0.0014	1	03/20/18 09:19	03/21/18 00:00	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	03/20/18 09:19	03/21/18 00:00	7440-22-4	
Sodium	ND	mg/L	0.10	0.015	1	03/20/18 09:19	03/21/18 00:00	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00014	1	03/20/18 09:19	03/21/18 00:00	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	03/20/18 09:19	03/21/18 00:00	7440-62-2	
Zinc	ND	mg/L	0.010	0.0021	1	03/20/18 09:19	03/21/18 00:00	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	03/20/18 13:28	03/20/18 18:40	7439-97-6	
2320B Alkalinity Low Level	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	1.0	1.0	1		03/20/18 15:19		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	1.0	1.0	1		03/20/18 15:19		
Alkalinity, Total as CaCO3	ND	mg/L	1.0	1.0	1		03/20/18 15:19		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		03/20/18 17:59		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	ND	mg/L	0.25	0.024	1		03/22/18 03:53	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		03/22/18 03:53	16984-48-8	
Sulfate	ND	mg/L	1.0	0.017	1		03/22/18 03:53	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells 3+4
Pace Project No.: 262972

QC Batch: 2820 Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
Associated Lab Samples: 262972001, 262972002, 262972003, 262972004, 262972005, 262972006, 262972007, 262972008, 262972009, 262972010, 262972011, 262972012, 262972013, 262972014

METHOD BLANK: 14731 Matrix: Water
Associated Lab Samples: 262972001, 262972002, 262972003, 262972004, 262972005, 262972006, 262972007, 262972008, 262972009, 262972010, 262972011, 262972012, 262972013, 262972014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00050	0.000036	03/20/18 17:46	

LABORATORY CONTROL SAMPLE: 14732

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	.0025	0.0025	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 14733 14734

Parameter	Units	262979001 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	.0025	.0025	0.0026	0.0024	103	98	75-125	5	20	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells 3+4
Pace Project No.: 262972

QC Batch: 2814 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020B MET
Associated Lab Samples: 262972001, 262972002, 262972003, 262972004, 262972005, 262972006, 262972007, 262972008, 262972009, 262972010, 262972011, 262972012, 262972013, 262972014

METHOD BLANK: 14716 Matrix: Water
Associated Lab Samples: 262972001, 262972002, 262972003, 262972004, 262972005, 262972006, 262972007, 262972008, 262972009, 262972010, 262972011, 262972012, 262972013, 262972014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	03/20/18 20:23	
Arsenic	mg/L	ND	0.0050	0.00057	03/20/18 20:23	
Barium	mg/L	ND	0.010	0.00078	03/20/18 20:23	
Beryllium	mg/L	ND	0.0030	0.000050	03/20/18 20:23	
Boron	mg/L	ND	0.040	0.0039	03/20/18 20:23	
Cadmium	mg/L	ND	0.0010	0.000093	03/20/18 20:23	
Calcium	mg/L	0.047J	0.50	0.014	03/20/18 20:23	
Chromium	mg/L	ND	0.010	0.0016	03/20/18 20:23	
Cobalt	mg/L	ND	0.010	0.00052	03/20/18 20:23	
Copper	mg/L	ND	0.025	0.0013	03/20/18 20:23	
Lead	mg/L	ND	0.0050	0.00027	03/20/18 20:23	
Magnesium	mg/L	0.021J	0.050	0.0062	03/20/18 20:23	
Nickel	mg/L	ND	0.010	0.00095	03/20/18 20:23	
Potassium	mg/L	ND	0.10	0.035	03/20/18 20:23	
Selenium	mg/L	ND	0.010	0.0014	03/20/18 20:23	
Silver	mg/L	ND	0.010	0.00095	03/20/18 20:23	
Sodium	mg/L	ND	0.10	0.015	03/20/18 20:23	
Thallium	mg/L	ND	0.0010	0.00014	03/20/18 20:23	
Vanadium	mg/L	ND	0.010	0.0019	03/20/18 20:23	
Zinc	mg/L	ND	0.010	0.0021	03/20/18 20:23	

LABORATORY CONTROL SAMPLE: 14717

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	.1	0.11	110	80-120	
Arsenic	mg/L	.1	0.10	103	80-120	
Barium	mg/L	.1	0.10	103	80-120	
Beryllium	mg/L	.1	0.11	108	80-120	
Boron	mg/L	1	1.1	108	80-120	
Cadmium	mg/L	.1	0.10	105	80-120	
Calcium	mg/L	1	1.1	106	80-120	
Chromium	mg/L	.1	0.10	103	80-120	
Cobalt	mg/L	.1	0.10	100	80-120	
Copper	mg/L	.1	0.10	100	80-120	
Lead	mg/L	.1	0.10	102	80-120	
Magnesium	mg/L	1	1.1	105	80-120	
Nickel	mg/L	.1	0.10	100	80-120	
Potassium	mg/L	1	1.1	108	80-120	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells 3+4
Pace Project No.: 262972

LABORATORY CONTROL SAMPLE: 14717

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Selenium	mg/L	.1	0.10	103	80-120	
Silver	mg/L	.1	0.091	91	80-120	
Sodium	mg/L	1	1.0	103	80-120	
Thallium	mg/L	.1	0.10	102	80-120	
Vanadium	mg/L	.1	0.10	105	80-120	
Zinc	mg/L	.1	0.11	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 14718 14719

Parameter	Units	262972001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	.1	.1	0.11	0.11	109	108	75-125	1	20	
Arsenic	mg/L	0.00063J	.1	.1	0.11	0.10	107	104	75-125	3	20	
Barium	mg/L	0.020	.1	.1	0.12	0.12	102	100	75-125	2	20	
Beryllium	mg/L	ND	.1	.1	0.11	0.10	105	105	75-125	0	20	
Boron	mg/L	0.0084J	1	1	1.0	1.1	101	104	75-125	4	20	
Cadmium	mg/L	ND	.1	.1	0.11	0.10	105	104	75-125	2	20	
Calcium	mg/L	26.2	1	1	27.4	28.6	122	240	75-125	4	20	M6
Chromium	mg/L	ND	.1	.1	0.11	0.10	105	103	75-125	2	20	
Cobalt	mg/L	ND	.1	.1	0.10	0.099	103	99	75-125	4	20	
Copper	mg/L	ND	.1	.1	0.10	0.10	101	101	75-125	0	20	
Lead	mg/L	ND	.1	.1	0.10	0.10	102	104	75-125	2	20	
Magnesium	mg/L	15.0	1	1	15.9	16.5	88	157	75-125	4	20	
Nickel	mg/L	ND	.1	.1	0.10	0.10	102	101	75-125	1	20	
Potassium	mg/L	0.96	1	1	2.0	2.0	104	109	75-125	2	20	
Selenium	mg/L	ND	.1	.1	0.11	0.10	106	102	75-125	4	20	
Silver	mg/L	ND	.1	.1	0.089	0.091	89	91	75-125	2	20	
Sodium	mg/L	3.7	1	1	4.7	4.7	102	108	75-125	1	20	
Thallium	mg/L	ND	.1	.1	0.10	0.10	104	103	75-125	1	20	
Vanadium	mg/L	ND	.1	.1	0.11	0.11	108	106	75-125	2	20	
Zinc	mg/L	ND	.1	.1	0.11	0.11	105	106	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells 3+4
Pace Project No.: 262972

QC Batch: 2834 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity, Low Level
Associated Lab Samples: 262972001, 262972002, 262972003, 262972004, 262972005, 262972008, 262972009, 262972010, 262972011, 262972012, 262972013, 262972014

METHOD BLANK: 14788 Matrix: Water
Associated Lab Samples: 262972001, 262972002, 262972003, 262972004, 262972005, 262972008, 262972009, 262972010, 262972011, 262972012, 262972013, 262972014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	1.0	1.0	03/20/18 13:24	

LABORATORY CONTROL SAMPLE: 14789

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	49.0	98	85-115	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells 3+4
Pace Project No.: 262972

QC Batch: 402758 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 262972001, 262972002, 262972003, 262972004, 262972005, 262972006, 262972007, 262972008

METHOD BLANK: 2234046 Matrix: Water
Associated Lab Samples: 262972001, 262972002, 262972003, 262972004, 262972005, 262972006, 262972007, 262972008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	03/20/18 17:59	

LABORATORY CONTROL SAMPLE: 2234047

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	252	101	90-110	

SAMPLE DUPLICATE: 2234048

Parameter	Units	262825001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	278	277	0	5	

SAMPLE DUPLICATE: 2234049

Parameter	Units	262898013 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	616	604	2	5	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells 3+4
Pace Project No.: 262972

QC Batch: 402759 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 262972010, 262972011, 262972012, 262972013, 262972014

METHOD BLANK: 2234054 Matrix: Water
Associated Lab Samples: 262972010, 262972011, 262972012, 262972013, 262972014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	03/20/18 17:59	

LABORATORY CONTROL SAMPLE: 2234055

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	242	97	90-110	

SAMPLE DUPLICATE: 2234056

Parameter	Units	262972010 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	349	342	2	5	

SAMPLE DUPLICATE: 2234057

Parameter	Units	92376801001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	498	522	5	5	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells 3+4
Pace Project No.: 262972

QC Batch: 402812 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 262972009

METHOD BLANK: 2234528 Matrix: Water
Associated Lab Samples: 262972009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	03/21/18 20:48	

LABORATORY CONTROL SAMPLE: 2234529

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	244	98	90-110	

SAMPLE DUPLICATE: 2234530

Parameter	Units	262972009 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	121	120	1	5	H1

SAMPLE DUPLICATE: 2234531

Parameter	Units	262975001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	123	126	3	5	

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REPORT OF LABORATORY ANALYSIS

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Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells 3+4
Pace Project No.: 262972

QC Batch: 2912 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 262972001, 262972002, 262972003, 262972004, 262972005, 262972006, 262972007, 262972008, 262972009, 262972010, 262972011, 262972012, 262972013, 262972014

METHOD BLANK: 15172 Matrix: Water
Associated Lab Samples: 262972001, 262972002, 262972003, 262972004, 262972005, 262972006, 262972007, 262972008, 262972009, 262972010, 262972011, 262972012, 262972013, 262972014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	0.024	03/21/18 19:38	
Fluoride	mg/L	ND	0.30	0.029	03/21/18 19:38	
Sulfate	mg/L	ND	1.0	0.017	03/21/18 19:38	

LABORATORY CONTROL SAMPLE: 15173

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	10	10.2	102	90-110	
Fluoride	mg/L	10	9.8	98	90-110	
Sulfate	mg/L	10	10.2	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 15174 15175

Parameter	Units	262972001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	3.0	10	10	12.7	12.7	97	97	90-110	0	15	
Fluoride	mg/L	0.084J	10	10	9.8	9.8	97	97	90-110	0	15	
Sulfate	mg/L	8.5	10	10	18.1	18.1	96	96	90-110	0	15	

MATRIX SPIKE SAMPLE: 15176

Parameter	Units	262972002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	0.93	10	11.2	103	90-110	
Fluoride	mg/L	0.054J	10	10.1	100	90-110	
Sulfate	mg/L	4.9	10	15.0	101	90-110	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(770)734-4200

QUALIFIERS

Project: Plant Bowen cells 3+4
Pace Project No.: 262972

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.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-A	Pace Analytical Services - Asheville
PASI-GA	Pace Analytical Services - Atlanta, GA

ANALYTE QUALIFIERS

B	Analyte was detected in the associated method blank.
D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
H1	Analysis conducted outside the EPA method holding time.
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.

Pace Analytical Services, LLC
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(770)734-4200

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Bowen cells 3+4
Pace Project No.: 262972

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
262972001	GWA-52	EPA 3005A	2814	EPA 6020B	2881
262972002	GWA-54	EPA 3005A	2814	EPA 6020B	2881
262972003	GWA-51RZ	EPA 3005A	2814	EPA 6020B	2881
262972004	GWA-38	EPA 3005A	2814	EPA 6020B	2881
262972005	GWA-53R	EPA 3005A	2814	EPA 6020B	2881
262972006	GWC-25R	EPA 3005A	2814	EPA 6020B	2881
262972007	GWC-24R	EPA 3005A	2814	EPA 6020B	2881
262972008	GWA-53	EPA 3005A	2814	EPA 6020B	2881
262972009	Dup-1	EPA 3005A	2814	EPA 6020B	2881
262972010	GWA-56	EPA 3005A	2814	EPA 6020B	2881
262972011	GWC-22R	EPA 3005A	2814	EPA 6020B	2881
262972012	Dup-2	EPA 3005A	2814	EPA 6020B	2881
262972013	FBL031318	EPA 3005A	2814	EPA 6020B	2881
262972014	EQBL031318	EPA 3005A	2814	EPA 6020B	2881
262972001	GWA-52	EPA 7470A	2820	EPA 7470A	2876
262972002	GWA-54	EPA 7470A	2820	EPA 7470A	2876
262972003	GWA-51RZ	EPA 7470A	2820	EPA 7470A	2876
262972004	GWA-38	EPA 7470A	2820	EPA 7470A	2876
262972005	GWA-53R	EPA 7470A	2820	EPA 7470A	2876
262972006	GWC-25R	EPA 7470A	2820	EPA 7470A	2876
262972007	GWC-24R	EPA 7470A	2820	EPA 7470A	2876
262972008	GWA-53	EPA 7470A	2820	EPA 7470A	2876
262972009	Dup-1	EPA 7470A	2820	EPA 7470A	2876
262972010	GWA-56	EPA 7470A	2820	EPA 7470A	2876
262972011	GWC-22R	EPA 7470A	2820	EPA 7470A	2876
262972012	Dup-2	EPA 7470A	2820	EPA 7470A	2876
262972013	FBL031318	EPA 7470A	2820	EPA 7470A	2876
262972014	EQBL031318	EPA 7470A	2820	EPA 7470A	2876
262972001	GWA-52	SM 2320B	2834		
262972002	GWA-54	SM 2320B	2834		
262972003	GWA-51RZ	SM 2320B	2834		
262972004	GWA-38	SM 2320B	2834		
262972005	GWA-53R	SM 2320B	2834		
262972008	GWA-53	SM 2320B	2834		
262972009	Dup-1	SM 2320B	2834		
262972010	GWA-56	SM 2320B	2834		
262972011	GWC-22R	SM 2320B	2834		
262972012	Dup-2	SM 2320B	2834		
262972013	FBL031318	SM 2320B	2834		
262972014	EQBL031318	SM 2320B	2834		
262972001	GWA-52	SM 2540C	402758		
262972002	GWA-54	SM 2540C	402758		
262972003	GWA-51RZ	SM 2540C	402758		
262972004	GWA-38	SM 2540C	402758		
262972005	GWA-53R	SM 2540C	402758		
262972006	GWC-25R	SM 2540C	402758		
262972007	GWC-24R	SM 2540C	402758		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Bowen cells 3+4
Pace Project No.: 262972

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
262972008	**GWA-53**	SM 2540C	402758		
262972009	**Dup-1**	SM 2540C	402812		
262972010	**GWA-56**	SM 2540C	402759		
262972011	**GWC-22R**	SM 2540C	402759		
262972012	**Dup-2**	SM 2540C	402759		
262972013	**FBL031318**	SM 2540C	402759		
262972014	**EQBL031318**	SM 2540C	402759		
262972001	**GWA-52**	EPA 300.0	2912		
262972002	**GWA-54**	EPA 300.0	2912		
262972003	**GWA-51RZ**	EPA 300.0	2912		
262972004	**GWA-38**	EPA 300.0	2912		
262972005	**GWA-53R**	EPA 300.0	2912		
262972006	**GWC-25R**	EPA 300.0	2912		
262972007	**GWC-24R**	EPA 300.0	2912		
262972008	**GWA-53**	EPA 300.0	2912		
262972009	**Dup-1**	EPA 300.0	2912		
262972010	**GWA-56**	EPA 300.0	2912		
262972011	**GWC-22R**	EPA 300.0	2912		
262972012	**Dup-2**	EPA 300.0	2912		
262972013	**FBL031318**	EPA 300.0	2912		
262972014	**EQBL031318**	EPA 300.0	2912		

CHAIN OF CUSTODY RECORD

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

PAGE: 1 OF 2

CLIENT NAME: Southern Company Services
CLIENT ADDRESS/PHONE NUMBER/FAX NUMBER: 241 Ralph McGill Blvd SE B10185 Atlanta, GA 30308
REPORT TO: Jojin Abraham
CC: Maria Padilla
REQUESTED COMPLETION DATE:
PO #: GPC 10684198
PROJECT NAME/STATE: Plant Boen-Cells 3&4 CCR + Boenstak GW
PROJECT #:

ANALYSIS REQUESTED

Collection DATE	Collection TIME	MATRIX CODE*	COMP	GRAB	SAMPLE IDENTIFICATION	# of CONTAINERS	Metals Ag, III EPA 6020 (P 3)	Boenstak GW EPA 6020, EPA 7470 (P 3)	Cl, F SO4 EPA 300 TDS SM2540C (P 7)	Mg, Na K EPA 6020 (P 3)	CO3, HCO3 SM2320B (P 7)	LAB ID NUMBER
3/13/18	1030	GW			GWA-52	2	X	X	X	X	X	
3/13/18	1025	GW			GWA-54	2	X	X	X	X	X	
3/13/18	1100	GW			GWA-51R2	2	X	X	X	X	X	
3/13/18	1120	GW			GWA-38	2	X	X	X	X	X	
3/13/18	1300	GW			GWA-53R	2	X	X	X	X	X	
3/13/18	1320	GW			GWC-25R	2	X	X	X			
3/13/18	1333	GW			GWC-24R	2	X	X	X			
3/13/18	1510	GW			GWA-53	2	X	X	X	X	X	
3/13/18	—	GW			DUP-1	2	X	X	X	X	X	
3/13/18	1200	GW			GWA-56	2	X	X	X	X	X	
3/13/18	1615	GW			GWC-22R	2	X	X	X	X	X	
3/13/18	—	GW			DUP-2	2	X	X	X	X	X	

CONTAINER TYPE: P - PLASTIC; A - AMBER GLASS; G - CLEAR GLASS; V - VOA VIAL; S - STERILE; O - OTHER
PRESERVATION: 1 - HCl, ≤6°C; 2 - H_2SO_4, ≤6°C; 3 - HNO_3; 4 - NaOH, ≤6°C; 5 - NaOH/ZnAc, ≤6°C; 6 - $Na_2S_2O_3$, ≤6°C; 7 - ≤6°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

WO#: 262972
262972

SAMPLED BY AND TITLE: Robert Mill/Kevin Steckel/Brad Steckel/Mike Nguyen/Adam Fish	DATE/TIME: 3/13/18 1653	RELINQUISHED BY: Mandi	DATE/TIME: 3/16/2018 10:19
RECEIVED BY: Kevin Steckel Robert Mill/Kevin Steckel/Brad Steckel/Mike Nguyen/Adam Fish	DATE/TIME: 3/15/18 1619	RELINQUISHED BY: Mike Nguyen	DATE/TIME: 3/16/18 1019
RECEIVED BY LAB: MZahman	DATE/TIME: 03/16/18 1600	SAMPLE SHIPPED VIA: UPS FED-EX USPS COURIER CLIENT OTHER FS Pace	
pH Checked: Yes No NA	Ice: Yes No NA	Temperature: Min: 0.2 Max:	Custody Seal: Intact Broken Not Present
# of Coolers	Cooler ID:		

FOR LAB USE ONLY
LAB #:
Entered into LIMS:
Tracking #:

CHAIN OF CUSTODY RECORD

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PAGE: 2 OF 2

CLIENT NAME: Southern Company Services

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

REPORT TO: Jain Abraham
CC: Maria Padilla

REQUESTED COMPLETION DATE:
PO #: CPC 106811 98

PROJECT NAME/STATE: Plant Bowen-Cells 3&4 CCR & Bowen Stak GW

PROJECT #:

ANALYSIS REQUESTED

Collection DATE	Collection TIME	MATRIX CODE*	COMP	GRAB	SAMPLE IDENTIFICATION	# of CONTAINERS	Metals, All. III EPA 6020	Bowen Stak GW EPA 6020 & EPA 7470	Cl, F, SO4 EPA 300 TDS SM2540C	Mg, Na, K EPA 6020	Ca, Mg, HNO3 SM3030E				LAB ID NUMBER
CONTAINER TYPE:							P	P	P	P	P				
PRESERVATION:							3	3	7	3	7				
3/13/18	1606	W		X	FBL 031318	2	X	X	X	X	X				
3/13/18	1611	W		X	EQBL 031318	2	X	X	X	X	X				

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

PRESERVATION
1 - HCl, ≤6°C
2 - H_2SO_4, ≤6°C
3 - HNO_3
4 - NaOH, ≤6°C
5 - NaOH/ZnAc, ≤6°C
6 - $Na_2S_2O_3$, ≤6°C
7 - ≤6°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

SAMPLED BY AND TITLE: Robert Hill/Kevin Stephens/Brian Steele/Richard Peterson/Hadley Peters
DATE/TIME: 3/13/18 1653

RELINQUISHED BY: Cindy Marden
DATE/TIME: 3/16/2018 10:19

RECEIVED BY: Mike Nguyen
DATE/TIME: 3/16/18 1019

RELINQUISHED BY:
DATE/TIME:

RECEIVED BY/LAB: Malman
DATE/TIME: 03/16/18 1600

SAMPLE SHIPPED VIA: UPS FED-EX USPS COURIER (Pace) CLIENT OTHER FS

pH checked: Yes No NA
Temp: Yes No NA
Temperature: Min: 0.2 Max:
Custody Seal: Intact Broken Not Present
# of Coolers:
Cooler ID:

FOR LAB USE ONLY
LAB #:
Entered into LIMS:
Tracking #:

Sample Condition Upon Receipt

Pace Analytical

Client Name: GA Power Project #:

WO#: 262972

PM: BM Due Date: 03/23/18

CLIENT: GAPower-CCR

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace ☐ Other

Tracking #:

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

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 Comments:

Date and Initials of person examining contents: 3/16/18 MP

Chain of Custody Present:	☑Yes	☐No	☐N/A	1.	
Chain of Custody Filled Out:	☑Yes	☐No	☐N/A	2.	
Chain of Custody Relinquished:	☑Yes	☐No	☐N/A	3.	
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.	
Samples Arrived within Hold Time:	☑Yes	☐No	☐N/A	5.	
Short Hold Time Analysis (<72hr):	☐Yes	☑No	☐N/A	6.	
Rush Turn Around Time Requested:	☐Yes	☑No	☐N/A	7.	
Sufficient Volume:	☑Yes	☐No	☐N/A	8.	
Correct Containers Used:	☑Yes	☐No	☐N/A	9.	
-Pace Containers Used:	☑Yes	☐No	☐N/A		
Containers Intact:	☑Yes	☐No	☐N/A	10.	
Filtered volume received for Dissolved tests	☐Yes	☐No	☑N/A	11.	
Sample Labels match COC:	☑Yes	☐No	☐N/A	12.	
-Includes date/time/ID/Analysis Matrix: GW					
All containers needing preservation have been checked.	☑Yes	☐No	☐N/A	13.	
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes	☐No	☐N/A		
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes	☑No		Initial when completed	Lot # of added preservative
Samples checked for dechlorination:	☐Yes	☐No	☑N/A	14.	
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☑N/A	15.	
Trip Blank Present:	☐Yes	☐No	☑N/A	16.	
Trip Blank Custody Seals Present	☐Yes	☐No	☑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).

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

May 16, 2018

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

RE: Project: Plant Bowen cells 3+4
Pace Project No.: 262977

Dear Joju Abraham:
Enclosed are the analytical results for sample(s) received by the laboratory on March 16, 2018. 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.

REV05082018_report revised to correct MDL / J-flag settings.

REV05162018_report revised to set reporting limits in accordance with project scope.

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: Maria Padilla, Georgia Power
Greg Wrenn, Wood PLC

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

CERTIFICATIONS

Project: Plant Bowen cells 3+4
Pace Project No.: 262977

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
Texas Certification #: T104704397-08-TX
Virginia Certification #: 460204

Asheville Certification IDs

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE SUMMARY

Project: Plant Bowen cells 3+4
Pace Project No.: 262977

Lab ID	Sample ID	Matrix	Date Collected	Date Received
262977001	**GWC-19R**	Water	03/14/18 09:50	03/16/18 16:00
262977002	**GWC-17R**	Water	03/14/18 10:25	03/16/18 16:00
262977003	**GWC-16R**	Water	03/14/18 10:50	03/16/18 16:00
262977004	**GWC-21R**	Water	03/14/18 10:51	03/16/18 16:00
262977005	**GWC-20R**	Water	03/14/18 11:02	03/16/18 16:00
262977006	**GWC-23R**	Water	03/14/18 11:30	03/16/18 16:00
262977007	**Dup-3**	Water	03/14/18 00:00	03/16/18 16:00
262977008	**FBL031418**	Water	03/14/18 15:38	03/16/18 16:00
262977009	**EQBL031418**	Water	03/14/18 15:40	03/16/18 16:00
262977010	**FBL2031418**	Water	03/14/18 15:48	03/16/18 16:00
262977011	**EQBL2031418**	Water	03/14/18 15:50	03/16/18 16:00
262977012	**GWC-18R**	Water	03/14/18 10:40	03/16/18 16:00
262977013	**GWC-18**	Water	03/14/18 17:00	03/16/18 16:00

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE ANALYTE COUNT

Project: Plant Bowen cells 3+4
Pace Project No.: 262977

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
262977001	**GWC-19R**	EPA 6020B	CSW	17	PASI-GA
		EPA 7470A	MTC	1	PASI-GA
		SM 2540C	EJJ	1	PASI-A
		EPA 300.0	RLC	3	PASI-GA
262977002	**GWC-17R**	EPA 6020B	CSW	20	PASI-GA
		EPA 7470A	MTC	1	PASI-GA
		SM 2320B	JAD	3	PASI-GA
		SM 2540C	EJJ	1	PASI-A
		EPA 300.0	RLC	3	PASI-GA
262977003	**GWC-16R**	EPA 6020B	CSW	20	PASI-GA
		EPA 7470A	MTC	1	PASI-GA
		SM 2320B	JAD	3	PASI-GA
		SM 2540C	EJJ	1	PASI-A
		EPA 300.0	RLC	3	PASI-GA
262977004	**GWC-21R**	EPA 6020B	CSW	20	PASI-GA
		EPA 7470A	MTC	1	PASI-GA
		SM 2320B	JAD	3	PASI-GA
		SM 2540C	EJJ	1	PASI-A
		EPA 300.0	RLC	3	PASI-GA
262977005	**GWC-20R**	EPA 6020B	CSW	17	PASI-GA
		EPA 7470A	MTC	1	PASI-GA
		SM 2540C	MVC	1	PASI-A
		EPA 300.0	RLC	3	PASI-GA
262977006	**GWC-23R**	EPA 6020B	CSW	20	PASI-GA
		EPA 7470A	MTC	1	PASI-GA
		SM 2320B	JAD	3	PASI-GA
		SM 2540C	MVC	1	PASI-A
		EPA 300.0	RLC	3	PASI-GA
262977007	**Dup-3**	EPA 6020B	CSW	17	PASI-GA
		EPA 7470A	MTC	1	PASI-GA
		SM 2540C	MVC	1	PASI-A
		EPA 300.0	RLC	3	PASI-GA
262977008	**FBL031418**	EPA 6020B	CSW	20	PASI-GA
		EPA 7470A	MTC	1	PASI-GA
		SM 2320B	JAD	3	PASI-GA
		SM 2540C	MVC	1	PASI-A
		EPA 300.0	RLC	3	PASI-GA

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE ANALYTE COUNT

Project: Plant Bowen cells 3+4
Pace Project No.: 262977

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
262977009	**EQBL031418**	EPA 6020B	CSW	20	PASI-GA
		EPA 7470A	MTC	1	PASI-GA
		SM 2320B	JAD	3	PASI-GA
		SM 2540C	MVC	1	PASI-A
		EPA 300.0	RLC	3	PASI-GA
262977010	**FBL2031418**	EPA 6020B	CSW	20	PASI-GA
		EPA 7470A	MTC	1	PASI-GA
		SM 2320B	JAD	3	PASI-GA
		SM 2540C	MVC	1	PASI-A
		EPA 300.0	RLC	3	PASI-GA
262977011	**EQBL2031418**	EPA 6020B	CSW	20	PASI-GA
		EPA 7470A	MTC	1	PASI-GA
		SM 2320B	JAD	3	PASI-GA
		SM 2540C	MVC	1	PASI-A
		EPA 300.0	RLC	3	PASI-GA
262977012	**GWC-18R**	EPA 6020B	CSW	17	PASI-GA
		EPA 7470A	MTC	1	PASI-GA
		SM 2540C	MVC	1	PASI-A
		EPA 300.0	RLC	3	PASI-GA
262977013	**GWC-18**	EPA 6020B	CSW	17	PASI-GA
		EPA 7470A	MTC	1	PASI-GA
		SM 2540C	MVC	1	PASI-A
		EPA 300.0	RLC	3	PASI-GA

Pace Analytical Services, LLC
110 Technology Parkway
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(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells 3+4
Pace Project No.: 262977

Sample: GWC-19R **Lab ID: 262977001** Collected: 03/14/18 09:50 Received: 03/16/18 16:00 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	03/20/18 13:18	03/22/18 15:01	7440-36-0	
Arsenic	**0.00076J**	mg/L	0.0050	0.00057	1	03/20/18 13:18	03/22/18 15:01	7440-38-2	
Barium	**0.016**	mg/L	0.010	0.00078	1	03/20/18 13:18	03/22/18 15:01	7440-39-3	
Beryllium	**0.000065J**	mg/L	0.0030	0.000050	1	03/20/18 13:18	03/22/18 15:01	7440-41-7	
Boron	**0.0076J**	mg/L	0.040	0.0039	1	03/20/18 13:18	03/22/18 15:01	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	03/20/18 13:18	03/22/18 15:01	7440-43-9	
Calcium	**30.7**	mg/L	25.0	0.69	50	03/20/18 13:18	03/22/18 15:07	7440-70-2	M6
Chromium	ND	mg/L	0.010	0.0016	1	03/20/18 13:18	03/22/18 15:01	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	03/20/18 13:18	03/22/18 15:01	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	03/20/18 13:18	03/22/18 15:01	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	03/20/18 13:18	03/22/18 15:01	7439-92-1	
Nickel	ND	mg/L	0.010	0.00095	1	03/20/18 13:18	03/22/18 15:01	7440-02-0	
Selenium	ND	mg/L	0.010	0.0014	1	03/20/18 13:18	03/22/18 15:01	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	03/20/18 13:18	03/22/18 15:01	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	03/20/18 13:18	03/22/18 15:01	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	03/20/18 13:18	03/22/18 15:01	7440-62-2	
Zinc	ND	mg/L	0.010	0.0021	1	03/20/18 13:18	03/22/18 15:01	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	03/20/18 17:20	03/21/18 11:57	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**156**	mg/L	25.0	25.0	1		03/20/18 17:42		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**2.2**	mg/L	0.25	0.024	1		03/23/18 05:26	16887-00-6	
Fluoride	**0.045J**	mg/L	0.30	0.029	1		03/23/18 05:26	16984-48-8	
Sulfate	**3.4**	mg/L	1.0	0.017	1		03/23/18 05:26	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells 3+4
Pace Project No.: 262977

Sample: GWC-17R **Lab ID: 262977002** Collected: 03/14/18 10:25 Received: 03/16/18 16:00 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	03/20/18 13:18	03/22/18 15:58	7440-36-0	
Arsenic	**0.00092J**	mg/L	0.0050	0.00057	1	03/20/18 13:18	03/22/18 15:58	7440-38-2	
Barium	**0.020**	mg/L	0.010	0.00078	1	03/20/18 13:18	03/22/18 15:58	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	03/20/18 13:18	03/22/18 15:58	7440-41-7	
Boron	**0.0051J**	mg/L	0.040	0.0039	1	03/20/18 13:18	03/22/18 15:58	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	03/20/18 13:18	03/22/18 15:58	7440-43-9	
Calcium	**65.6**	mg/L	25.0	0.69	50	03/20/18 13:18	03/22/18 16:04	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	03/20/18 13:18	03/22/18 15:58	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	03/20/18 13:18	03/22/18 15:58	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	03/20/18 13:18	03/22/18 15:58	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	03/20/18 13:18	03/22/18 15:58	7439-92-1	
Magnesium	**38.9**	mg/L	2.5	0.31	50	03/20/18 13:18	03/22/18 16:04	7439-95-4	
Nickel	ND	mg/L	0.010	0.00095	1	03/20/18 13:18	03/22/18 15:58	7440-02-0	
Potassium	**0.73**	mg/L	0.10	0.035	1	03/20/18 13:18	03/22/18 15:58	7440-09-7	
Selenium	ND	mg/L	0.010	0.0014	1	03/20/18 13:18	03/22/18 15:58	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	03/20/18 13:18	03/22/18 15:58	7440-22-4	
Sodium	**2.5**	mg/L	0.10	0.015	1	03/20/18 13:18	03/22/18 15:58	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00014	1	03/20/18 13:18	03/22/18 15:58	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	03/20/18 13:18	03/22/18 15:58	7440-62-2	
Zinc	**0.0021J**	mg/L	0.010	0.0021	1	03/20/18 13:18	03/22/18 15:58	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	03/20/18 17:20	03/21/18 11:48	7439-97-6	
2320B Alkalinity Low Level	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**302**	mg/L	1.0	1.0	1		03/22/18 14:09		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	1.0	1.0	1		03/22/18 14:09		
Alkalinity, Total as CaCO3	**302**	mg/L	1.0	1.0	1		03/22/18 14:09		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**323**	mg/L	25.0	25.0	1		03/20/18 17:42		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**6.1**	mg/L	0.25	0.024	1		03/23/18 07:14	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		03/23/18 07:14	16984-48-8	
Sulfate	**7.0**	mg/L	1.0	0.017	1		03/23/18 07:14	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells 3+4
Pace Project No.: 262977

Sample: GWC-16R **Lab ID: 262977003** Collected: 03/14/18 10:50 Received: 03/16/18 16:00 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	**0.015**	mg/L	0.0030	0.00078	1	03/20/18 13:18	03/22/18 16:09	7440-36-0	
Arsenic	**0.0013J**	mg/L	0.0050	0.00057	1	03/20/18 13:18	03/22/18 16:09	7440-38-2	
Barium	**0.036**	mg/L	0.010	0.00078	1	03/20/18 13:18	03/22/18 16:09	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	03/20/18 13:18	03/22/18 16:09	7440-41-7	
Boron	**0.0065J**	mg/L	0.040	0.0039	1	03/20/18 13:18	03/22/18 16:09	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	03/20/18 13:18	03/22/18 16:09	7440-43-9	
Calcium	**60.6**	mg/L	25.0	0.69	50	03/20/18 13:18	03/22/18 16:15	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	03/20/18 13:18	03/22/18 16:09	7440-47-3	
Cobalt	**0.00058J**	mg/L	0.010	0.00052	1	03/20/18 13:18	03/22/18 16:09	7440-48-4	
Copper	**0.0017J**	mg/L	0.025	0.0013	1	03/20/18 13:18	03/22/18 16:09	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	03/20/18 13:18	03/22/18 16:09	7439-92-1	
Magnesium	**35.8**	mg/L	2.5	0.31	50	03/20/18 13:18	03/22/18 16:15	7439-95-4	
Nickel	**0.0094J**	mg/L	0.010	0.00095	1	03/20/18 13:18	03/22/18 16:09	7440-02-0	
Potassium	**1.1**	mg/L	0.10	0.035	1	03/20/18 13:18	03/22/18 16:09	7440-09-7	
Selenium	ND	mg/L	0.010	0.0014	1	03/20/18 13:18	03/22/18 16:09	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	03/20/18 13:18	03/22/18 16:09	7440-22-4	
Sodium	**8.2**	mg/L	0.10	0.015	1	03/20/18 13:18	03/22/18 16:09	7440-23-5	
Thallium	**0.00018J**	mg/L	0.0010	0.00014	1	03/20/18 13:18	03/22/18 16:09	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	03/20/18 13:18	03/22/18 16:09	7440-62-2	
Zinc	**0.031**	mg/L	0.010	0.0021	1	03/20/18 13:18	03/22/18 16:09	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	03/20/18 17:20	03/21/18 12:00	7439-97-6	
2320B Alkalinity Low Level	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**314**	mg/L	1.0	1.0	1		03/22/18 13:17		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	1.0	1.0	1		03/22/18 13:17		
Alkalinity, Total as CaCO3	**314**	mg/L	1.0	1.0	1		03/22/18 13:17		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**312**	mg/L	25.0	25.0	1		03/20/18 17:42		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**2.1**	mg/L	0.25	0.024	1		03/23/18 07:36	16887-00-6	
Fluoride	**0.17J**	mg/L	0.30	0.029	1		03/23/18 07:36	16984-48-8	
Sulfate	**8.8**	mg/L	1.0	0.017	1		03/23/18 07:36	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells 3+4
Pace Project No.: 262977

Sample: GWC-21R **Lab ID: 262977004** Collected: 03/14/18 10:51 Received: 03/16/18 16:00 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	**0.0063**	mg/L	0.0030	0.00078	1	03/20/18 13:18	03/22/18 16:21	7440-36-0	
Arsenic	**0.0033J**	mg/L	0.0050	0.00057	1	03/20/18 13:18	03/22/18 16:21	7440-38-2	
Barium	**0.024**	mg/L	0.010	0.00078	1	03/20/18 13:18	03/22/18 16:21	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	03/20/18 13:18	03/22/18 16:21	7440-41-7	
Boron	**0.0053J**	mg/L	0.040	0.0039	1	03/20/18 13:18	03/22/18 16:21	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	03/20/18 13:18	03/22/18 16:21	7440-43-9	
Calcium	**65.6**	mg/L	25.0	0.69	50	03/20/18 13:18	03/22/18 16:27	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	03/20/18 13:18	03/22/18 16:21	7440-47-3	
Cobalt	**0.00083J**	mg/L	0.010	0.00052	1	03/20/18 13:18	03/22/18 16:21	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	03/20/18 13:18	03/22/18 16:21	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	03/20/18 13:18	03/22/18 16:21	7439-92-1	
Magnesium	**40.4**	mg/L	2.5	0.31	50	03/20/18 13:18	03/22/18 16:27	7439-95-4	
Nickel	**0.0014J**	mg/L	0.010	0.00095	1	03/20/18 13:18	03/22/18 16:21	7440-02-0	
Potassium	**1.1**	mg/L	0.10	0.035	1	03/20/18 13:18	03/22/18 16:21	7440-09-7	
Selenium	ND	mg/L	0.010	0.0014	1	03/20/18 13:18	03/22/18 16:21	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	03/20/18 13:18	03/22/18 16:21	7440-22-4	
Sodium	**1.5**	mg/L	0.10	0.015	1	03/20/18 13:18	03/22/18 16:21	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00014	1	03/20/18 13:18	03/22/18 16:21	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	03/20/18 13:18	03/22/18 16:21	7440-62-2	
Zinc	**0.0049J**	mg/L	0.010	0.0021	1	03/20/18 13:18	03/22/18 16:21	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	03/20/18 17:20	03/21/18 12:02	7439-97-6	
2320B Alkalinity Low Level	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**318**	mg/L	1.0	1.0	1		03/22/18 14:24		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	1.0	1.0	1		03/22/18 14:24		
Alkalinity, Total as CaCO3	**318**	mg/L	1.0	1.0	1		03/22/18 14:24		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**306**	mg/L	25.0	25.0	1		03/20/18 17:42		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**4.4**	mg/L	0.25	0.024	1		03/23/18 08:19	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		03/23/18 08:19	16984-48-8	
Sulfate	ND	mg/L	1.0	0.017	1		03/23/18 08:19	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells 3+4
Pace Project No.: 262977

Sample: GWC-20R **Lab ID: 262977005** Collected: 03/14/18 11:02 Received: 03/16/18 16:00 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	03/20/18 13:18	03/22/18 16:32	7440-36-0	
Arsenic	**0.0011J**	mg/L	0.0050	0.00057	1	03/20/18 13:18	03/22/18 16:32	7440-38-2	
Barium	**0.030**	mg/L	0.010	0.00078	1	03/20/18 13:18	03/22/18 16:32	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	03/20/18 13:18	03/22/18 16:32	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	03/20/18 13:18	03/22/18 16:32	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	03/20/18 13:18	03/22/18 16:32	7440-43-9	
Calcium	**35.9**	mg/L	25.0	0.69	50	03/20/18 13:18	03/22/18 16:38	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	03/20/18 13:18	03/22/18 16:32	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	03/20/18 13:18	03/22/18 16:32	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	03/20/18 13:18	03/22/18 16:32	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	03/20/18 13:18	03/22/18 16:32	7439-92-1	
Nickel	ND	mg/L	0.010	0.00095	1	03/20/18 13:18	03/22/18 16:32	7440-02-0	
Selenium	ND	mg/L	0.010	0.0014	1	03/20/18 13:18	03/22/18 16:32	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	03/20/18 13:18	03/22/18 16:32	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	03/20/18 13:18	03/22/18 16:32	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	03/20/18 13:18	03/22/18 16:32	7440-62-2	
Zinc	ND	mg/L	0.010	0.0021	1	03/20/18 13:18	03/22/18 16:32	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	03/20/18 17:20	03/21/18 12:09	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**167**	mg/L	25.0	25.0	1		03/21/18 20:48		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**2.0**	mg/L	0.25	0.024	1		03/23/18 08:41	16887-00-6	
Fluoride	**0.035J**	mg/L	0.30	0.029	1		03/23/18 08:41	16984-48-8	
Sulfate	**1.6**	mg/L	1.0	0.017	1		03/23/18 08:41	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells 3+4
Pace Project No.: 262977

Sample: GWC-23R **Lab ID: 262977006** Collected: 03/14/18 11:30 Received: 03/16/18 16:00 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	03/20/18 13:18	03/22/18 16:44	7440-36-0	
Arsenic	**0.0014J**	mg/L	0.0050	0.00057	1	03/20/18 13:18	03/22/18 16:44	7440-38-2	
Barium	**0.024**	mg/L	0.010	0.00078	1	03/20/18 13:18	03/22/18 16:44	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	03/20/18 13:18	03/22/18 16:44	7440-41-7	
Boron	**0.0056J**	mg/L	0.040	0.0039	1	03/20/18 13:18	03/22/18 16:44	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	03/20/18 13:18	03/22/18 16:44	7440-43-9	
Calcium	**59.9**	mg/L	25.0	0.69	50	03/20/18 13:18	03/22/18 16:49	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	03/20/18 13:18	03/22/18 16:44	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	03/20/18 13:18	03/22/18 16:44	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	03/20/18 13:18	03/22/18 16:44	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	03/20/18 13:18	03/22/18 16:44	7439-92-1	
Magnesium	**39.1**	mg/L	2.5	0.31	50	03/20/18 13:18	03/22/18 16:49	7439-95-4	
Nickel	ND	mg/L	0.010	0.00095	1	03/20/18 13:18	03/22/18 16:44	7440-02-0	
Potassium	**0.70**	mg/L	0.10	0.035	1	03/20/18 13:18	03/22/18 16:44	7440-09-7	
Selenium	ND	mg/L	0.010	0.0014	1	03/20/18 13:18	03/22/18 16:44	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	03/20/18 13:18	03/22/18 16:44	7440-22-4	
Sodium	**7.5**	mg/L	0.10	0.015	1	03/20/18 13:18	03/22/18 16:44	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00014	1	03/20/18 13:18	03/22/18 16:44	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	03/20/18 13:18	03/22/18 16:44	7440-62-2	
Zinc	ND	mg/L	0.010	0.0021	1	03/20/18 13:18	03/22/18 16:44	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	03/20/18 17:20	03/21/18 12:12	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**310**	mg/L	20.0	20.0	1		03/26/18 13:03		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	20.0	20.0	1		03/26/18 13:03		
Alkalinity, Total as CaCO3	**310**	mg/L	20.0	20.0	1		03/26/18 13:03		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**290**	mg/L	25.0	25.0	1		03/21/18 20:48		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**2.2**	mg/L	0.25	0.024	1		03/23/18 09:03	16887-00-6	
Fluoride	**0.18J**	mg/L	0.30	0.029	1		03/23/18 09:03	16984-48-8	
Sulfate	**14.0**	mg/L	1.0	0.017	1		03/23/18 09:03	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells 3+4
Pace Project No.: 262977

Sample: Dup-3 **Lab ID: 262977007** Collected: 03/14/18 00:00 Received: 03/16/18 16:00 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	03/20/18 13:18	03/22/18 17:10	7440-36-0	
Arsenic	**0.00099J**	mg/L	0.0050	0.00057	1	03/20/18 13:18	03/22/18 17:10	7440-38-2	
Barium	**0.029**	mg/L	0.010	0.00078	1	03/20/18 13:18	03/22/18 17:10	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	03/20/18 13:18	03/22/18 17:10	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	03/20/18 13:18	03/22/18 17:10	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	03/20/18 13:18	03/22/18 17:10	7440-43-9	
Calcium	**34.2**	mg/L	25.0	0.69	50	03/20/18 13:18	03/22/18 17:16	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	03/20/18 13:18	03/22/18 17:10	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	03/20/18 13:18	03/22/18 17:10	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	03/20/18 13:18	03/22/18 17:10	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	03/20/18 13:18	03/22/18 17:10	7439-92-1	
Nickel	ND	mg/L	0.010	0.00095	1	03/20/18 13:18	03/22/18 17:10	7440-02-0	
Selenium	ND	mg/L	0.010	0.0014	1	03/20/18 13:18	03/22/18 17:10	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	03/20/18 13:18	03/22/18 17:10	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	03/20/18 13:18	03/22/18 17:10	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	03/20/18 13:18	03/22/18 17:10	7440-62-2	
Zinc	ND	mg/L	0.010	0.0021	1	03/20/18 13:18	03/22/18 17:10	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	03/20/18 17:20	03/21/18 12:14	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**174**	mg/L	25.0	25.0	1		03/21/18 20:48		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**2.1**	mg/L	0.25	0.024	1		03/23/18 09:25	16887-00-6	
Fluoride	**0.049J**	mg/L	0.30	0.029	1		03/23/18 09:25	16984-48-8	
Sulfate	**1.6**	mg/L	1.0	0.017	1		03/23/18 09:25	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells 3+4
Pace Project No.: 262977

Sample: FBL031418 **Lab ID: 262977008** Collected: 03/14/18 15:38 Received: 03/16/18 16:00 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	03/20/18 13:18	03/22/18 17:22	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	03/20/18 13:18	03/22/18 17:22	7440-38-2	
Barium	ND	mg/L	0.010	0.00078	1	03/20/18 13:18	03/22/18 17:22	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	03/20/18 13:18	03/22/18 17:22	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	03/20/18 13:18	03/22/18 17:22	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	03/20/18 13:18	03/22/18 17:22	7440-43-9	
Calcium	**0.023J**	mg/L	0.50	0.014	1	03/20/18 13:18	03/22/18 17:22	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	03/20/18 13:18	03/22/18 17:22	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	03/20/18 13:18	03/22/18 17:22	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	03/20/18 13:18	03/22/18 17:22	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	03/20/18 13:18	03/22/18 17:22	7439-92-1	
Magnesium	ND	mg/L	0.050	0.0062	1	03/20/18 13:18	03/22/18 17:22	7439-95-4	
Nickel	ND	mg/L	0.010	0.00095	1	03/20/18 13:18	03/22/18 17:22	7440-02-0	
Potassium	ND	mg/L	0.10	0.035	1	03/20/18 13:18	03/22/18 17:22	7440-09-7	
Selenium	ND	mg/L	0.010	0.0014	1	03/20/18 13:18	03/22/18 17:22	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	03/20/18 13:18	03/22/18 17:22	7440-22-4	
Sodium	ND	mg/L	0.10	0.015	1	03/20/18 13:18	03/22/18 17:22	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00014	1	03/20/18 13:18	03/22/18 17:22	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	03/20/18 13:18	03/22/18 17:22	7440-62-2	
Zinc	ND	mg/L	0.010	0.0021	1	03/20/18 13:18	03/22/18 17:22	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	03/20/18 17:20	03/21/18 12:16	7439-97-6	
2320B Alkalinity Low Level	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	1.0	1.0	1		03/26/18 15:31		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	1.0	1.0	1		03/26/18 15:31		
Alkalinity, Total as CaCO3	ND	mg/L	1.0	1.0	1		03/26/18 15:31		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		03/21/18 20:48		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	ND	mg/L	0.25	0.024	1		03/23/18 09:46	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		03/23/18 09:46	16984-48-8	
Sulfate	ND	mg/L	1.0	0.017	1		03/23/18 09:46	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells 3+4
Pace Project No.: 262977

Sample: EQBL031418 **Lab ID: 262977009** Collected: 03/14/18 15:40 Received: 03/16/18 16:00 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	03/20/18 13:18	03/22/18 17:27	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	03/20/18 13:18	03/22/18 17:27	7440-38-2	
Barium	ND	mg/L	0.010	0.00078	1	03/20/18 13:18	03/22/18 17:27	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	03/20/18 13:18	03/22/18 17:27	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	03/20/18 13:18	03/22/18 17:27	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	03/20/18 13:18	03/22/18 17:27	7440-43-9	
Calcium	**0.032J**	mg/L	0.50	0.014	1	03/20/18 13:18	03/22/18 17:27	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	03/20/18 13:18	03/22/18 17:27	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	03/20/18 13:18	03/22/18 17:27	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	03/20/18 13:18	03/22/18 17:27	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	03/20/18 13:18	03/22/18 17:27	7439-92-1	
Magnesium	ND	mg/L	0.050	0.0062	1	03/20/18 13:18	03/22/18 17:27	7439-95-4	
Nickel	ND	mg/L	0.010	0.00095	1	03/20/18 13:18	03/22/18 17:27	7440-02-0	
Potassium	ND	mg/L	0.10	0.035	1	03/20/18 13:18	03/22/18 17:27	7440-09-7	
Selenium	ND	mg/L	0.010	0.0014	1	03/20/18 13:18	03/22/18 17:27	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	03/20/18 13:18	03/22/18 17:27	7440-22-4	
Sodium	ND	mg/L	0.10	0.015	1	03/20/18 13:18	03/22/18 17:27	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00014	1	03/20/18 13:18	03/22/18 17:27	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	03/20/18 13:18	03/22/18 17:27	7440-62-2	
Zinc	ND	mg/L	0.010	0.0021	1	03/20/18 13:18	03/22/18 17:27	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	03/20/18 17:20	03/21/18 12:19	7439-97-6	
2320B Alkalinity Low Level	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**1.0**	mg/L	1.0	1.0	1		03/22/18 14:32		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	1.0	1.0	1		03/22/18 14:32		
Alkalinity, Total as CaCO3	**1.0**	mg/L	1.0	1.0	1		03/22/18 14:32		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		03/21/18 20:48		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	ND	mg/L	0.25	0.024	1		03/23/18 10:08	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		03/23/18 10:08	16984-48-8	
Sulfate	ND	mg/L	1.0	0.017	1		03/23/18 10:08	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells 3+4
Pace Project No.: 262977

Sample: FBL2031418 **Lab ID: 262977010** Collected: 03/14/18 15:48 Received: 03/16/18 16:00 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	03/20/18 13:18	03/22/18 17:33	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	03/20/18 13:18	03/22/18 17:33	7440-38-2	
Barium	ND	mg/L	0.010	0.00078	1	03/20/18 13:18	03/22/18 17:33	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	03/20/18 13:18	03/22/18 17:33	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	03/20/18 13:18	03/22/18 17:33	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	03/20/18 13:18	03/22/18 17:33	7440-43-9	
Calcium	**0.025J**	mg/L	0.50	0.014	1	03/20/18 13:18	03/22/18 17:33	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	03/20/18 13:18	03/22/18 17:33	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	03/20/18 13:18	03/22/18 17:33	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	03/20/18 13:18	03/22/18 17:33	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	03/20/18 13:18	03/22/18 17:33	7439-92-1	
Magnesium	ND	mg/L	0.050	0.0062	1	03/20/18 13:18	03/22/18 17:33	7439-95-4	
Nickel	ND	mg/L	0.010	0.00095	1	03/20/18 13:18	03/22/18 17:33	7440-02-0	
Potassium	ND	mg/L	0.10	0.035	1	03/20/18 13:18	03/22/18 17:33	7440-09-7	
Selenium	ND	mg/L	0.010	0.0014	1	03/20/18 13:18	03/22/18 17:33	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	03/20/18 13:18	03/22/18 17:33	7440-22-4	
Sodium	ND	mg/L	0.10	0.015	1	03/20/18 13:18	03/22/18 17:33	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00014	1	03/20/18 13:18	03/22/18 17:33	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	03/20/18 13:18	03/22/18 17:33	7440-62-2	
Zinc	ND	mg/L	0.010	0.0021	1	03/20/18 13:18	03/22/18 17:33	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	03/20/18 17:20	03/21/18 12:21	7439-97-6	
2320B Alkalinity Low Level	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	1.0	1.0	1		03/22/18 14:35		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	1.0	1.0	1		03/22/18 14:35		
Alkalinity, Total as CaCO3	ND	mg/L	1.0	1.0	1		03/22/18 14:35		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		03/21/18 20:48		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**0.033J**	mg/L	0.25	0.024	1		03/23/18 10:30	16887-00-6	B
Fluoride	ND	mg/L	0.30	0.029	1		03/23/18 10:30	16984-48-8	
Sulfate	ND	mg/L	1.0	0.017	1		03/23/18 10:30	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells 3+4
Pace Project No.: 262977

Sample: EQBL2031418 **Lab ID: 262977011** Collected: 03/14/18 15:50 Received: 03/16/18 16:00 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	03/20/18 13:18	03/22/18 17:39	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	03/20/18 13:18	03/22/18 17:39	7440-38-2	
Barium	ND	mg/L	0.010	0.00078	1	03/20/18 13:18	03/22/18 17:39	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	03/20/18 13:18	03/22/18 17:39	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	03/20/18 13:18	03/22/18 17:39	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	03/20/18 13:18	03/22/18 17:39	7440-43-9	
Calcium	**0.021J**	mg/L	0.50	0.014	1	03/20/18 13:18	03/22/18 17:39	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	03/20/18 13:18	03/22/18 17:39	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	03/20/18 13:18	03/22/18 17:39	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	03/20/18 13:18	03/22/18 17:39	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	03/20/18 13:18	03/22/18 17:39	7439-92-1	
Magnesium	ND	mg/L	0.050	0.0062	1	03/20/18 13:18	03/22/18 17:39	7439-95-4	
Nickel	ND	mg/L	0.010	0.00095	1	03/20/18 13:18	03/22/18 17:39	7440-02-0	
Potassium	ND	mg/L	0.10	0.035	1	03/20/18 13:18	03/22/18 17:39	7440-09-7	
Selenium	ND	mg/L	0.010	0.0014	1	03/20/18 13:18	03/22/18 17:39	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	03/20/18 13:18	03/22/18 17:39	7440-22-4	
Sodium	ND	mg/L	0.10	0.015	1	03/20/18 13:18	03/22/18 17:39	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00014	1	03/20/18 13:18	03/22/18 17:39	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	03/20/18 13:18	03/22/18 17:39	7440-62-2	
Zinc	ND	mg/L	0.010	0.0021	1	03/20/18 13:18	03/22/18 17:39	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	03/20/18 17:20	03/21/18 12:24	7439-97-6	
2320B Alkalinity Low Level	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	1.0	1.0	1		03/22/18 14:38		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	1.0	1.0	1		03/22/18 14:38		
Alkalinity, Total as CaCO3	ND	mg/L	1.0	1.0	1		03/22/18 14:38		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		03/21/18 20:48		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	ND	mg/L	0.25	0.024	1		03/23/18 12:19	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		03/23/18 12:19	16984-48-8	
Sulfate	ND	mg/L	1.0	0.017	1		03/23/18 12:19	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells 3+4
Pace Project No.: 262977

Sample: GWC-18R **Lab ID: 262977012** Collected: 03/14/18 10:40 Received: 03/16/18 16:00 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	03/20/18 13:18	03/22/18 17:45	7440-36-0	
Arsenic	**0.00057J**	mg/L	0.0050	0.00057	1	03/20/18 13:18	03/22/18 17:45	7440-38-2	
Barium	**0.014**	mg/L	0.010	0.00078	1	03/20/18 13:18	03/22/18 17:45	7440-39-3	
Beryllium	**0.00011J**	mg/L	0.0030	0.000050	1	03/20/18 13:18	03/22/18 17:45	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	03/20/18 13:18	03/22/18 17:45	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	03/20/18 13:18	03/22/18 17:45	7440-43-9	
Calcium	**27.6**	mg/L	25.0	0.69	50	03/20/18 13:18	03/22/18 17:50	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	03/20/18 13:18	03/22/18 17:45	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	03/20/18 13:18	03/22/18 17:45	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	03/20/18 13:18	03/22/18 17:45	7440-50-8	
Lead	**0.00035J**	mg/L	0.0050	0.00027	1	03/20/18 13:18	03/22/18 17:45	7439-92-1	
Nickel	ND	mg/L	0.010	0.00095	1	03/20/18 13:18	03/22/18 17:45	7440-02-0	
Selenium	ND	mg/L	0.010	0.0014	1	03/20/18 13:18	03/22/18 17:45	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	03/20/18 13:18	03/22/18 17:45	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	03/20/18 13:18	03/22/18 17:45	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	03/20/18 13:18	03/22/18 17:45	7440-62-2	
Zinc	ND	mg/L	0.010	0.0021	1	03/20/18 13:18	03/22/18 17:45	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	03/20/18 17:20	03/21/18 12:26	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**139**	mg/L	25.0	25.0	1		03/21/18 20:48		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**2.2**	mg/L	0.25	0.024	1		03/23/18 12:40	16887-00-6	
Fluoride	**0.12J**	mg/L	0.30	0.029	1		03/23/18 12:40	16984-48-8	
Sulfate	**2.2**	mg/L	1.0	0.017	1		03/23/18 12:40	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells 3+4
Pace Project No.: 262977

Sample: GWC-18 **Lab ID: 262977013** Collected: 03/14/18 17:00 Received: 03/16/18 16:00 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	03/20/18 13:18	03/22/18 17:56	7440-36-0	
Arsenic	**0.00091J**	mg/L	0.0050	0.00057	1	03/20/18 13:18	03/22/18 17:56	7440-38-2	
Barium	**0.025**	mg/L	0.010	0.00078	1	03/20/18 13:18	03/22/18 17:56	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	03/20/18 13:18	03/22/18 17:56	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	03/20/18 13:18	03/22/18 17:56	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	03/20/18 13:18	03/22/18 17:56	7440-43-9	
Calcium	**23.4J**	mg/L	25.0	0.69	50	03/20/18 13:18	03/22/18 18:02	7440-70-2	D3
Chromium	**0.0021J**	mg/L	0.010	0.0016	1	03/20/18 13:18	03/22/18 17:56	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	03/20/18 13:18	03/22/18 17:56	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	03/20/18 13:18	03/22/18 17:56	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	03/20/18 13:18	03/22/18 17:56	7439-92-1	
Nickel	ND	mg/L	0.010	0.00095	1	03/20/18 13:18	03/22/18 17:56	7440-02-0	
Selenium	ND	mg/L	0.010	0.0014	1	03/20/18 13:18	03/22/18 17:56	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	03/20/18 13:18	03/22/18 17:56	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	03/20/18 13:18	03/22/18 17:56	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	03/20/18 13:18	03/22/18 17:56	7440-62-2	
Zinc	**0.0036J**	mg/L	0.010	0.0021	1	03/20/18 13:18	03/22/18 17:56	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	03/20/18 17:20	03/21/18 12:28	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**115**	mg/L	25.0	25.0	1		03/21/18 20:48		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**2.1**	mg/L	0.25	0.024	1		03/23/18 13:02	16887-00-6	
Fluoride	**0.12J**	mg/L	0.30	0.029	1		03/23/18 13:02	16984-48-8	
Sulfate	**2.2**	mg/L	1.0	0.017	1		03/23/18 13:02	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells 3+4
Pace Project No.: 262977

QC Batch: 2864 Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
Associated Lab Samples: 262977001, 262977002, 262977003, 262977004, 262977005, 262977006, 262977007, 262977008, 262977009, 262977010, 262977011, 262977012, 262977013

METHOD BLANK: 14956 Matrix: Water
Associated Lab Samples: 262977001, 262977002, 262977003, 262977004, 262977005, 262977006, 262977007, 262977008, 262977009, 262977010, 262977011, 262977012, 262977013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00050	0.000036	03/21/18 11:43	

LABORATORY CONTROL SAMPLE: 14957

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	.0025	0.0025	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 14958 14959

Parameter	Units	262977002 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	.0025	.0025	0.0026	0.0025	102	100	75-125	2	20	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells 3+4
Pace Project No.: 262977

QC Batch: 2844 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020B MET
Associated Lab Samples: 262977001, 262977002, 262977003, 262977004, 262977005, 262977006, 262977007, 262977008, 262977009, 262977010, 262977011, 262977012, 262977013

METHOD BLANK: 14842 Matrix: Water
Associated Lab Samples: 262977001, 262977002, 262977003, 262977004, 262977005, 262977006, 262977007, 262977008, 262977009, 262977010, 262977011, 262977012, 262977013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	03/22/18 14:50	
Arsenic	mg/L	ND	0.0050	0.00057	03/22/18 14:50	
Barium	mg/L	ND	0.010	0.00078	03/22/18 14:50	
Beryllium	mg/L	ND	0.0030	0.000050	03/22/18 14:50	
Boron	mg/L	ND	0.040	0.0039	03/22/18 14:50	
Cadmium	mg/L	ND	0.0010	0.000093	03/22/18 14:50	
Calcium	mg/L	ND	0.50	0.014	03/22/18 14:50	
Chromium	mg/L	ND	0.010	0.0016	03/22/18 14:50	
Cobalt	mg/L	ND	0.010	0.00052	03/22/18 14:50	
Copper	mg/L	ND	0.025	0.0013	03/22/18 14:50	
Lead	mg/L	ND	0.0050	0.00027	03/22/18 14:50	
Magnesium	mg/L	ND	0.050	0.0062	03/22/18 14:50	
Nickel	mg/L	ND	0.010	0.00095	03/22/18 14:50	
Potassium	mg/L	ND	0.10	0.035	03/22/18 14:50	
Selenium	mg/L	ND	0.010	0.0014	03/22/18 14:50	
Silver	mg/L	ND	0.010	0.00095	03/22/18 14:50	
Sodium	mg/L	ND	0.10	0.015	03/22/18 14:50	
Thallium	mg/L	ND	0.0010	0.00014	03/22/18 14:50	
Vanadium	mg/L	ND	0.010	0.0019	03/22/18 14:50	
Zinc	mg/L	ND	0.010	0.0021	03/22/18 14:50	

LABORATORY CONTROL SAMPLE: 14843

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	.1	0.11	108	80-120	
Arsenic	mg/L	.1	0.10	103	80-120	
Barium	mg/L	.1	0.11	107	80-120	
Beryllium	mg/L	.1	0.11	111	80-120	
Boron	mg/L	1	1.1	112	80-120	
Cadmium	mg/L	.1	0.11	108	80-120	
Calcium	mg/L	1	1.1	108	80-120	
Chromium	mg/L	.1	0.10	105	80-120	
Cobalt	mg/L	.1	0.11	108	80-120	
Copper	mg/L	.1	0.11	107	80-120	
Lead	mg/L	.1	0.11	107	80-120	
Magnesium	mg/L	1	1.1	111	80-120	
Nickel	mg/L	.1	0.10	105	80-120	
Potassium	mg/L	1	1.1	107	80-120	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells 3+4
Pace Project No.: 262977

LABORATORY CONTROL SAMPLE: 14843

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Selenium	mg/L	.1	0.10	103	80-120	
Silver	mg/L	.1	0.094	94	80-120	
Sodium	mg/L	1	1.1	110	80-120	
Thallium	mg/L	.1	0.10	104	80-120	
Vanadium	mg/L	.1	0.11	109	80-120	
Zinc	mg/L	.1	0.11	113	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 14844 14845

Parameter	Units	262977001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	.1	.1	0.10	0.10	104	103	75-125	2	20	
Arsenic	mg/L	0.00076J	.1	.1	0.10	0.10	101	101	75-125	0	20	
Barium	mg/L	0.016	.1	.1	0.12	0.12	102	100	75-125	2	20	
Beryllium	mg/L	0.000065J	.1	.1	0.10	0.10	104	103	75-125	0	20	
Boron	mg/L	0.0076J	1	1	1.0	1.1	103	105	75-125	2	20	
Cadmium	mg/L	ND	.1	.1	0.10	0.10	101	101	75-125	1	20	
Calcium	mg/L	30.7	1	1	29.3	30.7	-135	6	75-125	5	20	M6
Chromium	mg/L	ND	.1	.1	0.11	0.10	108	104	75-125	4	20	
Cobalt	mg/L	ND	.1	.1	0.11	0.10	108	104	75-125	4	20	
Copper	mg/L	ND	.1	.1	0.11	0.10	107	101	75-125	6	20	
Lead	mg/L	ND	.1	.1	0.10	0.10	101	100	75-125	1	20	
Magnesium	mg/L	17.4	1	1	17.9	17.9	42	47	75-125	0	20	M1
Nickel	mg/L	ND	.1	.1	0.10	0.10	104	100	75-125	4	20	
Potassium	mg/L	0.68	1	1	1.7	1.7	102	98	75-125	3	20	
Selenium	mg/L	ND	.1	.1	0.10	0.10	100	101	75-125	1	20	
Silver	mg/L	ND	.1	.1	0.091	0.089	91	89	75-125	2	20	
Sodium	mg/L	1.3	1	1	2.3	2.3	96	98	75-125	1	20	
Thallium	mg/L	ND	.1	.1	0.10	0.099	102	99	75-125	3	20	
Vanadium	mg/L	ND	.1	.1	0.11	0.11	107	105	75-125	2	20	
Zinc	mg/L	ND	.1	.1	0.11	0.11	113	106	75-125	6	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells 3+4
Pace Project No.: 262977

QC Batch: 3164 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 262977006

METHOD BLANK: 16361 Matrix: Water
Associated Lab Samples: 262977006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	20.0	20.0	03/26/18 11:36	

LABORATORY CONTROL SAMPLE: 16362

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	100	101	101	85-115	

SAMPLE DUPLICATE: 16363

Parameter	Units	262962001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	159	158	1	10	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells 3+4
Pace Project No.: 262977

QC Batch: 2991 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity, Low Level
Associated Lab Samples: 262977002, 262977003, 262977004, 262977009, 262977010, 262977011

METHOD BLANK: 15595 Matrix: Water
Associated Lab Samples: 262977002, 262977003, 262977004, 262977009, 262977010, 262977011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	1.0	1.0	03/22/18 12:16	

LABORATORY CONTROL SAMPLE: 15596

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	49.5	99	85-115	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells 3+4
Pace Project No.: 262977

QC Batch: 3193
QC Batch Method: SM 2320B
Analysis Method: SM 2320B
Analysis Description: 2320B Alkalinity, Low Level
Associated Lab Samples: 262977008

METHOD BLANK: 16458
Matrix: Water
Associated Lab Samples: 262977008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	1.0	1.0	03/26/18 15:15	

LABORATORY CONTROL SAMPLE: 16459

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.0	100	85-115	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells 3+4
Pace Project No.: 262977

QC Batch: 402761 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 262977001, 262977002, 262977003, 262977004

METHOD BLANK: 2234065 Matrix: Water
Associated Lab Samples: 262977001, 262977002, 262977003, 262977004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	03/20/18 17:42	

LABORATORY CONTROL SAMPLE: 2234066

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	226	90	90-110	

SAMPLE DUPLICATE: 2234067

Parameter	Units	92376993002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	351	347	1	5	

SAMPLE DUPLICATE: 2234068

Parameter	Units	262896003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	263	210	22	5	D6

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells 3+4
Pace Project No.: 262977

QC Batch: 402812 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 262977005, 262977006, 262977007, 262977008, 262977009, 262977010, 262977011, 262977012, 262977013

METHOD BLANK: 2234528 Matrix: Water
Associated Lab Samples: 262977005, 262977006, 262977007, 262977008, 262977009, 262977010, 262977011, 262977012, 262977013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	03/21/18 20:48	

LABORATORY CONTROL SAMPLE: 2234529

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	244	98	90-110	

SAMPLE DUPLICATE: 2234530

Parameter	Units	262972009 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	121	120	1	5	H1

SAMPLE DUPLICATE: 2234531

Parameter	Units	262975001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	123	126	3	5	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells 3+4
Pace Project No.: 262977

QC Batch: 3000 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 262977001, 262977002, 262977003, 262977004, 262977005, 262977006, 262977007, 262977008, 262977009, 262977010, 262977011, 262977012, 262977013

METHOD BLANK: 15623 Matrix: Water
Associated Lab Samples: 262977001, 262977002, 262977003, 262977004, 262977005, 262977006, 262977007, 262977008, 262977009, 262977010, 262977011, 262977012, 262977013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	0.041J	0.25	0.024	03/23/18 00:51	
Fluoride	mg/L	ND	0.30	0.029	03/23/18 00:51	
Sulfate	mg/L	ND	1.0	0.017	03/23/18 00:51	

LABORATORY CONTROL SAMPLE: 15624

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	10	10.2	102	90-110	
Fluoride	mg/L	10	10.1	101	90-110	
Sulfate	mg/L	10	10.3	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 15625 15626

Parameter	Units	262975001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	2.4	10	10	12.6	12.6	102	102	90-110	0	15	
Fluoride	mg/L	0.055J	10	10	10.1	10.1	101	101	90-110	0	15	
Sulfate	mg/L	3.8	10	10	13.8	13.8	100	100	90-110	0	15	

MATRIX SPIKE SAMPLE: 15627

Parameter	Units	262975002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	4.0	10	12.4	84	90-110	M1
Fluoride	mg/L	ND	10	9.1	91	90-110	
Sulfate	mg/L	10.9	10	19.3	84	90-110	M1

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALIFIERS

Project: Plant Bowen cells 3+4
Pace Project No.: 262977

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.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-A	Pace Analytical Services - Asheville
PASI-GA	Pace Analytical Services - Atlanta, GA

ANALYTE QUALIFIERS

B	Analyte was detected in the associated method blank.
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.
H1	Analysis conducted outside the EPA method holding time.
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.

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Bowen cells 3+4
Pace Project No.: 262977

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
262977001	GWC-19R	EPA 3005A	2844	EPA 6020B	3022
262977002	GWC-17R	EPA 3005A	2844	EPA 6020B	3022
262977003	GWC-16R	EPA 3005A	2844	EPA 6020B	3022
262977004	GWC-21R	EPA 3005A	2844	EPA 6020B	3022
262977005	GWC-20R	EPA 3005A	2844	EPA 6020B	3022
262977006	GWC-23R	EPA 3005A	2844	EPA 6020B	3022
262977007	Dup-3	EPA 3005A	2844	EPA 6020B	3022
262977008	FBL031418	EPA 3005A	2844	EPA 6020B	3022
262977009	EQBL031418	EPA 3005A	2844	EPA 6020B	3022
262977010	FBL2031418	EPA 3005A	2844	EPA 6020B	3022
262977011	EQBL2031418	EPA 3005A	2844	EPA 6020B	3022
262977012	GWC-18R	EPA 3005A	2844	EPA 6020B	3022
262977013	GWC-18	EPA 3005A	2844	EPA 6020B	3022
262977001	GWC-19R	EPA 7470A	2864	EPA 7470A	2916
262977002	GWC-17R	EPA 7470A	2864	EPA 7470A	2916
262977003	GWC-16R	EPA 7470A	2864	EPA 7470A	2916
262977004	GWC-21R	EPA 7470A	2864	EPA 7470A	2916
262977005	GWC-20R	EPA 7470A	2864	EPA 7470A	2916
262977006	GWC-23R	EPA 7470A	2864	EPA 7470A	2916
262977007	Dup-3	EPA 7470A	2864	EPA 7470A	2916
262977008	FBL031418	EPA 7470A	2864	EPA 7470A	2916
262977009	EQBL031418	EPA 7470A	2864	EPA 7470A	2916
262977010	FBL2031418	EPA 7470A	2864	EPA 7470A	2916
262977011	EQBL2031418	EPA 7470A	2864	EPA 7470A	2916
262977012	GWC-18R	EPA 7470A	2864	EPA 7470A	2916
262977013	GWC-18	EPA 7470A	2864	EPA 7470A	2916
262977006	GWC-23R	SM 2320B	3164		
262977002	GWC-17R	SM 2320B	2991		
262977003	GWC-16R	SM 2320B	2991		
262977004	GWC-21R	SM 2320B	2991		
262977008	FBL031418	SM 2320B	3193		
262977009	EQBL031418	SM 2320B	2991		
262977010	FBL2031418	SM 2320B	2991		
262977011	EQBL2031418	SM 2320B	2991		
262977001	GWC-19R	SM 2540C	402761		
262977002	GWC-17R	SM 2540C	402761		
262977003	GWC-16R	SM 2540C	402761		
262977004	GWC-21R	SM 2540C	402761		
262977005	GWC-20R	SM 2540C	402812		
262977006	GWC-23R	SM 2540C	402812		
262977007	Dup-3	SM 2540C	402812		
262977008	FBL031418	SM 2540C	402812		
262977009	EQBL031418	SM 2540C	402812		
262977010	FBL2031418	SM 2540C	402812		
262977011	EQBL2031418	SM 2540C	402812		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Bowen cells 3+4
Pace Project No.: 262977

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
262977012	**GWC-18R**	SM 2540C	402812		
262977013	**GWC-18**	SM 2540C	402812		
262977001	**GWC-19R**	EPA 300.0	3000		
262977002	**GWC-17R**	EPA 300.0	3000		
262977003	**GWC-16R**	EPA 300.0	3000		
262977004	**GWC-21R**	EPA 300.0	3000		
262977005	**GWC-20R**	EPA 300.0	3000		
262977006	**GWC-23R**	EPA 300.0	3000		
262977007	**Dup-3**	EPA 300.0	3000		
262977008	**FBL031418**	EPA 300.0	3000		
262977009	**EQBL031418**	EPA 300.0	3000		
262977010	**FBL2031418**	EPA 300.0	3000		
262977011	**EQBL2031418**	EPA 300.0	3000		
262977012	**GWC-18R**	EPA 300.0	3000		
262977013	**GWC-18**	EPA 300.0	3000		

CHAIN OF CUSTODY RECORD

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

PAGE: 1 OF 2

CLIENT NAME: Southern Company Services
CLIENT ADDRESS/PHONE NUMBER/FAX NUMBER: 241 Ralph McGill Blvd SE B10185 Atlanta, GA 30308
REPORT TO: Joju Abraham
CC: Maria Padilla
REQUESTED COMPLETION DATE:
PO #: GPC10684198
PROJECT NAME/STATE: Plant Bowen-Cells 3&4 CCR & Bowen State GW
PROJECT #:

ANALYSIS REQUESTED (Container type / Preservation):
- Metals App III EPA 6020 (P / 3)
- Bowen State GW EPA 6010+7470 (P / 3)
- Mg, Na, K EPA 6020 (P / 3)
- Cl, F, SO4 EPA 300, TDS SM2540C (P / 7)
- CO3, HCO3 SM2320B (P / 7)

Collection DATE	Collection TIME	MATRIX CODE*	COMP	GRAB	SAMPLE IDENTIFICATION	# of CONTAINERS	Metals App III EPA 6020	Bowen State GW EPA 6010+7470	Mg, Na, K EPA 6020	Cl, F, SO4 EPA 300 / TDS SM2540C	CO3, HCO3 SM2320B	LAB ID NUMBER	REMARKS/ADDITIONAL INFORMATION
3/14/18	0950	GW		X	GWC-19R	2	X	X		X			
3/14/18	1025	GW		X	GWC-17R	2	X	X	X	X	X		
3/14/18	1050	GW		X	GWC-16R	2	X	X	X	X	X		
3/14/18	1051	GW		X	GWC-21R	2	X	X	X	X	X		
3/14/18	1102	GW		X	GWC-20R	2	X	X		X			
3/14/18	1130	GW		X	GWC-23R	2	X	X	X	X	X		
3/14/18	—	GW		X	DUP-3	2	X	X	[illegible]	X			
3/14/18	1538	W		X	FBL031418	2	X	X	X	X	X		
3/14/18	1540	W		X	EQBL031418	2	X	X	X	X	X		
3/14/18	1548	W		X	FBL2031418	2	X	X	X	X	X		
3/14/18	1550	W		X	EQBL2031418	2	X	X	X	X	X		
3/14/18	1040	GW		X	GWC-18R	2	X	X		X			

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

PRESERVATION
- 1 - HCl, ≤6°C
- 2 - H_2SO_4, ≤6°C
- 3 - HNO_3
- 4 - NaOH, ≤6°C
- 5 - NaOH/ZnAc, ≤6°C
- 6 - $Na_2S_2O_3$, ≤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

SAMPLED BY AND TITLE: Robert M... / Kevin Stephenson / Brian Steele / Michael Pat... / Andrew, Exec. DATE/TIME: 3/14/18 1730
RELINQUISHED BY: [signature] Marcus DATE/TIME: 3/16 10:19
RECEIVED BY: Mike Nguyen DATE/TIME: 3/16/18 1019
RELINQUISHED BY: DATE/TIME:
RECEIVED BY LAB: M Dalmman DATE/TIME: 03/16/18 1600

SAMPLE SHIPPED VIA: UPS FED-EX USPS (COURIER) Pace CLIENT OTHER FS
pH Checked: (Yes) No NA
Ice: (Yes) No NA
Temperature: Min: 0.2 Max:
Custody Seal: (Intact) Broken Not Present
# of Coolers:
Cooler ID:

WO#: 262977
262977

Entered Into LIMS:
Tracking #:

COC Revised 2016-05-17.xlsx

CHAIN OF CUSTODY RECORD

Pace Analytical® www.pacelabs.com

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

CLIENT NAME: Southern Company Services

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

REPORT TO: Soju Abraham

CC: Maria Padilla

REQUESTED COMPLETION DATE:

PO #: GPL10684198

PROJECT NAME/STATE: Plant Bowen-Cells 3+4 CCR+BowenStateGW

PROJECT #:

ANALYSIS REQUESTED

	Metals App. III EPA 6020	BowenState GW EPA6020+EPA7470	Mg, Na, K EPA 6020	Cl, F, SO4 EPA 300 TDS SM2540C	CO3, HCO3 SM2320B				
CONTAINER TYPE:	P	P	P	P	P				
PRESERVATION:	3	3	3	7	7				

Collection DATE	Collection TIME	MATRIX CODE*	COMP	GRAB	SAMPLE IDENTIFICATION	# of CONTAINERS	Metals App. III EPA 6020	BowenState GW EPA6020+EPA7470	Mg, Na, K EPA 6020	Cl, F, SO4 EPA 300 TDS SM2540C	CO3, HCO3 SM2320B	LAB I.D. NUMBER	REMARKS/ADDITIONAL INFORMATION
3/14/18	1700	GW		X	GWC-18	2	X	X		X			

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

PRESERVATION: 1 - HCl, ≤6°C; 2 - H_2SO_4, ≤6°C; 3 - HNO_3; 4 - NaOH, ≤6°C; 5 - NaOH/ZnAc, ≤6°C; 6 - $Na_2S_2O_3$, ≤6°C; 7 - ≤6°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

SAMPLED BY AND TITLE: Robert Hill / K Stephenson / B Steck / M. Petinkin / A. Fisher — DATE/TIME: 3/14/18 1730

RELINQUISHED BY: Cindy Mardis — DATE/TIME: 3/16 10:19

RECEIVED BY: Mike Norsen — DATE/TIME: 3/16/18 1019

RELINQUISHED BY: — DATE/TIME:

RECEIVED BY LAB: M Dalman — DATE/TIME: 03/16/18 1600

SAMPLE SHIPPED VIA: UPS FED-EX USPS COURIER (Pace) CLIENT OTHER FS

pH checked: (Yes) No NA — Ice: (Yes) No NA — Temperature: Min: 0.2 Max: — Custody Seal: (Intact) Broken Not Present — # of Coolers: — Cooler ID:

FOR LAB USE ONLY
LAB #:
Entered Into LIMS:
Tracking #:

COC Revised 2016-05-17.xlsx

Sample Condition Upon Receipt

Pace Analytical

Client Name: GA Power

Project #

WO#: 262977

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace Other ____

PM: BM Due Date: 03/23/18

CLIENT: GAPower-CCR

Tracking #: ____

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

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

Date and Initials of person examining contents: 3/16/18 MR

Temp should be above freezing to 6°C

Comments:

Chain of Custody Present:	☑Yes	☐No	☐N/A	1.
Chain of Custody Filled Out:	☑Yes	☐No	☐N/A	2.
Chain of Custody Relinquished:	☑Yes	☐No	☐N/A	3.
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☑Yes	☐No	☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes	☑No	☐N/A	6.
Rush Turn Around Time Requested:	☐Yes	☑No	☐N/A	7.
Sufficient Volume:	☑Yes	☐No	☐N/A	8.
Correct Containers Used:	☑Yes	☐No	☐N/A	9.
-Pace Containers Used:	☑Yes	☐No	☐N/A	
Containers Intact:	☑Yes	☐No	☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☑N/A	11.
Sample Labels match COC:	☑Yes	☐No	☐N/A	12.
-Includes date/time/ID/Analysis Matrix: GW				
All containers needing preservation have been checked.	☑Yes	☐No	☐N/A	13
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes	☐No	☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes	☑No		Initial when completed / Lot # of added preservative
Samples checked for dechlorination:	☐Yes	☐No	☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☑N/A	15.
Trip Blank Present:	☐Yes	☐No	☑N/A	16.
Trip Blank Custody Seals Present	☐Yes	☐No	☑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).

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

May 16, 2018

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

RE: Project: Plant Bowen cells 9+10
Pace Project No.: 262969

Dear Joju Abraham:
Enclosed are the analytical results for sample(s) received by the laboratory on March 16, 2018. 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.

REV05082018_report revised to correct MDL / J-flag settings.

REV05162018_report revised to set reporting limits in accordance with project scope.

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: Maria Padilla, Georgia Power
Greg Wrenn, Wood PLC

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

CERTIFICATIONS

Project: Plant Bowen cells 9+10
Pace Project No.: 262969

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
Texas Certification #: T104704397-08-TX
Virginia Certification #: 460204

Asheville Certification IDs

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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110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE SUMMARY

Project: Plant Bowen cells 9+10
Pace Project No.: 262969

Lab ID	Sample ID	Matrix	Date Collected	Date Received
262969001	**GWC-45**	Water	03/15/18 10:40	03/16/18 16:00
262969002	**GWC-45R**	Water	03/15/18 11:55	03/16/18 16:00
262969003	**GWC-49Z**	Water	03/15/18 13:42	03/16/18 16:00
262969004	**GWC-49R**	Water	03/15/18 14:51	03/16/18 16:00
262969005	**GWC-44**	Water	03/15/18 10:30	03/16/18 16:00
262969006	**GWC-46R**	Water	03/15/18 11:48	03/16/18 16:00
262969007	**GWC-48**	Water	03/15/18 13:18	03/16/18 16:00
262969008	**GWA-43R**	Water	03/15/18 12:45	03/16/18 16:00
262969009	**GWC-47**	Water	03/15/18 16:00	03/16/18 16:00
262969010	**Dup-2**	Water	03/15/18 00:00	03/16/18 16:00
262969011	**FBL031518**	Water	03/15/18 15:04	03/16/18 16:00
262969012	**EQBL031518**	Water	03/15/18 15:08	03/16/18 16:00

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SAMPLE ANALYTE COUNT

Project: Plant Bowen cells 9+10
Pace Project No.: 262969

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
262969001	**GWC-45**	EPA 6020B	CSW	20	PASI-GA
		EPA 7470A	MTC	1	PASI-GA
		SM 2320B	JAD	3	PASI-GA
		SM 2540C	EJJ	1	PASI-A
		EPA 300.0	RLC	3	PASI-GA
262969002	**GWC-45R**	EPA 6020B	CSW	17	PASI-GA
		EPA 7470A	MTC	1	PASI-GA
		SM 2540C	EJJ	1	PASI-A
		EPA 300.0	RLC	3	PASI-GA
262969003	**GWC-49Z**	EPA 6020B	CSW	20	PASI-GA
		EPA 7470A	MTC	1	PASI-GA
		SM 2320B	JAD	3	PASI-GA
		SM 2540C	EJJ	1	PASI-A
		EPA 300.0	RLC	3	PASI-GA
262969004	**GWC-49R**	EPA 6020B	CSW	20	PASI-GA
		EPA 7470A	MTC	1	PASI-GA
		SM 2320B	JAD	3	PASI-GA
		SM 2540C	EJJ	1	PASI-A
		EPA 300.0	RLC	3	PASI-GA
262969005	**GWC-44**	EPA 6020B	CSW	20	PASI-GA
		EPA 7470A	MTC	1	PASI-GA
		SM 2320B	JAD	3	PASI-GA
		SM 2540C	EJJ	1	PASI-A
		EPA 300.0	RLC	3	PASI-GA
262969006	**GWC-46R**	EPA 6020B	CSW	17	PASI-GA
		EPA 7470A	MTC	1	PASI-GA
		SM 2540C	EJJ	1	PASI-A
		EPA 300.0	RLC	3	PASI-GA
262969007	**GWC-48**	EPA 6020B	CSW	20	PASI-GA
		EPA 7470A	MTC	1	PASI-GA
		SM 2320B	JAD	3	PASI-GA
		SM 2540C	EJJ	1	PASI-A
		EPA 300.0	RLC	3	PASI-GA
262969008	**GWA-43R**	EPA 6020B	CSW	20	PASI-GA
		EPA 7470A	MTC	1	PASI-GA
		SM 2320B	JAD	3	PASI-GA
		SM 2540C	EJJ	1	PASI-A

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE ANALYTE COUNT

Project: Plant Bowen cells 9+10
Pace Project No.: 262969

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 300.0	RLC	3	PASI-GA
262969009	**GWC-47**	EPA 6020B	CSW	20	PASI-GA
		EPA 7470A	MTC	1	PASI-GA
		SM 2320B	JAD	3	PASI-GA
		SM 2540C	EJJ	1	PASI-A
		EPA 300.0	RLC	3	PASI-GA
262969010	**Dup-2**	EPA 6020B	CSW	17	PASI-GA
		EPA 7470A	MTC	1	PASI-GA
		SM 2540C	EJJ	1	PASI-A
		EPA 300.0	RLC	3	PASI-GA
262969011	**FBL031518**	EPA 6020B	CSW	20	PASI-GA
		EPA 7470A	MTC	1	PASI-GA
		SM 2320B	JAD	3	PASI-GA
		SM 2540C	EJJ	1	PASI-A
		EPA 300.0	RLC	3	PASI-GA
262969012	**EQBL031518**	EPA 6020B	CSW	20	PASI-GA
		EPA 7470A	MTC	1	PASI-GA
		SM 2320B	JAD	3	PASI-GA
		SM 2540C	EJJ	1	PASI-A
		EPA 300.0	RLC	3	PASI-GA

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: Plant Bowen cells 9+10
Pace Project No.: 262969

Sample: GWC-45 **Lab ID: 262969001** Collected: 03/15/18 10:40 Received: 03/16/18 16:00 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	**0.00086J**	mg/L	0.0030	0.00078	1	03/20/18 09:19	03/21/18 15:25	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	03/20/18 09:19	03/21/18 15:25	7440-38-2	
Barium	**0.0057J**	mg/L	0.010	0.00078	1	03/20/18 09:19	03/21/18 15:25	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	03/20/18 09:19	03/21/18 15:25	7440-41-7	
Boron	**0.0077J**	mg/L	0.040	0.0039	1	03/20/18 09:19	03/21/18 15:25	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	03/20/18 09:19	03/21/18 15:25	7440-43-9	
Calcium	**0.77**	mg/L	0.50	0.014	1	03/20/18 09:19	03/21/18 15:25	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	03/20/18 09:19	03/21/18 15:25	7440-47-3	
Cobalt	**0.0012J**	mg/L	0.010	0.00052	1	03/20/18 09:19	03/21/18 15:25	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	03/20/18 09:19	03/21/18 15:25	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	03/20/18 09:19	03/21/18 15:25	7439-92-1	
Magnesium	**0.48**	mg/L	0.050	0.0062	1	03/20/18 09:19	03/21/18 15:25	7439-95-4	
Nickel	**0.0011J**	mg/L	0.010	0.00095	1	03/20/18 09:19	03/21/18 15:25	7440-02-0	
Potassium	**0.23**	mg/L	0.10	0.035	1	03/20/18 09:19	03/21/18 15:25	7440-09-7	
Selenium	ND	mg/L	0.010	0.0014	1	03/20/18 09:19	03/21/18 15:25	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	03/20/18 09:19	03/21/18 15:25	7440-22-4	
Sodium	**1.9**	mg/L	0.10	0.015	1	03/20/18 09:19	03/21/18 15:25	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00014	1	03/20/18 09:19	03/21/18 15:25	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	03/20/18 09:19	03/21/18 15:25	7440-62-2	
Zinc	**0.0025J**	mg/L	0.010	0.0021	1	03/20/18 09:19	03/21/18 15:25	7440-66-6	B
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	03/20/18 13:30	03/20/18 19:16	7439-97-6	
2320B Alkalinity Low Level	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**1.0**	mg/L	1.0	1.0	1		03/26/18 15:18		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	1.0	1.0	1		03/26/18 15:18		
Alkalinity, Total as CaCO3	**1.0**	mg/L	1.0	1.0	1		03/26/18 15:18		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		03/21/18 17:19		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**1.2**	mg/L	0.25	0.024	1		03/21/18 06:26	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		03/21/18 06:26	16984-48-8	
Sulfate	**0.75J**	mg/L	1.0	0.017	1		03/21/18 06:26	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells 9+10
Pace Project No.: 262969

Sample: GWC-45R **Lab ID: 262969002** Collected: 03/15/18 11:55 Received: 03/16/18 16:00 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	03/20/18 09:19	03/21/18 16:28	7440-36-0	
Arsenic	**0.00061J**	mg/L	0.0050	0.00057	1	03/20/18 09:19	03/21/18 16:28	7440-38-2	
Barium	**0.021**	mg/L	0.010	0.00078	1	03/20/18 09:19	03/21/18 16:28	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	03/20/18 09:19	03/21/18 16:28	7440-41-7	
Boron	**0.0063J**	mg/L	0.040	0.0039	1	03/20/18 09:19	03/21/18 16:28	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	03/20/18 09:19	03/21/18 16:28	7440-43-9	
Calcium	**34.6**	mg/L	25.0	0.69	50	03/20/18 09:19	03/21/18 16:34	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	03/20/18 09:19	03/21/18 16:28	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	03/20/18 09:19	03/21/18 16:28	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	03/20/18 09:19	03/21/18 16:28	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	03/20/18 09:19	03/21/18 16:28	7439-92-1	
Nickel	ND	mg/L	0.010	0.00095	1	03/20/18 09:19	03/21/18 16:28	7440-02-0	
Selenium	ND	mg/L	0.010	0.0014	1	03/20/18 09:19	03/21/18 16:28	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	03/20/18 09:19	03/21/18 16:28	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	03/20/18 09:19	03/21/18 16:28	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	03/20/18 09:19	03/21/18 16:28	7440-62-2	
Zinc	**0.0053J**	mg/L	0.010	0.0021	1	03/20/18 09:19	03/21/18 16:28	7440-66-6	B
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	03/20/18 13:30	03/20/18 19:07	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**146**	mg/L	25.0	25.0	1		03/21/18 17:19		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**3.3**	mg/L	0.25	0.024	1		03/21/18 07:28	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		03/21/18 07:28	16984-48-8	
Sulfate	**2.9**	mg/L	1.0	0.017	1		03/21/18 07:28	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells 9+10
Pace Project No.: 262969

Sample: GWC-49Z **Lab ID: 262969003** Collected: 03/15/18 13:42 Received: 03/16/18 16:00 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	**0.0012J**	mg/L	0.0030	0.00078	1	03/20/18 09:19	03/21/18 16:39	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	03/20/18 09:19	03/21/18 16:39	7440-38-2	
Barium	**0.0032J**	mg/L	0.010	0.00078	1	03/20/18 09:19	03/21/18 16:39	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	03/20/18 09:19	03/21/18 16:39	7440-41-7	
Boron	**0.0052J**	mg/L	0.040	0.0039	1	03/20/18 09:19	03/21/18 16:39	7440-42-8	
Cadmium	**0.00010J**	mg/L	0.0010	0.000093	1	03/20/18 09:19	03/21/18 16:39	7440-43-9	
Calcium	**0.81**	mg/L	0.50	0.014	1	03/20/18 09:19	03/21/18 16:39	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	03/20/18 09:19	03/21/18 16:39	7440-47-3	
Cobalt	**0.0026J**	mg/L	0.010	0.00052	1	03/20/18 09:19	03/21/18 16:39	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	03/20/18 09:19	03/21/18 16:39	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	03/20/18 09:19	03/21/18 16:39	7439-92-1	
Magnesium	**0.24**	mg/L	0.050	0.0062	1	03/20/18 09:19	03/21/18 16:39	7439-95-4	
Nickel	**0.0028J**	mg/L	0.010	0.00095	1	03/20/18 09:19	03/21/18 16:39	7440-02-0	
Potassium	**0.55**	mg/L	0.10	0.035	1	03/20/18 09:19	03/21/18 16:39	7440-09-7	
Selenium	ND	mg/L	0.010	0.0014	1	03/20/18 09:19	03/21/18 16:39	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	03/20/18 09:19	03/21/18 16:39	7440-22-4	
Sodium	**3.5**	mg/L	0.10	0.015	1	03/20/18 09:19	03/21/18 16:39	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00014	1	03/20/18 09:19	03/21/18 16:39	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	03/20/18 09:19	03/21/18 16:39	7440-62-2	
Zinc	**0.0039J**	mg/L	0.010	0.0021	1	03/20/18 09:19	03/21/18 16:39	7440-66-6	B
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	03/20/18 13:30	03/20/18 19:19	7439-97-6	
2320B Alkalinity Low Level	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**4.0**	mg/L	1.0	1.0	1		03/26/18 15:22		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	1.0	1.0	1		03/26/18 15:22		
Alkalinity, Total as CaCO3	**4.0**	mg/L	1.0	1.0	1		03/26/18 15:22		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		03/21/18 17:19		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**1.4**	mg/L	0.25	0.024	1		03/21/18 07:49	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		03/21/18 07:49	16984-48-8	
Sulfate	**2.4**	mg/L	1.0	0.017	1		03/21/18 07:49	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells 9+10
Pace Project No.: 262969

Sample: GWC-49R **Lab ID: 262969004** Collected: 03/15/18 14:51 Received: 03/16/18 16:00 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	03/20/18 09:19	03/21/18 16:51	7440-36-0	
Arsenic	**0.00063J**	mg/L	0.0050	0.00057	1	03/20/18 09:19	03/21/18 16:51	7440-38-2	
Barium	**0.0093J**	mg/L	0.010	0.00078	1	03/20/18 09:19	03/21/18 16:51	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	03/20/18 09:19	03/21/18 16:51	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	03/20/18 09:19	03/21/18 16:51	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	03/20/18 09:19	03/21/18 16:51	7440-43-9	
Calcium	**24.4J**	mg/L	25.0	0.69	50	03/20/18 09:19	03/21/18 16:57	7440-70-2	D3
Chromium	ND	mg/L	0.010	0.0016	1	03/20/18 09:19	03/21/18 16:51	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	03/20/18 09:19	03/21/18 16:51	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	03/20/18 09:19	03/21/18 16:51	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	03/20/18 09:19	03/21/18 16:51	7439-92-1	
Magnesium	**14.0**	mg/L	2.5	0.31	50	03/20/18 09:19	03/21/18 16:57	7439-95-4	
Nickel	ND	mg/L	0.010	0.00095	1	03/20/18 09:19	03/21/18 16:51	7440-02-0	
Potassium	**0.75**	mg/L	0.10	0.035	1	03/20/18 09:19	03/21/18 16:51	7440-09-7	
Selenium	ND	mg/L	0.010	0.0014	1	03/20/18 09:19	03/21/18 16:51	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	03/20/18 09:19	03/21/18 16:51	7440-22-4	
Sodium	**1.9**	mg/L	0.10	0.015	1	03/20/18 09:19	03/21/18 16:51	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00014	1	03/20/18 09:19	03/21/18 16:51	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	03/20/18 09:19	03/21/18 16:51	7440-62-2	
Zinc	**0.0023J**	mg/L	0.010	0.0021	1	03/20/18 09:19	03/21/18 16:51	7440-66-6	B
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	03/20/18 13:30	03/20/18 19:21	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**125**	mg/L	20.0	20.0	1		03/26/18 12:03		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	20.0	20.0	1		03/26/18 12:03		
Alkalinity, Total as CaCO3	**125**	mg/L	20.0	20.0	1		03/26/18 12:03		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**88.0**	mg/L	25.0	25.0	1		03/21/18 17:19		D6
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**1.6**	mg/L	0.25	0.024	1		03/21/18 08:10	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		03/21/18 08:10	16984-48-8	
Sulfate	**3.1**	mg/L	1.0	0.017	1		03/21/18 08:10	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells 9+10
Pace Project No.: 262969

Sample: GWC-44 **Lab ID: 262969005** Collected: 03/15/18 10:30 Received: 03/16/18 16:00 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	03/20/18 09:19	03/21/18 17:02	7440-36-0	
Arsenic	**0.0011J**	mg/L	0.0050	0.00057	1	03/20/18 09:19	03/21/18 17:02	7440-38-2	
Barium	**0.059**	mg/L	0.010	0.00078	1	03/20/18 09:19	03/21/18 17:02	7440-39-3	
Beryllium	**0.000077J**	mg/L	0.0030	0.000050	1	03/20/18 09:19	03/21/18 17:02	7440-41-7	
Boron	**0.014J**	mg/L	0.040	0.0039	1	03/20/18 09:19	03/21/18 17:02	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	03/20/18 09:19	03/21/18 17:02	7440-43-9	
Calcium	**9.0**	mg/L	0.50	0.014	1	03/20/18 09:19	03/21/18 17:02	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	03/20/18 09:19	03/21/18 17:02	7440-47-3	
Cobalt	**0.0018J**	mg/L	0.010	0.00052	1	03/20/18 09:19	03/21/18 17:02	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	03/20/18 09:19	03/21/18 17:02	7440-50-8	
Lead	**0.00064J**	mg/L	0.0050	0.00027	1	03/20/18 09:19	03/21/18 17:02	7439-92-1	
Magnesium	**2.1**	mg/L	0.050	0.0062	1	03/20/18 09:19	03/21/18 17:02	7439-95-4	
Nickel	ND	mg/L	0.010	0.00095	1	03/20/18 09:19	03/21/18 17:02	7440-02-0	
Potassium	**1.7**	mg/L	0.10	0.035	1	03/20/18 09:19	03/21/18 17:02	7440-09-7	
Selenium	**0.0031J**	mg/L	0.010	0.0014	1	03/20/18 09:19	03/21/18 17:02	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	03/20/18 09:19	03/21/18 17:02	7440-22-4	
Sodium	**2.2**	mg/L	0.10	0.015	1	03/20/18 09:19	03/21/18 17:02	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00014	1	03/20/18 09:19	03/21/18 17:02	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	03/20/18 09:19	03/21/18 17:02	7440-62-2	
Zinc	**0.0039J**	mg/L	0.010	0.0021	1	03/20/18 09:19	03/21/18 17:02	7440-66-6	B
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	03/20/18 13:30	03/20/18 19:23	7439-97-6	
2320B Alkalinity Low Level	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	1.0	1.0	1		03/26/18 15:24		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	1.0	1.0	1		03/26/18 15:24		
Alkalinity, Total as CaCO3	ND	mg/L	1.0	1.0	1		03/26/18 15:24		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**41.0**	mg/L	25.0	25.0	1		03/21/18 17:19		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**6.5**	mg/L	0.25	0.024	1		03/21/18 08:30	16887-00-6	
Fluoride	**0.11J**	mg/L	0.30	0.029	1		03/21/18 08:30	16984-48-8	
Sulfate	**32.4**	mg/L	1.0	0.017	1		03/21/18 08:30	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells 9+10
Pace Project No.: 262969

Sample: GWC-46R **Lab ID: 262969006** Collected: 03/15/18 11:48 Received: 03/16/18 16:00 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	03/20/18 09:19	03/21/18 17:14	7440-36-0	
Arsenic	**0.00094J**	mg/L	0.0050	0.00057	1	03/20/18 09:19	03/21/18 17:14	7440-38-2	
Barium	**0.015**	mg/L	0.010	0.00078	1	03/20/18 09:19	03/21/18 17:14	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	03/20/18 09:19	03/21/18 17:14	7440-41-7	
Boron	**0.0042J**	mg/L	0.040	0.0039	1	03/20/18 09:19	03/21/18 17:14	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	03/20/18 09:19	03/21/18 17:14	7440-43-9	
Calcium	**46.2**	mg/L	25.0	0.69	50	03/20/18 09:19	03/21/18 17:19	7440-70-2	
Chromium	**0.0021J**	mg/L	0.010	0.0016	1	03/20/18 09:19	03/21/18 17:14	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	03/20/18 09:19	03/21/18 17:14	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	03/20/18 09:19	03/21/18 17:14	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	03/20/18 09:19	03/21/18 17:14	7439-92-1	
Nickel	ND	mg/L	0.010	0.00095	1	03/20/18 09:19	03/21/18 17:14	7440-02-0	
Selenium	ND	mg/L	0.010	0.0014	1	03/20/18 09:19	03/21/18 17:14	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	03/20/18 09:19	03/21/18 17:14	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	03/20/18 09:19	03/21/18 17:14	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	03/20/18 09:19	03/21/18 17:14	7440-62-2	
Zinc	**0.0034J**	mg/L	0.010	0.0021	1	03/20/18 09:19	03/21/18 17:14	7440-66-6	B
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	03/20/18 13:30	03/20/18 19:30	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**231**	mg/L	25.0	25.0	1		03/21/18 17:19		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**2.0**	mg/L	0.25	0.024	1		03/21/18 08:51	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		03/21/18 08:51	16984-48-8	
Sulfate	**6.4**	mg/L	1.0	0.017	1		03/21/18 08:51	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells 9+10
Pace Project No.: 262969

Sample: GWC-48 **Lab ID: 262969007** Collected: 03/15/18 13:18 Received: 03/16/18 16:00 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	03/20/18 09:19	03/21/18 17:40	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	03/20/18 09:19	03/21/18 17:40	7440-38-2	
Barium	**0.029**	mg/L	0.010	0.00078	1	03/20/18 09:19	03/21/18 17:40	7440-39-3	
Beryllium	**0.00025J**	mg/L	0.0030	0.000050	1	03/20/18 09:19	03/21/18 17:40	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	03/20/18 09:19	03/21/18 17:40	7440-42-8	
Cadmium	**0.00018J**	mg/L	0.0010	0.000093	1	03/20/18 09:19	03/21/18 17:40	7440-43-9	
Calcium	**3.5**	mg/L	0.50	0.014	1	03/20/18 09:19	03/21/18 17:40	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	03/20/18 09:19	03/21/18 17:40	7440-47-3	
Cobalt	**0.0013J**	mg/L	0.010	0.00052	1	03/20/18 09:19	03/21/18 17:40	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	03/20/18 09:19	03/21/18 17:40	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	03/20/18 09:19	03/21/18 17:40	7439-92-1	
Magnesium	**0.35**	mg/L	0.050	0.0062	1	03/20/18 09:19	03/21/18 17:40	7439-95-4	
Nickel	**0.0033J**	mg/L	0.010	0.00095	1	03/20/18 09:19	03/21/18 17:40	7440-02-0	
Potassium	**0.27**	mg/L	0.10	0.035	1	03/20/18 09:19	03/21/18 17:40	7440-09-7	
Selenium	ND	mg/L	0.010	0.0014	1	03/20/18 09:19	03/21/18 17:40	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	03/20/18 09:19	03/21/18 17:40	7440-22-4	
Sodium	**2.3**	mg/L	0.10	0.015	1	03/20/18 09:19	03/21/18 17:40	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00014	1	03/20/18 09:19	03/21/18 17:40	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	03/20/18 09:19	03/21/18 17:40	7440-62-2	
Zinc	**0.0073J**	mg/L	0.010	0.0021	1	03/20/18 09:19	03/21/18 17:40	7440-66-6	B
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	03/20/18 13:30	03/20/18 19:33	7439-97-6	
2320B Alkalinity Low Level	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**12.0**	mg/L	1.0	1.0	1		03/26/18 15:28		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	1.0	1.0	1		03/26/18 15:28		
Alkalinity, Total as CaCO3	**12.0**	mg/L	1.0	1.0	1		03/26/18 15:28		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		03/21/18 17:19		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**2.6**	mg/L	0.25	0.024	1		03/21/18 09:12	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		03/21/18 09:12	16984-48-8	
Sulfate	**0.76J**	mg/L	1.0	0.017	1		03/21/18 09:12	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells 9+10
Pace Project No.: 262969

Sample: GWA-43R **Lab ID: 262969008** Collected: 03/15/18 12:45 Received: 03/16/18 16:00 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	03/20/18 09:19	03/21/18 17:52	7440-36-0	
Arsenic	**0.00065J**	mg/L	0.0050	0.00057	1	03/20/18 09:19	03/21/18 17:52	7440-38-2	
Barium	**0.0092J**	mg/L	0.010	0.00078	1	03/20/18 09:19	03/21/18 17:52	7440-39-3	
Beryllium	**0.000051J**	mg/L	0.0030	0.000050	1	03/20/18 09:19	03/21/18 17:52	7440-41-7	
Boron	**0.018J**	mg/L	0.040	0.0039	1	03/20/18 09:19	03/21/18 17:52	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	03/20/18 09:19	03/21/18 17:52	7440-43-9	
Calcium	**28.0**	mg/L	25.0	0.69	50	03/20/18 09:19	03/21/18 17:57	7440-70-2	
Chromium	**0.0017J**	mg/L	0.010	0.0016	1	03/20/18 09:19	03/21/18 17:52	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	03/20/18 09:19	03/21/18 17:52	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	03/20/18 09:19	03/21/18 17:52	7440-50-8	
Lead	**0.0038J**	mg/L	0.0050	0.00027	1	03/20/18 09:19	03/21/18 17:52	7439-92-1	
Magnesium	**16.0**	mg/L	2.5	0.31	50	03/20/18 09:19	03/21/18 17:57	7439-95-4	
Nickel	ND	mg/L	0.010	0.00095	1	03/20/18 09:19	03/21/18 17:52	7440-02-0	
Potassium	**0.55**	mg/L	0.10	0.035	1	03/20/18 09:19	03/21/18 17:52	7440-09-7	
Selenium	ND	mg/L	0.010	0.0014	1	03/20/18 09:19	03/21/18 17:52	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	03/20/18 09:19	03/21/18 17:52	7440-22-4	
Sodium	**1.4**	mg/L	0.10	0.015	1	03/20/18 09:19	03/21/18 17:52	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00014	1	03/20/18 09:19	03/21/18 17:52	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	03/20/18 09:19	03/21/18 17:52	7440-62-2	
Zinc	**0.0034J**	mg/L	0.010	0.0021	1	03/20/18 09:19	03/21/18 17:52	7440-66-6	B
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	03/20/18 13:30	03/20/18 19:35	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**132**	mg/L	20.0	20.0	1		03/26/18 12:08		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	20.0	20.0	1		03/26/18 12:08		
Alkalinity, Total as CaCO3	**132**	mg/L	20.0	20.0	1		03/26/18 12:08		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**117**	mg/L	25.0	25.0	1		03/21/18 17:19		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**2.8**	mg/L	0.25	0.024	1		03/21/18 09:32	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		03/21/18 09:32	16984-48-8	
Sulfate	**5.1**	mg/L	1.0	0.017	1		03/21/18 09:32	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells 9+10
Pace Project No.: 262969

Sample: GWC-47 **Lab ID: 262969009** Collected: 03/15/18 16:00 Received: 03/16/18 16:00 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	03/20/18 09:19	03/21/18 18:03	7440-36-0	
Arsenic	**0.00061J**	mg/L	0.0050	0.00057	1	03/20/18 09:19	03/21/18 18:03	7440-38-2	
Barium	**0.011**	mg/L	0.010	0.00078	1	03/20/18 09:19	03/21/18 18:03	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	03/20/18 09:19	03/21/18 18:03	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	03/20/18 09:19	03/21/18 18:03	7440-42-8	
Cadmium	**0.000093J**	mg/L	0.0010	0.000093	1	03/20/18 09:19	03/21/18 18:03	7440-43-9	
Calcium	**21.6J**	mg/L	25.0	0.69	50	03/20/18 09:19	03/21/18 18:09	7440-70-2	D3
Chromium	**0.0023J**	mg/L	0.010	0.0016	1	03/20/18 09:19	03/21/18 18:03	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	03/20/18 09:19	03/21/18 18:03	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	03/20/18 09:19	03/21/18 18:03	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	03/20/18 09:19	03/21/18 18:03	7439-92-1	
Magnesium	**12.6**	mg/L	2.5	0.31	50	03/20/18 09:19	03/21/18 18:09	7439-95-4	
Nickel	ND	mg/L	0.010	0.00095	1	03/20/18 09:19	03/21/18 18:03	7440-02-0	
Potassium	**0.69**	mg/L	0.10	0.035	1	03/20/18 09:19	03/21/18 18:03	7440-09-7	
Selenium	ND	mg/L	0.010	0.0014	1	03/20/18 09:19	03/21/18 18:03	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	03/20/18 09:19	03/21/18 18:03	7440-22-4	
Sodium	**3.0**	mg/L	0.10	0.015	1	03/20/18 09:19	03/21/18 18:03	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00014	1	03/20/18 09:19	03/21/18 18:03	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	03/20/18 09:19	03/21/18 18:03	7440-62-2	
Zinc	**0.036**	mg/L	0.010	0.0021	1	03/20/18 09:19	03/21/18 18:03	7440-66-6	B
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	03/20/18 13:30	03/20/18 19:37	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**111**	mg/L	20.0	20.0	1		03/26/18 12:17		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	20.0	20.0	1		03/26/18 12:17		
Alkalinity, Total as CaCO3	**111**	mg/L	20.0	20.0	1		03/26/18 12:17		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**102**	mg/L	25.0	25.0	1		03/21/18 17:19		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**2.7**	mg/L	0.25	0.024	1		03/21/18 11:21	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		03/21/18 11:21	16984-48-8	
Sulfate	**3.7**	mg/L	1.0	0.017	1		03/21/18 11:21	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells 9+10
Pace Project No.: 262969

Sample: Dup-2 **Lab ID: 262969010** Collected: 03/15/18 00:00 Received: 03/16/18 16:00 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	03/20/18 09:19	03/21/18 18:15	7440-36-0	
Arsenic	**0.0011J**	mg/L	0.0050	0.00057	1	03/20/18 09:19	03/21/18 18:15	7440-38-2	
Barium	**0.015**	mg/L	0.010	0.00078	1	03/20/18 09:19	03/21/18 18:15	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	03/20/18 09:19	03/21/18 18:15	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	03/20/18 09:19	03/21/18 18:15	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	03/20/18 09:19	03/21/18 18:15	7440-43-9	
Calcium	**49.6**	mg/L	25.0	0.69	50	03/20/18 09:19	03/21/18 18:20	7440-70-2	
Chromium	**0.0021J**	mg/L	0.010	0.0016	1	03/20/18 09:19	03/21/18 18:15	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	03/20/18 09:19	03/21/18 18:15	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	03/20/18 09:19	03/21/18 18:15	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	03/20/18 09:19	03/21/18 18:15	7439-92-1	
Nickel	ND	mg/L	0.010	0.00095	1	03/20/18 09:19	03/21/18 18:15	7440-02-0	
Selenium	ND	mg/L	0.010	0.0014	1	03/20/18 09:19	03/21/18 18:15	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	03/20/18 09:19	03/21/18 18:15	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	03/20/18 09:19	03/21/18 18:15	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	03/20/18 09:19	03/21/18 18:15	7440-62-2	
Zinc	**0.0025J**	mg/L	0.010	0.0021	1	03/20/18 09:19	03/21/18 18:15	7440-66-6	B
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	03/20/18 13:30	03/20/18 19:40	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**238**	mg/L	25.0	25.0	1		03/21/18 17:19		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**2.0**	mg/L	0.25	0.024	1		03/21/18 11:43	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		03/21/18 11:43	16984-48-8	
Sulfate	**6.3**	mg/L	1.0	0.017	1		03/21/18 11:43	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells 9+10
Pace Project No.: 262969

Sample: FBL031518 **Lab ID: 262969011** Collected: 03/15/18 15:04 Received: 03/16/18 16:00 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	03/20/18 09:19	03/21/18 18:26	7440-36-0	
Arsenic	**0.00068J**	mg/L	0.0050	0.00057	1	03/20/18 09:19	03/21/18 18:26	7440-38-2	
Barium	ND	mg/L	0.010	0.00078	1	03/20/18 09:19	03/21/18 18:26	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	03/20/18 09:19	03/21/18 18:26	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	03/20/18 09:19	03/21/18 18:26	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	03/20/18 09:19	03/21/18 18:26	7440-43-9	
Calcium	**0.019J**	mg/L	0.50	0.014	1	03/20/18 09:19	03/21/18 18:26	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	03/20/18 09:19	03/21/18 18:26	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	03/20/18 09:19	03/21/18 18:26	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	03/20/18 09:19	03/21/18 18:26	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	03/20/18 09:19	03/21/18 18:26	7439-92-1	
Magnesium	ND	mg/L	0.050	0.0062	1	03/20/18 09:19	03/21/18 18:26	7439-95-4	
Nickel	ND	mg/L	0.010	0.00095	1	03/20/18 09:19	03/21/18 18:26	7440-02-0	
Potassium	ND	mg/L	0.10	0.035	1	03/20/18 09:19	03/21/18 18:26	7440-09-7	
Selenium	ND	mg/L	0.010	0.0014	1	03/20/18 09:19	03/21/18 18:26	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	03/20/18 09:19	03/21/18 18:26	7440-22-4	
Sodium	ND	mg/L	0.10	0.015	1	03/20/18 09:19	03/21/18 18:26	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00014	1	03/20/18 09:19	03/21/18 18:26	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	03/20/18 09:19	03/21/18 18:26	7440-62-2	
Zinc	ND	mg/L	0.010	0.0021	1	03/20/18 09:19	03/21/18 18:26	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	03/20/18 13:30	03/20/18 19:42	7439-97-6	
2320B Alkalinity Low Level	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	1.0	1.0	1		03/20/18 14:01		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	1.0	1.0	1		03/20/18 14:01		
Alkalinity, Total as CaCO3	ND	mg/L	1.0	1.0	1		03/20/18 14:01		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		03/21/18 17:19		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**0.26**	mg/L	0.25	0.024	1		03/21/18 12:05	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		03/21/18 12:05	16984-48-8	
Sulfate	ND	mg/L	1.0	0.017	1		03/21/18 12:05	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells 9+10
Pace Project No.: 262969

Sample: EQBL031518 **Lab ID: 262969012** Collected: 03/15/18 15:08 Received: 03/16/18 16:00 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	03/20/18 09:19	03/21/18 18:32	7440-36-0	
Arsenic	**0.00061J**	mg/L	0.0050	0.00057	1	03/20/18 09:19	03/21/18 18:32	7440-38-2	
Barium	ND	mg/L	0.010	0.00078	1	03/20/18 09:19	03/21/18 18:32	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	03/20/18 09:19	03/21/18 18:32	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	03/20/18 09:19	03/21/18 18:32	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	03/20/18 09:19	03/21/18 18:32	7440-43-9	
Calcium	**0.023J**	mg/L	0.50	0.014	1	03/20/18 09:19	03/21/18 18:32	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	03/20/18 09:19	03/21/18 18:32	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	03/20/18 09:19	03/21/18 18:32	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	03/20/18 09:19	03/21/18 18:32	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	03/20/18 09:19	03/21/18 18:32	7439-92-1	
Magnesium	ND	mg/L	0.050	0.0062	1	03/20/18 09:19	03/21/18 18:32	7439-95-4	
Nickel	ND	mg/L	0.010	0.00095	1	03/20/18 09:19	03/21/18 18:32	7440-02-0	
Potassium	ND	mg/L	0.10	0.035	1	03/20/18 09:19	03/21/18 18:32	7440-09-7	
Selenium	ND	mg/L	0.010	0.0014	1	03/20/18 09:19	03/21/18 18:32	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	03/20/18 09:19	03/21/18 18:32	7440-22-4	
Sodium	ND	mg/L	0.10	0.015	1	03/20/18 09:19	03/21/18 18:32	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00014	1	03/20/18 09:19	03/21/18 18:32	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	03/20/18 09:19	03/21/18 18:32	7440-62-2	
Zinc	ND	mg/L	0.010	0.0021	1	03/20/18 09:19	03/21/18 18:32	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	03/20/18 13:30	03/20/18 19:45	7439-97-6	
2320B Alkalinity Low Level	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	1.0	1.0	1		03/20/18 14:04		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	1.0	1.0	1		03/20/18 14:04		
Alkalinity, Total as CaCO3	ND	mg/L	1.0	1.0	1		03/20/18 14:04		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		03/21/18 17:19		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**0.26**	mg/L	0.25	0.024	1		03/21/18 12:26	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		03/21/18 12:26	16984-48-8	
Sulfate	ND	mg/L	1.0	0.017	1		03/21/18 12:26	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells 9+10
Pace Project No.: 262969

QC Batch: 2819 Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
Associated Lab Samples: 262969001, 262969002, 262969003, 262969004, 262969005, 262969006, 262969007, 262969008, 262969009, 262969010, 262969011, 262969012

METHOD BLANK: 14727 Matrix: Water
Associated Lab Samples: 262969001, 262969002, 262969003, 262969004, 262969005, 262969006, 262969007, 262969008, 262969009, 262969010, 262969011, 262969012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00050	0.000036	03/20/18 19:02	

LABORATORY CONTROL SAMPLE: 14728

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	.0025	0.0025	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 14729 14730

Parameter	Units	262969002 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	.0025	.0025	0.0025	0.0025	101	98	75-125	3	20	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells 9+10
Pace Project No.: 262969

QC Batch: 2813 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020B MET
Associated Lab Samples: 262969001, 262969002, 262969003, 262969004, 262969005, 262969006, 262969007, 262969008, 262969009, 262969010, 262969011, 262969012

METHOD BLANK: 14712 Matrix: Water
Associated Lab Samples: 262969001, 262969002, 262969003, 262969004, 262969005, 262969006, 262969007, 262969008, 262969009, 262969010, 262969011, 262969012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	03/21/18 15:14	
Arsenic	mg/L	ND	0.0050	0.00057	03/21/18 15:14	
Barium	mg/L	ND	0.010	0.00078	03/21/18 15:14	
Beryllium	mg/L	ND	0.0030	0.000050	03/21/18 15:14	
Boron	mg/L	ND	0.040	0.0039	03/21/18 15:14	
Cadmium	mg/L	ND	0.0010	0.000093	03/21/18 15:14	
Calcium	mg/L	ND	0.50	0.014	03/21/18 15:14	
Chromium	mg/L	ND	0.010	0.0016	03/21/18 15:14	
Cobalt	mg/L	ND	0.010	0.00052	03/21/18 15:14	
Copper	mg/L	ND	0.025	0.0013	03/21/18 15:14	
Lead	mg/L	ND	0.0050	0.00027	03/21/18 15:14	
Magnesium	mg/L	ND	0.050	0.0062	03/21/18 15:14	
Nickel	mg/L	ND	0.010	0.00095	03/21/18 15:14	
Potassium	mg/L	ND	0.10	0.035	03/21/18 15:14	
Selenium	mg/L	ND	0.010	0.0014	03/21/18 15:14	
Silver	mg/L	ND	0.010	0.00095	03/21/18 15:14	
Sodium	mg/L	ND	0.10	0.015	03/21/18 15:14	
Thallium	mg/L	ND	0.0010	0.00014	03/21/18 15:14	
Vanadium	mg/L	ND	0.010	0.0019	03/21/18 15:14	
Zinc	mg/L	0.0087J	0.010	0.0021	03/21/18 15:14	

LABORATORY CONTROL SAMPLE: 14713

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	.1	0.11	106	80-120	
Arsenic	mg/L	.1	0.10	100	80-120	
Barium	mg/L	.1	0.10	103	80-120	
Beryllium	mg/L	.1	0.10	103	80-120	
Boron	mg/L	1	1.0	104	80-120	
Cadmium	mg/L	.1	0.10	103	80-120	
Calcium	mg/L	1	1.0	104	80-120	
Chromium	mg/L	.1	0.10	104	80-120	
Cobalt	mg/L	.1	0.099	99	80-120	
Copper	mg/L	.1	0.099	99	80-120	
Lead	mg/L	.1	0.10	102	80-120	
Magnesium	mg/L	1	1.0	101	80-120	
Nickel	mg/L	.1	0.099	99	80-120	
Potassium	mg/L	1	1.0	103	80-120	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells 9+10
Pace Project No.: 262969

LABORATORY CONTROL SAMPLE: 14713

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Selenium	mg/L	.1	0.10	104	80-120	
Silver	mg/L	.1	0.090	90	80-120	
Sodium	mg/L	1	1.0	101	80-120	
Thallium	mg/L	.1	0.10	103	80-120	
Vanadium	mg/L	.1	0.11	105	80-120	
Zinc	mg/L	.1	0.11	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 14714 14715

Parameter	Units	262969001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	0.00086J	.1	.1	0.11	0.11	105	107	75-125	2	20	
Arsenic	mg/L	ND	.1	.1	0.099	0.099	99	99	75-125	0	20	
Barium	mg/L	0.0057J	.1	.1	0.11	0.11	100	103	75-125	3	20	
Beryllium	mg/L	ND	.1	.1	0.10	0.10	103	103	75-125	1	20	
Boron	mg/L	0.0077J	1	1	1.0	1.0	102	101	75-125	0	20	
Cadmium	mg/L	ND	.1	.1	0.10	0.10	103	102	75-125	0	20	
Calcium	mg/L	0.77	1	1	1.8	1.8	104	99	75-125	3	20	
Chromium	mg/L	ND	.1	.1	0.10	0.10	103	104	75-125	1	20	
Cobalt	mg/L	0.0012J	.1	.1	0.10	0.10	101	99	75-125	2	20	
Copper	mg/L	ND	.1	.1	0.098	0.10	98	101	75-125	3	20	
Lead	mg/L	ND	.1	.1	0.10	0.10	102	101	75-125	1	20	
Magnesium	mg/L	0.48	1	1	1.5	1.5	101	100	75-125	1	20	
Nickel	mg/L	0.0011J	.1	.1	0.10	0.099	99	98	75-125	1	20	
Potassium	mg/L	0.23	1	1	1.3	1.3	105	106	75-125	1	20	
Selenium	mg/L	ND	.1	.1	0.10	0.10	104	104	75-125	1	20	
Silver	mg/L	ND	.1	.1	0.091	0.091	91	91	75-125	0	20	
Sodium	mg/L	1.9	1	1	2.8	2.9	96	100	75-125	1	20	
Thallium	mg/L	ND	.1	.1	0.10	0.10	101	100	75-125	1	20	
Vanadium	mg/L	ND	.1	.1	0.10	0.10	100	104	75-125	4	20	
Zinc	mg/L	0.0025J	.1	.1	0.11	0.10	103	102	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells 9+10
Pace Project No.: 262969

QC Batch: 3164 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 262969004, 262969008, 262969009

METHOD BLANK: 16361 Matrix: Water
Associated Lab Samples: 262969004, 262969008, 262969009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	20.0	20.0	03/26/18 11:36	

LABORATORY CONTROL SAMPLE: 16362

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	100	101	101	85-115	

SAMPLE DUPLICATE: 16363

Parameter	Units	262962001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	159	158	1	10	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells 9+10
Pace Project No.: 262969

QC Batch: 2834 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity, Low Level
Associated Lab Samples: 262969011, 262969012

METHOD BLANK: 14788 Matrix: Water
Associated Lab Samples: 262969011, 262969012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	1.0	1.0	03/20/18 13:24	

LABORATORY CONTROL SAMPLE: 14789

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	49.0	98	85-115	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells 9+10
Pace Project No.: 262969

QC Batch: 3193 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity, Low Level
Associated Lab Samples: 262969001, 262969003, 262969005, 262969007

METHOD BLANK: 16458 Matrix: Water
Associated Lab Samples: 262969001, 262969003, 262969005, 262969007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	1.0	1.0	03/26/18 15:15	

LABORATORY CONTROL SAMPLE: 16459

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.0	100	85-115	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells 9+10
Pace Project No.: 262969

QC Batch: 402965 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 262969001, 262969002, 262969003, 262969004, 262969005, 262969006, 262969007, 262969008, 262969009, 262969010, 262969011, 262969012

METHOD BLANK: 2235297 Matrix: Water
Associated Lab Samples: 262969001, 262969002, 262969003, 262969004, 262969005, 262969006, 262969007, 262969008, 262969009, 262969010, 262969011, 262969012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	03/26/18 14:51	

LABORATORY CONTROL SAMPLE: 2235298

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	268	107	90-110	

SAMPLE DUPLICATE: 2235299

Parameter	Units	92377175006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	79.0	80.0	1	5	

SAMPLE DUPLICATE: 2235300

Parameter	Units	262969004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	88.0	93.3	6	5	D6

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells 9+10
Pace Project No.: 262969

QC Batch: 2892 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 262969001, 262969002, 262969003, 262969004, 262969005, 262969006, 262969007, 262969008, 262969009, 262969010, 262969011, 262969012

METHOD BLANK: 15092 Matrix: Water
Associated Lab Samples: 262969001, 262969002, 262969003, 262969004, 262969005, 262969006, 262969007, 262969008, 262969009, 262969010, 262969011, 262969012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	0.024	03/21/18 05:04	
Fluoride	mg/L	ND	0.30	0.029	03/21/18 05:04	
Sulfate	mg/L	ND	1.0	0.017	03/21/18 05:04	

LABORATORY CONTROL SAMPLE: 15093

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	10	10.4	104	90-110	
Fluoride	mg/L	10	10.9	109	90-110	
Sulfate	mg/L	10	10.6	106	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 15094 15095

Parameter	Units	262969001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	1.2	10	10	10.8	10.7	96	95	90-110	1	15	
Fluoride	mg/L	ND	10	10	10.6	10.5	106	105	90-110	0	15	
Sulfate	mg/L	0.75J	10	10	10.9	10.9	101	101	90-110	0	15	

MATRIX SPIKE SAMPLE: 15096

Parameter	Units	262978004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	1.6	10	11.4	98	90-110	
Fluoride	mg/L	ND	10	10.8	108	90-110	
Sulfate	mg/L	14.8	10	23.8	89	90-110	M1

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALIFIERS

Project: Plant Bowen cells 9+10
Pace Project No.: 262969

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.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-A	Pace Analytical Services - Asheville
PASI-GA	Pace Analytical Services - Atlanta, GA

ANALYTE QUALIFIERS

B	Analyte was detected in the associated method blank.
D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
D6	The precision between the sample and sample duplicate exceeded laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

Pace Analytical Services, LLC
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Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Bowen cells 9+10
Pace Project No.: 262969

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
262969001	GWC-45	EPA 3005A	2813	EPA 6020B	2939
262969002	GWC-45R	EPA 3005A	2813	EPA 6020B	2939
262969003	GWC-49Z	EPA 3005A	2813	EPA 6020B	2939
262969004	GWC-49R	EPA 3005A	2813	EPA 6020B	2939
262969005	GWC-44	EPA 3005A	2813	EPA 6020B	2939
262969006	GWC-46R	EPA 3005A	2813	EPA 6020B	2939
262969007	GWC-48	EPA 3005A	2813	EPA 6020B	2939
262969008	GWA-43R	EPA 3005A	2813	EPA 6020B	2939
262969009	GWC-47	EPA 3005A	2813	EPA 6020B	2939
262969010	Dup-2	EPA 3005A	2813	EPA 6020B	2939
262969011	FBL031518	EPA 3005A	2813	EPA 6020B	2939
262969012	EQBL031518	EPA 3005A	2813	EPA 6020B	2939
262969001	GWC-45	EPA 7470A	2819	EPA 7470A	2877
262969002	GWC-45R	EPA 7470A	2819	EPA 7470A	2877
262969003	GWC-49Z	EPA 7470A	2819	EPA 7470A	2877
262969004	GWC-49R	EPA 7470A	2819	EPA 7470A	2877
262969005	GWC-44	EPA 7470A	2819	EPA 7470A	2877
262969006	GWC-46R	EPA 7470A	2819	EPA 7470A	2877
262969007	GWC-48	EPA 7470A	2819	EPA 7470A	2877
262969008	GWA-43R	EPA 7470A	2819	EPA 7470A	2877
262969009	GWC-47	EPA 7470A	2819	EPA 7470A	2877
262969010	Dup-2	EPA 7470A	2819	EPA 7470A	2877
262969011	FBL031518	EPA 7470A	2819	EPA 7470A	2877
262969012	EQBL031518	EPA 7470A	2819	EPA 7470A	2877
262969004	GWC-49R	SM 2320B	3164		
262969008	GWA-43R	SM 2320B	3164		
262969009	GWC-47	SM 2320B	3164		
262969001	GWC-45	SM 2320B	3193		
262969003	GWC-49Z	SM 2320B	3193		
262969005	GWC-44	SM 2320B	3193		
262969007	GWC-48	SM 2320B	3193		
262969011	FBL031518	SM 2320B	2834		
262969012	EQBL031518	SM 2320B	2834		
262969001	GWC-45	SM 2540C	402965		
262969002	GWC-45R	SM 2540C	402965		
262969003	GWC-49Z	SM 2540C	402965		
262969004	GWC-49R	SM 2540C	402965		
262969005	GWC-44	SM 2540C	402965		
262969006	GWC-46R	SM 2540C	402965		
262969007	GWC-48	SM 2540C	402965		
262969008	GWA-43R	SM 2540C	402965		
262969009	GWC-47	SM 2540C	402965		
262969010	Dup-2	SM 2540C	402965		
262969011	FBL031518	SM 2540C	402965		
262969012	EQBL031518	SM 2540C	402965		
262969001	GWC-45	EPA 300.0	2892		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Bowen cells 9+10
Pace Project No.: 262969

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
262969002	**GWC-45R**	EPA 300.0	2892		
262969003	**GWC-49Z**	EPA 300.0	2892		
262969004	**GWC-49R**	EPA 300.0	2892		
262969005	**GWC-44**	EPA 300.0	2892		
262969006	**GWC-46R**	EPA 300.0	2892		
262969007	**GWC-48**	EPA 300.0	2892		
262969008	**GWA-43R**	EPA 300.0	2892		
262969009	**GWC-47**	EPA 300.0	2892		
262969010	**Dup-2**	EPA 300.0	2892		
262969011	**FBL031518**	EPA 300.0	2892		
262969012	**EQBL031518**	EPA 300.0	2892		

CHAIN OF CUSTODY RECORD

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

PAGE: 1 OF 1

CLIENT NAME: Southern Company Services

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

REPORT TO: Joy Adamson
CC: Maura Padilla
REQUESTED COMPLETION DATE:
PO #: GPC0684188

PROJECT NAME/STATE:
Plant Bowen Cells 9&10 CCR + Bottom Ash Pond

PROJECT #:

Collection DATE	Collection TIME	MATRIX CODE*	COMP	GRAB	SAMPLE IDENTIFICATION	# of CONTAINERS	Metals 6020	Boron 6020	Mg, Mn, Mo 6020	CL, SO4 300	CO3, HCO3 SM2320B
					CONTAINER TYPE:		P	P	P	P	P
					PRESERVATION:		3	3	3	7	7
3/15/18	1040	GW		X	GWC-45	2	X	X	X	X	X
3/15/18	1155	GW		X	GWC-45R	2	X	X		X	
3/15/18	1342	GW		X	GWC-49Z	2	X	X	X	X	X
3/15/18	1451	GW		X	GWC-49R	2	X	X	X	X	X
3/15/18	1030	GW		X	GWC-44	2	X	X	X	X	X
3/15/18	1148	GW		X	GWC-46R	2	X	X		X	
3/16/18	1318	GW		X	GWC-48	2	X	X	X	X	X
3/15/18	1245	GW		X	GWA-43R	2	X	X	X	X	X
3/15/18	1600	GW		X	GWC-47	2	X	X	X	X	X
3/15/18	—	GW		X	DUP-2	2	X	X		X	
3/15/18	1504	W		X	FB_031518	2	X	X	X	X	X
3/15/18	1608	W		X	EQBL031518	2	X	X	X	X	X

LAB ID NUMBER

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

PRESERVATION
1 - HCl, ≤6°C
2 - H_2SO_4, ≤6°C
3 - HNO_3
4 - NaOH, ≤6°C
5 - NaOH/ZnAc, ≤6°C
6 - $Na_2S_2O_3$, ≤6°C
7 - ≤6°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

WO# : 262969
262969

SAMPLED BY AND TITLE: Brent Mull, Bruce Beckham, Maura Padilla
DATE/TIME: 3/15/18 @ 1635
RELINQUISHED BY: Cindy Martin
DATE/TIME: 3/16/2018 10:19
RECEIVED BY: Mike Nguyen
DATE/TIME: 3/16/18 1019
RELINQUISHED BY:
DATE/TIME:
RECEIVED BY LAB: M Latman
DATE/TIME: 03/16/18 1600
SAMPLE SHIPPED VIA: UPS FED-EX USPS COURIER Pace CLIENT OTHER FS

FOR LAB USE ONLY
LAB #:
Entered into LIMS:
Tracking #:

pH checked: Yes No NA
Ice: Yes No NA
Temperature: Min: 0.2 Max:
Custody Seal: Intact Broken Not Present
# of Coolers
Cooler ID:

Sample Condition Upon Receipt

Pace Analytical

Client Name: GA Power

Project #

WO# : 262969

PM: BM Due Date: 03/23/18

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: 03/16/18 MR

			Comments:
Chain of Custody Present:	☑Yes	☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes	☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes	☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes	☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes	☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes	☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes	☑No ☐N/A	7.
Sufficient Volume:	☑Yes	☐No ☐N/A	8.
Correct Containers Used:	☑Yes	☐No ☐N/A	9.
-Pace Containers Used:	☑Yes	☐No ☐N/A	
Containers Intact:	☑Yes	☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes	☐No ☑N/A	11.
Sample Labels match COC:	☑Yes	☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: GW			
All containers needing preservation have been checked.	☑Yes	☐No ☐N/A	13
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes	☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes	☑No	Initial when completed / Lot # of added preservative
Samples checked for dechlorination:	☐Yes	☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes	☐No ☑N/A	15.
Trip Blank Present:	☐Yes	☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes	☐No ☑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).

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

May 16, 2018

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

RE: Project: Plant Bowen cells 9+10
Pace Project No.: 262975

Dear Joju Abraham:
Enclosed are the analytical results for sample(s) received by the laboratory on March 16, 2018. 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.

REV05082018_report revised to correct MDL / J-flag settings.

REV05162018_report revised to set reporting limits in accordance with project scope.

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: Maria Padilla, Georgia Power
Greg Wrenn, Wood PLC

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

CERTIFICATIONS

Project: Plant Bowen cells 9+10
Pace Project No.: 262975

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
Texas Certification #: T104704397-08-TX
Virginia Certification #: 460204

Asheville Certification IDs

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE SUMMARY

Project: Plant Bowen cells 9+10
Pace Project No.: 262975

Lab ID	Sample ID	Matrix	Date Collected	Date Received
262975001	**GWA-40**	Water	03/14/18 14:20	03/16/18 16:00
262975002	**GWA-41R**	Water	03/14/18 16:26	03/16/18 16:00
262975003	**GWA-41**	Water	03/14/18 14:58	03/16/18 16:00
262975004	**GWA-42**	Water	03/14/18 14:56	03/16/18 16:00
262975005	**GWA-43**	Water	03/14/18 16:04	03/16/18 16:00
262975006	**Dup-1**	Water	03/14/18 00:00	03/16/18 16:00
262975007	**GWA-39Z**	Water	03/14/18 16:55	03/16/18 16:00

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE ANALYTE COUNT

Project: Plant Bowen cells 9+10
Pace Project No.: 262975

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
262975001	**GWA-40**	EPA 6020B	CSW	20	PASI-GA
		EPA 7470A	MTC	1	PASI-GA
		SM 2320B	JAD	3	PASI-GA
		SM 2540C	MVC	1	PASI-A
		EPA 300.0	RLC	3	PASI-GA
262975002	**GWA-41R**	EPA 6020B	CSW	20	PASI-GA
		EPA 7470A	MTC	1	PASI-GA
		SM 2320B	JAD	3	PASI-GA
		SM 2540C	MVC	1	PASI-A
		EPA 300.0	RLC	3	PASI-GA
262975003	**GWA-41**	EPA 6020B	CSW	20	PASI-GA
		EPA 7470A	MTC	1	PASI-GA
		SM 2320B	JAD	3	PASI-GA
		SM 2540C	MVC	1	PASI-A
		EPA 300.0	RLC	3	PASI-GA
262975004	**GWA-42**	EPA 6020B	CSW	20	PASI-GA
		EPA 7470A	MTC	1	PASI-GA
		SM 2320B	JAD	3	PASI-GA
		SM 2540C	MVC	1	PASI-A
		EPA 300.0	RLC	3	PASI-GA
262975005	**GWA-43**	EPA 6020B	CSW	20	PASI-GA
		EPA 7470A	MTC	1	PASI-GA
		SM 2320B	JAD	3	PASI-GA
		SM 2540C	MVC	1	PASI-A
		EPA 300.0	RLC	3	PASI-GA
262975006	**Dup-1**	EPA 6020B	CSW	20	PASI-GA
		EPA 7470A	MTC	1	PASI-GA
		SM 2320B	JAD	3	PASI-GA
		SM 2540C	MVC	1	PASI-A
		EPA 300.0	RLC	3	PASI-GA
262975007	**GWA-39Z**	EPA 6020B	CSW	20	PASI-GA
		EPA 7470A	MTC	1	PASI-GA
		SM 2320B	JAD	3	PASI-GA
		SM 2540C	MVC	1	PASI-A
		EPA 300.0	RLC	3	PASI-GA

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells 9+10
Pace Project No.: 262975

Sample: GWA-40 **Lab ID: 262975001** Collected: 03/14/18 14:20 Received: 03/16/18 16:00 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	03/20/18 09:19	03/21/18 19:00	7440-36-0	
Arsenic	**0.00075J**	mg/L	0.0050	0.00057	1	03/20/18 09:19	03/21/18 19:00	7440-38-2	
Barium	**0.0064J**	mg/L	0.010	0.00078	1	03/20/18 09:19	03/21/18 19:00	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	03/20/18 09:19	03/21/18 19:00	7440-41-7	
Boron	**0.0093J**	mg/L	0.040	0.0039	1	03/20/18 09:19	03/21/18 19:00	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	03/20/18 09:19	03/21/18 19:00	7440-43-9	
Calcium	**25.7**	mg/L	25.0	0.69	50	03/20/18 09:19	03/21/18 19:06	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	03/20/18 09:19	03/21/18 19:00	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	03/20/18 09:19	03/21/18 19:00	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	03/20/18 09:19	03/21/18 19:00	7440-50-8	
Lead	**0.00046J**	mg/L	0.0050	0.00027	1	03/20/18 09:19	03/21/18 19:00	7439-92-1	
Magnesium	**14.8**	mg/L	2.5	0.31	50	03/20/18 09:19	03/21/18 19:06	7439-95-4	
Nickel	ND	mg/L	0.010	0.00095	1	03/20/18 09:19	03/21/18 19:00	7440-02-0	
Potassium	**0.73**	mg/L	0.10	0.035	1	03/20/18 09:19	03/21/18 19:00	7440-09-7	
Selenium	ND	mg/L	0.010	0.0014	1	03/20/18 09:19	03/21/18 19:00	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	03/20/18 09:19	03/21/18 19:00	7440-22-4	
Sodium	**1.1**	mg/L	0.10	0.015	1	03/20/18 09:19	03/21/18 19:00	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00014	1	03/20/18 09:19	03/21/18 19:00	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	03/20/18 09:19	03/21/18 19:00	7440-62-2	
Zinc	**0.0021J**	mg/L	0.010	0.0021	1	03/20/18 09:19	03/21/18 19:00	7440-66-6	B
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	03/20/18 13:30	03/20/18 19:49	7439-97-6	
2320B Alkalinity Low Level	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**124**	mg/L	1.0	1.0	1		03/20/18 15:22		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	1.0	1.0	1		03/20/18 15:22		
Alkalinity, Total as CaCO3	**124**	mg/L	1.0	1.0	1		03/20/18 15:22		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**123**	mg/L	25.0	25.0	1		03/21/18 20:48		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**2.4**	mg/L	0.25	0.024	1		03/23/18 02:16	16887-00-6	
Fluoride	**0.055J**	mg/L	0.30	0.029	1		03/23/18 02:16	16984-48-8	
Sulfate	**3.8**	mg/L	1.0	0.017	1		03/23/18 02:16	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells 9+10
Pace Project No.: 262975

Sample: GWA-41R **Lab ID: 262975002** Collected: 03/14/18 16:26 Received: 03/16/18 16:00 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	03/20/18 09:19	03/21/18 19:12	7440-36-0	
Arsenic	**0.00093J**	mg/L	0.0050	0.00057	1	03/20/18 09:19	03/21/18 19:12	7440-38-2	
Barium	**0.036**	mg/L	0.010	0.00078	1	03/20/18 09:19	03/21/18 19:12	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	03/20/18 09:19	03/21/18 19:12	7440-41-7	
Boron	**0.014J**	mg/L	0.040	0.0039	1	03/20/18 09:19	03/21/18 19:12	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	03/20/18 09:19	03/21/18 19:12	7440-43-9	
Calcium	**41.4**	mg/L	25.0	0.69	50	03/20/18 09:19	03/21/18 19:17	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	03/20/18 09:19	03/21/18 19:12	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	03/20/18 09:19	03/21/18 19:12	7440-48-4	
Copper	**0.0021J**	mg/L	0.025	0.0013	1	03/20/18 09:19	03/21/18 19:12	7440-50-8	
Lead	**0.00031J**	mg/L	0.0050	0.00027	1	03/20/18 09:19	03/21/18 19:12	7439-92-1	
Magnesium	**23.8**	mg/L	2.5	0.31	50	03/20/18 09:19	03/21/18 19:17	7439-95-4	
Nickel	**0.0014J**	mg/L	0.010	0.00095	1	03/20/18 09:19	03/21/18 19:12	7440-02-0	
Potassium	**2.4**	mg/L	0.10	0.035	1	03/20/18 09:19	03/21/18 19:12	7440-09-7	
Selenium	ND	mg/L	0.010	0.0014	1	03/20/18 09:19	03/21/18 19:12	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	03/20/18 09:19	03/21/18 19:12	7440-22-4	
Sodium	**0.74**	mg/L	0.10	0.015	1	03/20/18 09:19	03/21/18 19:12	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00014	1	03/20/18 09:19	03/21/18 19:12	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	03/20/18 09:19	03/21/18 19:12	7440-62-2	
Zinc	**0.0031J**	mg/L	0.010	0.0021	1	03/20/18 09:19	03/21/18 19:12	7440-66-6	B
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	03/20/18 13:30	03/20/18 19:52	7439-97-6	
2320B Alkalinity Low Level	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**191**	mg/L	1.0	1.0	1		03/22/18 12:27		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	1.0	1.0	1		03/22/18 12:27		
Alkalinity, Total as CaCO3	**191**	mg/L	1.0	1.0	1		03/22/18 12:27		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**210**	mg/L	25.0	25.0	1		03/21/18 20:48		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**4.0**	mg/L	0.25	0.024	1		03/23/18 03:19	16887-00-6	M1
Fluoride	ND	mg/L	0.30	0.029	1		03/23/18 03:19	16984-48-8	
Sulfate	**10.9**	mg/L	1.0	0.017	1		03/23/18 03:19	14808-79-8	M1

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells 9+10
Pace Project No.: 262975

Sample: GWA-41 **Lab ID: 262975003** Collected: 03/14/18 14:58 Received: 03/16/18 16:00 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	03/20/18 09:19	03/21/18 19:23	7440-36-0	
Arsenic	**0.00096J**	mg/L	0.0050	0.00057	1	03/20/18 09:19	03/21/18 19:23	7440-38-2	
Barium	**0.021**	mg/L	0.010	0.00078	1	03/20/18 09:19	03/21/18 19:23	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	03/20/18 09:19	03/21/18 19:23	7440-41-7	
Boron	**0.011J**	mg/L	0.040	0.0039	1	03/20/18 09:19	03/21/18 19:23	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	03/20/18 09:19	03/21/18 19:23	7440-43-9	
Calcium	**39.6**	mg/L	25.0	0.69	50	03/20/18 09:19	03/21/18 19:29	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	03/20/18 09:19	03/21/18 19:23	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	03/20/18 09:19	03/21/18 19:23	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	03/20/18 09:19	03/21/18 19:23	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	03/20/18 09:19	03/21/18 19:23	7439-92-1	
Magnesium	**23.2**	mg/L	2.5	0.31	50	03/20/18 09:19	03/21/18 19:29	7439-95-4	
Nickel	ND	mg/L	0.010	0.00095	1	03/20/18 09:19	03/21/18 19:23	7440-02-0	
Potassium	**1.8**	mg/L	0.10	0.035	1	03/20/18 09:19	03/21/18 19:23	7440-09-7	
Selenium	ND	mg/L	0.010	0.0014	1	03/20/18 09:19	03/21/18 19:23	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	03/20/18 09:19	03/21/18 19:23	7440-22-4	
Sodium	**0.97**	mg/L	0.10	0.015	1	03/20/18 09:19	03/21/18 19:23	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00014	1	03/20/18 09:19	03/21/18 19:23	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	03/20/18 09:19	03/21/18 19:23	7440-62-2	
Zinc	**0.0025J**	mg/L	0.010	0.0021	1	03/20/18 09:19	03/21/18 19:23	7440-66-6	B
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	03/20/18 13:30	03/20/18 19:59	7439-97-6	
2320B Alkalinity Low Level	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**176**	mg/L	1.0	1.0	1		03/22/18 12:33		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	1.0	1.0	1		03/22/18 12:33		
Alkalinity, Total as CaCO3	**176**	mg/L	1.0	1.0	1		03/22/18 12:33		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**192**	mg/L	25.0	25.0	1		03/21/18 20:48		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**3.0**	mg/L	0.25	0.024	1		03/23/18 03:41	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		03/23/18 03:41	16984-48-8	
Sulfate	**11.5**	mg/L	1.0	0.017	1		03/23/18 03:41	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells 9+10
Pace Project No.: 262975

Sample: GWA-42 **Lab ID: 262975004** Collected: 03/14/18 14:56 Received: 03/16/18 16:00 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	03/20/18 09:19	03/21/18 19:35	7440-36-0	
Arsenic	**0.00079J**	mg/L	0.0050	0.00057	1	03/20/18 09:19	03/21/18 19:35	7440-38-2	
Barium	**0.0065J**	mg/L	0.010	0.00078	1	03/20/18 09:19	03/21/18 19:35	7440-39-3	
Beryllium	**0.00014J**	mg/L	0.0030	0.000050	1	03/20/18 09:19	03/21/18 19:35	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	03/20/18 09:19	03/21/18 19:35	7440-42-8	
Cadmium	**0.00011J**	mg/L	0.0010	0.000093	1	03/20/18 09:19	03/21/18 19:35	7440-43-9	
Calcium	**32.6**	mg/L	25.0	0.69	50	03/20/18 09:19	03/21/18 19:40	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	03/20/18 09:19	03/21/18 19:35	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	03/20/18 09:19	03/21/18 19:35	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	03/20/18 09:19	03/21/18 19:35	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	03/20/18 09:19	03/21/18 19:35	7439-92-1	
Magnesium	**15.6**	mg/L	2.5	0.31	50	03/20/18 09:19	03/21/18 19:40	7439-95-4	
Nickel	**0.0012J**	mg/L	0.010	0.00095	1	03/20/18 09:19	03/21/18 19:35	7440-02-0	
Potassium	**0.34**	mg/L	0.10	0.035	1	03/20/18 09:19	03/21/18 19:35	7440-09-7	
Selenium	ND	mg/L	0.010	0.0014	1	03/20/18 09:19	03/21/18 19:35	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	03/20/18 09:19	03/21/18 19:35	7440-22-4	
Sodium	**2.3**	mg/L	0.10	0.015	1	03/20/18 09:19	03/21/18 19:35	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00014	1	03/20/18 09:19	03/21/18 19:35	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	03/20/18 09:19	03/21/18 19:35	7440-62-2	
Zinc	**0.010**	mg/L	0.010	0.0021	1	03/20/18 09:19	03/21/18 19:35	7440-66-6	B
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	03/20/18 13:30	03/20/18 20:01	7439-97-6	
2320B Alkalinity Low Level	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**144**	mg/L	1.0	1.0	1		03/22/18 12:38		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	1.0	1.0	1		03/22/18 12:38		
Alkalinity, Total as CaCO3	**144**	mg/L	1.0	1.0	1		03/22/18 12:38		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**134**	mg/L	25.0	25.0	1		03/21/18 20:48		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**3.2**	mg/L	0.25	0.024	1		03/23/18 04:02	16887-00-6	
Fluoride	**0.060J**	mg/L	0.30	0.029	1		03/23/18 04:02	16984-48-8	
Sulfate	**2.1**	mg/L	1.0	0.017	1		03/23/18 04:02	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells 9+10
Pace Project No.: 262975

Sample: GWA-43 **Lab ID: 262975005** Collected: 03/14/18 16:04 Received: 03/16/18 16:00 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	03/20/18 09:19	03/21/18 19:57	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	03/20/18 09:19	03/21/18 19:57	7440-38-2	
Barium	**0.016**	mg/L	0.010	0.00078	1	03/20/18 09:19	03/21/18 19:57	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	03/20/18 09:19	03/21/18 19:57	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	03/20/18 09:19	03/21/18 19:57	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	03/20/18 09:19	03/21/18 19:57	7440-43-9	
Calcium	**3.6**	mg/L	0.50	0.014	1	03/20/18 09:19	03/21/18 19:57	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	03/20/18 09:19	03/21/18 19:57	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	03/20/18 09:19	03/21/18 19:57	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	03/20/18 09:19	03/21/18 19:57	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	03/20/18 09:19	03/21/18 19:57	7439-92-1	
Magnesium	**0.46**	mg/L	0.050	0.0062	1	03/20/18 09:19	03/21/18 19:57	7439-95-4	
Nickel	ND	mg/L	0.010	0.00095	1	03/20/18 09:19	03/21/18 19:57	7440-02-0	
Potassium	**0.51**	mg/L	0.10	0.035	1	03/20/18 09:19	03/21/18 19:57	7440-09-7	
Selenium	ND	mg/L	0.010	0.0014	1	03/20/18 09:19	03/21/18 19:57	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	03/20/18 09:19	03/21/18 19:57	7440-22-4	
Sodium	**1.3**	mg/L	0.10	0.015	1	03/20/18 09:19	03/21/18 19:57	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00014	1	03/20/18 09:19	03/21/18 19:57	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	03/20/18 09:19	03/21/18 19:57	7440-62-2	
Zinc	ND	mg/L	0.010	0.0021	1	03/20/18 09:19	03/21/18 19:57	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	03/20/18 13:30	03/20/18 20:04	7439-97-6	
2320B Alkalinity Low Level	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**11.0**	mg/L	1.0	1.0	1		03/22/18 12:42		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	1.0	1.0	1		03/22/18 12:42		
Alkalinity, Total as CaCO3	**11.0**	mg/L	1.0	1.0	1		03/22/18 12:42		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		03/21/18 20:48		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**1.3**	mg/L	0.25	0.024	1		03/23/18 04:23	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		03/23/18 04:23	16984-48-8	
Sulfate	**0.39J**	mg/L	1.0	0.017	1		03/23/18 04:23	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells 9+10
Pace Project No.: 262975

Sample: Dup-1 **Lab ID: 262975006** Collected: 03/14/18 00:00 Received: 03/16/18 16:00 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	03/20/18 09:19	03/21/18 20:09	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	03/20/18 09:19	03/21/18 20:09	7440-38-2	
Barium	**0.017**	mg/L	0.010	0.00078	1	03/20/18 09:19	03/21/18 20:09	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	03/20/18 09:19	03/21/18 20:09	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	03/20/18 09:19	03/21/18 20:09	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	03/20/18 09:19	03/21/18 20:09	7440-43-9	
Calcium	**3.6**	mg/L	0.50	0.014	1	03/20/18 09:19	03/21/18 20:09	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	03/20/18 09:19	03/21/18 20:09	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	03/20/18 09:19	03/21/18 20:09	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	03/20/18 09:19	03/21/18 20:09	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	03/20/18 09:19	03/21/18 20:09	7439-92-1	
Magnesium	**0.45**	mg/L	0.050	0.0062	1	03/20/18 09:19	03/21/18 20:09	7439-95-4	
Nickel	ND	mg/L	0.010	0.00095	1	03/20/18 09:19	03/21/18 20:09	7440-02-0	
Potassium	**0.50**	mg/L	0.10	0.035	1	03/20/18 09:19	03/21/18 20:09	7440-09-7	
Selenium	ND	mg/L	0.010	0.0014	1	03/20/18 09:19	03/21/18 20:09	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	03/20/18 09:19	03/21/18 20:09	7440-22-4	
Sodium	**1.3**	mg/L	0.10	0.015	1	03/20/18 09:19	03/21/18 20:09	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00014	1	03/20/18 09:19	03/21/18 20:09	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	03/20/18 09:19	03/21/18 20:09	7440-62-2	
Zinc	**0.0058J**	mg/L	0.010	0.0021	1	03/20/18 09:19	03/21/18 20:09	7440-66-6	B
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	03/20/18 13:30	03/20/18 20:06	7439-97-6	
2320B Alkalinity Low Level	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**10.0**	mg/L	1.0	1.0	1		03/22/18 12:46		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	1.0	1.0	1		03/22/18 12:46		
Alkalinity, Total as CaCO3	**10.0**	mg/L	1.0	1.0	1		03/22/18 12:46		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		03/21/18 20:48		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**1.3**	mg/L	0.25	0.024	1		03/23/18 04:44	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		03/23/18 04:44	16984-48-8	
Sulfate	**0.39J**	mg/L	1.0	0.017	1		03/23/18 04:44	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells 9+10
Pace Project No.: 262975

Sample: GWA-39Z **Lab ID: 262975007** Collected: 03/14/18 16:55 Received: 03/16/18 16:00 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	03/20/18 09:19	03/21/18 20:20	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	03/20/18 09:19	03/21/18 20:20	7440-38-2	
Barium	**0.027**	mg/L	0.010	0.00078	1	03/20/18 09:19	03/21/18 20:20	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	03/20/18 09:19	03/21/18 20:20	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	03/20/18 09:19	03/21/18 20:20	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	03/20/18 09:19	03/21/18 20:20	7440-43-9	
Calcium	**26.4**	mg/L	25.0	0.69	50	03/20/18 09:19	03/21/18 20:26	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	03/20/18 09:19	03/21/18 20:20	7440-47-3	
Cobalt	**0.00058J**	mg/L	0.010	0.00052	1	03/20/18 09:19	03/21/18 20:20	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	03/20/18 09:19	03/21/18 20:20	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	03/20/18 09:19	03/21/18 20:20	7439-92-1	
Magnesium	**15.5**	mg/L	2.5	0.31	50	03/20/18 09:19	03/21/18 20:26	7439-95-4	
Nickel	ND	mg/L	0.010	0.00095	1	03/20/18 09:19	03/21/18 20:20	7440-02-0	
Potassium	**1.2**	mg/L	0.10	0.035	1	03/20/18 09:19	03/21/18 20:20	7440-09-7	
Selenium	ND	mg/L	0.010	0.0014	1	03/20/18 09:19	03/21/18 20:20	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	03/20/18 09:19	03/21/18 20:20	7440-22-4	
Sodium	**1.2**	mg/L	0.10	0.015	1	03/20/18 09:19	03/21/18 20:20	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00014	1	03/20/18 09:19	03/21/18 20:20	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	03/20/18 09:19	03/21/18 20:20	7440-62-2	
Zinc	**0.0062J**	mg/L	0.010	0.0021	1	03/20/18 09:19	03/21/18 20:20	7440-66-6	B
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	03/20/18 13:30	03/20/18 20:08	7439-97-6	
2320B Alkalinity Low Level	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**128**	mg/L	1.0	1.0	1		03/22/18 12:52		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	1.0	1.0	1		03/22/18 12:52		
Alkalinity, Total as CaCO3	**128**	mg/L	1.0	1.0	1		03/22/18 12:52		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**126**	mg/L	25.0	25.0	1		03/21/18 20:48		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**1.4**	mg/L	0.25	0.024	1		03/23/18 05:05	16887-00-6	
Fluoride	**0.14J**	mg/L	0.30	0.029	1		03/23/18 05:05	16984-48-8	
Sulfate	**3.8**	mg/L	1.0	0.017	1		03/23/18 05:05	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells 9+10
Pace Project No.: 262975

QC Batch: 2819 Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
Associated Lab Samples: 262975001, 262975002, 262975003, 262975004, 262975005, 262975006, 262975007

METHOD BLANK: 14727 Matrix: Water
Associated Lab Samples: 262975001, 262975002, 262975003, 262975004, 262975005, 262975006, 262975007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00050	0.000036	03/20/18 19:02	

LABORATORY CONTROL SAMPLE: 14728

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	.0025	0.0025	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 14729 14730

Parameter	Units	262969002 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	.0025	.0025	0.0025	0.0025	101	98	75-125	3	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells 9+10
Pace Project No.: 262975

QC Batch: 2813 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020B MET
Associated Lab Samples: 262975001, 262975002, 262975003, 262975004, 262975005, 262975006, 262975007

METHOD BLANK: 14712 Matrix: Water
Associated Lab Samples: 262975001, 262975002, 262975003, 262975004, 262975005, 262975006, 262975007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	03/21/18 15:14	
Arsenic	mg/L	ND	0.0050	0.00057	03/21/18 15:14	
Barium	mg/L	ND	0.010	0.00078	03/21/18 15:14	
Beryllium	mg/L	ND	0.0030	0.000050	03/21/18 15:14	
Boron	mg/L	ND	0.040	0.0039	03/21/18 15:14	
Cadmium	mg/L	ND	0.0010	0.000093	03/21/18 15:14	
Calcium	mg/L	ND	0.50	0.014	03/21/18 15:14	
Chromium	mg/L	ND	0.010	0.0016	03/21/18 15:14	
Cobalt	mg/L	ND	0.010	0.00052	03/21/18 15:14	
Copper	mg/L	ND	0.025	0.0013	03/21/18 15:14	
Lead	mg/L	ND	0.0050	0.00027	03/21/18 15:14	
Magnesium	mg/L	ND	0.050	0.0062	03/21/18 15:14	
Nickel	mg/L	ND	0.010	0.00095	03/21/18 15:14	
Potassium	mg/L	ND	0.10	0.035	03/21/18 15:14	
Selenium	mg/L	ND	0.010	0.0014	03/21/18 15:14	
Silver	mg/L	ND	0.010	0.00095	03/21/18 15:14	
Sodium	mg/L	ND	0.10	0.015	03/21/18 15:14	
Thallium	mg/L	ND	0.0010	0.00014	03/21/18 15:14	
Vanadium	mg/L	ND	0.010	0.0019	03/21/18 15:14	
Zinc	mg/L	0.0087J	0.010	0.0021	03/21/18 15:14	

LABORATORY CONTROL SAMPLE: 14713

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	.1	0.11	106	80-120	
Arsenic	mg/L	.1	0.10	100	80-120	
Barium	mg/L	.1	0.10	103	80-120	
Beryllium	mg/L	.1	0.10	103	80-120	
Boron	mg/L	1	1.0	104	80-120	
Cadmium	mg/L	.1	0.10	103	80-120	
Calcium	mg/L	1	1.0	104	80-120	
Chromium	mg/L	.1	0.10	104	80-120	
Cobalt	mg/L	.1	0.099	99	80-120	
Copper	mg/L	.1	0.099	99	80-120	
Lead	mg/L	.1	0.10	102	80-120	
Magnesium	mg/L	1	1.0	101	80-120	
Nickel	mg/L	.1	0.099	99	80-120	
Potassium	mg/L	1	1.0	103	80-120	
Selenium	mg/L	.1	0.10	104	80-120	
Silver	mg/L	.1	0.090	90	80-120	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells 9+10
Pace Project No.: 262975

LABORATORY CONTROL SAMPLE: 14713

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sodium	mg/L	1	1.0	101	80-120	
Thallium	mg/L	.1	0.10	103	80-120	
Vanadium	mg/L	.1	0.11	105	80-120	
Zinc	mg/L	.1	0.11	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 14714 14715

Parameter	Units	262969001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	0.00086J	.1	.1	0.11	0.11	105	107	75-125	2	20	
Arsenic	mg/L	ND	.1	.1	0.099	0.099	99	99	75-125	0	20	
Barium	mg/L	0.0057J	.1	.1	0.11	0.11	100	103	75-125	3	20	
Beryllium	mg/L	ND	.1	.1	0.10	0.10	103	103	75-125	1	20	
Boron	mg/L	0.0077J	1	1	1.0	1.0	102	101	75-125	0	20	
Cadmium	mg/L	ND	.1	.1	0.10	0.10	103	102	75-125	0	20	
Calcium	mg/L	0.77	1	1	1.8	1.8	104	99	75-125	3	20	
Chromium	mg/L	ND	.1	.1	0.10	0.10	103	104	75-125	1	20	
Cobalt	mg/L	0.0012J	.1	.1	0.10	0.10	101	99	75-125	2	20	
Copper	mg/L	ND	.1	.1	0.098	0.10	98	101	75-125	3	20	
Lead	mg/L	ND	.1	.1	0.10	0.10	102	101	75-125	1	20	
Magnesium	mg/L	0.48	1	1	1.5	1.5	101	100	75-125	1	20	
Nickel	mg/L	0.0011J	.1	.1	0.10	0.099	99	98	75-125	1	20	
Potassium	mg/L	0.23	1	1	1.3	1.3	105	106	75-125	1	20	
Selenium	mg/L	ND	.1	.1	0.10	0.10	104	104	75-125	1	20	
Silver	mg/L	ND	.1	.1	0.091	0.091	91	91	75-125	0	20	
Sodium	mg/L	1.9	1	1	2.8	2.9	96	100	75-125	1	20	
Thallium	mg/L	ND	.1	.1	0.10	0.10	101	100	75-125	1	20	
Vanadium	mg/L	ND	.1	.1	0.10	0.10	100	104	75-125	4	20	
Zinc	mg/L	0.0025J	.1	.1	0.11	0.10	103	102	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells 9+10
Pace Project No.: 262975

QC Batch: 2834 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity, Low Level
Associated Lab Samples: 262975001

METHOD BLANK: 14788 Matrix: Water
Associated Lab Samples: 262975001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	1.0	1.0	03/20/18 13:24	

LABORATORY CONTROL SAMPLE: 14789

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	49.0	98	85-115	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells 9+10
Pace Project No.: 262975

QC Batch: 2991 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity, Low Level
Associated Lab Samples: 262975002, 262975003, 262975004, 262975005, 262975006, 262975007

METHOD BLANK: 15595 Matrix: Water
Associated Lab Samples: 262975002, 262975003, 262975004, 262975005, 262975006, 262975007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	1.0	1.0	03/22/18 12:16	

LABORATORY CONTROL SAMPLE: 15596

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	49.5	99	85-115	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
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(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells 9+10
Pace Project No.: 262975

QC Batch: 402812 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 262975001, 262975002, 262975003, 262975004, 262975005, 262975006, 262975007

METHOD BLANK: 2234528 Matrix: Water
Associated Lab Samples: 262975001, 262975002, 262975003, 262975004, 262975005, 262975006, 262975007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	03/21/18 20:48	

LABORATORY CONTROL SAMPLE: 2234529

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	244	98	90-110	

SAMPLE DUPLICATE: 2234530

Parameter	Units	262972009 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	121	120	1	5	H1

SAMPLE DUPLICATE: 2234531

Parameter	Units	262975001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	123	126	3	5	

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REPORT OF LABORATORY ANALYSIS

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(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells 9+10
Pace Project No.: 262975

QC Batch: 3000 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 262975001, 262975002, 262975003, 262975004, 262975005, 262975006, 262975007

METHOD BLANK: 15623 Matrix: Water
Associated Lab Samples: 262975001, 262975002, 262975003, 262975004, 262975005, 262975006, 262975007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	0.041J	0.25	0.024	03/23/18 00:51	
Fluoride	mg/L	ND	0.30	0.029	03/23/18 00:51	
Sulfate	mg/L	ND	1.0	0.017	03/23/18 00:51	

LABORATORY CONTROL SAMPLE: 15624

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	10	10.2	102	90-110	
Fluoride	mg/L	10	10.1	101	90-110	
Sulfate	mg/L	10	10.3	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 15625 15626

Parameter	Units	262975001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	2.4	10	10	12.6	12.6	102	102	90-110	0	15	
Fluoride	mg/L	0.055J	10	10	10.1	10.1	101	101	90-110	0	15	
Sulfate	mg/L	3.8	10	10	13.8	13.8	100	100	90-110	0	15	

MATRIX SPIKE SAMPLE: 15627

Parameter	Units	262975002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	4.0	10	12.4	84	90-110	M1
Fluoride	mg/L	ND	10	9.1	91	90-110	
Sulfate	mg/L	10.9	10	19.3	84	90-110	M1

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALIFIERS

Project: Plant Bowen cells 9+10
Pace Project No.: 262975

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.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-A	Pace Analytical Services - Asheville
PASI-GA	Pace Analytical Services - Atlanta, GA

ANALYTE QUALIFIERS

B	Analyte was detected in the associated method blank.
H1	Analysis conducted outside the EPA method holding time.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

Pace Analytical Services, LLC
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Bowen cells 9+10
Pace Project No.: 262975

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
262975001	**GWA-40**	EPA 3005A	2813	EPA 6020B	2939
262975002	**GWA-41R**	EPA 3005A	2813	EPA 6020B	2939
262975003	**GWA-41**	EPA 3005A	2813	EPA 6020B	2939
262975004	**GWA-42**	EPA 3005A	2813	EPA 6020B	2939
262975005	**GWA-43**	EPA 3005A	2813	EPA 6020B	2939
262975006	**Dup-1**	EPA 3005A	2813	EPA 6020B	2939
262975007	**GWA-39Z**	EPA 3005A	2813	EPA 6020B	2939
262975001	**GWA-40**	EPA 7470A	2819	EPA 7470A	2877
262975002	**GWA-41R**	EPA 7470A	2819	EPA 7470A	2877
262975003	**GWA-41**	EPA 7470A	2819	EPA 7470A	2877
262975004	**GWA-42**	EPA 7470A	2819	EPA 7470A	2877
262975005	**GWA-43**	EPA 7470A	2819	EPA 7470A	2877
262975006	**Dup-1**	EPA 7470A	2819	EPA 7470A	2877
262975007	**GWA-39Z**	EPA 7470A	2819	EPA 7470A	2877
262975001	**GWA-40**	SM 2320B	2834		
262975002	**GWA-41R**	SM 2320B	2991		
262975003	**GWA-41**	SM 2320B	2991		
262975004	**GWA-42**	SM 2320B	2991		
262975005	**GWA-43**	SM 2320B	2991		
262975006	**Dup-1**	SM 2320B	2991		
262975007	**GWA-39Z**	SM 2320B	2991		
262975001	**GWA-40**	SM 2540C	402812		
262975002	**GWA-41R**	SM 2540C	402812		
262975003	**GWA-41**	SM 2540C	402812		
262975004	**GWA-42**	SM 2540C	402812		
262975005	**GWA-43**	SM 2540C	402812		
262975006	**Dup-1**	SM 2540C	402812		
262975007	**GWA-39Z**	SM 2540C	402812		
262975001	**GWA-40**	EPA 300.0	3000		
262975002	**GWA-41R**	EPA 300.0	3000		
262975003	**GWA-41**	EPA 300.0	3000		
262975004	**GWA-42**	EPA 300.0	3000		
262975005	**GWA-43**	EPA 300.0	3000		
262975006	**Dup-1**	EPA 300.0	3000		
262975007	**GWA-39Z**	EPA 300.0	3000		

CHAIN OF CUSTODY RECORD

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

PAGE: 1 OF 1

CLIENT NAME: Southern Company Services
CLIENT ADDRESS/PHONE NUMBER/FAX NUMBER: 241 Ralph McGill Blvd SE B10185
Atlanta, GA 30308
REPORT TO: Jojo Abraham
CC: Maria Padilla
REQUESTED COMPLETION DATE:
PO #: GPC 10684198
PROJECT NAME/STATE: Plant Bowen - Cells 9 & 10 CCR + Bowen Stat GW
PROJECT #:

ANALYSIS REQUESTED

Collection DATE	Collection TIME	MATRIX CODE*	COMP	GRAB	SAMPLE IDENTIFICATION	# of CONTAINERS	Metals App. III EPA 6020	Bowen Stat GW EPA 6020+EPA 7470	Ms. No. K EPA 6020	Cl, F, SO4 EPA 300 TDS SM2540C	CO3, HCO3 SM2320B
					CONTAINER TYPE:		P	P	P	P	P
					PRESERVATION:		3	3	3	7	7
3/14/18	1420	GW		X	GWA-40	2	X	X	X	X	X
3/14/18	1626	GW		X	GWA-41R	2	X	X	X	X	X
3/14/18	1458	GW		X	GWA-41	2	X	X	X	X	X
3/14/18	1456	GW		X	GWA-42	2	X	X	X	X	X
3/14/18	1604	GW		X	GWA-43	2	X	X	X	X	X
3/14/18	—	GW		X	DUP-1	2	X	X	X	X	X
3/14/18	1655	GW		X	GWA-39Z	2	X	X	X	X	X

LAB NUMBER

CONTAINER TYPE	PRESERVATION
P - PLASTIC	1 - HCl, ≤6°C
A - AMBER GLASS	2 - H_2SO_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 - $Na_2S_2O_3$, ≤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

REMARKS/ADDITIONAL INFORMATION

WO# : 262975
262975

SAMPLED BY AND TITLE: C.Hill / K. Stetson / B. Steele / M. Patterson / A. Fisher
DATE/TIME: 3/14/18 1730
RECEIVED BY: Mike Nguyen
DATE/TIME: 3/16/18 1019
RECEIVED BY LAB: Rahman
DATE/TIME: 03/16/18 1600
pH checked: Yes No NA
Ice: Yes No NA
Temperature: Min: 0.2 Max:

RELINQUISHED BY: Cindy Marcus
DATE/TIME: 3/16 10:19
RELINQUISHED BY:
DATE/TIME:
SAMPLE SHIPPED VIA: UPS FED-EX USPS COURIER Pace CLIENT OTHER FS
Custody Seal: Intact Broken Not Present
# of Coolers
Cooler ID:

FOR LAB USE ONLY
LAB #:
Entered into LIMS:
Tracking #:

Sample Condition Upon Receipt

Pace Analytical

Client Name: GA Power

Project #

WO#: 262975

PM: BM Due Date: 03/23/18

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 813 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: 3/16/18 MR

			Comments:
Chain of Custody Present:	☒Yes	☐No ☐N/A	1.
Chain of Custody Filled Out:	☒Yes	☐No ☐N/A	2.
Chain of Custody Relinquished:	☒Yes	☐No ☐N/A	3.
Sampler Name & Signature on COC:	☒Yes	☐No ☐N/A	4.
Samples Arrived within Hold Time:	☒Yes	☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes	☒No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes	☒No ☐N/A	7.
Sufficient Volume:	☒Yes	☐No ☐N/A	8.
Correct Containers Used:	☒Yes	☐No ☐N/A	9.
-Pace Containers Used:	☒Yes	☐No ☐N/A	
Containers Intact:	☒Yes	☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes	☐No ☒N/A	11.
Sample Labels match COC:	☒Yes	☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: GW			
All containers needing preservation have been checked.	☒Yes	☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☒Yes	☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes	☒No	Initial when completed / Lot # of added preservative
Samples checked for dechlorination:	☐Yes	☐No ☒N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes	☐No ☒N/A	15.
Trip Blank Present:	☐Yes	☐No ☒N/A	16.
Trip Blank Custody Seals Present	☐Yes	☐No ☒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).

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

May 16, 2018

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

RE: Project: Plant Bowen cells 9+10
Pace Project No.: 262976

Dear Joju Abraham:
Enclosed are the analytical results for sample(s) received by the laboratory on March 16, 2018. 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.

REV05082018_report revised to correct MDL / J-flag settings.

REV05162018_report revised to set reporting limits in accordance with project scope.

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: Maria Padilla, Georgia Power
Greg Wrenn, Wood PLC

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

CERTIFICATIONS

Project: Plant Bowen cells 9+10
Pace Project No.: 262976

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
Texas Certification #: T104704397-08-TX
Virginia Certification #: 460204

Asheville Certification IDs

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE SUMMARY

Project: Plant Bowen cells 9+10
Pace Project No.: 262976

Lab ID	Sample ID	Matrix	Date Collected	Date Received
262976001	**GWC-47R**	Water	03/16/18 11:05	03/16/18 16:35
262976002	**GWA-39RZ**	Water	03/16/18 11:40	03/16/18 16:35
262976003	**FBL031618**	Water	03/16/18 13:52	03/16/18 16:35
262976004	**EQBL031618**	Water	03/16/18 13:56	03/16/18 16:35

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE ANALYTE COUNT

Project: Plant Bowen cells 9+10
Pace Project No.: 262976

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
262976001	**GWC-47R**	EPA 6020B	CSW	17	PASI-GA
		EPA 7470A	MTC	1	PASI-GA
		SM 2540C	MJP	1	PASI-A
		EPA 300.0	RLC	3	PASI-GA
262976002	**GWA-39RZ**	EPA 6020B	CSW	20	PASI-GA
		EPA 7470A	MTC	1	PASI-GA
		SM 2320B	JAD	3	PASI-GA
		SM 2540C	MJP	1	PASI-A
		EPA 300.0	RLC	3	PASI-GA
262976003	**FBL031618**	EPA 6020B	CSW	20	PASI-GA
		EPA 7470A	MTC	1	PASI-GA
		SM 2320B	JAD	3	PASI-GA
		SM 2540C	MJP	1	PASI-A
		EPA 300.0	RLC	3	PASI-GA
262976004	**EQBL031618**	EPA 6020B	CSW	20	PASI-GA
		EPA 7470A	MTC	1	PASI-GA
		SM 2320B	JAD	3	PASI-GA
		SM 2540C	MJP	1	PASI-A
		EPA 300.0	RLC	3	PASI-GA

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells 9+10
Pace Project No.: 262976

Sample: GWC-47R **Lab ID: 262976001** Collected: 03/16/18 11:05 Received: 03/16/18 16:35 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								
Antimony	ND	mg/L	0.0030	0.00078	1	03/20/18 09:19	03/21/18 00:06	7440-36-0	
Arsenic	**0.0010J**	mg/L	0.0050	0.00057	1	03/20/18 09:19	03/21/18 00:06	7440-38-2	
Barium	**0.010**	mg/L	0.010	0.00078	1	03/20/18 09:19	03/21/18 00:06	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	03/20/18 09:19	03/21/18 00:06	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	03/20/18 09:19	03/21/18 00:06	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	03/20/18 09:19	03/21/18 00:06	7440-43-9	
Calcium	**30.2**	mg/L	25.0	0.69	50	03/20/18 09:19	03/21/18 00:12	7440-70-2	
Chromium	**0.0030J**	mg/L	0.010	0.0016	1	03/20/18 09:19	03/21/18 00:06	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	03/20/18 09:19	03/21/18 00:06	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	03/20/18 09:19	03/21/18 00:06	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	03/20/18 09:19	03/21/18 00:06	7439-92-1	
Nickel	ND	mg/L	0.010	0.00095	1	03/20/18 09:19	03/21/18 00:06	7440-02-0	
Selenium	ND	mg/L	0.010	0.0014	1	03/20/18 09:19	03/21/18 00:06	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	03/20/18 09:19	03/21/18 00:06	7440-22-4	
Thallium	**0.00036J**	mg/L	0.0010	0.00014	1	03/20/18 09:19	03/21/18 00:06	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	03/20/18 09:19	03/21/18 00:06	7440-62-2	
Zinc	**0.012**	mg/L	0.010	0.0021	1	03/20/18 09:19	03/21/18 00:06	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	03/20/18 13:28	03/20/18 18:43	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**141**	mg/L	25.0	25.0	1		03/23/18 09:19		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**2.7**	mg/L	0.25	0.024	1		03/22/18 04:34	16887-00-6	
Fluoride	**0.13J**	mg/L	0.30	0.029	1		03/22/18 04:34	16984-48-8	
Sulfate	**13.4**	mg/L	1.0	0.017	1		03/22/18 04:34	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells 9+10
Pace Project No.: 262976

Sample: GWA-39RZ **Lab ID: 262976002** Collected: 03/16/18 11:40 Received: 03/16/18 16:35 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								
Antimony	**0.0078**	mg/L	0.0030	0.00078	1	03/20/18 09:19	03/21/18 00:17	7440-36-0	
Arsenic	**0.00066J**	mg/L	0.0050	0.00057	1	03/20/18 09:19	03/21/18 00:17	7440-38-2	
Barium	**0.016**	mg/L	0.010	0.00078	1	03/20/18 09:19	03/21/18 00:17	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	03/20/18 09:19	03/21/18 00:17	7440-41-7	
Boron	**0.0067J**	mg/L	0.040	0.0039	1	03/20/18 09:19	03/21/18 00:17	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	03/20/18 09:19	03/21/18 00:17	7440-43-9	
Calcium	**32.6**	mg/L	25.0	0.69	50	03/20/18 09:19	03/21/18 00:23	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	03/20/18 09:19	03/21/18 00:17	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	03/20/18 09:19	03/21/18 00:17	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	03/20/18 09:19	03/21/18 00:17	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	03/20/18 09:19	03/21/18 00:17	7439-92-1	
Magnesium	**17.6**	mg/L	2.5	0.31	50	03/20/18 09:19	03/21/18 00:23	7439-95-4	
Nickel	ND	mg/L	0.010	0.00095	1	03/20/18 09:19	03/21/18 00:17	7440-02-0	
Potassium	**1.1**	mg/L	0.10	0.035	1	03/20/18 09:19	03/21/18 00:17	7440-09-7	
Selenium	ND	mg/L	0.010	0.0014	1	03/20/18 09:19	03/21/18 00:17	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	03/20/18 09:19	03/21/18 00:17	7440-22-4	
Sodium	**5.8**	mg/L	0.10	0.015	1	03/20/18 09:19	03/21/18 00:17	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00014	1	03/20/18 09:19	03/21/18 00:17	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	03/20/18 09:19	03/21/18 00:17	7440-62-2	
Zinc	**0.0042J**	mg/L	0.010	0.0021	1	03/20/18 09:19	03/21/18 00:17	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	03/20/18 13:28	03/20/18 18:45	7439-97-6	
2320B Alkalinity Low Level	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**153**	mg/L	1.0	1.0	1		03/22/18 12:57		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	1.0	1.0	1		03/22/18 12:57		
Alkalinity, Total as CaCO3	**153**	mg/L	1.0	1.0	1		03/22/18 12:57		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**150**	mg/L	25.0	25.0	1		03/23/18 09:19		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**2.6**	mg/L	0.25	0.024	1		03/22/18 04:55	16887-00-6	
Fluoride	**0.27J**	mg/L	0.30	0.029	1		03/22/18 04:55	16984-48-8	
Sulfate	**15.5**	mg/L	1.0	0.017	1		03/22/18 04:55	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells 9+10
Pace Project No.: 262976

Sample: FBL031618 **Lab ID: 262976003** Collected: 03/16/18 13:52 Received: 03/16/18 16:35 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								
Antimony	ND	mg/L	0.0030	0.00078	1	03/20/18 09:19	03/21/18 00:29	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	03/20/18 09:19	03/21/18 00:29	7440-38-2	
Barium	ND	mg/L	0.010	0.00078	1	03/20/18 09:19	03/21/18 00:29	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	03/20/18 09:19	03/21/18 00:29	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	03/20/18 09:19	03/21/18 00:29	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	03/20/18 09:19	03/21/18 00:29	7440-43-9	
Calcium	**0.019J**	mg/L	0.50	0.014	1	03/20/18 09:19	03/21/18 00:29	7440-70-2	B
Chromium	ND	mg/L	0.010	0.0016	1	03/20/18 09:19	03/21/18 00:29	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	03/20/18 09:19	03/21/18 00:29	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	03/20/18 09:19	03/21/18 00:29	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	03/20/18 09:19	03/21/18 00:29	7439-92-1	
Magnesium	ND	mg/L	0.050	0.0062	1	03/20/18 09:19	03/21/18 00:29	7439-95-4	
Nickel	ND	mg/L	0.010	0.00095	1	03/20/18 09:19	03/21/18 00:29	7440-02-0	
Potassium	ND	mg/L	0.10	0.035	1	03/20/18 09:19	03/21/18 00:29	7440-09-7	
Selenium	ND	mg/L	0.010	0.0014	1	03/20/18 09:19	03/21/18 00:29	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	03/20/18 09:19	03/21/18 00:29	7440-22-4	
Sodium	ND	mg/L	0.10	0.015	1	03/20/18 09:19	03/21/18 00:29	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00014	1	03/20/18 09:19	03/21/18 00:29	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	03/20/18 09:19	03/21/18 00:29	7440-62-2	
Zinc	ND	mg/L	0.010	0.0021	1	03/20/18 09:19	03/21/18 00:29	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	03/20/18 13:28	03/20/18 18:48	7439-97-6	
2320B Alkalinity Low Level	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	1.0	1.0	1		03/22/18 13:02		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	1.0	1.0	1		03/22/18 13:02		
Alkalinity, Total as CaCO3	ND	mg/L	1.0	1.0	1		03/22/18 13:02		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		03/23/18 09:19		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	ND	mg/L	0.25	0.024	1		03/22/18 06:38	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		03/22/18 06:38	16984-48-8	
Sulfate	ND	mg/L	1.0	0.017	1		03/22/18 06:38	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells 9+10
Pace Project No.: 262976

Sample: EQBL031618 **Lab ID: 262976004** Collected: 03/16/18 13:56 Received: 03/16/18 16:35 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								
Antimony	ND	mg/L	0.0030	0.00078	1	03/20/18 09:19	03/21/18 00:34	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	03/20/18 09:19	03/21/18 00:34	7440-38-2	
Barium	ND	mg/L	0.010	0.00078	1	03/20/18 09:19	03/21/18 00:34	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	03/20/18 09:19	03/21/18 00:34	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	03/20/18 09:19	03/21/18 00:34	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	03/20/18 09:19	03/21/18 00:34	7440-43-9	
Calcium	**0.018J**	mg/L	0.50	0.014	1	03/20/18 09:19	03/21/18 00:34	7440-70-2	B
Chromium	ND	mg/L	0.010	0.0016	1	03/20/18 09:19	03/21/18 00:34	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	03/20/18 09:19	03/21/18 00:34	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	03/20/18 09:19	03/21/18 00:34	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	03/20/18 09:19	03/21/18 00:34	7439-92-1	
Magnesium	ND	mg/L	0.050	0.0062	1	03/20/18 09:19	03/21/18 00:34	7439-95-4	
Nickel	ND	mg/L	0.010	0.00095	1	03/20/18 09:19	03/21/18 00:34	7440-02-0	
Potassium	ND	mg/L	0.10	0.035	1	03/20/18 09:19	03/21/18 00:34	7440-09-7	
Selenium	ND	mg/L	0.010	0.0014	1	03/20/18 09:19	03/21/18 00:34	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	03/20/18 09:19	03/21/18 00:34	7440-22-4	
Sodium	ND	mg/L	0.10	0.015	1	03/20/18 09:19	03/21/18 00:34	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00014	1	03/20/18 09:19	03/21/18 00:34	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	03/20/18 09:19	03/21/18 00:34	7440-62-2	
Zinc	ND	mg/L	0.010	0.0021	1	03/20/18 09:19	03/21/18 00:34	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	03/20/18 13:28	03/20/18 18:50	7439-97-6	
2320B Alkalinity Low Level	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	1.0	1.0	1		03/22/18 13:06		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	1.0	1.0	1		03/22/18 13:06		
Alkalinity, Total as CaCO3	ND	mg/L	1.0	1.0	1		03/22/18 13:06		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		03/23/18 09:19		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	ND	mg/L	0.25	0.024	1		03/22/18 06:59	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		03/22/18 06:59	16984-48-8	
Sulfate	ND	mg/L	1.0	0.017	1		03/22/18 06:59	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells 9+10
Pace Project No.: 262976

QC Batch: 2820 Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
Associated Lab Samples: 262976001, 262976002, 262976003, 262976004

METHOD BLANK: 14731 Matrix: Water
Associated Lab Samples: 262976001, 262976002, 262976003, 262976004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00050	0.000036	03/20/18 17:46	

LABORATORY CONTROL SAMPLE: 14732

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	.0025	0.0025	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 14733 14734

Parameter	Units	262979001 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	.0025	.0025	0.0026	0.0024	103	98	75-125	5	20	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells 9+10
Pace Project No.: 262976

QC Batch: 2814 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020B MET
Associated Lab Samples: 262976001, 262976002, 262976003, 262976004

METHOD BLANK: 14716 Matrix: Water
Associated Lab Samples: 262976001, 262976002, 262976003, 262976004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	03/20/18 20:23	
Arsenic	mg/L	ND	0.0050	0.00057	03/20/18 20:23	
Barium	mg/L	ND	0.010	0.00078	03/20/18 20:23	
Beryllium	mg/L	ND	0.0030	0.000050	03/20/18 20:23	
Boron	mg/L	ND	0.040	0.0039	03/20/18 20:23	
Cadmium	mg/L	ND	0.0010	0.000093	03/20/18 20:23	
Calcium	mg/L	0.047J	0.50	0.014	03/20/18 20:23	
Chromium	mg/L	ND	0.010	0.0016	03/20/18 20:23	
Cobalt	mg/L	ND	0.010	0.00052	03/20/18 20:23	
Copper	mg/L	ND	0.025	0.0013	03/20/18 20:23	
Lead	mg/L	ND	0.0050	0.00027	03/20/18 20:23	
Magnesium	mg/L	0.021J	0.050	0.0062	03/20/18 20:23	
Nickel	mg/L	ND	0.010	0.00095	03/20/18 20:23	
Potassium	mg/L	ND	0.10	0.035	03/20/18 20:23	
Selenium	mg/L	ND	0.010	0.0014	03/20/18 20:23	
Silver	mg/L	ND	0.010	0.00095	03/20/18 20:23	
Sodium	mg/L	ND	0.10	0.015	03/20/18 20:23	
Thallium	mg/L	ND	0.0010	0.00014	03/20/18 20:23	
Vanadium	mg/L	ND	0.010	0.0019	03/20/18 20:23	
Zinc	mg/L	ND	0.010	0.0021	03/20/18 20:23	

LABORATORY CONTROL SAMPLE: 14717

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	.1	0.11	110	80-120	
Arsenic	mg/L	.1	0.10	103	80-120	
Barium	mg/L	.1	0.10	103	80-120	
Beryllium	mg/L	.1	0.11	108	80-120	
Boron	mg/L	1	1.1	108	80-120	
Cadmium	mg/L	.1	0.10	105	80-120	
Calcium	mg/L	1	1.1	106	80-120	
Chromium	mg/L	.1	0.10	103	80-120	
Cobalt	mg/L	.1	0.10	100	80-120	
Copper	mg/L	.1	0.10	100	80-120	
Lead	mg/L	.1	0.10	102	80-120	
Magnesium	mg/L	1	1.1	105	80-120	
Nickel	mg/L	.1	0.10	100	80-120	
Potassium	mg/L	1	1.1	108	80-120	
Selenium	mg/L	.1	0.10	103	80-120	
Silver	mg/L	.1	0.091	91	80-120	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells 9+10
Pace Project No.: 262976

LABORATORY CONTROL SAMPLE: 14717

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sodium	mg/L	1	1.0	103	80-120	
Thallium	mg/L	.1	0.10	102	80-120	
Vanadium	mg/L	.1	0.10	105	80-120	
Zinc	mg/L	.1	0.11	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 14718 14719

Parameter	Units	262972001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	.1	.1	0.11	0.11	109	108	75-125	1	20	
Arsenic	mg/L	0.00063J	.1	.1	0.11	0.10	107	104	75-125	3	20	
Barium	mg/L	0.020	.1	.1	0.12	0.12	102	100	75-125	2	20	
Beryllium	mg/L	ND	.1	.1	0.11	0.10	105	105	75-125	0	20	
Boron	mg/L	0.0084J	1	1	1.0	1.1	101	104	75-125	4	20	
Cadmium	mg/L	ND	.1	.1	0.11	0.10	105	104	75-125	2	20	
Calcium	mg/L	26.2	1	1	27.4	28.6	122	240	75-125	4	20	M6
Chromium	mg/L	ND	.1	.1	0.11	0.10	105	103	75-125	2	20	
Cobalt	mg/L	ND	.1	.1	0.10	0.099	103	99	75-125	4	20	
Copper	mg/L	ND	.1	.1	0.10	0.10	101	101	75-125	0	20	
Lead	mg/L	ND	.1	.1	0.10	0.10	102	104	75-125	2	20	
Magnesium	mg/L	15.0	1	1	15.9	16.5	88	157	75-125	4	20	
Nickel	mg/L	ND	.1	.1	0.10	0.10	102	101	75-125	1	20	
Potassium	mg/L	0.96	1	1	2.0	2.0	104	109	75-125	2	20	
Selenium	mg/L	ND	.1	.1	0.11	0.10	106	102	75-125	4	20	
Silver	mg/L	ND	.1	.1	0.089	0.091	89	91	75-125	2	20	
Sodium	mg/L	3.7	1	1	4.7	4.7	102	108	75-125	1	20	
Thallium	mg/L	ND	.1	.1	0.10	0.10	104	103	75-125	1	20	
Vanadium	mg/L	ND	.1	.1	0.11	0.11	108	106	75-125	2	20	
Zinc	mg/L	ND	.1	.1	0.11	0.11	105	106	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells 9+10
Pace Project No.: 262976

QC Batch: 2991 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity, Low Level
Associated Lab Samples: 262976002, 262976003, 262976004

METHOD BLANK: 15595 Matrix: Water
Associated Lab Samples: 262976002, 262976003, 262976004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	1.0	1.0	03/22/18 12:16	

LABORATORY CONTROL SAMPLE: 15596

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	49.5	99	85-115	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells 9+10
Pace Project No.: 262976

QC Batch: 403194 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 262976001, 262976002, 262976003, 262976004

METHOD BLANK: 2236685 Matrix: Water
Associated Lab Samples: 262976001, 262976002, 262976003, 262976004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	03/26/18 13:30	

LABORATORY CONTROL SAMPLE: 2236686

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	250	100	90-110	

SAMPLE DUPLICATE: 2236687

Parameter	Units	262978001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	ND	ND		5	

SAMPLE DUPLICATE: 2236688

Parameter	Units	262960001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	<25.0	ND		5	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells 9+10
Pace Project No.: 262976

QC Batch: 2912 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 262976001, 262976002, 262976003, 262976004

METHOD BLANK: 15172 Matrix: Water
Associated Lab Samples: 262976001, 262976002, 262976003, 262976004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	0.024	03/21/18 19:38	
Fluoride	mg/L	ND	0.30	0.029	03/21/18 19:38	
Sulfate	mg/L	ND	1.0	0.017	03/21/18 19:38	

LABORATORY CONTROL SAMPLE: 15173

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	10	10.2	102	90-110	
Fluoride	mg/L	10	9.8	98	90-110	
Sulfate	mg/L	10	10.2	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 15174 15175

Parameter	Units	262972001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	3.0	10	10	12.7	12.7	97	97	90-110	0	15	
Fluoride	mg/L	0.084J	10	10	9.8	9.8	97	97	90-110	0	15	
Sulfate	mg/L	8.5	10	10	18.1	18.1	96	96	90-110	0	15	

MATRIX SPIKE SAMPLE: 15176

Parameter	Units	262972002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	0.93	10	11.2	103	90-110	
Fluoride	mg/L	0.054J	10	10.1	100	90-110	
Sulfate	mg/L	4.9	10	15.0	101	90-110	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALIFIERS

Project: Plant Bowen cells 9+10
Pace Project No.: 262976

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.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-A	Pace Analytical Services - Asheville
PASI-GA	Pace Analytical Services - Atlanta, GA

ANALYTE QUALIFIERS

B	Analyte was detected in the associated method blank.
M6	Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Bowen cells 9+10
Pace Project No.: 262976

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
262976001	**GWC-47R**	EPA 3005A	2814	EPA 6020B	2881
262976002	**GWA-39RZ**	EPA 3005A	2814	EPA 6020B	2881
262976003	**FBL031618**	EPA 3005A	2814	EPA 6020B	2881
262976004	**EQBL031618**	EPA 3005A	2814	EPA 6020B	2881
262976001	**GWC-47R**	EPA 7470A	2820	EPA 7470A	2876
262976002	**GWA-39RZ**	EPA 7470A	2820	EPA 7470A	2876
262976003	**FBL031618**	EPA 7470A	2820	EPA 7470A	2876
262976004	**EQBL031618**	EPA 7470A	2820	EPA 7470A	2876
262976002	**GWA-39RZ**	SM 2320B	2991		
262976003	**FBL031618**	SM 2320B	2991		
262976004	**EQBL031618**	SM 2320B	2991		
262976001	**GWC-47R**	SM 2540C	403194		
262976002	**GWA-39RZ**	SM 2540C	403194		
262976003	**FBL031618**	SM 2540C	403194		
262976004	**EQBL031618**	SM 2540C	403194		
262976001	**GWC-47R**	EPA 300.0	2912		
262976002	**GWA-39RZ**	EPA 300.0	2912		
262976003	**FBL031618**	EPA 300.0	2912		
262976004	**EQBL031618**	EPA 300.0	2912		

7709

CHAIN OF CUSTODY RECORD

Pace Analytical® www.pacelabs.com

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

PAGE: 1 OF 1

CLIENT NAME: Southern Company Services

CLIENT ADDRESS/PHONE NUMBER/FAX NUMBER:
241 Ralph McGill Blvd SE B10185
Atlanta GA 30308

REPORT TO: Joyce Akerstrom

CC: Mona Padalia

REQUESTED COMPLETION DATE:

PO #: 6PC106841198

PROJECT NAME/STATE: Plant Boegers Calls 9 & 10 CCR + Boiler Slag GW

PROJECT #:

ANALYSIS REQUESTED

Collection DATE	Collection TIME	MATRIX CODE*	COMP	GRAB	SAMPLE IDENTIFICATION	# of CONTAINERS		Metals App. III EPA 6020	Boron, Sulfate, Cl EPA 6020, 300	Mg, Na, K EPA 6020	Cl, F, SO4 EPA 300	TDS SM 2540C	CO3, HCO3 SM 2320B					LAB ID NUMBER
CONTAINER TYPE:								P	P	P	P	P						
PRESERVATION:								3	3	3	7	7						
3/16/18	1105	GW			GWC-47R	2		X	X		X							1
3/16/18	1140	GW			GWA-39R2	2		X	X	X	X	X						2
3/16/18	1352	W			FBLO31618	2		X	X	X	X	X						3
3/16/18	1356	W			FIQBLO31618	2		X	X	X	X	X						4

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

PRESERVATION: 1 - HCl, ≤6°C; 2 - H_2SO_4, ≤6°C; 3 - HNO_3; 4 - NaOH, ≤6°C; 5 - NaOH/ZnAc, ≤6°C; 6 - $Na_2S_2O_3$, ≤6°C; 7 - ≤6°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

SAMPLED BY AND TITLE: [illegible]

DATE/TIME: 3/16/18 @ 1424

RELINQUISHED BY: [signature]

DATE/TIME: 3/16/18 1635

RECEIVED BY:

DATE/TIME:

RELINQUISHED BY:

DATE/TIME:

RECEIVED BY LAB:

DATE/TIME: 3/16/18 1635

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

Packed: No NA

Ice: Yes No NA

Temperature: Min: 1.4°C Max:

Custody Seal: Intact Broken Not Present

# of Coolers

Cooler ID:

FOR LAB USE ONLY

LAB #:

Entered into LIMS:

Tracking #:

WO# : 262976

262976

Sample Condition Upon Receipt

Pace Analytical

Client Name: Georgia Power

WO#: 262976

PM: BM Due Date: 03/23/18

CLIENT: GAPower-CCR

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Commercial ☐ Pace Other

Tracking #: _____

Proj. Name:

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

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other _____

Thermometer Used: THR082 Type of Ice: (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature: 1.4°C Biological Tissue is Frozen: Yes No

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 3/16/18 CAH

Comments:

Chain of Custody Present:	☑Yes	☐No	☐N/A
Chain of Custody Filled Out:	☑Yes	☐No	☐N/A
Chain of Custody Relinquished:	☑Yes	☐No	☐N/A
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A
Samples Arrived within Hold Time:	☑Yes	☐No	☐N/A
Short Hold Time Analysis (<72hr):	☐Yes	☑No	☐N/A
Rush Turn Around Time Requested:	☐Yes	☑No	☐N/A
Sufficient Volume:	☑Yes	☐No	☐N/A
Correct Containers Used:	☑Yes	☐No	☐N/A
-Pace Containers Used:	☑Yes	☐No	☐N/A
Containers Intact:	☑Yes	☐No	☐N/A
Filtered volume received for Dissolved tests	☐Yes	☐No	☑N/A
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix: GW/W	☑Yes	☐No	☐N/A
All containers needing preservation have been checked.	☑Yes	☐No	☐N/A
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes	☐No	☐N/A
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes	☑No	
Samples checked for dechlorination:	☐Yes	☐No	☑N/A
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☑N/A
Trip Blank Present:	☐Yes	☐No	☑N/A
Trip Blank Custody Seals Present	☐Yes	☐No	☑N/A
Pace Trip Blank Lot # (if purchased): _____			

1.	
2.	
3.	
4.	
5.	
6.	
7.	
8.	
9.	
10.	
11.	
12.	
13.	
Initial when completed	Lot # of added preservative
14.	
15.	
16.	

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: 2018-03-16 13:08:24

Project Information:		Pump Information:	
Operator Name	Kevin Stephenson	Pump Model/Type	QED Dedicated
Company Name	Resolute Env	Tubing Type	LDPE
Project Name	Cells 1&2	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	152 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	364452		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	146.80 ft

Well Information:		Pumping Information:	
Well ID	GWA-1	Final Pumping Rate	140 mL/min
Well diameter	2 in	Total System Volume	1.15844 L
Well Total Depth	151.80 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	133.56 in
Depth to Water	83.84 ft	Total Volume Pumped	18.4 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	12:50:53	6959.93	16.56	7.55	295.98	5.41	94.65	3.01	70.88
Last 5	12:54:53	7199.92	16.48	7.57	295.34	5.20	94.72	3.06	70.21
Last 5	12:58:53	7439.92	16.56	7.56	296.06	4.98	94.80	3.11	69.73
Last 5	13:02:53	7679.91	16.61	7.56	295.62	4.91	94.89	3.14	70.14
Last 5	13:06:53	7919.91	16.74	7.58	294.74	4.56	94.97	3.16	69.80
Variance 0			0.08	-0.01	0.72			0.04	-0.48
Variance 1			0.05	0.00	-0.44			0.03	0.41
Variance 2			0.13	0.02	-0.88			0.02	-0.34

Notes

Pre-purged 11 liters

Grab Samples

GWA-1

Metals

GWA-1

Inorganics

Product Name: Low-Flow System

Date: 2018-03-19 12:13:18

Project Information:		Pump Information:	
Operator Name	Kevin Stephenson	Pump Model/Type	QED Dedicated
Company Name	Resolute Env	Tubing Type	LDPE
Project Name	Cells 1&2	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	154 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	364452		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	149.25 ft

Well Information:		Pumping Information:	
Well ID	GWA-2	Final Pumping Rate	140 mL/min
Well diameter	2 in	Total System Volume	1.167367 L
Well Total Depth	154.25 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	0.72 in
Depth to Water	78.91 ft	Total Volume Pumped	16.8 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	11:54:19	4562.97	15.52	6.44	382.70	1.23	78.97	6.37	58.43
Last 5	11:58:19	4802.98	15.53	6.47	397.57	0.80	78.97	6.39	58.48
Last 5	12:02:19	5042.96	15.57	6.50	409.83	0.72	78.98	6.38	58.86
Last 5	12:06:19	5282.95	15.57	6.52	420.79	1.02	78.97	6.37	59.10
Last 5	12:10:19	5522.96	15.58	6.55	428.39	0.82	78.97	6.37	59.42
Variance 0			0.05	0.02	12.26			-0.02	0.37
Variance 1			0.00	0.03	10.96			-0.01	0.24
Variance 2			0.00	0.02	7.60			-0.00	0.33

Notes

Pre-purged 2.5 liters

Grab Samples

GWA-2

Metals

GWA-2

Inorganics

Product Name: Low-Flow System

Date: 2018-03-16 13:26:00

Project Information:		Pump Information:	
Operator Name	Brian Steele	Pump Model/Type	QED
Company Name	Resolute	Tubing Type	LDPE
Project Name	Cells 1&2	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	110 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	497259		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	102 ft

Well Information:		Pumping Information:	
Well ID	GWA-2R	Final Pumping Rate	100 mL/min
Well diameter	2 in	Total System Volume	0.9759765 L
Well Total Depth	107.40 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	0 in
Depth to Water	78.92 ft	Total Volume Pumped	4 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	13:08:24	1200.01	16.28	7.20	264.69	0.04	79.80	1.00	45.67
Last 5	13:12:24	1440.01	16.33	7.25	267.53	0.03	79.80	0.91	44.68
Last 5	13:16:24	1680.01	16.55	7.27	269.48	0.05	79.83	0.87	43.71
Last 5	13:20:24	1920.00	16.64	7.29	269.54	0.06	79.85	0.84	43.23
Last 5	13:24:24	2160.00	16.66	7.31	269.48	0.04	79.84	0.83	42.59
Variance 0			0.23	0.02	1.95			-0.04	-0.98
Variance 1			0.09	0.02	0.05			-0.03	-0.48
Variance 2			0.02	0.02	-0.06			-0.00	-0.63

Notes

Grab Samples
GWA-2R
App III
GWA-2R
Metals

Product Name: Low-Flow System

Date: 2018-03-19 14:26:39

Project Information:		Pump Information:	
Operator Name	Kevin Stephenson	Pump Model/Type	QED Dedicated
Company Name	Resolute Env	Tubing Type	LDPE
Project Name	Cells 1&2	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	98 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	364452		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	93.20 ft

Well Information:		Pumping Information:	
Well ID	GWA-3	Final Pumping Rate	100 mL/min
Well diameter	2 in	Total System Volume	0.9174154 L
Well Total Depth	98.20 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	94.8 in
Depth to Water	55.79 ft	Total Volume Pumped	3.6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	14:08:13	1204.02	16.29	5.42	21.09	1.13	63.21	8.40	59.38
Last 5	14:12:16	1447.02	16.26	5.41	21.12	1.53	63.40	8.40	58.40
Last 5	14:16:25	1696.01	16.19	5.34	21.35	1.70	63.51	8.68	60.88
Last 5	14:20:29	1940.01	16.34	5.37	21.40	1.59	63.61	8.62	61.26
Last 5	14:24:29	2180.01	16.43	5.40	21.67	1.43	63.69	8.67	59.89
Variance 0			-0.08	-0.07	0.22			0.28	2.47
Variance 1			0.15	0.03	0.06			-0.07	0.38
Variance 2			0.09	0.03	0.27			0.05	-1.37

Notes

Pre-purged 6 liters

Grab Samples

GWA-3

Metals

GWA-3

Inorganics

Product Name: Low-Flow System

Date: 2018-03-20 11:15:09

Project Information:		Pump Information:	
Operator Name	Kevin Stephenson	Pump Model/Type	QED Dedicated
Company Name	Resolute Env	Tubing Type	LDPE
Project Name	Cells 1&2	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	120 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	364452		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	115.07 ft

Well Information:		Pumping Information:	
Well ID	GWA-4RZ	Final Pumping Rate	120 mL/min
Well diameter	2 in	Total System Volume	1.015611 L
Well Total Depth	120.07 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	240.48 in
Depth to Water	88.96 ft	Total Volume Pumped	11.04 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	10:56:25	4559.97	15.69	7.33	407.72	0.17	105.51	3.63	49.52
Last 5	11:00:25	4799.96	15.66	7.30	407.96	0.13	106.29	3.68	50.75
Last 5	11:04:25	5039.96	15.63	7.30	409.00	0.15	107.20	3.72	51.08
Last 5	11:08:25	5279.95	15.62	7.31	409.39	0.09	108.17	3.76	49.85
Last 5	11:12:25	5519.95	15.65	7.30	410.29	0.14	109.21	3.76	50.27
Variance 0			-0.03	-0.00	1.04			0.05	0.33
Variance 1			-0.02	0.01	0.39			0.03	-1.24
Variance 2			0.04	-0.01	0.90			0.00	0.42

Notes

Water level did not stabilize. Complete evacuation method initiated. Sampled to be collected 3/20.

Grab Samples

Product Name: Low-Flow System

Date: 2018-03-19 11:41:33

Project Information:		Pump Information:	
Operator Name	Audrey Fisher	Pump Model/Type	QED Dedicated
Company Name	Resolute Env	Tubing Type	LDPE
Project Name	Cells 1&2	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	**114 ft**
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	440279		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	**108.75** ft

Well Information:		Pumping Information:	
Well ID	GWC-5	Final Pumping Rate	120 mL/min
Well diameter	2 in	Total System Volume	**0.993830 L**
Well Total Depth	113.75 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	80.16 in
Depth to Water	76.63 ft	Total Volume Pumped	10.1 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	11:21:13	4079.99	15.53	6.15	46.00	4.93	82.76	8.37	105.85
Last 5	11:25:15	4321.99	15.57	6.17	44.70	4.73	82.87	8.46	102.69
Last 5	11:29:15	4561.99	15.58	6.12	44.11	4.87	83.02	8.52	103.73
Last 5	11:33:15	4801.98	15.58	6.08	43.60	4.41	83.22	8.52	105.17
Last 5	11:37:16	5042.98	15.58	6.06	42.80	4.47	83.31	8.57	104.44
Variance 0			0.01	-0.05	-0.59			0.06	1.04
Variance 1			0.00	-0.05	-0.51			-0.00	1.43
Variance 2			-0.00	-0.01	-0.80			0.06	-0.72

Notes

Pre-purged 2.75L

Grab Samples

GWC-5

Inorganics

GWC-5

Metals

Product Name: Low-Flow System

Date: 2018-03-19 15:52:54

Project Information:		Pump Information:	
Operator Name	Audrey Fisher	Pump Model/Type	QED Dedicated
Company Name	Resolute Env	Tubing Type	LDPE
Project Name	Cells 1&2	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	**112 ft**
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	440279		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	**106.5 ft**

Well Information:		Pumping Information:	
Well ID	GWC-6	Final Pumping Rate	130 mL/min
Well diameter	2 in	Total System Volume	**0.984903 L**
Well Total Depth	111.37 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	3.36 in
Depth to Water	69.79 ft	Total Volume Pumped	2.6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	15:26:37	240.05	15.66	7.28	128.86	4.67	70.05	7.86	76.03
Last 5	15:30:37	480.03	15.62	7.31	129.93	4.46	70.08	7.80	75.37
Last 5	15:34:37	720.03	15.59	7.28	130.69	4.68	70.07	7.78	76.85
Last 5	15:38:37	960.03	15.58	7.34	130.34	4.55	70.05	7.82	75.26
Last 5	15:42:37	1200.02	15.57	7.32	129.86	4.70	70.07	7.80	76.59
Variance 0			-0.02	-0.02	0.75			-0.01	1.49
Variance 1			-0.01	0.05	-0.35			0.03	-1.59
Variance 2			-0.01	-0.01	-0.48			-0.02	1.32

Notes

Pre-purged 18L

Difficult time getting the turbidity under 5 NTU

Grab Samples

GWC-6

Inorganics

GWC-6

Metals

Product Name: Low-Flow System

Date: 2018-03-20 09:40:35

Project Information:		Pump Information:	
Operator Name	Audrey Fisher	Pump Model/Type	QED Dedicated
Company Name	Resolute Env	Tubing Type	LDPE
Project Name	Cells 1&2	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	440279		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	**107.80** ft

Well Information:		Pumping Information:	
Well ID	GWC-6RZ	Final Pumping Rate	110 mL/min
Well diameter	2 in	Total System Volume	0.48 L
Well Total Depth	112.80 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	0.24 in
Depth to Water	73.41 ft	Total Volume Pumped	1.76 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	09:24:14	240.05	15.29	6.74	133.60	6.28	73.43	6.57	56.78
Last 5	09:28:14	480.02	15.27	6.74	132.67	5.23	73.43	6.82	54.20
Last 5	09:32:14	720.03	15.27	6.78	132.13	4.86	73.43	6.93	51.97
Last 5	09:36:14	960.02	15.29	6.80	131.84	3.80	73.43	7.02	50.85
Last 5									
Variance 0			-0.02	0.00	-0.93			0.25	-2.58
Variance 1			-0.01	0.04	-0.55			0.11	-2.23
Variance 2			0.02	0.02	-0.29			0.10	-1.12

Notes

Pre-purged 1.5L

No sample taken. Timer froze. Starting new Low Flow.

Grab Samples

Product Name: Low-Flow System

Date: 2018-03-20 10:06:29

Project Information:		Pump Information:	
Operator Name	Audrey Fisher	Pump Model/Type	QED Dedicated
Company Name	Resolute Env	Tubing Type	LDPE
Project Name	Cells 1&2	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	**113 ft**
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	440279		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	**108 ft**

Well Information:		Pumping Information:	
Well ID	GWC-6RZ	Final Pumping Rate	110 mL/min
Well diameter	2 in	Total System Volume	**0.989367 L**
Well Total Depth	112.80 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	0.24 in
Depth to Water	73.41 ft	Total Volume Pumped	2.2 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	09:46:48	240.03	15.31	6.89	130.73	2.39	73.43	7.10	47.39
Last 5	09:50:48	480.03	15.31	6.87	129.98	2.86	73.43	7.17	48.75
Last 5	09:54:48	720.03	15.34	6.90	129.22	1.65	73.43	7.19	47.21
Last 5	09:58:48	960.02	15.35	6.91	128.38	1.52	73.44	7.20	47.15
Last 5	10:02:48	1200.02	15.35	6.90	127.69	1.29	73.43	7.23	47.83
Variance 0			0.03	0.03	-0.77			0.01	-1.54
Variance 1			0.01	0.01	-0.84			0.01	-0.06
Variance 2			0.00	-0.01	-0.69			0.03	0.68

Notes

Pre-purged 5.75L. Second Low Flow for this well. Stopped first one because timer froze.
Samples taken

Grab Samples

GWC-6RZ

Metals

GWC-6Rz

Inorganics

Product Name: Low-Flow System

Date: 2018-03-20 11:25:28

Project Information:		Pump Information:	
Operator Name	Audrey Fisher	Pump Model/Type	QED Dedicated
Company Name	Resolute Env	Tubing Type	LDPE
Project Name	Cells 1&2	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	**117 ft**
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	440279		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	**112.00** ft

Well Information:		Pumping Information:	
Well ID	GWC-7Z	Final Pumping Rate	115 mL/min
Well diameter	2 in	Total System Volume	**0.989367 L**
Well Total Depth	117.00 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	1.2 in
Depth to Water	54.30 ft	Total Volume Pumped	2.3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	11:06:43	240.09	15.49	6.73	232.97	1.22	54.38	0.19	39.79
Last 5	11:10:43	480.05	15.48	6.70	232.30	1.30	54.42	0.15	33.10
Last 5	11:14:43	720.03	15.56	6.70	231.41	2.28	54.40	0.13	27.59
Last 5	11:18:43	960.02	15.54	6.73	230.72	2.60	54.42	0.13	23.12
Last 5	11:22:43	1200.02	15.56	6.76	230.33	2.56	54.40	0.16	17.75
Variance 0			0.08	-0.00	-0.89			-0.01	-5.51
Variance 1			-0.02	0.04	-0.69			-0.00	-4.47
Variance 2			0.02	0.02	-0.39			0.03	-5.36

Notes

Pre-purged 2L

Grab Samples

GWC-7Z

Metals

GWC-7Z

Inorganics

Product Name: Low-Flow System

Date: 2018-03-21 11:42:50

Project Information:		Pump Information:	
Operator Name	Kevin Stephenson	Pump Model/Type	QED Dedicated
Company Name	Resolute Env	Tubing Type	LDPE
Project Name	Cells 1&2	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	112 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	364452		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	106.83 ft

Well Information:		Pumping Information:	
Well ID	GWC-8RR	Final Pumping Rate	120 mL/min
Well diameter	2 in	Total System Volume	0.9799034 L
Well Total Depth	111.83 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	0.84 in
Depth to Water	44.08 ft	Total Volume Pumped	7.68 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	11:20:14	2879.96	12.53	7.89	197.19	5.29	44.15	9.10	51.48
Last 5	11:24:14	3119.95	12.46	7.89	196.76	5.14	44.15	9.07	51.76
Last 5	11:28:14	3359.95	12.49	7.89	196.74	4.99	44.15	9.08	51.46
Last 5	11:32:14	3599.94	12.69	7.90	196.41	4.99	44.15	9.02	50.55
Last 5	11:36:14	3839.93	12.59	7.90	196.55	4.97	44.15	9.10	52.90
Variance 0			0.03	0.01	-0.03			0.02	-0.30
Variance 1			0.20	0.01	-0.33			-0.06	-0.91
Variance 2			-0.10	-0.00	0.14			0.08	2.35

Notes

Pre-purged 2 liter

Grab Samples

GWC-8RR

Metals

GWC-8RR

Inorganics

Product Name: Low-Flow System

Date: 2018-03-20 14:43:32

Project Information:		Pump Information:	
Operator Name	Kevin Stephenson	Pump Model/Type	QED Dedicated
Company Name	Resolute Env	Tubing Type	LDPE
Project Name	Cells 1&2	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	77 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	364452		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	71.37 ft

Well Information:		Pumping Information:	
Well ID	GWC-8Z	Final Pumping Rate	120 mL/min
Well diameter	2 in	Total System Volume	0.8236836 L
Well Total Depth	76.37 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	5.52 in
Depth to Water	44.29 ft	Total Volume Pumped	15.84 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	14:26:02	6959.93	15.53	7.20	172.77	5.19	44.75	7.89	69.04
Last 5	14:30:02	7199.92	15.71	7.20	173.96	5.02	44.75	7.74	69.55
Last 5	14:34:02	7439.93	15.71	7.22	175.82	4.84	44.75	7.69	69.07
Last 5	14:38:02	7679.92	15.65	7.26	176.40	4.69	44.75	7.78	67.72
Last 5	14:42:02	7919.92	15.57	7.27	177.30	4.56	44.75	7.81	68.05
Variance 0			0.00	0.02	1.86			-0.05	-0.47
Variance 1			-0.06	0.04	0.57			0.09	-1.36
Variance 2			-0.08	0.01	0.90			0.04	0.34

Notes

Pre-purged 2 liters

Grab Samples

GWC-8Z

Metals

GWC-8Z

Inorganics

Product Name: Low-Flow System

Date: 2018-03-20 13:15:40

Project Information:		Pump Information:	
Operator Name	Audrey Fisher	Pump Model/Type	QED Dedicated
Company Name	Resolute Env	Tubing Type	LDPE
Project Name	Cells 1&2	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	**77 ft**
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	440279		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	**72 ft**

Well Information:		Pumping Information:	
Well ID	GWC-9	Final Pumping Rate	120 mL/min
Well diameter	2 in	Total System Volume	**0.828684 L**
Well Total Depth	77.16 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	0 in
Depth to Water	39.25 ft	Total Volume Pumped	3.85 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	12:55:41	960.02	15.84	5.03	34.32	1.16	39.23	7.02	73.28
Last 5	12:59:41	1200.02	15.93	4.98	34.39	0.78	39.24	6.97	75.56
Last 5	13:03:43	1442.01	15.93	4.93	34.37	0.50	39.24	7.06	77.94
Last 5	13:07:43	1682.01	15.97	4.92	34.26	0.55	39.24	7.02	79.09
Last 5	13:11:43	1922.00	15.93	4.88	34.19	0.34	39.25	7.02	81.41
Variance 0			0.01	-0.05	-0.03			0.09	2.38
Variance 1			0.04	-0.02	-0.10			-0.04	1.15
Variance 2			-0.04	-0.04	-0.08			-0.00	2.32

Notes

Pre-purged 4L.

Grab Samples

GWC-9	DUP-2
Metals	Metals
GWC-9	DUP-2
Inorganics	Inorganics

Product Name: Low-Flow System

Date: 2018-03-20 15:20:09

Project Information:		Pump Information:	
Operator Name	Audrey Fisher	Pump Model/Type	QED Dedicated
Company Name	Resolute Env	Tubing Type	LDPE
Project Name	Cells 1&2	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	**72 ft**
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	440279		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	**67 ft**

Well Information:		Pumping Information:	
Well ID	GWC-10	Final Pumping Rate	120 mL/min
Well diameter	2 in	Total System Volume	**0.806366 L**
Well Total Depth	71.81 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	11.04 in
Depth to Water	39.19 ft	Total Volume Pumped	6.72 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	14:59:51	2402.00	15.75	6.12	138.91	3.74	32.12	6.53	89.53
Last 5	15:03:51	2641.99	15.73	6.17	141.85	3.30	32.12	6.61	88.96
Last 5	15:07:51	2881.99	15.66	6.20	142.94	3.19	32.11	6.66	88.35
Last 5	15:11:51	3121.99	15.62	6.20	143.28	3.26	32.11	6.75	88.66
Last 5	15:15:51	3361.95	15.58	6.23	141.95	3.74	32.11	6.82	87.47
Variance 0			-0.07	0.03	1.09			0.05	-0.61
Variance 1			-0.04	0.01	0.34			0.09	0.31
Variance 2			-0.04	0.03	-1.33			0.07	-1.19

Notes

Pre-purged 1.75L

Grab Samples

GWC-10

Metals

GWC-10

Inorganics

Product Name: Low-Flow System

Date: 2018-03-21 09:52:19

Project Information:		Pump Information:	
Operator Name	Brian Steele	Pump Model/Type	QED
Company Name	Resolute	Tubing Type	LDPE
Project Name	Cells 1&2	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	100 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	497259		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	95 ft

Well Information:		Pumping Information:	
Well ID	GWC-10R	Final Pumping Rate	150 mL/min
Well diameter	2 in	Total System Volume	0.9313423 L
Well Total Depth	100.20 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	0 in
Depth to Water	32.06 ft	Total Volume Pumped	6.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	09:33:38	1680.00	12.59	7.27	323.47	0.09	32.06	4.79	47.10
Last 5	09:37:38	1920.00	12.75	7.30	321.23	0.06	32.06	5.00	45.04
Last 5	09:41:40	2161.99	12.68	7.32	320.55	0.04	32.07	5.25	43.14
Last 5	09:45:40	2401.99	12.70	7.32	320.28	0.15	32.07	5.50	41.96
Last 5	09:49:40	2641.98	12.85	7.33	318.91	0.02	32.07	5.61	41.41
Variance 0			-0.08	0.02	-0.68			0.25	-1.90
Variance 1			0.02	-0.00	-0.27			0.25	-1.18
Variance 2			0.15	0.02	-1.37			0.11	-0.54

Notes

Grab Samples
GWC-10R
    Inorganics
GWC-10R
    Metals

Product Name: Low-Flow System

Date: 2018-03-21 11:32:41

Project Information:		Pump Information:	
Operator Name	Brian Steele	Pump Model/Type	QED
Company Name	Resolute	Tubing Type	LDPE
Project Name	Cells 1&2	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	50 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	497259		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	42 ft

Well Information:		Pumping Information:	
Well ID	GWC-11	Final Pumping Rate	200 mL/min
Well diameter	2 in	Total System Volume	0.7081711 L
Well Total Depth	47.35 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	0 in
Depth to Water	22.03 ft	Total Volume Pumped	12 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	11:14:35	2879.99	15.56	6.91	173.57	0.85	22.07	5.33	53.11
Last 5	11:18:35	3119.98	15.60	6.96	176.78	0.98	22.07	5.38	52.79
Last 5	11:22:35	3359.98	15.49	6.99	180.37	0.75	22.07	5.46	52.99
Last 5	11:26:35	3599.97	15.84	7.04	183.30	0.80	22.07	5.49	51.71
Last 5	11:30:36	3841.00	16.03	7.07	185.07	0.83	22.07	5.48	51.05
Variance 0			-0.12	0.04	3.59			0.08	0.20
Variance 1			0.36	0.04	2.92			0.02	-1.28
Variance 2			0.18	0.04	1.78			-0.01	-0.66

Notes

Grab Samples
GWC-11
    Inorganics
GWC-11
    Metals

Product Name: Low-Flow System

Date: 2018-03-22 10:06:10

Project Information:		Pump Information:	
Operator Name	Brian Steele	Pump Model/Type	QED
Company Name	Resolute	Tubing Type	LDPE
Project Name	Cells 1&2	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	90 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	497259		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	78 ft

Well Information:		Pumping Information:	
Well ID	GWC-11	Final Pumping Rate	200 mL/min
Well diameter	2 in	Total System Volume	0.886708 L
Well Total Depth	83.20 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	0 in
Depth to Water	22 ft	Total Volume Pumped	4.6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	09:48:00	480.03	15.56	7.78	257.02	1.46	22.00	6.52	61.26
Last 5	09:52:00	720.03	15.69	7.79	258.25	0.84	22.00	6.41	59.80
Last 5	09:56:00	960.02	15.60	7.80	259.93	1.12	22.00	6.39	59.30
Last 5	10:00:00	1200.02	15.87	7.81	261.27	0.49	22.00	6.41	58.20
Last 5	10:04:01	1441.01	15.83	7.81	261.11	0.35	22.00	6.44	57.94
Variance 0			-0.09	0.01	1.69			-0.02	-0.51
Variance 1			0.27	0.01	1.34			0.03	-1.10
Variance 2			-0.04	0.01	-0.16			0.03	-0.26

Notes

Grab Samples
GWC-11R
    Inorganics
GWC-11R
    Metals

Product Name: Low-Flow System

Date: 2018-03-21 12:45:01

Project Information:		Pump Information:	
Operator Name	Brian Steele	Pump Model/Type	QED
Company Name	Resolute	Tubing Type	LDPE
Project Name	Cells 1&2	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	90 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	497259		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	78 ft

Well Information:		Pumping Information:	
Well ID	GWC-11R	Final Pumping Rate	225 mL/min
Well diameter	2 in	Total System Volume	0.886708 L
Well Total Depth	83.20 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	0 in
Depth to Water	21.97 ft	Total Volume Pumped	0 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	12:36:23	240.14	15.34	7.62	257.07	0.17	22.02	5.71	49.96
Last 5	12:40:23	480.03	14.89	7.72	257.23	--	--	5.90	49.95
Last 5									
Last 5									
Last 5									
Variance 0			nan	nan	nan			nan	nan
Variance 1			-0.45	0.09	0.15			0.19	-0.01
Variance 2			0.00	0.00	0.00			0.00	0.00

Notes

No samples collected, ants inside well tubing couldn’t hold the pressure due to ants. Organic feces smell

Grab Samples

Product Name: Low-Flow System

Date: 2018-03-21 15:56:33

Project Information:		Pump Information:	
Operator Name	Kevin Stephenson	Pump Model/Type	QED Dedicated
Company Name	Resolute Env	Tubing Type	LDPE
Project Name	Cells 1&2	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	54 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	364452		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	49.03 ft

Well Information:		Pumping Information:	
Well ID	GWC-12	Final Pumping Rate	140 mL/min
Well diameter	2 in	Total System Volume	0.7210249 L
Well Total Depth	54.03 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	0 in
Depth to Water	21.29 ft	Total Volume Pumped	0 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	15:36:06	6722.87	16.34	6.34	117.32	24.50	21.74	0.20	-12.95
Last 5	15:40:06	6962.86	16.38	6.33	117.42	23.50	21.75	0.19	-13.10
Last 5	15:44:06	7202.86	16.29	6.29	117.46	22.00	21.85	0.17	-12.87
Last 5	15:48:06	7442.85	16.22	6.32	117.20	21.80	21.83	0.15	-12.97
Last 5	15:52:06	7682.84	16.07	6.34	116.97	24.80	21.82	0.15	-14.32
Variance 0			-0.09	-0.04	0.04			-0.02	0.22
Variance 1			-0.07	0.04	-0.26			-0.02	-0.10
Variance 2			-0.15	0.01	-0.23			0.01	-1.34

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2018-03-22 15:02:32

Project Information:		Pump Information:	
Operator Name	Kevin Stephenson	Pump Model/Type	QED Dedicated
Company Name	Resolute Env	Tubing Type	LDPE
Project Name	Cells 1&2	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	54 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	364452		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	49.03 ft

Well Information:		Pumping Information:	
Well ID	GWC-12	Final Pumping Rate	110 mL/min
Well diameter	2 in	Total System Volume	0.7210249 L
Well Total Depth	54.03 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	2.52 in
Depth to Water	21.35 ft	Total Volume Pumped	21.12 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 0.2	+/- 1000%
Last 5	14:44:11	10563.91	16.74	6.44	116.36	6.97	21.56	0.33	-30.98
Last 5	14:48:11	10803.90	16.80	6.44	116.26	6.98	21.48	0.25	-30.87
Last 5	14:52:11	11043.90	16.70	6.45	115.85	6.75	21.46	0.31	-31.06
Last 5	14:56:11	11283.89	16.42	6.43	115.97	6.98	21.51	0.39	-31.12
Last 5	15:00:11	11523.90	16.76	6.45	116.56	6.96	21.56	0.37	-33.04
Variance 0			-0.10	0.00	-0.41			0.06	-0.18
Variance 1			-0.28	-0.02	0.12			0.08	-0.07
Variance 2			0.35	0.02	0.59			-0.02	-1.92

Notes

Pre-purged 9 liters. Three hours after stabilization turbidity was above 5NTU but below 10 NTU. Samples taken.

Grab Samples

GWC-12

Metals

GWC-12

Inorganics

Product Name: Low-Flow System

Date: 2018-03-21 14:46:13

Project Information:		Pump Information:	
Operator Name	Brian Steele	Pump Model/Type	QED
Company Name	Resolute	Tubing Type	LDPE
Project Name	Cells 1&2	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	90 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	497259		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	79 ft

Well Information:		Pumping Information:	
Well ID	GWC-13	Final Pumping Rate	100 mL/min
Well diameter	2 in	Total System Volume	0.886708 L
Well Total Depth	84.80 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	0 in
Depth to Water	30.69 ft	Total Volume Pumped	10 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	14:27:15	3839.97	14.50	7.33	327.95	6.76	31.69	4.58	27.98
Last 5	14:31:15	4079.96	14.62	7.34	318.13	5.46	31.69	4.57	28.90
Last 5	14:35:15	4319.95	14.71	7.33	313.89	4.64	31.69	4.55	28.78
Last 5	14:39:15	4559.96	14.57	7.33	313.13	4.12	31.69	4.56	29.34
Last 5	14:43:15	4799.94	14.53	7.33	315.40	3.60	31.69	4.63	29.03
Variance 0			0.09	-0.00	-4.24			-0.02	-0.12
Variance 1			-0.14	-0.01	-0.76			0.00	0.57
Variance 2			-0.05	-0.00	2.27			0.07	-0.31

Notes

Grab Samples
GWC-13
    Inorganics
GWC-13
    Metals

Product Name: Low-Flow System

Date: 2018-03-22 12:59:33

Project Information:		Pump Information:	
Operator Name	Brian Steele	Pump Model/Type	QED
Company Name	Resolute	Tubing Type	LDPE
Project Name	Cells 1&2	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	110 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	497259		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	101 ft

Well Information:		Pumping Information:	
Well ID	GWC-13RZ	Final Pumping Rate	150 mL/min
Well diameter	2 in	Total System Volume	0.9759765 L
Well Total Depth	106 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	0 in
Depth to Water	69.97 ft	Total Volume Pumped	0 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	12:42:59	7200.92	16.36	7.59	447.40	1.45	191.75	4.47	69.13
Last 5	12:46:59	7440.90	16.27	7.58	448.30	1.46	92.25	4.56	69.62
Last 5	12:50:59	7680.86	16.33	7.59	450.24	1.32	93.00	4.65	69.35
Last 5	12:54:59	7920.86	16.46	7.59	452.06	0.25	93.50	4.70	69.54
Last 5	12:58:59	8160.85	16.33	7.58	453.75	0.76	94.15	4.79	69.76
Variance 0			0.05	0.01	1.94			0.09	-0.27
Variance 1			0.13	-0.00	1.81			0.05	0.20
Variance 2			-0.14	-0.00	1.69			0.09	0.22

Notes

Complete evacuation

Grab Samples

Product Name: Low-Flow System

Date: 2018-03-22 17:21:52

Project Information:		Pump Information:	
Operator Name	Brian Steele	Pump Model/Type	QED
Company Name	Resolute	Tubing Type	LDPE
Project Name	Cells 1&2	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	80 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	497259		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	71 ft

Well Information:		Pumping Information:	
Well ID	GWC-14Z	Final Pumping Rate	150 mL/min
Well diameter	2 in	Total System Volume	0.8420739 L
Well Total Depth	76.34 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	0 in
Depth to Water	30.15 ft	Total Volume Pumped	20 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	17:02:00	12509.74	17.22	7.04	252.24	6.84	32.75	5.01	78.97
Last 5	17:06:07	12756.75	17.37	7.02	243.47	6.65	32.58	5.09	78.84
Last 5	17:10:09	12998.74	17.17	6.98	234.08	6.60	32.50	5.18	80.17
Last 5	17:14:09	13238.74	17.22	6.94	228.76	7.05	32.40	5.31	80.56
Last 5	17:18:09	13478.78	16.86	6.93	223.80	7.17	32.30	5.42	80.44
Variance 0			-0.20	-0.04	-9.39			0.09	1.34
Variance 1			0.05	-0.03	-5.32			0.13	0.39
Variance 2			-0.36	-0.01	-4.96			0.11	-0.12

Notes

3 plus hours after stability turbidity remained above 5 NTU but below 10 NTU, samples taken.

Grab Samples

GWC-14Z

Inorganics

GWC-14Z

Metals

Product Name: Low-Flow System

Date: 2018-03-23 12:00:46

Project Information:		Pump Information:	
Operator Name	Robert Mull	Pump Model/Type	Dedicated Pump
Company Name	Resolute Env	Tubing Type	LDPE
Project Name	Cells 1&2	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	99 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	364455		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	92.50 ft

Well Information:		Pumping Information:	
Well ID	GWC-15R	Final Pumping Rate	120 mL/min
Well diameter	2 in	Total System Volume	0.9268789 L
Well Total Depth	97.50 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	2.52 in
Depth to Water	39.25 ft	Total Volume Pumped	16.4 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	11:42:06	7204.06	17.38	7.36	315.28	5.32	39.46	2.17	570.88
Last 5	11:46:06	7444.06	17.43	7.35	315.61	5.39	39.44	2.17	578.61
Last 5	11:50:06	7684.07	17.52	7.36	315.10	4.72	39.42	2.17	586.34
Last 5	11:54:06	7924.06	17.34	7.32	315.63	4.58	39.43	2.22	596.56
Last 5	11:58:06	8164.05	17.64	7.34	313.01	4.36	39.46	2.19	604.21
Variance 0			0.09	0.01	-0.52			0.00	7.73
Variance 1			-0.18	-0.04	0.53			0.05	10.22
Variance 2			0.30	0.02	-2.62			-0.03	7.65

Notes

Grab Samples
GWC-15R
    Inorganics
DUP-3
    Inorganics
GWC-15R
    Metals

DUP-3

Metals

Product Name: Low-Flow System

Date: 2018-03-23 14:01:50

Project Information:		Pump Information:	
Operator Name	Kevin Stephenson	Pump Model/Type	QED Dedicated
Company Name	Resolute Env	Tubing Type	LDPE
Project Name	Cells 1&2	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	75 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	364452		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	69.90 ft

Well Information:		Pumping Information:	
Well ID	GWC-15Z	Final Pumping Rate	120 mL/min
Well diameter	2 in	Total System Volume	0.8147567 L
Well Total Depth	74.90 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	3.84 in
Depth to Water	38.98 ft	Total Volume Pumped	21.12 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	13:42:17	9599.92	17.10	7.87	233.68	5.65	39.29	6.46	13.42
Last 5	13:46:17	9839.91	17.28	7.88	232.97	5.37	39.30	6.45	13.27
Last 5	13:50:17	10079.90	17.16	7.87	232.80	4.81	39.31	6.46	13.26
Last 5	13:54:17	10319.90	17.11	7.88	232.73	4.97	39.29	6.51	13.54
Last 5	13:58:17	10559.89	17.18	7.89	232.76	4.95	39.30	6.51	12.81
Variance 0			-0.11	-0.00	-0.17			0.01	-0.01
Variance 1			-0.06	0.01	-0.06			0.05	0.28
Variance 2			0.07	0.01	0.03			0.00	-0.73

Notes

Pre-purged 1.5 liters

Grab Samples

GWC-15Z

Metals

GWC-15Z

Inorganics

Product Name: Low-Flow System

Date: 2018-03-13 13:07:20

Project Information:		Pump Information:	
Operator Name	Robert Mull	Pump Model/Type	Dedicated Pump
Company Name	Resolute Env	Tubing Type	LDPE
Project Name	Cells 3&4	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	100 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	364455		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	93.12 ft

Well Information:		Pumping Information:	
Well ID	GWC-16R	Final Pumping Rate	115 mL/min
Well diameter	2 in	Total System Volume	0.9313423 L
Well Total Depth	98.12 ft	Calculated Sample Rate	180 sec
Screen Length	10 ft	Stabilization Drawdown	104.04 in
Depth to Water	79.69 ft	Total Volume Pumped	8 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	12:52:04	3422.96	15.46	7.11	569.07	1.01	86.99	2.29	534.43
Last 5	12:55:04	3602.95	15.67	7.11	567.60	1.42	87.37	2.28	524.89
Last 5	12:58:04	3782.95	16.00	7.08	566.12	0.83	87.70	2.25	515.73
Last 5	13:01:04	3962.95	16.00	7.08	564.27	1.11	88.03	2.22	507.38
Last 5	13:04:04	4142.94	15.87	7.11	563.72	0.98	88.36	2.18	500.01
Variance 0			0.33	-0.03	-1.48			-0.03	-9.15
Variance 1			-0.00	0.00	-1.85			-0.03	-8.35
Variance 2			-0.13	0.03	-0.55			-0.04	-7.37

Notes

Water level dropped below the top of the screen. Performing complete evacuation and will sample within 24 hours

Grab Samples

Product Name: Low-Flow System

Date: 2018-03-13 14:50:03

Project Information:		Pump Information:	
Operator Name	Kevin Stephenson	Pump Model/Type	QED Dedicated
Company Name	Resolute Env	Tubing Type	LDPE
Project Name	Cells 3&4	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	93 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	364452		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	87.93 ft

Well Information:		Pumping Information:	
Well ID	GWC-17R	Final Pumping Rate	150 mL/min
Well diameter	2 in	Total System Volume	0.8950984 L
Well Total Depth	92.93 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	63.96 in
Depth to Water	82.60 ft	Total Volume Pumped	3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	14:28:07	480.02	17.19	7.13	579.28	0.17	84.10	7.27	58.74
Last 5	14:32:07	720.03	17.19	7.13	581.95	0.10	84.10	7.29	60.84
Last 5	14:36:07	960.02	17.10	7.14	583.02	0.62	84.10	7.31	61.86
Last 5	14:40:07	1200.02	16.88	7.15	582.54	0.24	84.10	7.30	60.62
Last 5	14:44:07	1440.01	16.96	7.16	582.85	0.34	84.10	7.26	60.66
Variance 0			-0.09	0.01	1.08			0.02	1.02
Variance 1			-0.22	0.01	-0.48			-0.01	-1.23
Variance 2			0.08	0.01	0.31			-0.04	0.04

Notes

Pre-purged 1 liter. Water level started 1 foot from top of screen. Complete evacuation method initiated. Sampled to be collected 3/14.

Grab Samples

GWC-17R

Metals

GWC-17R

Inorganics

Product Name: Low-Flow System

Date: 2018-03-14 16:56:05

Project Information:		Pump Information:	
Operator Name	Michael Patinkin	Pump Model/Type	Bladder
Company Name	Resolute	Tubing Type	LDPE
Project Name	Cells 3&4	Tubing Diameter	0.17 in
Site Name	Plant Bowen	Tubing Length	90 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	553835		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	78.5 ft

Well Information:		Pumping Information:	
Well ID	GWC-18	Final Pumping Rate	125 mL/min
Well diameter	2 in	Total System Volume	0.616708 L
Well Total Depth	80.31 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	0 in
Depth to Water	73.03 ft	Total Volume Pumped	30 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 10000	+/- 0.1	+/- 5%	+/- 10000		+/- 0.2	+/- 10000
Last 5	16:35:17	3842.03	16.14	7.03	211.93	5.65	73.03	6.91	89.11
Last 5	16:39:17	4082.03	16.18	7.03	212.02	5.65	73.03	6.90	88.79
Last 5	16:43:17	4322.02	16.24	7.04	212.60	4.34	73.03	6.88	87.74
Last 5	16:47:17	4562.03	16.07	7.05	213.67	4.98	73.03	6.88	86.60
Last 5	16:51:17	4802.03	15.92	7.06	215.32	4.04	73.03	6.97	85.61
Variance 0			0.06	0.01	0.57			-0.02	-1.04
Variance 1			-0.17	0.01	1.08			0.00	-1.15
Variance 2			-0.16	0.01	1.65			0.09	-0.99

Notes

Start pump @ 180 mL/min at 1345. Reduce pump to 125 mL/min at 1515. Sample time 1700.

Grab Samples

GWC-18

Metals

GWC-18

Inorganics

Product Name: Low-Flow System

Date: 2018-03-14 10:31:03

Project Information:		Pump Information:	
Operator Name	Michael Patinkin	Pump Model/Type	QED Dedicated
Company Name	Resolute	Tubing Type	LDPE
Project Name	Cells 3&4	Tubing Diameter	0.17 in
Site Name	Plant Bowen	Tubing Length	145 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	553835		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	135 ft

Well Information:		Pumping Information:	
Well ID	GWC-18R	Final Pumping Rate	170 mL/min
Well diameter	2 in	Total System Volume	1.132196 L
Well Total Depth	140.10 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	0.24 in
Depth to Water	72.63 ft	Total Volume Pumped	12 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 10000	+/- 0.1	+/- 5%	+/- 10000		+/- 0.2	+/- 10000
Last 5	10:11:07	720.04	15.03	7.42	259.45	5.10	72.65	6.99	64.65
Last 5	10:15:07	960.04	15.07	7.45	258.74	5.37	72.65	6.98	63.87
Last 5	10:19:07	1200.04	15.14	7.47	258.30	4.71	72.65	6.97	63.09
Last 5	10:23:07	1440.03	15.17	7.50	258.85	4.89	72.65	7.03	62.36
Last 5	10:27:08	1681.03	15.08	7.51	258.52	4.35	72.65	7.04	62.08
Variance 0			0.06	0.03	-0.44			-0.00	-0.78
Variance 1			0.03	0.03	0.54			0.05	-0.74
Variance 2			-0.09	0.01	-0.32			0.01	-0.28

Notes

Start pump @ 170 mL/min at 0921. Sample time 1040.

Grab Samples

GWC-18R

Metals

GWC-18R

Inorganics

Product Name: Low-Flow System

Date: 2018-03-14 09:46:50

Project Information:		Pump Information:	
Operator Name	Brian Steele	Pump Model/Type	QED
Company Name	Resolute	Tubing Type	LDPE
Project Name	Cells 3&4	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	150 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	440279		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	141 ft

Well Information:		Pumping Information:	
Well ID	GWC-19R	Final Pumping Rate	200 mL/min
Well diameter	2 in	Total System Volume	1.154513 L
Well Total Depth	146.60 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	0 in
Depth to Water	76.67 ft	Total Volume Pumped	5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	09:28:22	240.10	15.03	7.81	283.57	6.68	76.67	6.49	73.49
Last 5	09:32:22	480.03	15.07	7.75	282.78	5.16	76.67	6.62	69.89
Last 5	09:36:22	720.02	15.21	7.76	282.27	4.18	76.67	6.67	65.18
Last 5	09:40:22	960.02	15.21	7.75	281.61	3.65	76.67	6.72	65.03
Last 5	09:44:22	1200.01	15.24	7.74	282.20	3.91	76.67	6.80	62.31
Variance 0			0.14	0.01	-0.51			0.06	-4.72
Variance 1			-0.00	-0.01	-0.67			0.04	-0.14
Variance 2			0.03	-0.01	0.60			0.09	-2.73

Notes

Grab Samples
GWC-19R
    Inorganics
GWC-19R
    Metals

Product Name: Low-Flow System

Date: 2018-03-14 10:58:51

Project Information:		Pump Information:	
Operator Name	Kevin Stephenson	Pump Model/Type	QED Dedicated
Company Name	Resolute Env	Tubing Type	LDPE
Project Name	Cells 3&4	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	88 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	364452		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	82.47 ft

Well Information:		Pumping Information:	
Well ID	GWC-20R	Final Pumping Rate	100 mL/min
Well diameter	2 in	Total System Volume	0.8727813 L
Well Total Depth	87.47 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	1.2 in
Depth to Water	70.51 ft	Total Volume Pumped	3.6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	10:40:03	1200.01	13.95	7.58	306.19	0.05	70.61	6.70	60.56
Last 5	10:44:03	1440.00	14.11	7.60	315.66	0.04	70.61	6.75	59.84
Last 5	10:48:04	1681.01	14.31	7.60	324.34	0.10	70.61	6.80	59.25
Last 5	10:52:06	1923.01	14.58	7.60	332.31	0.06	70.61	6.83	58.88
Last 5	10:56:09	2166.00	14.58	7.62	337.97	0.08	70.61	6.90	58.64
Variance 0			0.21	-0.00	8.68			0.05	-0.59
Variance 1			0.27	0.01	7.97			0.03	-0.37
Variance 2			-0.00	0.01	5.66			0.07	-0.24

Notes

Pre-purged 1 liter

Grab Samples

GWA-20R

Metals

GWA-20R

Inorganics

DUP-3

Metals

DUP-3

Inorganics

Product Name: Low-Flow System

Date: 2018-03-14 10:48:53

Project Information:		Pump Information:	
Operator Name	Audrey Fisher	Pump Model/Type	QED Dedicated
Company Name	Resolute Env	Tubing Type	LDPE
Project Name	Cells 3&4	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	**91** ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	497259		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	**86** ft

Well Information:		Pumping Information:	
Well ID	GWC-21R	Final Pumping Rate	120 mL/min
Well diameter	2 in	Total System Volume	**0.891172 L**
Well Total Depth	90.59 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	67.2 in
Depth to Water	71.21 ft	Total Volume Pumped	7.2 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	10:26:20	2647.99	15.56	6.99	571.11	0.40	76.96	2.55	32.66
Last 5	10:30:24	2891.99	15.78	6.99	570.02	0.37	76.92	2.74	32.35
Last 5	10:34:25	3132.98	15.83	6.99	570.04	0.45	76.90	2.78	32.68
Last 5	10:38:26	3373.97	15.74	6.99	568.89	0.51	76.89	2.86	33.23
Last 5	10:42:26	3613.97	15.70	6.99	567.22	0.46	76.81	2.95	33.38
Variance 0			0.05	-0.00	0.01			0.04	0.33
Variance 1			-0.10	-0.00	-1.15			0.08	0.56
Variance 2			-0.04	0.00	-1.67			0.09	0.15

Notes

Pre-purged 2L. Had to keep adjusting pump rate throughout Low Flow. Also had problems with the DO and water level stabilizing.

Grab Samples
GWC-21R
Metals
GWC-21R
Inorganics

Product Name: Low-Flow System

Date: 2018-03-13 16:13:56

Project Information:		Pump Information:	
Operator Name	Michael Patinkin	Pump Model/Type	QED Dedicated
Company Name	Resolute	Tubing Type	LDPE
Project Name	Cells 3&4	Tubing Diameter	0.17 in
Site Name	Plant Bowen	Tubing Length	125 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	553835		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	115 ft

Well Information:		Pumping Information:	
Well ID	GWC-22R	Final Pumping Rate	130 mL/min
Well diameter	2 in	Total System Volume	1.042928 L
Well Total Depth	119.60 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	0 in
Depth to Water	63.16 ft	Total Volume Pumped	17 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 10000	+/- 0.1	+/- 5%	+/- 10000		+/- 0.2	+/- 10000
Last 5	15:52:34	6510.01	16.85	7.47	290.41	5.31	63.17	5.47	-15.74
Last 5	15:56:34	6750.02	16.92	7.47	289.65	5.05	63.17	5.51	-15.15
Last 5	16:00:34	6990.01	16.96	7.47	289.49	4.81	63.17	5.48	-14.10
Last 5	16:04:34	7230.01	16.60	7.48	290.19	4.65	63.17	5.57	-14.30
Last 5	16:08:34	7470.02	16.60	7.49	290.10	4.82	63.17	5.61	-13.54
Variance 0			0.04	-0.00	-0.16			-0.03	1.05
Variance 1			-0.36	0.01	0.70			0.09	-0.21
Variance 2			0.00	0.00	-0.09			0.04	0.76

Notes

Start pump @ 130 mL/min at 1359. Sample time 1615.

Grab Samples

GWC-22R

Metals

GWC-22R

Inorganics

Dup-2

Metals

Dup-2

Inorganics

Product Name: Low-Flow System

Date: 2018-03-13 14:22:03

Project Information:		Pump Information:	
Operator Name	Robert Mull	Pump Model/Type	Dedicated Pump
Company Name	Resolute Env	Tubing Type	LDPE
Project Name	Cells 3&4	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	50 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	364455		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	44.57 ft

Well Information:		Pumping Information:	
Well ID	GWC-23R	Final Pumping Rate	100 mL/min
Well diameter	2 in	Total System Volume	0.7081711 L
Well Total Depth	49.57 ft	Calculated Sample Rate	180 sec
Screen Length	10 ft	Stabilization Drawdown	20.76 in
Depth to Water	38.61 ft	Total Volume Pumped	2 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	14:07:35	180.09	17.58	7.42	550.61	3.16	40.03	7.19	487.36
Last 5	14:10:35	360.03	17.58	7.41	552.63	3.27	40.07	7.08	498.20
Last 5	14:13:35	540.02	17.74	7.39	555.27	3.33	40.21	7.12	504.59
Last 5	14:16:35	720.02	17.92	7.41	555.65	2.07	40.28	7.06	506.86
Last 5	14:19:35	900.02	18.03	7.40	555.79	1.94	40.34	7.10	507.31
Variance 0			0.16	-0.02	2.63			0.04	6.40
Variance 1			0.18	0.02	0.38			-0.06	2.27
Variance 2			0.10	-0.01	0.14			0.04	0.45

Notes

Water level dropped into screen. Performing complete evacuation and will sample within 24 hours

Grab Samples

Product Name: Low-Flow System

Date: 2018-03-13 12:53:39

Project Information:		Pump Information:	
Operator Name	Audrey Fisher	Pump Model/Type	QED Dedicated
Company Name	Resolute Env	Tubing Type	LDPE
Project Name	Cells 3&4	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	**41** ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	497259		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	**35** ft

Well Information:		Pumping Information:	
Well ID	GWC-24R	Final Pumping Rate	150 mL/min
Well diameter	2 in	Total System Volume	**0.668000 L**
Well Total Depth	40.11 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	0 in
Depth to Water	24.96 ft	Total Volume Pumped	1.8 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	12:41:22	240.11	14.62	6.79	402.97	1.98	24.85	0.58	60.38
Last 5	12:45:22	480.03	14.53	6.84	383.60	1.89	24.83	0.78	52.29
Last 5	12:49:22	720.03	14.83	6.87	371.82	--	--	1.17	45.12
Last 5									
Last 5									
Variance 0			nan	nan	nan			nan	nan
Variance 1			-0.09	0.06	-19.37			0.20	-8.10
Variance 2			0.31	0.02	-11.77			0.39	-7.16

Notes

Pre-purged 0.5 gallons

No sample taken. Battery died in the middle of Low Flow.

Grab Samples

Product Name: Low-Flow System

Date: 2018-03-13 13:29:56

Project Information:		Pump Information:	
Operator Name	Audrey Fisher	Pump Model/Type	QED Dedicated
Company Name	Resolute Env	Tubing Type	LDPE
Project Name	Cells 3&4	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	**41** ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	497259		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	**35** ft

Well Information:		Pumping Information:	
Well ID	GWC-24R	Final Pumping Rate	100 mL/min
Well diameter	2 in	Total System Volume	**0.668000 L**
Well Total Depth	40.11 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	0.59 in
Depth to Water	24.21 ft	Total Volume Pumped	2 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	13:11:26	240.05	14.38	7.00	362.08	1.80	24.70	1.31	34.11
Last 5	13:15:26	480.03	15.04	6.98	359.06	1.50	24.81	1.29	30.24
Last 5	13:19:26	720.03	15.47	6.98	362.00	1.75	24.83	1.27	26.07
Last 5	13:23:26	960.02	15.74	7.00	361.75	1.63	24.83	1.28	22.14
Last 5	13:27:26	1200.02	15.92	7.02	356.94	1.55	24.80	1.40	18.72
Variance 0			0.43	-0.01	2.93			-0.02	-4.18
Variance 1			0.27	0.02	-0.25			0.01	-3.93
Variance 2			0.18	0.02	-4.81			0.12	-3.42

Notes

Pre-purged 3.5 L

Sample was taken this time

Grab Samples

GWC-24R

Metals

GWC-24R

Inorganics

Product Name: Low-Flow System

Date: 2018-03-13 13:17:16

Project Information:		Pump Information:	
Operator Name	Michael Patinkin	Pump Model/Type	QED Dedicated
Company Name	Resolute	Tubing Type	LDPE
Project Name	Cells 3&4	Tubing Diameter	0.17 in
Site Name	Plant Bowen	Tubing Length	110 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	553835		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	95 ft

Well Information:		Pumping Information:	
Well ID	GWC-25R	Final Pumping Rate	100 mL/min
Well diameter	2 in	Total System Volume	0.9759765 L
Well Total Depth	99.97 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	0 in
Depth to Water	23.22 ft	Total Volume Pumped	4.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 10000	+/- 0.1	+/- 5%	+/- 10000		+/- 0.2	+/- 10000
Last 5	12:58:22	960.03	14.26	7.22	279.16	0.81	23.22	6.53	54.21
Last 5	13:02:23	1201.03	13.54	7.31	281.38	1.51	23.22	6.68	53.29
Last 5	13:06:35	1453.07	14.04	7.36	286.35	1.17	23.22	6.89	51.71
Last 5	13:10:35	1693.05	14.67	7.40	281.78	1.10	23.22	6.77	52.43
Last 5	13:14:48	1946.03	14.40	7.43	282.37	1.26	23.22	6.79	52.39
Variance 0			0.50	0.05	4.97			0.21	-1.59
Variance 1			0.63	0.04	-4.56			-0.11	0.72
Variance 2			-0.27	0.03	0.58			0.02	-0.03

Notes

Start pump @ 100 mL/min at 1235. Sample time 1320.

Grab Samples

GWC-25R

Metals

GWC-25R

Inorganics

Product Name: Low-Flow System

Date: 2018-03-12 13:22:52

Project Information:		Pump Information:	
Operator Name	Kevin Stephenson	Pump Model/Type	QED Dedicated
Company Name	Resolute Env	Tubing Type	LDPE
Project Name	Cells 3&4	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	82 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	497259		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	76.77 ft

Well Information:		Pumping Information:	
Well ID	GWA-36	Final Pumping Rate	120 mL/min
Well diameter	2 in	Total System Volume	0.8460007 L
Well Total Depth	81.77 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	0 in
Depth to Water	30.41 ft	Total Volume Pumped	2.88 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	13:04:59	480.02	15.78	6.63	140.93	4.77	30.41	7.05	32.98
Last 5	13:08:59	720.01	15.93	6.62	140.43	4.04	30.41	7.03	31.10
Last 5	13:12:59	960.01	16.06	6.60	139.97	3.53	30.41	7.00	30.57
Last 5	13:16:59	1200.00	16.02	6.57	139.86	2.81	30.41	7.00	30.82
Last 5	13:20:59	1440.00	15.97	6.60	140.42	2.76	30.41	7.05	28.91
Variance 0			0.13	-0.02	-0.46			-0.03	-0.53
Variance 1			-0.04	-0.03	-0.11			0.00	0.25
Variance 2			-0.05	0.03	0.56			0.04	-1.91

Notes

Pre-purged 4 liters

Grab Samples

GWA-36

Metals

GWA-36

Inorganics

Product Name: Low-Flow System

Date: 2018-03-12 12:13:27

Project Information:		Pump Information:	
Operator Name	Audrey Fisher	Pump Model/Type	QED Dedicated
Company Name	Resolute Env	Tubing Type	LDPE
Project Name	Cells 3&4	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	**90** ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	497259		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	**84.50 ft**

Well Information:		Pumping Information:	
Well ID	GWA-36R	Final Pumping Rate	240 mL/min
Well diameter	2 in	Total System Volume	**0.886708 L**
Well Total Depth	89.56 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	0.36 in
Depth to Water	30.07 ft	Total Volume Pumped	4.8 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	11:50:29	240.11	14.93	7.26	296.90	4.43	30.07	5.37	52.12
Last 5	11:54:29	480.04	15.02	7.25	297.41	3.11	30.02	5.33	48.39
Last 5	11:58:29	720.03	15.15	7.24	296.07	3.34	30.03	5.34	45.91
Last 5	12:02:29	960.03	15.32	7.25	297.66	3.70	30.04	5.33	45.20
Last 5	12:06:29	1200.02	15.11	7.26	297.22	4.02	30.04	5.31	42.24
Variance 0			0.13	-0.01	-1.34			0.01	-2.48
Variance 1			0.16	0.01	1.59			-0.01	-0.72
Variance 2			-0.20	0.00	-0.44			-0.02	-2.96

Notes

Pre-purged 7.6 L

Grab Samples

GWA-36R

Metals

GWA-36R

Inorganics

Product Name: Low-Flow System

Date: 2018-03-12 11:55:59

Project Information:		Pump Information:	
Operator Name	Brian Steele	Pump Model/Type	QED
Company Name	Resolute	Tubing Type	LDPE
Project Name	Cells 3&4	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	109 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	440279		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	102 ft

Well Information:		Pumping Information:	
Well ID	GWA-37	Final Pumping Rate	100 mL/min
Well diameter	2 in	Total System Volume	0.9715132 L
Well Total Depth	107.52 ft	Calculated Sample Rate	180 sec
Screen Length	10 ft	Stabilization Drawdown	93.12 in
Depth to Water	50.69 ft	Total Volume Pumped	6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	11:38:33	2879.98	14.41	5.71	24.14	0.32	57.55	4.07	52.79
Last 5	11:41:33	3059.97	14.49	5.72	24.11	0.16	57.83	4.03	51.71
Last 5	11:44:33	3239.97	14.40	5.70	24.33	0.11	57.98	4.04	52.44
Last 5	11:47:33	3419.97	14.58	5.72	24.37	0.09	58.23	4.03	51.09
Last 5	11:50:33	3599.96	14.38	5.72	24.41	0.15	58.45	4.01	50.57
Variance 0			-0.09	-0.02	0.22			0.01	0.73
Variance 1			0.18	0.02	0.03			-0.02	-1.35
Variance 2			-0.20	0.00	0.04			-0.02	-0.52

Notes

Grab Samples
GWA-37
Inorganics
GWA-37
Metals

Product Name: Low-Flow System

Date: 2018-03-13 11:19:44

Project Information:		Pump Information:	
Operator Name	Kevin Stephenson	Pump Model/Type	QED Dedicated
Company Name	Resolute Env	Tubing Type	LDPE
Project Name	Cells 3&4	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	70 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	364452		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	64.35 ft

Well Information:		Pumping Information:	
Well ID	GWA-38	Final Pumping Rate	110 mL/min
Well diameter	2 in	Total System Volume	0.7924396 L
Well Total Depth	69.35 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	7.32 in
Depth to Water	56.75 ft	Total Volume Pumped	3.08 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	11:00:12	720.03	15.84	5.80	31.12	6.87	57.26	8.01	82.00
Last 5	11:04:12	960.02	15.75	5.59	32.18	4.95	57.29	7.98	77.45
Last 5	11:08:12	1200.01	15.65	5.57	33.15	3.98	57.32	8.01	72.80
Last 5	11:12:12	1440.01	15.54	5.55	34.08	3.42	57.34	8.07	71.64
Last 5	11:16:12	1680.01	15.89	5.57	34.39	2.79	57.36	7.96	68.78
Variance 0			-0.10	-0.02	0.97			0.03	-4.66
Variance 1			-0.11	-0.02	0.93			0.06	-1.15
Variance 2			0.34	0.02	0.31			-0.11	-2.86

Notes

Pre-purged 1 liter

Grab Samples

GWA-38

Metals

GWA-38

Inorganics

Product Name: Low-Flow System

Date: 2018-03-15 15:50:20

Project Information:		Pump Information:	
Operator Name	Brian Steele	Pump Model/Type	QED
Company Name	Resolute	Tubing Type	LDPE
Project Name	Cells 9&10	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	145 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	497259		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	135 ft

Well Information:		Pumping Information:	
Well ID	GWA-39RZ	Final Pumping Rate	100 mL/min
Well diameter	2 in	Total System Volume	1.132196 L
Well Total Depth	140.07 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	787 in
Depth to Water	64.35 ft	Total Volume Pumped	36 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	15:29:27	20882.58	15.65	7.50	338.41	--	--	1.99	44.24
Last 5	15:33:27	21122.58	15.65	7.52	336.59	--	--	2.34	43.34
Last 5	15:37:27	21362.57	15.60	7.52	335.43	0.44	127.20	2.35	43.13
Last 5	15:41:29	21604.57	15.56	7.50	337.64	0.66	127.85	2.15	44.40
Last 5	15:45:29	21844.56	15.52	7.49	340.89	--	--	2.00	45.62
Variance 0			-0.05	0.01	-1.16			0.01	-0.21
Variance 1			-0.04	-0.02	2.21			-0.20	1.26
Variance 2			-0.04	-0.02	3.25			-0.15	1.23

Notes

Complete evacuation, some readings were missed at the end due to pump issues. Top of pump around 130 feet btoc

Grab Samples

Product Name: Low-Flow System

Date: 2018-03-14 16:55:05

Project Information:		Pump Information:	
Operator Name	Brian Steele	Pump Model/Type	QED
Company Name	Resolute	Tubing Type	LDPE
Project Name	Cells 9&10	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	120 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	440279		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	112 ft

Well Information:		Pumping Information:	
Well ID	GWA-39Z	Final Pumping Rate	200 mL/min
Well diameter	2 in	Total System Volume	1.020611 L
Well Total Depth	117.50 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	0 in
Depth to Water	66.05 ft	Total Volume Pumped	21 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	16:36:12	5522.94	14.58	7.38	240.98	5.06	66.44	6.00	64.23
Last 5	16:40:12	5762.93	14.58	7.40	242.12	5.07	66.44	5.99	62.17
Last 5	16:44:12	6002.92	14.51	7.40	243.60	4.74	66.44	5.98	61.47
Last 5	16:48:12	6242.92	14.56	7.41	244.95	4.29	66.44	6.02	62.25
Last 5	16:52:12	6482.90	14.60	7.42	245.89	4.38	66.44	6.00	60.78
Variance 0			-0.07	0.00	1.48			-0.01	-0.69
Variance 1			0.05	0.01	1.35			0.04	0.77
Variance 2			0.04	0.01	0.95			-0.03	-1.47

Notes

Grab Samples
GWA-39Z
    Inorganics
GWA-39Z
    Metals

Product Name: Low-Flow System

Date: 2018-03-14 14:19:04

Project Information:		Pump Information:	
Operator Name	Brian Steele	Pump Model/Type	QED
Company Name	Resolute	Tubing Type	LDPE
Project Name	Cells 9&10	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	160 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	440279		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	149 ft

Well Information:		Pumping Information:	
Well ID	GWA-40	Final Pumping Rate	200 mL/min
Well diameter	2 in	Total System Volume	1.199148 L
Well Total Depth	154.80 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	0 in
Depth to Water	65.23 ft	Total Volume Pumped	6.2 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	13:59:30	720.02	15.84	7.52	228.85	0.55	65.23	7.72	49.40
Last 5	14:03:30	960.02	16.02	7.50	239.10	1.07	65.23	7.78	50.57
Last 5	14:07:30	1200.01	15.70	7.57	241.72	2.90	65.23	7.93	48.72
Last 5	14:11:30	1440.01	15.72	7.59	242.90	3.45	65.24	7.99	48.28
Last 5	14:15:30	1680.00	15.80	7.56	244.59	3.64	65.23	7.99	50.19
Variance 0			-0.33	0.07	2.62			0.15	-1.84
Variance 1			0.03	0.02	1.18			0.05	-0.45
Variance 2			0.08	-0.03	1.69			0.00	1.91

Notes

Grab Samples
GWA-40
    Inorganics
GWA-40
    Metals

Product Name: Low-Flow System

Date: 2018-03-14 14:54:28

Project Information:		Pump Information:	
Operator Name	Audrey Fisher	Pump Model/Type	QED Dedicated
Company Name	Resolute Env	Tubing Type	LDPE
Project Name	Cells 9&10	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	**102.5** ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	497259		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	**97.5** ft

Well Information:		Pumping Information:	
Well ID	GWA-41	Final Pumping Rate	120 mL/min
Well diameter	2 in	Total System Volume	**0.942501 L**
Well Total Depth	102.52 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	1.2 in
Depth to Water	73.23 ft	Total Volume Pumped	2.4 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	14:35:16	240.06	16.51	7.16	356.20	4.85	73.30	4.26	32.00
Last 5	14:39:16	480.03	16.50	7.12	357.42	4.77	73.31	4.25	32.42
Last 5	14:43:16	720.02	16.55	7.11	355.16	3.53	73.31	4.19	32.24
Last 5	14:47:16	960.02	16.41	7.09	355.39	3.20	73.32	4.19	32.66
Last 5	14:51:16	1200.02	16.42	7.08	356.31	2.61	73.33	4.23	32.55
Variance 0			0.05	-0.01	-2.26			-0.06	-0.18
Variance 1			-0.14	-0.02	0.23			-0.00	0.42
Variance 2			0.01	-0.01	0.92			0.04	-0.11

Notes

Pre-purged 6L

Grab Samples

GWA-41

Metals

GWA-41

Inorganics

Product Name: Low-Flow System

Date: 2018-03-14 16:30:34

Project Information:		Pump Information:	
Operator Name	Audrey Fisher	Pump Model/Type	QED Dedicated
Company Name	Resolute Env	Tubing Type	LDPE
Project Name	Cells 9&10	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	**130** ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	497259		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	**124.80** ft

Well Information:		Pumping Information:	
Well ID	GWA-41R	Final Pumping Rate	120 mL/min
Well diameter	2 in	Total System Volume	**1.065245 L**
Well Total Depth	129.80 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	1.68 in
Depth to Water	74.00 ft	Total Volume Pumped	5.28 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	16:06:28	1683.00	16.77	6.98	359.48	2.08	74.14	1.49	32.15
Last 5	16:10:28	1923.00	16.77	7.00	370.54	0.98	74.11	1.47	32.60
Last 5	16:14:28	2162.99	16.72	7.03	374.48	0.99	74.12	1.48	31.85
Last 5	16:18:28	2402.99	16.69	7.04	378.31	1.61	74.12	1.51	31.83
Last 5	16:22:28	2642.97	16.64	7.04	381.86	4.46	74.14	1.59	32.07
Variance 0			-0.05	0.03	3.94			0.01	-0.75
Variance 1			-0.04	0.01	3.83			0.03	-0.02
Variance 2			-0.05	0.01	3.55			0.08	0.24

Notes

Pre-purged 1.75L

Grab Samples

GWA-41R

Metals

GWA-41R

Inorganics

Product Name: Low-Flow System

Date: 2018-03-14 14:53:54

Project Information:		Pump Information:	
Operator Name	Kevin Stephenson	Pump Model/Type	QED Dedicated
Company Name	Resolute Env	Tubing Type	LDPE
Project Name	Cells 9&10	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	85 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	364452		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	79.30 ft

Well Information:		Pumping Information:	
Well ID	GWA-42	Final Pumping Rate	120 mL/min
Well diameter	2 in	Total System Volume	0.859391 L
Well Total Depth	84.30 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	0.12 in
Depth to Water	72.74 ft	Total Volume Pumped	2.88 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	14:36:04	480.02	16.58	7.58	276.36	1.70	72.75	3.46	51.95
Last 5	14:40:04	720.02	16.54	7.58	276.13	1.14	72.75	3.62	49.76
Last 5	14:44:04	960.03	16.56	7.60	276.00	1.12	72.75	3.39	47.37
Last 5	14:48:04	1200.02	16.59	7.60	275.95	0.44	72.75	3.36	46.17
Last 5	14:52:04	1440.02	16.51	7.60	275.13	0.59	72.75	3.32	45.82
Variance 0			0.03	0.01	-0.12			-0.23	-2.39
Variance 1			0.03	-0.00	-0.05			-0.02	-1.20
Variance 2			-0.09	-0.00	-0.83			-0.05	-0.36

Notes

Pre-purged 1.5 liters

Grab Samples

GWA-42

Metals

GWA-42

Inorganics

Product Name: Low-Flow System

Date: 2018-03-14 16:04:00

Project Information:		Pump Information:	
Operator Name	Kevin Stephenson	Pump Model/Type	QED Dedicated
Company Name	Resolute Env	Tubing Type	LDPE
Project Name	Cells 9&10	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	92 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	364452		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	87.35 ft

Well Information:		Pumping Information:	
Well ID	GWA-43	Final Pumping Rate	120 mL/min
Well diameter	2 in	Total System Volume	0.8906349 L
Well Total Depth	92.35 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	0.96 in
Depth to Water	48.65 ft	Total Volume Pumped	3.36 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	15:46:05	720.02	15.25	6.26	32.97	4.69	48.73	8.48	66.39
Last 5	15:50:05	960.02	15.23	6.08	32.56	3.79	48.73	8.50	68.59
Last 5	15:54:05	1200.01	15.30	5.95	32.61	3.02	48.73	8.45	71.13
Last 5	15:58:06	1441.01	15.32	5.92	32.85	2.02	48.73	8.38	72.47
Last 5	16:02:06	1681.00	15.39	5.85	32.78	1.73	48.73	8.45	76.11
Variance 0			0.07	-0.13	0.05			-0.05	2.54
Variance 1			0.02	-0.03	0.24			-0.07	1.34
Variance 2			0.06	-0.06	-0.07			0.07	3.63

Notes

Pre-purged 1 liter.

Grab Samples

GWA-43
Metals

DUP-1
Metals

GWA-43
Inorganics

DUP-1
Inorganics

Product Name: Low-Flow System

Date: 2018-03-15 12:49:44

Project Information:		Pump Information:	
Operator Name	Michael Patinkin	Pump Model/Type	QED Dedicated
Company Name	Resolute	Tubing Type	LDPE
Project Name	Cells 9&10	Tubing Diameter	0.17 in
Site Name	Plant Bowen	Tubing Length	120 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	553835		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	108 ft

Well Information:		Pumping Information:	
Well ID	GWA-43R	Final Pumping Rate	470 mL/min
Well diameter	2 in	Total System Volume	1.020611 L
Well Total Depth	112.82 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	3.36 in
Depth to Water	49.11 ft	Total Volume Pumped	70 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 10000	+/- 0.1	+/- 5%	+/- 10000		+/- 0.2	+/- 10000
Last 5	12:24:56	11537.01	16.16	7.64	249.96	10.72	49.39	7.56	40.23
Last 5	12:28:56	11777.01	16.16	7.65	250.10	11.99	49.39	7.56	39.93
Last 5	12:32:56	12017.01	16.18	7.65	250.26	9.82	49.39	7.57	39.76
Last 5	12:36:56	12257.01	16.20	7.65	249.93	9.41	49.39	7.59	39.70
Last 5	12:40:56	12497.01	16.20	7.66	249.59	8.85	49.39	7.59	39.40
Variance 0			0.02	-0.00	0.17			0.01	-0.17
Variance 1			0.02	0.00	-0.33			0.01	-0.06
Variance 2			0.00	0.01	-0.34			0.01	-0.30

Notes

Start pump @ 145 mL/min at 0909. See MP field notes for series of flow rate changes. Sample time 1245.

Grab Samples

GWA-43R

Metals

GWA-43R

Inorganics

Product Name: Low-Flow System

Date: 2018-03-15 10:28:02

Project Information:		Pump Information:	
Operator Name	Kevin Stephenson	Pump Model/Type	QED Dedicated
Company Name	Resolute Env	Tubing Type	LDPE
Project Name	Cells 9&10	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	90 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	364452		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	84.70 ft

Well Information:		Pumping Information:	
Well ID	GWC-44	Final Pumping Rate	100 mL/min
Well diameter	2 in	Total System Volume	0.881708 L
Well Total Depth	89.70 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	1.92 in
Depth to Water	45.38 ft	Total Volume Pumped	2 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	10:10:19	240.13	15.48	4.69	117.33	1.06	45.49	4.38	98.90
Last 5	10:14:19	480.03	15.35	4.40	118.15	0.67	45.50	4.35	90.59
Last 5	10:18:19	720.02	15.29	4.38	119.21	0.37	45.51	4.38	86.05
Last 5	10:22:19	960.02	15.27	4.36	119.63	0.38	45.53	4.41	85.05
Last 5	10:26:19	1200.02	15.35	4.34	120.04	0.18	45.54	4.44	84.76
Variance 0			-0.06	-0.02	1.07			0.02	-4.53
Variance 1			-0.02	-0.02	0.41			0.03	-1.00
Variance 2			0.08	-0.02	0.41			0.03	-0.29

Notes

Pre-purged .5 liters

Grab Samples

GWC-44

Metals

GWC-44

Inorganics

Product Name: Low-Flow System

Date: 2018-03-15 10:38:50

Project Information:		Pump Information:	
Operator Name	Robert Mull	Pump Model/Type	Dedicated Pump
Company Name	Resolute Env	Tubing Type	LDPE
Project Name	Cells 9&10	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	70 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	364455		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	62.43 ft

Well Information:		Pumping Information:	
Well ID	GWC-45	Final Pumping Rate	150 mL/min
Well diameter	2 in	Total System Volume	0.7974396 L
Well Total Depth	67.43 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	43.56 in
Depth to Water	40.01 ft	Total Volume Pumped	6.9 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	10:20:05	1919.99	15.82	4.56	22.88	1.21	43.37	5.88	101.68
Last 5	10:24:05	2159.99	15.76	4.57	22.89	0.98	43.51	5.89	103.95
Last 5	10:28:07	2401.98	15.89	4.59	22.88	0.95	43.58	5.88	105.91
Last 5	10:32:07	2641.97	15.87	4.58	22.70	0.94	43.62	5.86	109.49
Last 5	10:36:07	2881.97	16.00	4.60	22.66	0.51	43.64	5.84	113.32
Variance 0			0.13	0.02	-0.01			-0.01	1.96
Variance 1			-0.01	-0.01	-0.18			-0.02	3.58
Variance 2			0.13	0.02	-0.03			-0.02	3.83

Notes

Grab Samples
GWC-45
    Inorganics
GWC-45
    Metals

Product Name: Low-Flow System

Date: 2018-03-15 11:53:22

Project Information:		Pump Information:	
Operator Name	Robert Mull	Pump Model/Type	Dedicated Pump
Company Name	Resolute Env	Tubing Type	LDPE
Project Name	Cells 9&10	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	129 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	364455		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	123.10 ft

Well Information:		Pumping Information:	
Well ID	GWC-45R	Final Pumping Rate	110 mL/min
Well diameter	2 in	Total System Volume	1.060781 L
Well Total Depth	128.10 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	0.72 in
Depth to Water	49.39 ft	Total Volume Pumped	3.6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	11:35:12	960.02	17.12	6.77	336.32	0.48	49.45	3.51	84.86
Last 5	11:39:12	1200.01	17.14	6.82	337.61	1.16	49.45	3.72	84.50
Last 5	11:43:12	1440.00	17.28	6.85	337.67	0.32	49.45	3.78	86.66
Last 5	11:47:12	1680.00	17.22	6.86	337.67	0.55	49.45	3.79	84.74
Last 5	11:51:12	1919.99	17.31	6.87	337.90	0.52	49.45	3.83	85.15
Variance 0			0.14	0.03	0.06			0.07	2.15
Variance 1			-0.05	0.01	-0.00			0.01	-1.92
Variance 2			0.08	0.00	0.23			0.04	0.41

Notes

Grab Samples
GWC-45R
    Inorganics
GWC-45R
    Metals

Product Name: Low-Flow System

Date: 2018-03-15 11:49:02

Project Information:		Pump Information:	
Operator Name	Kevin Stephenson	Pump Model/Type	QED Dedicated
Company Name	Resolute Env	Tubing Type	LDPE
Project Name	Cells 9&10	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	60 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	364452		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	54.10 ft

Well Information:		Pumping Information:	
Well ID	GWC-46R	Final Pumping Rate	120 mL/min
Well diameter	2 in	Total System Volume	0.7478054 L
Well Total Depth	59.10 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	16.56 in
Depth to Water	36.89 ft	Total Volume Pumped	2.4 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	11:28:24	240.04	17.37	7.15	485.12	0.07	38.29	6.71	74.43
Last 5	11:32:24	480.03	17.50	7.17	480.86	0.04	38.27	6.59	73.57
Last 5	11:36:24	720.02	17.45	7.19	477.70	0.05	38.28	6.51	72.97
Last 5	11:40:24	960.02	17.48	7.21	473.07	0.03	38.27	6.39	72.53
Last 5	11:44:24	1200.02	17.50	7.22	469.77	0.07	38.27	6.31	72.29
Variance 0			-0.05	0.02	-3.16			-0.08	-0.60
Variance 1			0.02	0.02	-4.63			-0.12	-0.44
Variance 2			0.02	0.01	-3.31			-0.08	-0.23

Notes

Pre-purged 2 liters.

Grab Samples

GWC-46R

Metals

GWC-46R

Inorganics

DUP-2

Metals

DUP-2

Inorganics

Product Name: Low-Flow System

Date: 2018-03-15 15:56:52

Project Information:		Pump Information:	
Operator Name	Michael Patinkin	Pump Model/Type	QED Dedicated
Company Name	Resolute	Tubing Type	LDPE
Project Name	Cells 9&10	Tubing Diameter	0.17 in
Site Name	Plant Bowen	Tubing Length	72 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	553835		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	62 ft

Well Information:		Pumping Information:	
Well ID	GWC-47	Final Pumping Rate	250 mL/min
Well diameter	2 in	Total System Volume	0.8063664 L
Well Total Depth	67.33 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	0.36 in
Depth to Water	38.21 ft	Total Volume Pumped	70 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 10000	+/- 0.1	+/- 5%	+/- 10000		+/- 0.2	+/- 10000
Last 5	15:34:43	240.14	16.83	7.43	212.40	5.04	38.27	3.07	37.88
Last 5	15:38:42	480.04	16.83	7.42	212.76	5.41	38.27	3.06	37.33
Last 5	15:42:42	720.04	17.05	7.42	212.18	4.94	38.27	3.05	36.92
Last 5	15:46:42	960.04	17.01	7.43	211.55	4.29	38.24	3.12	35.95
Last 5	15:50:42	1200.04	17.14	7.42	212.52	4.31	38.24	3.13	35.83
Variance 0			0.22	-0.00	-0.58			-0.01	-0.41
Variance 1			-0.04	0.01	-0.63			0.07	-0.97
Variance 2			0.14	-0.01	0.97			0.01	-0.12

Notes

Start pump @ 270 mL/min at 1344. See MP field notes for sequence of flow rate changes. Sample time 1600.

Grab Samples

GWC-47

Metals

GWC-47

Inorganics

Product Name: Low-Flow System

Date: 2018-03-16 11:01:49

Project Information:		Pump Information:	
Operator Name	Brian Steele	Pump Model/Type	QED
Company Name	Resolute	Tubing Type	LDPE
Project Name	Cells 3&4	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	89 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	497259		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	79 ft

Well Information:		Pumping Information:	
Well ID	GWC-47R	Final Pumping Rate	125 mL/min
Well diameter	2 in	Total System Volume	0.8822446 L
Well Total Depth	84.4 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	55.56 in
Depth to Water	38.27 ft	Total Volume Pumped	7.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	10:41:54	3359.97	16.99	7.64	297.05	0.67	42.29	2.39	71.54
Last 5	10:45:56	3601.96	17.09	7.65	297.43	0.63	42.29	2.58	71.80
Last 5	10:49:56	3841.96	17.38	7.68	296.16	0.62	42.29	2.70	71.92
Last 5	10:53:56	4081.95	17.50	7.69	295.47	0.65	42.29	2.76	72.06
Last 5	10:57:56	4321.95	17.44	7.72	295.71	--	--	2.82	71.56
Variance 0			0.29	0.02	-1.27			0.12	0.12
Variance 1			0.12	0.02	-0.69			0.06	0.14
Variance 2			-0.06	0.02	0.24			0.06	-0.50

Notes

Grab Samples
GWC-47R
    Inorganics
GWC-47R
    Metals

Product Name: Low-Flow System

Date: 2018-03-15 13:15:56

Project Information:		Pump Information:	
Operator Name	Kevin Stephenson	Pump Model/Type	QED Dedicated
Company Name	Resolute Env	Tubing Type	LDPE
Project Name	Cells 9&10	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	60 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	364452		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	54.49 ft

Well Information:		Pumping Information:	
Well ID	GWC-48	Final Pumping Rate	120 mL/min
Well diameter	2 in	Total System Volume	0.7478054 L
Well Total Depth	59.49 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	1.32 in
Depth to Water	34.82 ft	Total Volume Pumped	2.88 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	12:58:49	480.05	18.00	5.38	43.20	0.15	34.92	3.55	65.04
Last 5	13:02:49	720.02	17.94	5.23	40.32	0.08	34.92	3.57	66.30
Last 5	13:06:49	960.02	17.92	5.19	39.42	0.14	34.92	3.57	65.66
Last 5	13:10:49	1200.02	17.99	5.13	38.84	0.05	34.93	3.57	68.80
Last 5	13:14:49	1440.01	18.02	5.14	38.35	0.11	34.93	3.58	69.15
Variance 0			-0.02	-0.03	-0.90			0.00	-0.64
Variance 1			0.07	-0.06	-0.58			0.00	3.14
Variance 2			0.03	0.01	-0.50			0.01	0.34

Notes

Pre-purged 1 liter

Grab Samples

GWC-48

Metals

GWC-48

Inorganics

Product Name: Low-Flow System

Date: 2018-03-15 14:49:03

Project Information:		Pump Information:	
Operator Name	Robert Mull	Pump Model/Type	Dedicated Pump
Company Name	Resolute Env	Tubing Type	LDPE
Project Name	Cells 9&10	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	135 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	364455		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	129.40 ft

Well Information:		Pumping Information:	
Well ID	GWC-49R	Final Pumping Rate	140 mL/min
Well diameter	2 in	Total System Volume	1.087562 L
Well Total Depth	134.40 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	0 in
Depth to Water	53.40 ft	Total Volume Pumped	6.2 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	14:31:01	1679.99	18.82	7.42	237.24	0.31	53.40	5.10	80.19
Last 5	14:35:01	1919.99	18.83	7.48	237.89	0.39	53.39	5.04	80.69
Last 5	14:39:01	2159.98	18.81	7.52	237.35	0.24	53.38	5.05	82.36
Last 5	14:43:01	2399.98	18.90	7.53	237.51	0.08	53.37	5.12	84.59
Last 5	14:47:01	2639.98	18.87	7.51	235.81	0.15	53.37	5.20	86.42
Variance 0			-0.01	0.03	-0.54			0.01	1.67
Variance 1			0.08	0.01	0.16			0.07	2.23
Variance 2			-0.03	-0.02	-1.70			0.08	1.82

Notes

Grab Samples
GWC-49R
    Inorganics
GWC-49R
    Metals

Product Name: Low-Flow System

Date: 2018-03-15 13:30:18

Project Information:		Pump Information:	
Operator Name	Robert Mull	Pump Model/Type	Dedicated Pump
Company Name	Resolute Env	Tubing Type	LDPE
Project Name	Cells 9&10	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	95 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	364455		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	89.47 ft

Well Information:		Pumping Information:	
Well ID	GWC-49Z	Final Pumping Rate	200 mL/min
Well diameter	2 in	Total System Volume	0.9090251 L
Well Total Depth	94.47 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	16.56 in
Depth to Water	52.85 ft	Total Volume Pumped	11.6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	13:12:02	1920.99	18.08	5.10	29.16	2.49	54.16	6.55	137.99
Last 5	13:16:02	2160.99	18.06	5.13	28.98	2.30	54.19	6.56	136.27
Last 5	13:20:02	2400.98	18.08	5.09	28.68	1.67	54.21	6.56	138.61
Last 5	13:24:02	2640.98	17.90	5.09	28.78	1.47	54.21	6.60	139.65
Last 5	13:28:02	2880.97	18.01	5.12	28.60	1.35	54.23	6.58	138.96
Variance 0			0.02	-0.04	-0.30			0.01	2.34
Variance 1			-0.18	-0.00	0.10			0.04	1.04
Variance 2			0.11	0.03	-0.18			-0.02	-0.69

Notes

Grab Samples
GWC-49Z
    Inorganics
GWC-49Z
    Metals

Product Name: Low-Flow System

Date: 2018-03-16 12:59:48

Project Information:		Pump Information:	
Operator Name	Robert Mull	Pump Model/Type	Dedicated Pump
Company Name	Resolute Env	Tubing Type	LDPE
Project Name	Cells 1&2	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	98 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	364455		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	91.73 ft

Well Information:		Pumping Information:	
Well ID	GWA-50	Final Pumping Rate	100 mL/min
Well diameter	2 in	Total System Volume	0.9224155 L
Well Total Depth	96.73 ft	Calculated Sample Rate	180 sec
Screen Length	10 ft	Stabilization Drawdown	86.4 in
Depth to Water	66.42 ft	Total Volume Pumped	7.7 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	12:45:24	3780.02	16.58	5.62	22.94	0.21	73.00	5.73	225.31
Last 5	12:48:24	3960.02	16.72	5.62	23.22	0.27	73.16	5.69	224.84
Last 5	12:51:24	4140.02	16.72	5.61	23.41	0.25	73.33	5.66	225.71
Last 5	12:54:24	4320.03	16.63	5.63	23.66	0.19	73.47	5.62	225.71
Last 5	12:57:24	4500.03	16.58	5.64	23.88	0.25	73.62	5.62	221.78
Variance 0			0.00	-0.01	0.20			-0.03	0.87
Variance 1			-0.09	0.02	0.25			-0.04	-0.01
Variance 2			-0.04	0.01	0.22			-0.00	-3.93

Notes

Water level stable within 0.3 ft

Grab Samples

GWA-50

Inorganics

GWA-50

Metals

Product Name: Low-Flow System

Date: 2018-03-16 11:10:26

Project Information:		Pump Information:	
Operator Name	Robert Mull	Pump Model/Type	Dedicated Pump
Company Name	Resolute Env	Tubing Type	LDPE
Project Name	Cells 1&2	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	147 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	364455		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	140.53 ft

Well Information:		Pumping Information:	
Well ID	GWA-50R	Final Pumping Rate	105 mL/min
Well diameter	2 in	Total System Volume	1.141123 L
Well Total Depth	145.53 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	0.48 in
Depth to Water	71.92 ft	Total Volume Pumped	6.7 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	10:52:12	2880.03	15.08	5.44	19.63	0.25	71.96	10.03	234.89
Last 5	10:56:12	3120.02	15.18	5.52	19.72	0.34	71.96	9.77	241.38
Last 5	11:00:12	3360.03	15.28	5.50	19.90	0.23	71.96	9.56	255.92
Last 5	11:04:12	3600.03	15.30	5.44	20.28	0.21	71.96	9.48	275.20
Last 5	11:08:12	3840.01	15.37	5.46	20.78	0.16	71.96	9.32	292.17
Variance 0			0.11	-0.02	0.18			-0.21	14.53
Variance 1			0.02	-0.06	0.38			-0.08	19.28
Variance 2			0.07	0.02	0.50			-0.16	16.97

Notes

Grab Samples
GWA-50R
    Inorganics
DUP-1
    Inorganics
GWA-50R
    Metals

DUP-1

Metals

Product Name: Low-Flow System

Date: 2018-03-12 17:23:23

Project Information:		Pump Information:	
Operator Name	Brian Steele	Pump Model/Type	QED
Company Name	Resolute	Tubing Type	LDPE
Project Name	Cells 3&4	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	99 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	440279		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	89 ft

Well Information:		Pumping Information:	
Well ID	GWA-51RZ	Final Pumping Rate	100 mL/min
Well diameter	2 in	Total System Volume	0.9268789 L
Well Total Depth	94.23 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	0 in
Depth to Water	55.28 ft	Total Volume Pumped	0 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	17:06:06	14411.76	16.07	7.60	344.83	0.32	82.10	4.11	22.65
Last 5	17:10:06	14651.75	16.02	7.61	344.33	0.76	82.60	4.14	22.49
Last 5	17:14:06	14891.75	16.07	7.61	341.55	0.41	83.10	4.13	23.04
Last 5	17:18:06	15131.75	16.11	7.62	343.21	0.62	83.65	4.15	23.14
Last 5	17:22:06	15371.74	16.16	7.62	341.79	0.71	84.30	4.16	23.32
Variance 0			0.05	0.00	-2.78			-0.01	0.55
Variance 1			0.05	0.01	1.67			0.02	0.10
Variance 2			0.04	0.00	-1.42			0.02	0.18

Notes

Complete evacuation

Grab Samples

Product Name: Low-Flow System

Date: 2018-03-13 10:29:42

Project Information:		Pump Information:	
Operator Name	Brian Steele	Pump Model/Type	QED
Company Name	Resolute	Tubing Type	LDPE
Project Name	Cells 3&4	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	88 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	440279		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	79 ft

Well Information:		Pumping Information:	
Well ID	GWA-52	Final Pumping Rate	180 mL/min
Well diameter	2 in	Total System Volume	0.8777813 L
Well Total Depth	83.96 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	0 in
Depth to Water	55.98 ft	Total Volume Pumped	7.2 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	10:10:38	1440.01	15.14	7.18	278.76	0.56	55.98	6.41	64.05
Last 5	10:14:38	1680.00	15.08	7.24	276.27	0.53	55.98	6.38	63.68
Last 5	10:18:38	1920.00	15.36	7.26	276.86	0.67	55.98	6.46	63.00
Last 5	10:22:38	2160.00	15.23	7.32	274.83	0.60	55.93	6.46	61.37
Last 5	10:26:38	2399.99	15.26	7.34	274.36	0.74	55.93	6.46	61.14
Variance 0			0.28	0.02	0.60			0.08	-0.68
Variance 1			-0.13	0.05	-2.04			-0.00	-1.63
Variance 2			0.03	0.02	-0.46			0.00	-0.22

Notes

Grab Samples
GWA-52
Inorganics
GWA-52
Metals

Product Name: Low-Flow System

Date: 2018-03-13 15:09:04

Project Information:		Pump Information:	
Operator Name	Brian Steele	Pump Model/Type	QED
Company Name	Resolute	Tubing Type	LDPE
Project Name	Cells 3&4	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	120 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	440279		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	115 ft

Well Information:		Pumping Information:	
Well ID	GWC-53	Final Pumping Rate	240 mL/min
Well diameter	2 in	Total System Volume	1.020611 L
Well Total Depth	120.92 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	0 in
Depth to Water	57.14 ft	Total Volume Pumped	20 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	14:48:04	5040.94	16.69	7.72	267.87	5.18	57.15	6.95	48.46
Last 5	14:52:04	5280.93	16.65	7.75	267.97	4.17	57.15	6.92	47.47
Last 5	14:56:04	5520.93	16.70	7.77	267.43	3.93	57.15	6.93	46.66
Last 5	15:00:04	5760.93	16.78	7.75	268.16	4.70	57.15	6.93	47.57
Last 5	15:04:04	6000.92	16.70	7.74	267.71	3.85	57.15	6.93	48.01
Variance 0			0.05	0.02	-0.54			0.02	-0.81
Variance 1			0.09	-0.02	0.74			-0.00	0.91
Variance 2			-0.08	-0.01	-0.46			-0.00	0.44

Notes

Grab Samples
GWA-53
Inorganics
GWA-53
Metals

Product Name: Low-Flow System

Date: 2018-03-13 12:59:57

Project Information:		Pump Information:	
Operator Name	Brian Steele	Pump Model/Type	QED
Company Name	Resolute	Tubing Type	LDPE
Project Name	Cells 3&4	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	175 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	440279		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	163 ft

Well Information:		Pumping Information:	
Well ID	GWA-53R	Final Pumping Rate	150 mL/min
Well diameter	2 in	Total System Volume	1.266099 L
Well Total Depth	168.48 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	0 in
Depth to Water	57.78 ft	Total Volume Pumped	5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	12:41:39	960.02	16.69	7.77	270.48	8.94	57.78	6.93	70.73
Last 5	12:45:39	1200.01	16.29	7.75	272.79	6.42	57.78	6.94	49.31
Last 5	12:49:39	1440.01	16.47	7.78	271.01	3.83	57.78	6.86	45.79
Last 5	12:53:39	1680.00	16.38	7.75	270.88	3.02	57.78	6.86	47.29
Last 5	12:57:39	1920.00	16.43	7.80	270.58	2.40	56.78	6.87	44.93
Variance 0			0.18	0.03	-1.79			-0.08	-3.52
Variance 1			-0.09	-0.03	-0.13			-0.00	1.51
Variance 2			0.05	0.06	-0.30			0.01	-2.36

Notes

Grab Samples
GWA-53R
    Inorganics
GWA-53R
    Metals

Product Name: Low-Flow System

Date: 2018-03-13 10:23:04

Project Information:		Pump Information:	
Operator Name	Robert Mull	Pump Model/Type	Dedicated Pump
Company Name	Resolute Env	Tubing Type	LDPE
Project Name	Cells 3&4	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	69 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	364455		
Turbidity Make/Model	LaMotte 202we	Pump placement from TOC	61.11 ft

Well Information:		Pumping Information:	
Well ID	GWA-54	Final Pumping Rate	110 mL/min
Well diameter	2 in	Total System Volume	0.7929762 L
Well Total Depth	76.11 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	0.12 in
Depth to Water	50.24 ft	Total Volume Pumped	4 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	10:05:06	1200.00	15.86	7.31	236.92	0.18	50.25	2.38	230.63
Last 5	10:09:06	1440.00	15.73	7.35	240.08	0.31	50.25	2.35	248.35
Last 5	10:13:06	1679.99	15.82	7.35	240.32	0.24	50.25	2.41	276.91
Last 5	10:17:06	1919.99	15.81	7.34	241.36	0.22	50.25	2.48	294.75
Last 5	10:21:06	2159.97	16.20	7.39	240.88	0.29	50.25	2.53	315.22
Variance 0			0.09	0.01	0.23			0.05	28.56
Variance 1			-0.01	-0.01	1.04			0.08	17.84
Variance 2			0.39	0.04	-0.48			0.05	20.46

Notes

Grab Samples

GWA-54	DUP-1
Inorganics	Inorganics
GWA-54	DUP-1
Metals	Metals

Product Name: Low-Flow System

Date: 2018-03-12 15:23:32

Project Information:		Pump Information:	
Operator Name	Audrey Fisher	Pump Model/Type	QED Dedicated
Company Name	Resolute Env	Tubing Type	LDPE
Project Name	Cells 3&4	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	**66** ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	497259		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	**60** ft

Well Information:		Pumping Information:	
Well ID	GWA-55	Final Pumping Rate	160 mL/min
Well diameter	2 in	Total System Volume	**0.779586 L**
Well Total Depth	65.24 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	0.01 in
Depth to Water	42.60 ft	Total Volume Pumped	3.2 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	15:01:07	240.09	16.55	7.06	379.63	0.49	42.60	3.83	24.13
Last 5	15:05:07	480.03	16.53	7.05	378.59	0.42	42.59	3.90	23.94
Last 5	15:09:07	720.02	16.36	7.02	374.74	0.32	42.59	3.88	25.19
Last 5	15:13:07	960.02	16.28	7.02	374.14	0.22	42.59	3.86	24.74
Last 5	15:17:07	1200.01	16.49	7.00	371.91	0.38	42.59	3.88	24.87
Variance 0			-0.17	-0.03	-3.85			-0.02	1.26
Variance 1			-0.08	0.00	-0.60			-0.02	-0.46
Variance 2			0.21	-0.02	-2.24			0.02	0.13

Notes

Pre-purged 3.9 L

Grab Samples

GWA-55

Metals

GWA-55

Inorganics

Product Name: Low-Flow System

Date: 2018-03-12 16:04:34

Project Information:		Pump Information:	
Operator Name	Kevin Stephenson	Pump Model/Type	QED Dedicated
Company Name	Resolute Env	Tubing Type	LDPE
Project Name	Cells 3&4	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	106 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	497259		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	100.70 ft

Well Information:		Pumping Information:	
Well ID	GWA-55R	Final Pumping Rate	120 mL/min
Well diameter	2 in	Total System Volume	0.9531228 L
Well Total Depth	105.70 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	0 in
Depth to Water	42.59 ft	Total Volume Pumped	2.4 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	15:47:15	240.04	15.84	7.05	356.74	2.07	42.59	4.65	66.88
Last 5	15:51:15	480.02	16.04	7.06	357.17	1.57	42.60	4.66	65.47
Last 5	15:55:15	720.02	15.99	7.09	356.44	1.37	42.59	4.65	64.53
Last 5	15:59:15	960.00	15.94	7.10	355.79	1.00	42.59	4.65	64.06
Last 5	16:03:15	1200.00	15.88	7.11	355.23	1.02	42.59	4.66	63.50
Variance 0			-0.05	0.03	-0.73			-0.01	-0.94
Variance 1			-0.05	0.01	-0.65			0.00	-0.47
Variance 2			-0.06	0.01	-0.56			0.01	-0.56

Notes

Pre-purged 6 liters

Grab Samples

GWA-55R

Metals

GWA-55R

Inorganics

Product Name: Low-Flow System

Date: 2018-03-13 11:55:33

Project Information:		Pump Information:	
Operator Name	Michael Patinkin	Pump Model/Type	QED Dedicated
Company Name	Resolute	Tubing Type	LDPE
Project Name	Cells 3&4	Tubing Diameter	0.17 in
Site Name	Plant Bowen	Tubing Length	90 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	553835		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	81 ft

Well Information:		Pumping Information:	
Well ID	GWA-56	Final Pumping Rate	120 mL/min
Well diameter	2 in	Total System Volume	0.886708 L
Well Total Depth	85.87 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	6.4 in
Depth to Water	38.12 ft	Total Volume Pumped	7 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 10000	+/- 0.1	+/- 5%	+/- 10000		+/- 0.2	+/- 10000
Last 5	11:34:19	963.04	14.99	8.09	591.70	2.92	38.57	0.84	77.34
Last 5	11:38:32	1216.04	14.99	8.07	588.86	3.31	38.60	1.21	74.79
Last 5	11:42:32	1456.04	14.49	8.07	582.11	3.30	38.54	1.64	72.45
Last 5	11:46:32	1696.04	14.75	8.06	575.51	2.92	38.56	1.50	70.27
Last 5	11:50:33	1937.04	15.51	8.03	564.46	2.61	38.65	1.52	68.11
Variance 0			-0.50	0.00	-6.75			0.43	-2.34
Variance 1			0.26	-0.02	-6.60			-0.14	-2.18
Variance 2			0.76	-0.03	-11.05			0.03	-2.16

Notes

Start pump @ 120 mL/min at 1055. Sample time 1200.

Grab Samples

GWA-56

Metals

GWA-56

Inorganics

Well ID	Sample Date	Purge Volume (liter)	Time Elapsed	DTW (feet, TOC)	Drawdown (feet)	Temperature ©	pH (su)	Specific Conductance (uS/cm)	Turbidity (NTU)	DO (mg/L)	ORP (mV)
GWA-1	**9/17/2018**	10.0	6005	151.80	8.21	20.0	7.53	295.28	4.20	2.55	59.50
GWA-2	**9/14/2018**	5.9	3362	82.07	0.01	19.6	5.81	28.30	0.42	5.95	121.53
GWA-2R	**9/14/2018**	10.1	4343	81.91	1.54	19.6	7.55	200.49	0.30	6.52	54.38
GWA-3	**9/17/2018**	13.0	6499	66.63	11.44	20.6	5.22	20.71	0.47	8.18	179.91
GWA-4RZ	**9/17/2018**	16.7	7697	87.77	22.54	19.6	7.26	390.04	0.53	1.24	19.32
GWC-5	**9/17/2018**	15.0	7202	80.81	5.99	19.0	6.14	32.44	1.04	7.29	88.59
GWC-6	**9/17/2018**	2.4	1200	75.10	0.28	18.5	7.57	127.54	3.01	6.69	44.05
GWC-6RZ	**9/17/2018**	3.1	1680	78.72	0	19.4	6.96	112.63	1.45	6.76	33.70
GWC-7Z	**9/18/2018**	4.3	2160	60.11	0.04	18.8	7.26	225.59	2.96	1.22	-70.39
GWC-8RR	**9/18/2018**	2.8	1200	49.33	0.07	19.4	7.92	199.17	1.39	8.60	92.11
GWC-8Z	**9/18/2018**	5.8	2889	49.54	0.44	18.9	6.95	140.24	3.06	8.03	72.71
GWC-9	**9/18/2018**	4.0	1920	43.22	0	18.1	5.36	44.82	0.16	6.22	77.67
GWC-10	**9/18/2018**	5.7	2640	36.43	0	18.7	7.14	303.94	0.88	6.67	72.51
GWC-10R	**9/18/2018**	7.2	2881	36.50	0	17.7	7.66	291.60	0.13	5.99	35.73
GWC-11	**9/18/2018**	9.4	4321	26.30	0.01	20.8	6.90	180.60	0.92	4.35	80.27
GWC-11R	**9/18/2018**	6.5	3120	26.20	0.04	20.3	7.88	257.82	0.68	5.76	69.93
GWC-12	**9/18/2018**	3.8	1920	25.42	0.31	22.5	6.42	114.19	1.44	0.45	5.54
GWC-13	**9/19/2018**	29.3	13448	34.76	0.04	21.0	7.31	349.99	6.34	4.23	64.29
GWC-13RZ	**9/19/2018**	30.2	15122	49.62	46.65	20.5	7.43	464.72	4.98	2.85	157.88
GWC-14Z	**9/19/2018**	29.8	14906	34.58	3.03	21.2	6.88	193.45	9.49	6.14	84.21
GWC-15R	**9/19/2018**	5.3	2653	43.52	0.23	22.5	7.66	311.01	3.32	1.54	115.94
GWC-15Z	**9/19/2018**	2.6	1200	43.20	0.65	19.9	7.77	233.56	1.09	6.21	59.65
GWC-16R	**9/6/2018**	9.6	6005	81.15	7.76	19.3	7.08	473.86	0.95	2.58	29.54
GWC-17R	**9/10/2018**	4.7	2160	83.48	3.52	22.1	7.13	581.90	0.57	7.21	55.82
GWC-18	**9/11/2018**	23.0	8655	74.64	0.40	17.7	6.97	185.60	4.22	7.34	88.69
GWC-18R	**9/7/2018**	2.2	1200	74.02	0.02	19.6	7.69	273.74	1.08	6.63	40.95
GWC-19R	**9/10/2018**	2.6	1440	78.45	0.02	20.0	7.69	276.46	1.72	6.35	54.45
GWC-20R	**9/10/2018**	2.5	1440	72.50	0.10	20.0	7.84	297.94	1.13	6.55	40.30
GWC-21R	**9/10/2018**	7.2	4320	72.60	4.91	21.1	6.96	549.71	0.60	3.85	4.80
GWC-22R	**9/7/2018**	5.8	3120	65.01	0.01	21.7	7.53	286.35	1.89	2.99	1.16
GWC-23R	**9/11/2018**	9.2	4800	41.50	3.85	18.8	7.78	540.30	4.81	9.32	67.50
GWC-24R	**9/11/2018**	6.8	3361	26.24	0.79	18.7	7.40	282.30	0.89	3.60	36.21
GWC-25R	**9/11/2018**	2.8	1440	25.46	0	20.5	7.69	290.74	0.45	6.03	61.78

Well ID	Sample Date	Purge Volume (liter)	Time Elapsed	DTW (feet, TOC)	Drawdown (feet)	Temperature ©	pH (su)	Specific Conductance (uS/cm)	Turbidity (NTU)	DO (mg/L)	ORP (mV)
GWA-36	**9/6/2018**	3.4	1441	34.70	0.01	20.2	6.83	183.61	3.14	6.59	24.31
GWA-36R	**9/6/2018**	2.6	1200	34.37	0.01	21.2	7.21	315.75	1.49	4.97	26.34
GWA-37	**9/6/2018**	8.2	4321	52.10	6.90	22.4	5.59	20.03	0.41	4.92	46.94
GWA-38	**9/6/2018**	3.2	1920	54.45	0.46	24.7	5.69	35.70	0.48	8.22	42.80
GWA-39RZ	**9/13/2018**	24.8	15121	68.71	57.3	17.3	7.32	281.09	0.23	1.51	33.42
GWA-39Z	**9/12/2018**	4.5	1920	69.34	0.36	20.4	6.86	235.78	4.78	6.23	69.97
GWA-40	**9/12/2018**	3.0	1440	70.30	0.36	19.1	7.12	171.93	0.64	8.01	59.65
GWA-41	**9/12/2018**	9.6	4811	80.45	0	21.2	6.54	131.20	2.48	6.73	87.79
GWA-41R	**9/12/2018**	2.4	1200	81.11	0.11	20.8	7.02	269.99	3.87	0.24	14.78
GWA-42	**9/14/2018**	2.8	1680	77.39	0.01	21.4	7.37	258.52	0.32	3.90	47.01
GWA-43	**9/12/2018**	5.4	2400	55.27	0.20	18.8	5.65	31.59	2.96	7.38	88.95
GWA-43R	**9/12/2018**	15.0	6721	55.62	0.15	19.1	7.75	255.65	2.84	5.97	93.51
GWC-44	**9/12/2018**	3.0	1200	56.19	0.14	20.1	4.49	67.80	0.21	4.87	177.88
GWC-45	**9/13/2018**	3.1	1440	44.69	2.95	20.5	5.26	22.20	2.05	5.94	69.97
GWC-45R	**9/13/2018**	3.1	1441	53.13	0.12	20.6	7.31	329.20	0.27	4.06	76.00
GWC-46R	**9/13/2018**	2.6	1200	41.45	0.40	21.8	7.52	455.67	1.60	6.49	85.40
GWC-47	**9/13/2018**	3.2	1200	42.25	0.02	20.0	7.49	242.01	0.60	2.31	62.86
GWC-47R	**9/13/2018**	5.5	3122	42.36	4.78	22.0	7.68	303.30	0.73	3.09	74.47
GWC-48	**9/13/2018**	4.2	1920	39.08	0.13	21.1	5.02	34.33	0.72	3.35	88.29
GWC-49R	**9/13/2018**	3.0	1440	57.70	0	20.1	8.02	236.19	0.36	6.06	55.71
GWC-49Z	**9/14/2018**	4.2	1680	56.87	0.98	20.0	5.38	28.23	3.09	6.97	74.18
GWA-50	**9/17/2018**	16.5	8883	65.92	13.0	18.7	5.82	26.17	0.45	5.56	77.02
GWA-50R	**9/18/2018**	5.0	2160	77.35	0.05	18.3	5.35	17.22	0.20	8.92	65.85
GWA-51RZ	**9/6/2018**	22.0	11042	57.76	32.24	21.3	7.36	393.14	0.32	2.25	-14.97
GWA-52	**9/6/2018**	4.2	1920	58.40	0	22.9	7.50	253.97	0.26	6.94	50.60
GWA-53	**9/11/2018**	10	3600	59.63	0.02	18.8	7.64	255.07	4.34	6.87	46.51
GWA-53R	**9/11/2018**	5.8	2160	60.25	0.03	19.4	7.76	251.17	3.85	6.49	35.93
GWA-54	**9/6/2018**	2.6	1441	52.52	0.02	21.6	7.66	211.41	0.16	2.41	22.74
GWA-55	**9/7/2018**	2.2	1200	44.98	0.02	23.6	7.45	408.90	0.08	2.25	45.07
GWA-55R	**9/7/2018**	10.4	4800	44.81	0.03	23.3	7.60	363.89	0.71	1.74	36.54
GWA-56	**9/7/2018**	2.9	1440	40.40	0.40	21.4	8.14	618.58	0.96	0.97	84.05

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

September 21, 2018

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

RE: Project: Plant Bowen cells
Pace Project No.: 269332

Dear Joju Abraham:
Enclosed are the analytical results for sample(s) received by the laboratory on September 14, 2018. 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: Maria Padilla, Georgia Power
Rebecca Thornton, Pace Analytical Atlanta
Greg Wrenn, Wood PLC

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

CERTIFICATIONS

Project: Plant Bowen cells
Pace Project No.: 269332

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
Texas Certification #: T104704397-08-TX
Virginia Certification #: 460204

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE SUMMARY

Project: Plant Bowen cells
Pace Project No.: 269332

Lab ID	Sample ID	Matrix	Date Collected	Date Received
269332001	**GWA-2**	Water	09/14/18 12:28	09/14/18 17:00
269332002	**GWA-2R**	Water	09/14/18 10:53	09/14/18 17:00
269332003	**FBL091418**	Water	09/14/18 12:10	09/14/18 17:00
269332004	**EQBL091418**	Water	09/14/18 12:15	09/14/18 17:00

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE ANALYTE COUNT

Project: Plant Bowen cells
Pace Project No.: 269332

Lab ID	Sample ID	Method	Analysts	Analytes Reported
269332001	**GWA-2**	EPA 6020B	KLH	17
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
269332002	**GWA-2R**	EPA 6020B	KLH	17
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
269332003	**FBL091418**	EPA 6020B	KLH	17
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
269332004	**EQBL091418**	EPA 6020B	KLH	17
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells
Pace Project No.: 269332

Sample: GWA-2 **Lab ID: 269332001** Collected: 09/14/18 12:28 Received: 09/14/18 17:00 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	09/17/18 15:42	09/18/18 15:11	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	09/17/18 15:42	09/18/18 15:11	7440-38-2	
Barium	**0.0059J**	mg/L	0.010	0.00078	1	09/17/18 15:42	09/18/18 15:11	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	09/17/18 15:42	09/18/18 15:11	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	09/17/18 15:42	09/18/18 15:11	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	09/17/18 15:42	09/18/18 15:11	7440-43-9	
Calcium	**2.4**	mg/L	0.50	0.014	1	09/17/18 15:42	09/18/18 15:11	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	09/17/18 15:42	09/18/18 15:11	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	09/17/18 15:42	09/18/18 15:11	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	09/17/18 15:42	09/18/18 15:11	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	09/17/18 15:42	09/18/18 15:11	7439-92-1	
Nickel	ND	mg/L	0.010	0.00095	1	09/17/18 15:42	09/18/18 15:11	7440-02-0	
Selenium	ND	mg/L	0.010	0.0014	1	09/17/18 15:42	09/18/18 15:11	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	09/17/18 15:42	09/18/18 15:11	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	09/17/18 15:42	09/18/18 15:11	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	09/17/18 15:42	09/18/18 15:11	7440-62-2	
Zinc	**0.0025J**	mg/L	0.010	0.0021	1	09/17/18 15:42	09/18/18 15:11	7440-66-6	B
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	09/17/18 15:24	09/18/18 10:46	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**30.0**	mg/L	25.0	10.0	1		09/18/18 16:57		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**0.98**	mg/L	0.25	0.024	1		09/18/18 15:49	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		09/18/18 15:49	16984-48-8	
Sulfate	**7.7**	mg/L	1.0	0.017	1		09/18/18 15:49	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells
Pace Project No.: 269332

Sample: GWA-2R **Lab ID: 269332002** Collected: 09/14/18 10:53 Received: 09/14/18 17:00 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	**0.0054**	mg/L	0.0030	0.00078	1	09/17/18 15:42	09/18/18 15:23	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	09/17/18 15:42	09/18/18 15:23	7440-38-2	
Barium	**0.0095J**	mg/L	0.010	0.00078	1	09/17/18 15:42	09/18/18 15:23	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	09/17/18 15:42	09/18/18 15:23	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	09/17/18 15:42	09/18/18 15:23	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	09/17/18 15:42	09/18/18 15:23	7440-43-9	
Calcium	**22.8J**	mg/L	25.0	0.69	50	09/17/18 15:42	09/18/18 15:28	7440-70-2	D3
Chromium	ND	mg/L	0.010	0.0016	1	09/17/18 15:42	09/18/18 15:23	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	09/17/18 15:42	09/18/18 15:23	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	09/17/18 15:42	09/18/18 15:23	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	09/17/18 15:42	09/18/18 15:23	7439-92-1	
Nickel	ND	mg/L	0.010	0.00095	1	09/17/18 15:42	09/18/18 15:23	7440-02-0	
Selenium	ND	mg/L	0.010	0.0014	1	09/17/18 15:42	09/18/18 15:23	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	09/17/18 15:42	09/18/18 15:23	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	09/17/18 15:42	09/18/18 15:23	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	09/17/18 15:42	09/18/18 15:23	7440-62-2	
Zinc	**0.0028J**	mg/L	0.010	0.0021	1	09/17/18 15:42	09/18/18 15:23	7440-66-6	B
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	09/17/18 15:24	09/18/18 10:49	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**103**	mg/L	25.0	10.0	1		09/18/18 16:57		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**0.92**	mg/L	0.25	0.024	1		09/18/18 16:53	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		09/18/18 16:53	16984-48-8	
Sulfate	**2.1**	mg/L	1.0	0.017	1		09/18/18 16:53	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
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ANALYTICAL RESULTS

Project: Plant Bowen cells
Pace Project No.: 269332

Sample: FBL091418 **Lab ID: 269332003** Collected: 09/14/18 12:10 Received: 09/14/18 17:00 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	09/17/18 15:42	09/18/18 16:00	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	09/17/18 15:42	09/18/18 16:00	7440-38-2	
Barium	ND	mg/L	0.010	0.00078	1	09/17/18 15:42	09/18/18 16:00	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	09/17/18 15:42	09/18/18 16:00	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	09/17/18 15:42	09/18/18 16:00	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	09/17/18 15:42	09/18/18 16:00	7440-43-9	
Calcium	ND	mg/L	0.50	0.014	1	09/17/18 15:42	09/18/18 16:00	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	09/17/18 15:42	09/18/18 16:00	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	09/17/18 15:42	09/18/18 16:00	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	09/17/18 15:42	09/18/18 16:00	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	09/17/18 15:42	09/18/18 16:00	7439-92-1	
Nickel	ND	mg/L	0.010	0.00095	1	09/17/18 15:42	09/18/18 16:00	7440-02-0	
Selenium	ND	mg/L	0.010	0.0014	1	09/17/18 15:42	09/18/18 16:00	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	09/17/18 15:42	09/18/18 16:00	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	09/17/18 15:42	09/18/18 16:00	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	09/17/18 15:42	09/18/18 16:00	7440-62-2	
Zinc	ND	mg/L	0.010	0.0021	1	09/17/18 15:42	09/18/18 16:00	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	09/17/18 15:24	09/18/18 10:51	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	ND	mg/L	25.0	10.0	1		09/18/18 16:57		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**0.064J**	mg/L	0.25	0.024	1		09/18/18 17:14	16887-00-6	B
Fluoride	ND	mg/L	0.30	0.029	1		09/18/18 17:14	16984-48-8	
Sulfate	ND	mg/L	1.0	0.017	1		09/18/18 17:14	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells
Pace Project No.: 269332

Sample: EQBL091418 **Lab ID: 269332004** Collected: 09/14/18 12:15 Received: 09/14/18 17:00 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	09/17/18 15:42	09/18/18 16:05	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	09/17/18 15:42	09/18/18 16:05	7440-38-2	
Barium	ND	mg/L	0.010	0.00078	1	09/17/18 15:42	09/18/18 16:05	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	09/17/18 15:42	09/18/18 16:05	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	09/17/18 15:42	09/18/18 16:05	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	09/17/18 15:42	09/18/18 16:05	7440-43-9	
Calcium	ND	mg/L	0.50	0.014	1	09/17/18 15:42	09/18/18 16:05	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	09/17/18 15:42	09/18/18 16:05	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	09/17/18 15:42	09/18/18 16:05	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	09/17/18 15:42	09/18/18 16:05	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	09/17/18 15:42	09/18/18 16:05	7439-92-1	
Nickel	ND	mg/L	0.010	0.00095	1	09/17/18 15:42	09/18/18 16:05	7440-02-0	
Selenium	ND	mg/L	0.010	0.0014	1	09/17/18 15:42	09/18/18 16:05	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	09/17/18 15:42	09/18/18 16:05	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	09/17/18 15:42	09/18/18 16:05	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	09/17/18 15:42	09/18/18 16:05	7440-62-2	
Zinc	**0.0024J**	mg/L	0.010	0.0021	1	09/17/18 15:42	09/18/18 16:05	7440-66-6	B
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	09/17/18 15:24	09/18/18 10:53	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	ND	mg/L	25.0	10.0	1		09/18/18 16:57		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**0.061J**	mg/L	0.25	0.024	1		09/18/18 17:35	16887-00-6	B
Fluoride	ND	mg/L	0.30	0.029	1		09/18/18 17:35	16984-48-8	
Sulfate	ND	mg/L	1.0	0.017	1		09/18/18 17:35	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells
Pace Project No.: 269332

QC Batch: 13620 Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
Associated Lab Samples: 269332001, 269332002, 269332003, 269332004

METHOD BLANK: 60706 Matrix: Water
Associated Lab Samples: 269332001, 269332002, 269332003, 269332004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00050	0.000036	09/18/18 10:23	

LABORATORY CONTROL SAMPLE: 60707

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	.0025	0.0025	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 60708 60709

Parameter	Units	269331003 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	.0025	.0025	0.0027	0.0026	107	103	75-125	4	20	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells
Pace Project No.: 269332

QC Batch: 13608 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020B MET
Associated Lab Samples: 269332001, 269332002, 269332003, 269332004

METHOD BLANK: 60649 Matrix: Water
Associated Lab Samples: 269332001, 269332002, 269332003, 269332004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	09/18/18 13:06	
Arsenic	mg/L	ND	0.0050	0.00057	09/18/18 13:06	
Barium	mg/L	ND	0.010	0.00078	09/18/18 13:06	
Beryllium	mg/L	ND	0.0030	0.000050	09/18/18 13:06	
Boron	mg/L	ND	0.040	0.0039	09/18/18 13:06	
Cadmium	mg/L	ND	0.0010	0.000093	09/18/18 13:06	
Calcium	mg/L	ND	0.50	0.014	09/18/18 13:06	
Chromium	mg/L	ND	0.010	0.0016	09/18/18 13:06	
Cobalt	mg/L	ND	0.010	0.00052	09/18/18 13:06	
Copper	mg/L	ND	0.025	0.0013	09/18/18 13:06	
Lead	mg/L	ND	0.0050	0.00027	09/18/18 13:06	
Nickel	mg/L	ND	0.010	0.00095	09/18/18 13:06	
Selenium	mg/L	ND	0.010	0.0014	09/18/18 13:06	
Silver	mg/L	ND	0.010	0.00095	09/18/18 13:06	
Thallium	mg/L	ND	0.0010	0.00014	09/18/18 13:06	
Vanadium	mg/L	ND	0.010	0.0019	09/18/18 13:06	
Zinc	mg/L	0.0040J	0.010	0.0021	09/18/18 13:06	

LABORATORY CONTROL SAMPLE: 60650

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	.1	0.10	101	80-120	
Arsenic	mg/L	.1	0.097	97	80-120	
Barium	mg/L	.1	0.10	101	80-120	
Beryllium	mg/L	.1	0.10	100	80-120	
Boron	mg/L	1	0.96	96	80-120	
Cadmium	mg/L	.1	0.10	102	80-120	
Calcium	mg/L	1	1.0	100	80-120	
Chromium	mg/L	.1	0.10	101	80-120	
Cobalt	mg/L	.1	0.10	102	80-120	
Copper	mg/L	.1	0.099	99	80-120	
Lead	mg/L	.1	0.10	101	80-120	
Nickel	mg/L	.1	0.10	100	80-120	
Selenium	mg/L	.1	0.096	96	80-120	
Silver	mg/L	.1	0.10	102	80-120	
Thallium	mg/L	.1	0.10	100	80-120	
Vanadium	mg/L	.1	0.10	101	80-120	
Zinc	mg/L	.1	0.11	108	80-120	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells
Pace Project No.: 269332

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 60651 60652

Parameter	Units	269331001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	0.0056	.1	.1	0.11	0.11	101	107	75-125	5	20	
Arsenic	mg/L	ND	.1	.1	0.099	0.10	99	102	75-125	3	20	
Barium	mg/L	0.015	.1	.1	0.13	0.13	112	117	75-125	4	20	
Beryllium	mg/L	ND	.1	.1	0.10	0.10	102	103	75-125	1	20	
Boron	mg/L	0.0059J	1	1	0.99	1.0	98	100	75-125	2	20	
Cadmium	mg/L	ND	.1	.1	0.10	0.10	101	102	75-125	2	20	
Calcium	mg/L	29.2	1	1	31.6	31.5	238	231	75-125	0	20	M6
Chromium	mg/L	ND	.1	.1	0.10	0.10	101	101	75-125	0	20	
Cobalt	mg/L	ND	.1	.1	0.098	0.10	98	101	75-125	4	20	
Copper	mg/L	0.0020J	.1	.1	0.099	0.10	97	98	75-125	0	20	
Lead	mg/L	ND	.1	.1	0.099	0.10	99	101	75-125	3	20	
Nickel	mg/L	ND	.1	.1	0.099	0.10	99	101	75-125	2	20	
Selenium	mg/L	ND	.1	.1	0.097	0.10	97	101	75-125	4	20	
Silver	mg/L	ND	.1	.1	0.10	0.10	101	103	75-125	1	20	
Thallium	mg/L	ND	.1	.1	0.098	0.10	98	103	75-125	4	20	
Vanadium	mg/L	ND	.1	.1	0.10	0.10	102	101	75-125	0	20	
Zinc	mg/L	0.0038J	.1	.1	0.11	0.11	102	104	75-125	2	20	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells
Pace Project No.: 269332

QC Batch: 13708 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 269332001, 269332002, 269332003, 269332004

LABORATORY CONTROL SAMPLE: 61096

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	406	102	84-108	

SAMPLE DUPLICATE: 61097

Parameter	Units	269331005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	ND	ND		10	

SAMPLE DUPLICATE: 61098

Parameter	Units	269329001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	403	426	6	10	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells
Pace Project No.: 269332

QC Batch: 13655 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 269332001, 269332002, 269332003, 269332004

METHOD BLANK: 60838 Matrix: Water
Associated Lab Samples: 269332001, 269332002, 269332003, 269332004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	0.091J	0.25	0.024	09/18/18 15:07	
Fluoride	mg/L	ND	0.30	0.029	09/18/18 15:07	
Sulfate	mg/L	ND	1.0	0.017	09/18/18 15:07	

LABORATORY CONTROL SAMPLE: 60839

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	10	10.3	103	90-110	
Fluoride	mg/L	10	10.0	100	90-110	
Sulfate	mg/L	10	10.1	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 60840 60841

Parameter	Units	269332001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	0.98	10	10	11.2	11.2	102	103	90-110	0	15	
Fluoride	mg/L	ND	10	10	10.3	10.3	103	103	90-110	0	15	
Sulfate	mg/L	7.7	10	10	17.2	17.1	95	95	90-110	0	15	

MATRIX SPIKE SAMPLE: 60842

Parameter	Units	269332002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	0.92	10	11.0	101	90-110	
Fluoride	mg/L	ND	10	10.2	102	90-110	
Sulfate	mg/L	2.1	10	12.5	104	90-110	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALIFIERS

Project: Plant Bowen cells
Pace Project No.: 269332

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

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Bowen cells
Pace Project No.: 269332

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
269332001	**GWA-2**	EPA 3005A	13608	EPA 6020B	13685
269332002	**GWA-2R**	EPA 3005A	13608	EPA 6020B	13685
269332003	**FBL091418**	EPA 3005A	13608	EPA 6020B	13685
269332004	**EQBL091418**	EPA 3005A	13608	EPA 6020B	13685
269332001	**GWA-2**	EPA 7470A	13620	EPA 7470A	13670
269332002	**GWA-2R**	EPA 7470A	13620	EPA 7470A	13670
269332003	**FBL091418**	EPA 7470A	13620	EPA 7470A	13670
269332004	**EQBL091418**	EPA 7470A	13620	EPA 7470A	13670
269332001	**GWA-2**	SM 2540C	13708		
269332002	**GWA-2R**	SM 2540C	13708		
269332003	**FBL091418**	SM 2540C	13708		
269332004	**EQBL091418**	SM 2540C	13708		
269332001	**GWA-2**	EPA 300.0	13655		
269332002	**GWA-2R**	EPA 300.0	13655		
269332003	**FBL091418**	EPA 300.0	13655		
269332004	**EQBL091418**	EPA 300.0	13655		

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Georgia Power - Coal Combustion Residuals	Report To:	Joju Abraham	Attention:	scsinvoices@southernco.com
Address:	2480 Maner Road	Copy To:	Wood Environmental	Company Name:	
	Atlanta, GA 30339			Address:	
Email:	jabraham@southernco.com	Purchase Order #:	SCS10348606	Pace Quote:	
Phone:	(404)506-7239 Fax	Project Name:	Plant Bowen Cells - State List	Pace Project Manager:	betsy.mcdaniel@pacelabs.com,
Requested Due Date:		Project #:	Cells 1&2	Pace Profile #:	317.5

Regulatory Agency

State / Location: GA

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	TDS, Cl, F, SO4	Metals 6020 *	CCR Appendix IV	Residual Chlorine (Y/N)
1	GWA-2	WT	G	9/14/18	1228				2	1		1						Y	X	X	X	
2	GWA-2R	WT	G	9/14/18	1053				2	1		1						Y	X	X	X	
3	FBL091418	WT	G	9/14/18	1210				2	1		1						Y	X	X	X	
4	EQBL091418	WT	G	9/14/18	1215				2	1		1						Y	X	X	X	
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

WO# : 269332

269332

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
* Metals State List: Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Pb, Mg, Ni, K, Se, Ag, Na, Tl, V, Zn	Kevin Stockington	9/14/18	1542	M Rahman	09/14/18	1700	
							0.8 Y Y Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kevin Stockington, Veronica Fay, Andrew Cumpton

SIGNATURE of SAMPLER: DATE Signed: 9

TEMP in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

Sample Condition Upon Receipt

Pace Analytical

Client Name: GA Power

Project #

WO#:269332

PM: BM Due Date: 09/21/18

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 83 **Type of Ice:** (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 0.8 **Biological Tissue is Frozen:** Yes No

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 9/14/18 MR

				Comments:
Chain of Custody Present:	☑Yes	☐No	☐N/A	1.
Chain of Custody Filled Out:	☑Yes	☐No	☐N/A	2.
Chain of Custody Relinquished:	☑Yes	☐No	☐N/A	3.
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☑Yes	☐No	☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes	☑No	☐N/A	6.
Rush Turn Around Time Requested:	☐Yes	☑No	☐N/A	7.
Sufficient Volume:	☑Yes	☐No	☐N/A	8.
Correct Containers Used:	☑Yes	☐No	☐N/A	9.
-Pace Containers Used:	☑Yes	☐No	☐N/A	
Containers Intact:	☑Yes	☐No	☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☑N/A	11.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix: W	☑Yes	☐No	☐N/A	12.
All containers needing preservation have been checked.	☑Yes	☐No	☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes	☐No	☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes	☑No		Initial when completed / Lot # of added preservative
Samples checked for dechlorination:	☐Yes	☐No	☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☑N/A	15.
Trip Blank Present:	☐Yes	☐No	☑N/A	16.
Trip Blank Custody Seals Present	☐Yes	☐No	☑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)

F-ALL-C-003rev.3, 11September2006

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

September 25, 2018

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

RE: Project: Plant Bowen cells 1+2
Pace Project No.: 269420

Dear Joju Abraham:
Enclosed are the analytical results for sample(s) received by the laboratory on September 18, 2018. 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: Maria Padilla, Georgia Power
Rebecca Thornton, Pace Analytical Atlanta
Greg Wrenn, Wood PLC

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

CERTIFICATIONS

Project: Plant Bowen cells 1+2
Pace Project No.: 269420

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
Texas Certification #: T104704397-08-TX
Virginia Certification #: 460204

Asheville Certification IDs

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE SUMMARY

Project: Plant Bowen cells 1+2
Pace Project No.: 269420

Lab ID	Sample ID	Matrix	Date Collected	Date Received
269420001	**GWA-1**	Water	09/17/18 12:18	09/18/18 14:40
269420002	**GWA-3**	Water	09/17/18 16:00	09/18/18 14:40
269420003	**GWC-5**	Water	09/17/18 11:55	09/18/18 14:40
269420004	**GWC-6**	Water	09/17/18 15:02	09/18/18 14:40
269420005	**GWC-6RZ**	Water	09/17/18 13:20	09/18/18 14:40
269420006	**GWA-50**	Water	09/17/18 16:03	09/18/18 14:40
269420007	**FBL091718**	Water	09/17/18 15:43	09/18/18 14:40
269420008	**EQBL091718**	Water	09/17/18 15:45	09/18/18 14:40
269420009	**Dup-1**	Water	09/17/18 00:00	09/18/18 14:40

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE ANALYTE COUNT

Project: Plant Bowen cells 1+2
Pace Project No.: 269420

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
269420001	**GWA-1**	EPA 6020B	CSW	17	PASI-GA
		EPA 7470A	JMW1	1	PASI-A
		SM 2540C	JPT	1	PASI-GA
		EPA 300.0	RLC	3	PASI-GA
269420002	**GWA-3**	EPA 6020B	CSW	17	PASI-GA
		EPA 7470A	JMW1	1	PASI-A
		SM 2540C	JPT	1	PASI-GA
		EPA 300.0	RLC	3	PASI-GA
269420003	**GWC-5**	EPA 6020B	CSW	17	PASI-GA
		EPA 7470A	JMW1	1	PASI-A
		SM 2540C	JPT	1	PASI-GA
		EPA 300.0	RLC	3	PASI-GA
269420004	**GWC-6**	EPA 6020B	CSW	17	PASI-GA
		EPA 7470A	JMW1	1	PASI-A
		SM 2540C	JPT	1	PASI-GA
		EPA 300.0	RLC	3	PASI-GA
269420005	**GWC-6RZ**	EPA 6020B	CSW	17	PASI-GA
		EPA 7470A	JMW1	1	PASI-A
		SM 2540C	JPT	1	PASI-GA
		EPA 300.0	RLC	3	PASI-GA
269420006	**GWA-50**	EPA 6020B	CSW	17	PASI-GA
		EPA 7470A	JMW1	1	PASI-A
		SM 2540C	JPT	1	PASI-GA
		EPA 300.0	RLC	3	PASI-GA
269420007	**FBL091718**	EPA 6020B	CSW	17	PASI-GA
		EPA 7470A	JMW1	1	PASI-A
		SM 2540C	JPT	1	PASI-GA
		EPA 300.0	RLC	3	PASI-GA
269420008	**EQBL091718**	EPA 6020B	CSW	17	PASI-GA
		EPA 7470A	JMW1	1	PASI-A
		SM 2540C	JPT	1	PASI-GA
		EPA 300.0	RLC	3	PASI-GA
269420009	**Dup-1**	EPA 6020B	CSW	17	PASI-GA
		EPA 7470A	JMW1	1	PASI-A
		SM 2540C	JPT	1	PASI-GA
		EPA 300.0	RLC	3	PASI-GA

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells 1+2
Pace Project No.: 269420

Sample: GWA-1 **Lab ID: 269420001** Collected: 09/17/18 12:18 Received: 09/18/18 14:40 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	**0.0010J**	mg/L	0.0030	0.00078	1	09/20/18 10:10	09/21/18 18:16	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	09/20/18 10:10	09/21/18 18:16	7440-38-2	
Barium	**0.015**	mg/L	0.010	0.00078	1	09/20/18 10:10	09/21/18 18:16	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	09/20/18 10:10	09/21/18 18:16	7440-41-7	
Boron	**0.0084J**	mg/L	0.040	0.0039	1	09/20/18 10:10	09/21/18 18:16	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	09/20/18 10:10	09/21/18 18:16	7440-43-9	
Calcium	**30.8**	mg/L	25.0	0.69	50	09/20/18 10:10	09/21/18 18:22	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	09/20/18 10:10	09/21/18 18:16	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	09/20/18 10:10	09/21/18 18:16	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	09/20/18 10:10	09/21/18 18:16	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	09/20/18 10:10	09/21/18 18:16	7439-92-1	
Nickel	ND	mg/L	0.010	0.00095	1	09/20/18 10:10	09/21/18 18:16	7440-02-0	
Selenium	ND	mg/L	0.010	0.0014	1	09/20/18 10:10	09/21/18 18:16	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	09/20/18 10:10	09/21/18 18:16	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	09/20/18 10:10	09/21/18 18:16	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	09/20/18 10:10	09/21/18 18:16	7440-62-2	
Zinc	**0.0050J**	mg/L	0.010	0.0021	1	09/20/18 10:10	09/21/18 18:16	7440-66-6	B
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.00010	1	09/24/18 16:55	09/25/18 10:57	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**162**	mg/L	25.0	10.0	1		09/21/18 09:55		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**1.6**	mg/L	0.25	0.024	1		09/21/18 13:28	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		09/21/18 13:28	16984-48-8	
Sulfate	**1.3**	mg/L	1.0	0.017	1		09/21/18 13:28	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Bowen cells 1+2
Pace Project No.: 269420

Sample: GWA-3 **Lab ID: 269420002** Collected: 09/17/18 16:00 Received: 09/18/18 14:40 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	**0.0011J**	mg/L	0.0030	0.00078	1	09/20/18 10:10	09/21/18 18:27	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	09/20/18 10:10	09/21/18 18:27	7440-38-2	
Barium	**0.0041J**	mg/L	0.010	0.00078	1	09/20/18 10:10	09/21/18 18:27	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	09/20/18 10:10	09/21/18 18:27	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	09/20/18 10:10	09/21/18 18:27	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	09/20/18 10:10	09/21/18 18:27	7440-43-9	
Calcium	**0.95**	mg/L	0.50	0.014	1	09/20/18 10:10	09/21/18 18:27	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	09/20/18 10:10	09/21/18 18:27	7440-47-3	
Cobalt	**0.00057J**	mg/L	0.010	0.00052	1	09/20/18 10:10	09/21/18 18:27	7440-48-4	
Copper	**0.033**	mg/L	0.025	0.0013	1	09/20/18 10:10	09/21/18 18:27	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	09/20/18 10:10	09/21/18 18:27	7439-92-1	
Nickel	**0.014**	mg/L	0.010	0.00095	1	09/20/18 10:10	09/21/18 18:27	7440-02-0	
Selenium	ND	mg/L	0.010	0.0014	1	09/20/18 10:10	09/21/18 18:27	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	09/20/18 10:10	09/21/18 18:27	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	09/20/18 10:10	09/21/18 18:27	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	09/20/18 10:10	09/21/18 18:27	7440-62-2	
Zinc	**0.040**	mg/L	0.010	0.0021	1	09/20/18 10:10	09/21/18 18:27	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.00010	1	09/24/18 16:55	09/25/18 11:04	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**32.0**	mg/L	25.0	10.0	1		09/21/18 09:55		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**1.5**	mg/L	0.25	0.024	1		09/21/18 18:17	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		09/21/18 18:17	16984-48-8	
Sulfate	**0.36J**	mg/L	1.0	0.017	1		09/21/18 18:17	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells 1+2
Pace Project No.: 269420

Sample: GWC-5 **Lab ID: 269420003** Collected: 09/17/18 11:55 Received: 09/18/18 14:40 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	09/20/18 10:10	09/21/18 18:39	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	09/20/18 10:10	09/21/18 18:39	7440-38-2	
Barium	**0.014**	mg/L	0.010	0.00078	1	09/20/18 10:10	09/21/18 18:39	7440-39-3	
Beryllium	**0.00053J**	mg/L	0.0030	0.000050	1	09/20/18 10:10	09/21/18 18:39	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	09/20/18 10:10	09/21/18 18:39	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	09/20/18 10:10	09/21/18 18:39	7440-43-9	
Calcium	**2.0**	mg/L	0.50	0.014	1	09/20/18 10:10	09/21/18 18:39	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	09/20/18 10:10	09/21/18 18:39	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	09/20/18 10:10	09/21/18 18:39	7440-48-4	
Copper	**0.018J**	mg/L	0.025	0.0013	1	09/20/18 10:10	09/21/18 18:39	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	09/20/18 10:10	09/21/18 18:39	7439-92-1	
Nickel	**0.0085J**	mg/L	0.010	0.00095	1	09/20/18 10:10	09/21/18 18:39	7440-02-0	
Selenium	ND	mg/L	0.010	0.0014	1	09/20/18 10:10	09/21/18 18:39	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	09/20/18 10:10	09/21/18 18:39	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	09/20/18 10:10	09/21/18 18:39	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	09/20/18 10:10	09/21/18 18:39	7440-62-2	
Zinc	**0.030**	mg/L	0.010	0.0021	1	09/20/18 10:10	09/21/18 18:39	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.00010	1	09/24/18 16:55	09/25/18 11:06	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**38.0**	mg/L	25.0	10.0	1		09/21/18 09:55		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**0.90**	mg/L	0.25	0.024	1		09/21/18 18:38	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		09/21/18 18:38	16984-48-8	
Sulfate	**1.3**	mg/L	1.0	0.017	1		09/21/18 18:38	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells 1+2
Pace Project No.: 269420

Sample: GWC-6 **Lab ID: 269420004** Collected: 09/17/18 15:02 Received: 09/18/18 14:40 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	09/20/18 10:10	09/21/18 18:50	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	09/20/18 10:10	09/21/18 18:50	7440-38-2	
Barium	**0.0065J**	mg/L	0.010	0.00078	1	09/20/18 10:10	09/21/18 18:50	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	09/20/18 10:10	09/21/18 18:50	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	09/20/18 10:10	09/21/18 18:50	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	09/20/18 10:10	09/21/18 18:50	7440-43-9	
Calcium	**12.4J**	mg/L	25.0	0.69	50	09/20/18 10:10	09/21/18 18:56	7440-70-2	D3,M6
Chromium	**0.0024J**	mg/L	0.010	0.0016	1	09/20/18 10:10	09/21/18 18:50	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	09/20/18 10:10	09/21/18 18:50	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	09/20/18 10:10	09/21/18 18:50	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	09/20/18 10:10	09/21/18 18:50	7439-92-1	
Nickel	ND	mg/L	0.010	0.00095	1	09/20/18 10:10	09/21/18 18:50	7440-02-0	
Selenium	ND	mg/L	0.010	0.0014	1	09/20/18 10:10	09/21/18 18:50	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	09/20/18 10:10	09/21/18 18:50	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	09/20/18 10:10	09/21/18 18:50	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	09/20/18 10:10	09/21/18 18:50	7440-62-2	
Zinc	**0.0024J**	mg/L	0.010	0.0021	1	09/20/18 10:10	09/21/18 18:50	7440-66-6	B
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.00010	1	09/24/18 16:55	09/25/18 11:08	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**77.0**	mg/L	25.0	10.0	1		09/21/18 09:56		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**1.1**	mg/L	0.25	0.024	1		09/21/18 18:59	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		09/21/18 18:59	16984-48-8	
Sulfate	**2.2**	mg/L	1.0	0.017	1		09/21/18 18:59	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells 1+2
Pace Project No.: 269420

Sample: GWC-6RZ **Lab ID: 269420005** Collected: 09/17/18 13:20 Received: 09/18/18 14:40 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	**0.0023J**	mg/L	0.0030	0.00078	1	09/20/18 10:10	09/21/18 19:42	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	09/20/18 10:10	09/21/18 19:42	7440-38-2	
Barium	**0.0082J**	mg/L	0.010	0.00078	1	09/20/18 10:10	09/21/18 19:42	7440-39-3	
Beryllium	**0.000058J**	mg/L	0.0030	0.000050	1	09/20/18 10:10	09/21/18 19:42	7440-41-7	
Boron	**0.0046J**	mg/L	0.040	0.0039	1	09/20/18 10:10	09/21/18 19:42	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	09/20/18 10:10	09/21/18 19:42	7440-43-9	
Calcium	**11.0J**	mg/L	25.0	0.69	50	09/20/18 10:10	09/21/18 19:48	7440-70-2	D3
Chromium	**0.0020J**	mg/L	0.010	0.0016	1	09/20/18 10:10	09/21/18 19:42	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	09/20/18 10:10	09/21/18 19:42	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	09/20/18 10:10	09/21/18 19:42	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	09/20/18 10:10	09/21/18 19:42	7439-92-1	
Nickel	ND	mg/L	0.010	0.00095	1	09/20/18 10:10	09/21/18 19:42	7440-02-0	
Selenium	ND	mg/L	0.010	0.0014	1	09/20/18 10:10	09/21/18 19:42	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	09/20/18 10:10	09/21/18 19:42	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	09/20/18 10:10	09/21/18 19:42	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	09/20/18 10:10	09/21/18 19:42	7440-62-2	
Zinc	**0.0090J**	mg/L	0.010	0.0021	1	09/20/18 10:10	09/21/18 19:42	7440-66-6	B
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.00010	1	09/24/18 16:55	09/25/18 11:11	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**74.0**	mg/L	25.0	10.0	1		09/21/18 09:56		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**1.3**	mg/L	0.25	0.024	1		09/21/18 19:19	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		09/21/18 19:19	16984-48-8	
Sulfate	**2.5**	mg/L	1.0	0.017	1		09/21/18 19:19	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells 1+2
Pace Project No.: 269420

Sample: GWA-50 **Lab ID: 269420006** Collected: 09/17/18 16:03 Received: 09/18/18 14:40 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	09/20/18 10:10	09/21/18 19:53	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	09/20/18 10:10	09/21/18 19:53	7440-38-2	
Barium	**0.010**	mg/L	0.010	0.00078	1	09/20/18 10:10	09/21/18 19:53	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	09/20/18 10:10	09/21/18 19:53	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	09/20/18 10:10	09/21/18 19:53	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	09/20/18 10:10	09/21/18 19:53	7440-43-9	
Calcium	**2.3**	mg/L	0.50	0.014	1	09/20/18 10:10	09/21/18 19:53	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	09/20/18 10:10	09/21/18 19:53	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	09/20/18 10:10	09/21/18 19:53	7440-48-4	
Copper	**0.0028J**	mg/L	0.025	0.0013	1	09/20/18 10:10	09/21/18 19:53	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	09/20/18 10:10	09/21/18 19:53	7439-92-1	
Nickel	**0.00096J**	mg/L	0.010	0.00095	1	09/20/18 10:10	09/21/18 19:53	7440-02-0	
Selenium	ND	mg/L	0.010	0.0014	1	09/20/18 10:10	09/21/18 19:53	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	09/20/18 10:10	09/21/18 19:53	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	09/20/18 10:10	09/21/18 19:53	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	09/20/18 10:10	09/21/18 19:53	7440-62-2	
Zinc	**0.0033J**	mg/L	0.010	0.0021	1	09/20/18 10:10	09/21/18 19:53	7440-66-6	B
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.00010	1	09/24/18 16:55	09/25/18 11:18	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**38.0**	mg/L	25.0	10.0	1		09/21/18 09:56		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**1.1**	mg/L	0.25	0.024	1		09/21/18 19:40	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		09/21/18 19:40	16984-48-8	
Sulfate	**0.47J**	mg/L	1.0	0.017	1		09/21/18 19:40	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells 1+2
Pace Project No.: 269420

Sample: FBL091718 **Lab ID: 269420007** Collected: 09/17/18 15:43 Received: 09/18/18 14:40 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	09/20/18 10:10	09/21/18 20:05	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	09/20/18 10:10	09/21/18 20:05	7440-38-2	
Barium	ND	mg/L	0.010	0.00078	1	09/20/18 10:10	09/21/18 20:05	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	09/20/18 10:10	09/21/18 20:05	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	09/20/18 10:10	09/21/18 20:05	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	09/20/18 10:10	09/21/18 20:05	7440-43-9	
Calcium	ND	mg/L	0.50	0.014	1	09/20/18 10:10	09/21/18 20:05	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	09/20/18 10:10	09/21/18 20:05	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	09/20/18 10:10	09/21/18 20:05	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	09/20/18 10:10	09/21/18 20:05	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	09/20/18 10:10	09/21/18 20:05	7439-92-1	
Nickel	ND	mg/L	0.010	0.00095	1	09/20/18 10:10	09/21/18 20:05	7440-02-0	
Selenium	ND	mg/L	0.010	0.0014	1	09/20/18 10:10	09/21/18 20:05	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	09/20/18 10:10	09/21/18 20:05	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	09/20/18 10:10	09/21/18 20:05	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	09/20/18 10:10	09/21/18 20:05	7440-62-2	
Zinc	**0.0025J**	mg/L	0.010	0.0021	1	09/20/18 10:10	09/21/18 20:05	7440-66-6	B
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.00010	1	09/24/18 16:55	09/25/18 11:20	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	ND	mg/L	25.0	10.0	1		09/21/18 09:56		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**0.055J**	mg/L	0.25	0.024	1		09/21/18 20:01	16887-00-6	B
Fluoride	ND	mg/L	0.30	0.029	1		09/21/18 20:01	16984-48-8	
Sulfate	ND	mg/L	1.0	0.017	1		09/21/18 20:01	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells 1+2
Pace Project No.: 269420

Sample: EQBL091718 **Lab ID: 269420008** Collected: 09/17/18 15:45 Received: 09/18/18 14:40 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	09/20/18 10:10	09/21/18 20:22	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	09/20/18 10:10	09/21/18 20:22	7440-38-2	
Barium	ND	mg/L	0.010	0.00078	1	09/20/18 10:10	09/21/18 20:22	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	09/20/18 10:10	09/21/18 20:22	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	09/20/18 10:10	09/21/18 20:22	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	09/20/18 10:10	09/21/18 20:22	7440-43-9	
Calcium	ND	mg/L	0.50	0.014	1	09/20/18 10:10	09/21/18 20:22	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	09/20/18 10:10	09/21/18 20:22	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	09/20/18 10:10	09/21/18 20:22	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	09/20/18 10:10	09/21/18 20:22	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	09/20/18 10:10	09/21/18 20:22	7439-92-1	
Nickel	ND	mg/L	0.010	0.00095	1	09/20/18 10:10	09/21/18 20:22	7440-02-0	
Selenium	ND	mg/L	0.010	0.0014	1	09/20/18 10:10	09/21/18 20:22	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	09/20/18 10:10	09/21/18 20:22	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	09/20/18 10:10	09/21/18 20:22	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	09/20/18 10:10	09/21/18 20:22	7440-62-2	
Zinc	ND	mg/L	0.010	0.0021	1	09/20/18 10:10	09/21/18 20:22	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.00010	1	09/24/18 16:55	09/25/18 11:22	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**13.0J**	mg/L	25.0	10.0	1		09/21/18 09:56		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**0.080J**	mg/L	0.25	0.024	1		09/21/18 20:21	16887-00-6	B
Fluoride	ND	mg/L	0.30	0.029	1		09/21/18 20:21	16984-48-8	
Sulfate	ND	mg/L	1.0	0.017	1		09/21/18 20:21	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells 1+2
Pace Project No.: 269420

Sample: Dup-1 **Lab ID: 269420009** Collected: 09/17/18 00:00 Received: 09/18/18 14:40 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	**0.0011J**	mg/L	0.0030	0.00078	1	09/20/18 10:10	09/21/18 20:28	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	09/20/18 10:10	09/21/18 20:28	7440-38-2	
Barium	**0.015**	mg/L	0.010	0.00078	1	09/20/18 10:10	09/21/18 20:28	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	09/20/18 10:10	09/21/18 20:28	7440-41-7	
Boron	**0.0041J**	mg/L	0.040	0.0039	1	09/20/18 10:10	09/21/18 20:28	7440-42-8	
Cadmium	**0.00052J**	mg/L	0.0010	0.000093	1	09/20/18 10:10	09/21/18 20:28	7440-43-9	
Calcium	**31.1**	mg/L	25.0	0.69	50	09/20/18 10:10	09/21/18 20:33	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	09/20/18 10:10	09/21/18 20:28	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	09/20/18 10:10	09/21/18 20:28	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	09/20/18 10:10	09/21/18 20:28	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	09/20/18 10:10	09/21/18 20:28	7439-92-1	
Nickel	ND	mg/L	0.010	0.00095	1	09/20/18 10:10	09/21/18 20:28	7440-02-0	
Selenium	ND	mg/L	0.010	0.0014	1	09/20/18 10:10	09/21/18 20:28	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	09/20/18 10:10	09/21/18 20:28	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	09/20/18 10:10	09/21/18 20:28	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	09/20/18 10:10	09/21/18 20:28	7440-62-2	
Zinc	**0.0054J**	mg/L	0.010	0.0021	1	09/20/18 10:10	09/21/18 20:28	7440-66-6	B
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.00010	1	09/24/18 16:55	09/25/18 11:25	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**170**	mg/L	25.0	10.0	1		09/21/18 09:56		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**1.5**	mg/L	0.25	0.024	1		09/21/18 22:05	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		09/21/18 22:05	16984-48-8	
Sulfate	**1.3**	mg/L	1.0	0.017	1		09/21/18 22:05	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells 1+2
Pace Project No.: 269420

QC Batch: 432354 Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
Associated Lab Samples: 269420001, 269420002, 269420003, 269420004, 269420005, 269420006, 269420007, 269420008, 269420009

METHOD BLANK: 2383264 Matrix: Water
Associated Lab Samples: 269420001, 269420002, 269420003, 269420004, 269420005, 269420006, 269420007, 269420008, 269420009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00010	09/25/18 10:52	

LABORATORY CONTROL SAMPLE: 2383265

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	.0025	0.0023	92	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2383266 2383267

Parameter	Units	269420001 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	.0025	.0025	0.0024	0.0024	94	94	75-125	0	25	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells 1+2
Pace Project No.: 269420

QC Batch: 13843 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020B MET
Associated Lab Samples: 269420001, 269420002, 269420003, 269420004, 269420005, 269420006, 269420007, 269420008, 269420009

METHOD BLANK: 61677 Matrix: Water
Associated Lab Samples: 269420001, 269420002, 269420003, 269420004, 269420005, 269420006, 269420007, 269420008, 269420009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	09/21/18 18:04	
Arsenic	mg/L	ND	0.0050	0.00057	09/21/18 18:04	
Barium	mg/L	ND	0.010	0.00078	09/21/18 18:04	
Beryllium	mg/L	ND	0.0030	0.000050	09/21/18 18:04	
Boron	mg/L	ND	0.040	0.0039	09/21/18 18:04	
Cadmium	mg/L	ND	0.0010	0.000093	09/21/18 18:04	
Calcium	mg/L	ND	0.50	0.014	09/21/18 18:04	
Chromium	mg/L	ND	0.010	0.0016	09/21/18 18:04	
Cobalt	mg/L	ND	0.010	0.00052	09/21/18 18:04	
Copper	mg/L	ND	0.025	0.0013	09/21/18 18:04	
Lead	mg/L	ND	0.0050	0.00027	09/21/18 18:04	
Nickel	mg/L	ND	0.010	0.00095	09/21/18 18:04	
Selenium	mg/L	ND	0.010	0.0014	09/21/18 18:04	
Silver	mg/L	ND	0.010	0.00095	09/21/18 18:04	
Thallium	mg/L	ND	0.0010	0.00014	09/21/18 18:04	
Vanadium	mg/L	ND	0.010	0.0019	09/21/18 18:04	
Zinc	mg/L	0.0024J	0.010	0.0021	09/21/18 18:04	

LABORATORY CONTROL SAMPLE: 61678

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	.1	0.098	98	80-120	
Arsenic	mg/L	.1	0.098	98	80-120	
Barium	mg/L	.1	0.096	96	80-120	
Beryllium	mg/L	.1	0.097	97	80-120	
Boron	mg/L	1	0.99	99	80-120	
Cadmium	mg/L	.1	0.10	101	80-120	
Calcium	mg/L	1	0.98	98	80-120	
Chromium	mg/L	.1	0.10	102	80-120	
Cobalt	mg/L	.1	0.10	103	80-120	
Copper	mg/L	.1	0.10	102	80-120	
Lead	mg/L	.1	0.098	98	80-120	
Nickel	mg/L	.1	0.10	103	80-120	
Selenium	mg/L	.1	0.099	99	80-120	
Silver	mg/L	.1	0.095	95	80-120	
Thallium	mg/L	.1	0.099	99	80-120	
Vanadium	mg/L	.1	0.10	102	80-120	
Zinc	mg/L	.1	0.10	102	80-120	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: Plant Bowen cells 1+2
Pace Project No.: 269420

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 61679 61711

Parameter	Units	269420004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	.1	.1	0.097	0.093	97	93	75-125	4	20	
Arsenic	mg/L	ND	.1	.1	0.096	0.097	95	96	75-125	1	20	
Barium	mg/L	0.0065J	.1	.1	0.10	0.097	97	90	75-125	7	20	
Beryllium	mg/L	ND	.1	.1	0.096	0.099	96	99	75-125	3	20	
Boron	mg/L	ND	1	1	1.0	1.0	100	102	75-125	3	20	
Cadmium	mg/L	ND	.1	.1	0.095	0.097	95	97	75-125	2	20	
Calcium	mg/L	12.4J	1	1	13.1J	14.1J	66	171	75-125	8	20	M6
Chromium	mg/L	0.0024J	.1	.1	0.10	0.10	99	101	75-125	1	20	
Cobalt	mg/L	ND	.1	.1	0.099	0.10	99	101	75-125	3	20	
Copper	mg/L	ND	.1	.1	0.10	0.10	100	100	75-125	0	20	
Lead	mg/L	ND	.1	.1	0.093	0.095	93	95	75-125	3	20	
Nickel	mg/L	ND	.1	.1	0.10	0.10	100	100	75-125	0	20	
Selenium	mg/L	ND	.1	.1	0.094	0.093	94	92	75-125	2	20	
Silver	mg/L	ND	.1	.1	0.095	0.090	95	90	75-125	5	20	
Thallium	mg/L	ND	.1	.1	0.093	0.096	93	96	75-125	3	20	
Vanadium	mg/L	ND	.1	.1	0.10	0.10	100	101	75-125	1	20	
Zinc	mg/L	0.0024J	.1	.1	0.10	0.10	98	97	75-125	1	20	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells 1+2
Pace Project No.: 269420

QC Batch: 13908 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 269420001, 269420002, 269420003, 269420004, 269420005, 269420006, 269420007, 269420008, 269420009

LABORATORY CONTROL SAMPLE: 61880

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	408	102	84-108	

SAMPLE DUPLICATE: 61881

Parameter	Units	269420001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	162	169	4	10	

SAMPLE DUPLICATE: 61882

Parameter	Units	269462002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	46.0	42.0	9	10	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: Plant Bowen cells 1+2
Pace Project No.: 269420

QC Batch: 13938 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 269420001, 269420002, 269420003, 269420004, 269420005, 269420006, 269420007, 269420008, 269420009

METHOD BLANK: 62055 Matrix: Water
Associated Lab Samples: 269420001, 269420002, 269420003, 269420004, 269420005, 269420006, 269420007, 269420008, 269420009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	0.058J	0.25	0.024	09/21/18 12:46	
Fluoride	mg/L	ND	0.30	0.029	09/21/18 12:46	
Sulfate	mg/L	ND	1.0	0.017	09/21/18 12:46	

LABORATORY CONTROL SAMPLE: 62056

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 62057 62058

Parameter	Units	269420001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	1.6	10	10	11.3	11.2	97	96	90-110	1	15	
Fluoride	mg/L	ND	10	10	9.9	10.1	99	101	90-110	3	15	
Sulfate	mg/L	1.3	10	10	11.0	11.8	96	105	90-110	7	15	

MATRIX SPIKE SAMPLE: 62059

Parameter	Units	269420002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	1.5	10	11.9	104	90-110	
Fluoride	mg/L	ND	10	10.4	104	90-110	
Sulfate	mg/L	0.36J	10	10.9	105	90-110	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALIFIERS

Project: Plant Bowen cells 1+2
Pace Project No.: 269420

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-A	Pace Analytical Services - Asheville
PASI-GA	Pace Analytical Services - Atlanta, GA

ANALYTE QUALIFIERS

B	Analyte was detected in the associated method blank.
D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
M6	Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

Pace Analytical Services, LLC
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Bowen cells 1+2
Pace Project No.: 269420

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
269420001	**GWA-1**	EPA 3005A	13843	EPA 6020B	13892
269420002	**GWA-3**	EPA 3005A	13843	EPA 6020B	13892
269420003	**GWC-5**	EPA 3005A	13843	EPA 6020B	13892
269420004	**GWC-6**	EPA 3005A	13843	EPA 6020B	13892
269420005	**GWC-6RZ**	EPA 3005A	13843	EPA 6020B	13892
269420006	**GWA-50**	EPA 3005A	13843	EPA 6020B	13892
269420007	**FBL091718**	EPA 3005A	13843	EPA 6020B	13892
269420008	**EQBL091718**	EPA 3005A	13843	EPA 6020B	13892
269420009	**Dup-1**	EPA 3005A	13843	EPA 6020B	13892
269420001	**GWA-1**	EPA 7470A	432354	EPA 7470A	432375
269420002	**GWA-3**	EPA 7470A	432354	EPA 7470A	432375
269420003	**GWC-5**	EPA 7470A	432354	EPA 7470A	432375
269420004	**GWC-6**	EPA 7470A	432354	EPA 7470A	432375
269420005	**GWC-6RZ**	EPA 7470A	432354	EPA 7470A	432375
269420006	**GWA-50**	EPA 7470A	432354	EPA 7470A	432375
269420007	**FBL091718**	EPA 7470A	432354	EPA 7470A	432375
269420008	**EQBL091718**	EPA 7470A	432354	EPA 7470A	432375
269420009	**Dup-1**	EPA 7470A	432354	EPA 7470A	432375
269420001	**GWA-1**	SM 2540C	13908		
269420002	**GWA-3**	SM 2540C	13908		
269420003	**GWC-5**	SM 2540C	13908		
269420004	**GWC-6**	SM 2540C	13908		
269420005	**GWC-6RZ**	SM 2540C	13908		
269420006	**GWA-50**	SM 2540C	13908		
269420007	**FBL091718**	SM 2540C	13908		
269420008	**EQBL091718**	SM 2540C	13908		
269420009	**Dup-1**	SM 2540C	13908		
269420001	**GWA-1**	EPA 300.0	13938		
269420002	**GWA-3**	EPA 300.0	13938		
269420003	**GWC-5**	EPA 300.0	13938		
269420004	**GWC-6**	EPA 300.0	13938		
269420005	**GWC-6RZ**	EPA 300.0	13938		
269420006	**GWA-50**	EPA 300.0	13938		
269420007	**FBL091718**	EPA 300.0	13938		
269420008	**EQBL091718**	EPA 300.0	13938		
269420009	**Dup-1**	EPA 300.0	13938		

REPORT OF LABORATORY ANALYSIS

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Georgia Power - Coal Combustion Residuals	Report To:	Joju Abraham	Attention:	scsinvoices@southernco.com
Address:	2480 Maner Road	Copy To:	Wood Environmental	Company Name:	
	Atlanta, GA 30339			Address:	
Email:	jabraham@southernco.com	Purchase Order #:	SCS10348606	Pace Quote:	
Phone:	(404)506-7239 Fax	Project Name:	Plant Bowen Cells - State List	Pace Project Manager:	betsy.mcdaniel@pacelabs.com
Requested Due Date:		Project #:	Cells 1 & 2	Pace Profile #:	317.5

Regulatory Agency: | State / Location: GA

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HC	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	TDS, Cl, F, SO4	Metals 6020 *	Hg EPA 7470	Residual Chlorine (Y/N)
	MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS																					
1	GWA-1	WT	G	9/17/18	~~1609~~ 1218 AC				2	1		1						Y	X	X	X	
2	GWA-3	WT	G	9/17/18	1600				2	1		1						Y	X	X	X	
3	GWC-5	WT	G	9/17/18	1155				2	1		1						Y	X	X	X	
4	GWC-6	WT	G	9/17/18	1502				2	1		1						Y	X	X	X	
5	GWC-6RZ	WT	G	9/17/18	1320				2	1		1						Y	X	X	X	
6	GWA-50	WT	G	9/17/18	1603				2	1		1						Y	X	X	X	
7	FBL 091718	WT	G	9/17/18	1543				2	1		1						Y	X	X	X	
8	EQBL 091718	WT	G	9/17/18	1545				2	1		1						Y	X	X	X	
9	DUP-1	WT	G	9/17/18	—				2	1		1						Y	X	X	X	
10																						
11																						
12																						

WO# : 269420

269420

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
AC AC										
* Metals State List: Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Pb, ~~Mg~~, Ni, ~~K~~, Se, Ag, Na, Tl, V, Zn	[signature]	9/18/18	0953	Mike Nagora / Pace	9/18/18	0953				
				M Zalman	09/18/18	1440				
							0.1	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kevin Stephenson, Veronica Fay, Audrey Crafton

SIGNATURE of SAMPLER: Audrey Crafton DATE Signed: 9/17/18

Sample Condition Upon Receipt

Pace Analytical

Client Name: GA Power

Project #

WO# : 269420

PM: BM Due Date: 09/25/18

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

Cooler Temperature 0.1 Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: 9/18/18 MR

Temp should be above freezing to 6°C

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☑No	Initial when completed: Lot # of added preservative:
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	15.
Trip Blank Present:	☐Yes ☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☑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)

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

September 28, 2018

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

RE: Project: Plant Bowen cells 1+2
Pace Project No.: 269579

Dear Joju Abraham:
Enclosed are the analytical results for sample(s) received by the laboratory on September 21, 2018. 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: Maria Padilla, Georgia Power
Rebecca Thornton, Pace Analytical Atlanta
Greg Wrenn, Wood PLC

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

CERTIFICATIONS

Project: Plant Bowen cells 1+2
Pace Project No.: 269579

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
Texas Certification #: T104704397-08-TX
Virginia Certification #: 460204

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE SUMMARY

Project: Plant Bowen cells 1+2
Pace Project No.: 269579

Lab ID	Sample ID	Matrix	Date Collected	Date Received
269579001	**GWC-13RZ**	Water	09/20/18 09:22	09/21/18 13:00

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE ANALYTE COUNT

Project: Plant Bowen cells 1+2
Pace Project No.: 269579

Lab ID	Sample ID	Method	Analysts	Analytes Reported
269579001	**GWC-13RZ**	EPA 6020B	CSW	17
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells 1+2
Pace Project No.: 269579

Sample: GWC-13RZ **Lab ID: 269579001** Collected: 09/20/18 09:22 Received: 09/21/18 13:00 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	**0.0013J**	mg/L	0.0030	0.00078	1	09/25/18 15:15	09/26/18 23:07	7440-36-0	
Arsenic	**0.0016J**	mg/L	0.0050	0.00057	1	09/25/18 15:15	09/26/18 23:07	7440-38-2	B
Barium	**0.093**	mg/L	0.010	0.00078	1	09/25/18 15:15	09/26/18 23:07	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	09/25/18 15:15	09/26/18 23:07	7440-41-7	
Boron	**0.016J**	mg/L	0.040	0.0039	1	09/25/18 15:15	09/26/18 23:07	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	09/25/18 15:15	09/26/18 23:07	7440-43-9	
Calcium	**47.5**	mg/L	25.0	0.69	50	09/25/18 15:15	09/26/18 23:13	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	09/25/18 15:15	09/26/18 23:07	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	09/25/18 15:15	09/26/18 23:07	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	09/25/18 15:15	09/26/18 23:07	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	09/25/18 15:15	09/26/18 23:07	7439-92-1	
Nickel	ND	mg/L	0.010	0.00095	1	09/25/18 15:15	09/26/18 23:07	7440-02-0	
Selenium	ND	mg/L	0.010	0.0014	1	09/25/18 15:15	09/26/18 23:07	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	09/25/18 15:15	09/26/18 23:07	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	09/25/18 15:15	09/26/18 23:07	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	09/25/18 15:15	09/26/18 23:07	7440-62-2	
Zinc	**0.0049J**	mg/L	0.010	0.0021	1	09/25/18 15:15	09/26/18 23:07	7440-66-6	B
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	**0.000039J**	mg/L	0.00050	0.000036	1	09/27/18 09:50	09/27/18 16:53	7439-97-6	B
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**297**	mg/L	25.0	10.0	1		09/24/18 13:11		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**9.6**	mg/L	0.25	0.024	1		09/26/18 09:30	16887-00-6	
Fluoride	**0.094J**	mg/L	0.30	0.029	1		09/26/18 09:30	16984-48-8	
Sulfate	**72.2**	mg/L	10.0	0.17	10		09/26/18 17:59	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells 1+2
Pace Project No.: 269579

QC Batch: 14274
QC Batch Method: EPA 7470A
Associated Lab Samples: 269579001

Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury

METHOD BLANK: 63585 Matrix: Water
Associated Lab Samples: 269579001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	0.000082J	0.00050	0.000036	09/27/18 16:05	

LABORATORY CONTROL SAMPLE: 63586

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	.0025	0.0026	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 63587 63588

Parameter	Units	269432001 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	.0025	.0025	0.0026	0.0026	100	101	75-125	1	20	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells 1+2
Pace Project No.: 269579

QC Batch: 14164
QC Batch Method: EPA 3005A
Associated Lab Samples: 269579001

Analysis Method: EPA 6020B
Analysis Description: 6020B MET

METHOD BLANK: 63037
Associated Lab Samples: 269579001

Matrix: Water

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	09/26/18 20:21	
Arsenic	mg/L	0.00070J	0.0050	0.00057	09/26/18 20:21	
Barium	mg/L	ND	0.010	0.00078	09/26/18 20:21	
Beryllium	mg/L	ND	0.0030	0.000050	09/26/18 20:21	
Boron	mg/L	ND	0.040	0.0039	09/26/18 20:21	
Cadmium	mg/L	ND	0.0010	0.000093	09/26/18 20:21	
Calcium	mg/L	ND	0.50	0.014	09/26/18 20:21	
Chromium	mg/L	ND	0.010	0.0016	09/26/18 20:21	
Cobalt	mg/L	ND	0.010	0.00052	09/26/18 20:21	
Copper	mg/L	ND	0.025	0.0013	09/26/18 20:21	
Lead	mg/L	ND	0.0050	0.00027	09/26/18 20:21	
Nickel	mg/L	ND	0.010	0.00095	09/26/18 20:21	
Selenium	mg/L	ND	0.010	0.0014	09/26/18 20:21	
Silver	mg/L	ND	0.010	0.00095	09/26/18 20:21	
Thallium	mg/L	ND	0.0010	0.00014	09/26/18 20:21	
Vanadium	mg/L	ND	0.010	0.0019	09/26/18 20:21	
Zinc	mg/L	0.0029J	0.010	0.0021	09/26/18 20:21	

LABORATORY CONTROL SAMPLE: 63038

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	.1	0.11	108	80-120	
Arsenic	mg/L	.1	0.11	106	80-120	
Barium	mg/L	.1	0.10	105	80-120	
Beryllium	mg/L	.1	0.11	108	80-120	
Boron	mg/L	1	1.1	111	80-120	
Cadmium	mg/L	.1	0.11	106	80-120	
Calcium	mg/L	1	1.0	102	80-120	
Chromium	mg/L	.1	0.11	109	80-120	
Cobalt	mg/L	.1	0.11	106	80-120	
Copper	mg/L	.1	0.10	105	80-120	
Lead	mg/L	.1	0.10	104	80-120	
Nickel	mg/L	.1	0.10	104	80-120	
Selenium	mg/L	.1	0.10	104	80-120	
Silver	mg/L	.1	0.11	105	80-120	
Thallium	mg/L	.1	0.11	106	80-120	
Vanadium	mg/L	.1	0.11	112	80-120	
Zinc	mg/L	.1	0.10	104	80-120	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells 1+2
Pace Project No.: 269579

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 63039 63040

Parameter	Units	269556001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	.1	.1	0.11	0.11	106	106	75-125	0	20	
Arsenic	mg/L	0.00072J	.1	.1	0.10	0.10	101	101	75-125	0	20	
Barium	mg/L	0.023	.1	.1	0.12	0.12	100	98	75-125	1	20	
Beryllium	mg/L	0.000057J	.1	.1	0.10	0.10	102	102	75-125	1	20	
Boron	mg/L	0.012J	1	1	1.0	1.0	103	101	75-125	2	20	
Cadmium	mg/L	ND	.1	.1	0.10	0.11	102	106	75-125	4	20	
Calcium	mg/L	11.1J	1	1	11.6J	11.7J	53	60	75-125	1	20	M6
Chromium	mg/L	ND	.1	.1	0.11	0.10	110	103	75-125	7	20	
Cobalt	mg/L	0.0036J	.1	.1	0.11	0.10	106	100	75-125	6	20	
Copper	mg/L	ND	.1	.1	0.11	0.10	107	100	75-125	6	20	
Lead	mg/L	ND	.1	.1	0.10	0.10	102	104	75-125	2	20	
Nickel	mg/L	0.0017J	.1	.1	0.11	0.10	108	100	75-125	8	20	
Selenium	mg/L	ND	.1	.1	0.10	0.10	102	102	75-125	1	20	
Silver	mg/L	ND	.1	.1	0.10	0.10	100	101	75-125	1	20	
Thallium	mg/L	ND	.1	.1	0.10	0.10	103	103	75-125	0	20	
Vanadium	mg/L	ND	.1	.1	0.11	0.11	111	105	75-125	6	20	
Zinc	mg/L	0.0042J	.1	.1	0.11	0.10	104	98	75-125	6	20	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells 1+2
Pace Project No.: 269579

QC Batch: 14076
QC Batch Method: SM 2540C
Analysis Method: SM 2540C
Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 269579001

LABORATORY CONTROL SAMPLE: 62675

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	400	100	84-108	

SAMPLE DUPLICATE: 62676

Parameter	Units	269581001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	227	227	0	10	

SAMPLE DUPLICATE: 62677

Parameter	Units	269581010 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	139	139	0	10	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells 1+2
Pace Project No.: 269579

QC Batch: 14110
QC Batch Method: EPA 300.0
Analysis Method: EPA 300.0
Analysis Description: 300.0 IC Anions
Associated Lab Samples: 269579001

METHOD BLANK: 62772 Matrix: Water
Associated Lab Samples: 269579001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	0.057J	0.25	0.024	09/26/18 02:58	
Fluoride	mg/L	ND	0.30	0.029	09/26/18 02:58	
Sulfate	mg/L	ND	1.0	0.017	09/26/18 02:58	

LABORATORY CONTROL SAMPLE: 62773

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	10	10.3	103	90-110	
Fluoride	mg/L	10	10.1	101	90-110	
Sulfate	mg/L	10	10.0	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 62774 62775

Parameter	Units	269556001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	4.0	10	10	13.8	13.8	97	98	90-110	0	15	
Fluoride	mg/L	ND	10	10	9.8	9.9	98	99	90-110	0	15	
Sulfate	mg/L	75.0	10	10	73.7	73.6	-13	-15	90-110	0	15	E,M1

MATRIX SPIKE SAMPLE: 62776

Parameter	Units	269556002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	3.8	10	13.3	95	90-110	
Fluoride	mg/L	0.041J	10	10.3	102	90-110	
Sulfate	mg/L	810	10	345	-4660	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

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALIFIERS

Project: Plant Bowen cells 1+2
Pace Project No.: 269579

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.
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.

Pace Analytical Services, LLC
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Bowen cells 1+2
Pace Project No.: 269579

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
269579001	**GWC-13RZ**	EPA 3005A	14164	EPA 6020B	14198
269579001	**GWC-13RZ**	EPA 7470A	14274	EPA 7470A	14332
269579001	**GWC-13RZ**	SM 2540C	14076		
269579001	**GWC-13RZ**	EPA 300.0	14110		

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Georgia Power - Coal Combustion Residual's	Report To:	Joju Abraham	Attention:	scsinvoices@southernco.com
Address:	2480 Maner Road	Copy To:	Wood Environmental	Company Name:	
	Atlanta, GA 30339			Address:	
Email:	jabraham@southernco.com	Purchase Order #:	SCS10346606	Pace Quote:	
Phone:	(404)506-7239 Fax	Project Name:	Plant Bowen Cells - State List	Pace Project Manager:	betsy.mcdaniel@pacelabs.com
Requested Due Date:		Project #:	CCRs 1 & 2	Pace Profile #:	317 5

Regulatory Agency

State / Location: GA

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Requested Analysis Filtered (Y/N) Y/N	Analyses Test: TDS, Cl, F, SO4	Metals 6020 *	Hg EPA 7470	Residual Chlorine (Y/N)
																		Y/N	N	N	N	
1	GWC-13R2	WT	G	9/20/18	0922				2	1		1							X	X	X	
2																						
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

WO# : 269579

269579

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
* Metals State List: Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Pb, Mg, Ni, K, Se, Ag, Tl, V, Zn	Kevin Stephenson	9/24/18	0954	Mike Haynes / Pace	9/21/18	0954	
VF 9/20 VF 9/20 VF 9/20				M Zalman	09/21/18	1300	
							0.2 Y Y Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Veronica Fay

SIGNATURE of SAMPLER: Veronica Fay

DATE Signed: 9/20/18

TEMP in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

Sample Condition Upon Receipt

Pace Analytical

Client Name: GA Power

Project #

WO#: 269579

PM: BM Due Date: 09/28/18

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

Date and Initials of person examining contents: 9/21/18 MR

Temp should be above freezing to 6°C

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☑No	Initial when completed ____ Lot # of added preservative ____
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	15.
Trip Blank Present:	☐Yes ☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☑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)

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

October 16, 2018

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

RE: Project: Plant Bowen cells 1+2
Pace Project No.: 269580

Dear Joju Abraham:
Enclosed are the analytical results for sample(s) received by the laboratory on September 21, 2018. 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 September 28, 2018. The report has been revised to include the correct chain of custody. 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: Maria Padilla, Georgia Power
Rhonda Quinn, Norfolk Southern_Wood E&I Solutions, Inc.
Rebecca Thornton, Pace Analytical Atlanta
Greg Wrenn, Wood PLC

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

CERTIFICATIONS

Project: Plant Bowen cells 1+2
Pace Project No.: 269580

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
Texas Certification #: T104704397-08-TX
Virginia Certification #: 460204

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE SUMMARY

Project: Plant Bowen cells 1+2
Pace Project No.: 269580

Lab ID	Sample ID	Matrix	Date Collected	Date Received
269580001	**GWC-13**	Water	09/19/18 15:30	09/21/18 13:00
269580002	**GWC-15R**	Water	09/19/18 11:48	09/21/18 13:00
269580003	**GWC-15Z**	Water	09/19/18 10:04	09/21/18 13:00
269580004	**GWC-14Z**	Water	09/19/18 16:50	09/21/18 13:00
269580005	**Dup-3**	Water	09/19/18 00:00	09/21/18 13:00

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE ANALYTE COUNT

Project: Plant Bowen cells 1+2
Pace Project No.: 269580

Lab ID	Sample ID	Method	Analysts	Analytes Reported
269580001	**GWC-13**	EPA 6020B	CSW	17
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
269580002	**GWC-15R**	EPA 6020B	CSW	17
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
269580003	**GWC-15Z**	EPA 6020B	CSW	17
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
269580004	**GWC-14Z**	EPA 6020B	CSW	17
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
269580005	**Dup-3**	EPA 6020B	CSW	17
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells 1+2
Pace Project No.: 269580

Sample: GWC-13 **Lab ID: 269580001** Collected: 09/19/18 15:30 Received: 09/21/18 13:00 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	09/25/18 15:15	09/26/18 23:18	7440-36-0	
Arsenic	**0.0016J**	mg/L	0.0050	0.00057	1	09/25/18 15:15	09/26/18 23:18	7440-38-2	B
Barium	**0.034**	mg/L	0.010	0.00078	1	09/25/18 15:15	09/26/18 23:18	7440-39-3	
Beryllium	**0.000070J**	mg/L	0.0030	0.000050	1	09/25/18 15:15	09/26/18 23:18	7440-41-7	
Boron	**0.026J**	mg/L	0.040	0.0039	1	09/25/18 15:15	09/26/18 23:18	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	09/25/18 15:15	09/26/18 23:18	7440-43-9	
Calcium	**45.9**	mg/L	25.0	0.69	50	09/25/18 15:15	09/26/18 23:24	7440-70-2	
Chromium	**0.0059J**	mg/L	0.010	0.0016	1	09/25/18 15:15	09/26/18 23:18	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	09/25/18 15:15	09/26/18 23:18	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	09/25/18 15:15	09/26/18 23:18	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	09/25/18 15:15	09/26/18 23:18	7439-92-1	
Nickel	ND	mg/L	0.010	0.00095	1	09/25/18 15:15	09/26/18 23:18	7440-02-0	
Selenium	**0.0019J**	mg/L	0.010	0.0014	1	09/25/18 15:15	09/26/18 23:18	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	09/25/18 15:15	09/26/18 23:18	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	09/25/18 15:15	09/26/18 23:18	7440-28-0	
Vanadium	**0.0022J**	mg/L	0.010	0.0019	1	09/25/18 15:15	09/26/18 23:18	7440-62-2	
Zinc	**0.0047J**	mg/L	0.010	0.0021	1	09/25/18 15:15	09/26/18 23:18	7440-66-6	B
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	**0.000050J**	mg/L	0.00050	0.000036	1	09/27/18 09:50	09/27/18 17:00	7439-97-6	B
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**222**	mg/L	25.0	10.0	1		09/24/18 13:02		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**5.1**	mg/L	0.25	0.024	1		09/26/18 09:51	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		09/26/18 09:51	16984-48-8	
Sulfate	**64.5**	mg/L	10.0	0.17	10		09/26/18 18:20	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells 1+2
Pace Project No.: 269580

Sample: GWC-15R **Lab ID: 269580002** Collected: 09/19/18 11:48 Received: 09/21/18 13:00 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	**0.0011J**	mg/L	0.0030	0.00078	1	09/25/18 15:15	09/26/18 23:41	7440-36-0	
Arsenic	**0.0010J**	mg/L	0.0050	0.00057	1	09/25/18 15:15	09/26/18 23:41	7440-38-2	B
Barium	**0.020**	mg/L	0.010	0.00078	1	09/25/18 15:15	09/26/18 23:41	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	09/25/18 15:15	09/26/18 23:41	7440-41-7	
Boron	**0.0049J**	mg/L	0.040	0.0039	1	09/25/18 15:15	09/26/18 23:41	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	09/25/18 15:15	09/26/18 23:41	7440-43-9	
Calcium	**35.7**	mg/L	25.0	0.69	50	09/25/18 15:15	09/26/18 23:47	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	09/25/18 15:15	09/26/18 23:41	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	09/25/18 15:15	09/26/18 23:41	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	09/25/18 15:15	09/26/18 23:41	7440-50-8	
Lead	**0.00029J**	mg/L	0.0050	0.00027	1	09/25/18 15:15	09/26/18 23:41	7439-92-1	
Nickel	ND	mg/L	0.010	0.00095	1	09/25/18 15:15	09/26/18 23:41	7440-02-0	
Selenium	ND	mg/L	0.010	0.0014	1	09/25/18 15:15	09/26/18 23:41	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	09/25/18 15:15	09/26/18 23:41	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	09/25/18 15:15	09/26/18 23:41	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	09/25/18 15:15	09/26/18 23:41	7440-62-2	
Zinc	**0.0052J**	mg/L	0.010	0.0021	1	09/25/18 15:15	09/26/18 23:41	7440-66-6	B
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	**0.000050J**	mg/L	0.00050	0.000036	1	09/27/18 09:50	09/27/18 17:02	7439-97-6	B
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**181**	mg/L	25.0	10.0	1		09/24/18 13:02		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**1.7**	mg/L	0.25	0.024	1		09/26/18 12:19	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		09/26/18 12:19	16984-48-8	
Sulfate	**10.4**	mg/L	1.0	0.017	1		09/26/18 12:19	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells 1+2
Pace Project No.: 269580

Sample: GWC-15Z **Lab ID: 269580003** Collected: 09/19/18 10:04 Received: 09/21/18 13:00 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	09/25/18 15:15	09/26/18 23:53	7440-36-0	
Arsenic	**0.0015J**	mg/L	0.0050	0.00057	1	09/25/18 15:15	09/26/18 23:53	7440-38-2	B
Barium	**0.015**	mg/L	0.010	0.00078	1	09/25/18 15:15	09/26/18 23:53	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	09/25/18 15:15	09/26/18 23:53	7440-41-7	
Boron	**0.0046J**	mg/L	0.040	0.0039	1	09/25/18 15:15	09/26/18 23:53	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	09/25/18 15:15	09/26/18 23:53	7440-43-9	
Calcium	**23.7J**	mg/L	25.0	0.69	50	09/25/18 15:15	09/26/18 23:59	7440-70-2	D3
Chromium	ND	mg/L	0.010	0.0016	1	09/25/18 15:15	09/26/18 23:53	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	09/25/18 15:15	09/26/18 23:53	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	09/25/18 15:15	09/26/18 23:53	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	09/25/18 15:15	09/26/18 23:53	7439-92-1	
Nickel	ND	mg/L	0.010	0.00095	1	09/25/18 15:15	09/26/18 23:53	7440-02-0	
Selenium	ND	mg/L	0.010	0.0014	1	09/25/18 15:15	09/26/18 23:53	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	09/25/18 15:15	09/26/18 23:53	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	09/25/18 15:15	09/26/18 23:53	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	09/25/18 15:15	09/26/18 23:53	7440-62-2	
Zinc	**0.0030J**	mg/L	0.010	0.0021	1	09/25/18 15:15	09/26/18 23:53	7440-66-6	B
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	**0.000048J**	mg/L	0.00050	0.000036	1	09/27/18 09:50	09/27/18 17:05	7439-97-6	B
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**138**	mg/L	25.0	10.0	1		09/24/18 13:02		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**1.1**	mg/L	0.25	0.024	1		09/26/18 12:40	16887-00-6	
Fluoride	**0.041J**	mg/L	0.30	0.029	1		09/26/18 12:40	16984-48-8	
Sulfate	**2.6**	mg/L	1.0	0.017	1		09/26/18 12:40	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells 1+2
Pace Project No.: 269580

Sample: GWC-14Z **Lab ID: 269580004** Collected: 09/19/18 16:50 Received: 09/21/18 13:00 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	09/25/18 15:15	09/27/18 00:04	7440-36-0	
Arsenic	**0.0018J**	mg/L	0.0050	0.00057	1	09/25/18 15:15	09/27/18 00:04	7440-38-2	B
Barium	**0.013**	mg/L	0.010	0.00078	1	09/25/18 15:15	09/27/18 00:04	7440-39-3	
Beryllium	**0.00014J**	mg/L	0.0030	0.000050	1	09/25/18 15:15	09/27/18 00:04	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	09/25/18 15:15	09/27/18 00:04	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	09/25/18 15:15	09/27/18 00:04	7440-43-9	
Calcium	**20.0J**	mg/L	25.0	0.69	50	09/25/18 15:15	09/27/18 00:10	7440-70-2	D3
Chromium	ND	mg/L	0.010	0.0016	1	09/25/18 15:15	09/27/18 00:04	7440-47-3	
Cobalt	**0.00058J**	mg/L	0.010	0.00052	1	09/25/18 15:15	09/27/18 00:04	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	09/25/18 15:15	09/27/18 00:04	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	09/25/18 15:15	09/27/18 00:04	7439-92-1	
Nickel	**0.00096J**	mg/L	0.010	0.00095	1	09/25/18 15:15	09/27/18 00:04	7440-02-0	
Selenium	ND	mg/L	0.010	0.0014	1	09/25/18 15:15	09/27/18 00:04	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	09/25/18 15:15	09/27/18 00:04	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	09/25/18 15:15	09/27/18 00:04	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	09/25/18 15:15	09/27/18 00:04	7440-62-2	
Zinc	**0.0043J**	mg/L	0.010	0.0021	1	09/25/18 15:15	09/27/18 00:04	7440-66-6	B
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	**0.000058J**	mg/L	0.00050	0.000036	1	09/27/18 09:50	09/27/18 17:07	7439-97-6	B
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**114**	mg/L	25.0	10.0	1		09/24/18 13:02		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**2.8**	mg/L	0.25	0.024	1		09/26/18 13:02	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		09/26/18 13:02	16984-48-8	
Sulfate	**1.7**	mg/L	1.0	0.017	1		09/26/18 13:02	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells 1+2
Pace Project No.: 269580

Sample: Dup-3 **Lab ID: 269580005** Collected: 09/19/18 00:00 Received: 09/21/18 13:00 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	09/25/18 15:15	09/27/18 00:16	7440-36-0	
Arsenic	**0.0013J**	mg/L	0.0050	0.00057	1	09/25/18 15:15	09/27/18 00:16	7440-38-2	B
Barium	**0.015**	mg/L	0.010	0.00078	1	09/25/18 15:15	09/27/18 00:16	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	09/25/18 15:15	09/27/18 00:16	7440-41-7	
Boron	**0.0044J**	mg/L	0.040	0.0039	1	09/25/18 15:15	09/27/18 00:16	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	09/25/18 15:15	09/27/18 00:16	7440-43-9	
Calcium	**25.1**	mg/L	25.0	0.69	50	09/25/18 15:15	09/27/18 00:21	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	09/25/18 15:15	09/27/18 00:16	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	09/25/18 15:15	09/27/18 00:16	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	09/25/18 15:15	09/27/18 00:16	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	09/25/18 15:15	09/27/18 00:16	7439-92-1	
Nickel	ND	mg/L	0.010	0.00095	1	09/25/18 15:15	09/27/18 00:16	7440-02-0	
Selenium	ND	mg/L	0.010	0.0014	1	09/25/18 15:15	09/27/18 00:16	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	09/25/18 15:15	09/27/18 00:16	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	09/25/18 15:15	09/27/18 00:16	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	09/25/18 15:15	09/27/18 00:16	7440-62-2	
Zinc	**0.0031J**	mg/L	0.010	0.0021	1	09/25/18 15:15	09/27/18 00:16	7440-66-6	B
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	**0.000051J**	mg/L	0.00050	0.000036	1	09/27/18 09:50	09/27/18 17:09	7439-97-6	B
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**139**	mg/L	25.0	10.0	1		09/24/18 13:02		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**1.1**	mg/L	0.25	0.024	1		09/26/18 13:23	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		09/26/18 13:23	16984-48-8	
Sulfate	**2.5**	mg/L	1.0	0.017	1		09/26/18 13:23	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells 1+2
Pace Project No.: 269580

QC Batch: 14274 Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
Associated Lab Samples: 269580001, 269580002, 269580003, 269580004, 269580005

METHOD BLANK: 63585 Matrix: Water
Associated Lab Samples: 269580001, 269580002, 269580003, 269580004, 269580005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	0.000082J	0.00050	0.000036	09/27/18 16:05	

LABORATORY CONTROL SAMPLE: 63586

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	.0025	0.0026	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 63587 63588

Parameter	Units	269432001 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	.0025	.0025	0.0026	0.0026	100	101	75-125	1	20	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells 1+2
Pace Project No.: 269580

QC Batch: 14164 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020B MET
Associated Lab Samples: 269580001, 269580002, 269580003, 269580004, 269580005

METHOD BLANK: 63037 Matrix: Water
Associated Lab Samples: 269580001, 269580002, 269580003, 269580004, 269580005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	09/26/18 20:21	
Arsenic	mg/L	0.00070J	0.0050	0.00057	09/26/18 20:21	
Barium	mg/L	ND	0.010	0.00078	09/26/18 20:21	
Beryllium	mg/L	ND	0.0030	0.000050	09/26/18 20:21	
Boron	mg/L	ND	0.040	0.0039	09/26/18 20:21	
Cadmium	mg/L	ND	0.0010	0.000093	09/26/18 20:21	
Calcium	mg/L	ND	0.50	0.014	09/26/18 20:21	
Chromium	mg/L	ND	0.010	0.0016	09/26/18 20:21	
Cobalt	mg/L	ND	0.010	0.00052	09/26/18 20:21	
Copper	mg/L	ND	0.025	0.0013	09/26/18 20:21	
Lead	mg/L	ND	0.0050	0.00027	09/26/18 20:21	
Nickel	mg/L	ND	0.010	0.00095	09/26/18 20:21	
Selenium	mg/L	ND	0.010	0.0014	09/26/18 20:21	
Silver	mg/L	ND	0.010	0.00095	09/26/18 20:21	
Thallium	mg/L	ND	0.0010	0.00014	09/26/18 20:21	
Vanadium	mg/L	ND	0.010	0.0019	09/26/18 20:21	
Zinc	mg/L	0.0029J	0.010	0.0021	09/26/18 20:21	

LABORATORY CONTROL SAMPLE: 63038

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	.1	0.11	108	80-120	
Arsenic	mg/L	.1	0.11	106	80-120	
Barium	mg/L	.1	0.10	105	80-120	
Beryllium	mg/L	.1	0.11	108	80-120	
Boron	mg/L	1	1.1	111	80-120	
Cadmium	mg/L	.1	0.11	106	80-120	
Calcium	mg/L	1	1.0	102	80-120	
Chromium	mg/L	.1	0.11	109	80-120	
Cobalt	mg/L	.1	0.11	106	80-120	
Copper	mg/L	.1	0.10	105	80-120	
Lead	mg/L	.1	0.10	104	80-120	
Nickel	mg/L	.1	0.10	104	80-120	
Selenium	mg/L	.1	0.10	104	80-120	
Silver	mg/L	.1	0.11	105	80-120	
Thallium	mg/L	.1	0.11	106	80-120	
Vanadium	mg/L	.1	0.11	112	80-120	
Zinc	mg/L	.1	0.10	104	80-120	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells 1+2
Pace Project No.: 269580

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 63039 63040

Parameter	Units	269556001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	.1	.1	0.11	0.11	106	106	75-125	0	20	
Arsenic	mg/L	0.00072J	.1	.1	0.10	0.10	101	101	75-125	0	20	
Barium	mg/L	0.023	.1	.1	0.12	0.12	100	98	75-125	1	20	
Beryllium	mg/L	0.000057J	.1	.1	0.10	0.10	102	102	75-125	1	20	
Boron	mg/L	0.012J	1	1	1.0	1.0	103	101	75-125	2	20	
Cadmium	mg/L	ND	.1	.1	0.10	0.11	102	106	75-125	4	20	
Calcium	mg/L	11.1J	1	1	11.6J	11.7J	53	60	75-125	1	20	M6
Chromium	mg/L	ND	.1	.1	0.11	0.10	110	103	75-125	7	20	
Cobalt	mg/L	0.0036J	.1	.1	0.11	0.10	106	100	75-125	6	20	
Copper	mg/L	ND	.1	.1	0.11	0.10	107	100	75-125	6	20	
Lead	mg/L	ND	.1	.1	0.10	0.10	102	104	75-125	2	20	
Nickel	mg/L	0.0017J	.1	.1	0.11	0.10	108	100	75-125	8	20	
Selenium	mg/L	ND	.1	.1	0.10	0.10	102	102	75-125	1	20	
Silver	mg/L	ND	.1	.1	0.10	0.10	100	101	75-125	1	20	
Thallium	mg/L	ND	.1	.1	0.10	0.10	103	103	75-125	0	20	
Vanadium	mg/L	ND	.1	.1	0.11	0.11	111	105	75-125	6	20	
Zinc	mg/L	0.0042J	.1	.1	0.11	0.10	104	98	75-125	6	20	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells 1+2
Pace Project No.: 269580

QC Batch: 14064 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 269580001, 269580002, 269580003, 269580004, 269580005

LABORATORY CONTROL SAMPLE: 62639

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	401	100	84-108	

SAMPLE DUPLICATE: 62640

Parameter	Units	269556001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	186	178	4	10	

SAMPLE DUPLICATE: 62641

Parameter	Units	269555003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	129	125	3	10	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells 1+2
Pace Project No.: 269580

QC Batch: 14110 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 269580001, 269580002, 269580003, 269580004, 269580005

METHOD BLANK: 62772 Matrix: Water
Associated Lab Samples: 269580001, 269580002, 269580003, 269580004, 269580005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	0.057J	0.25	0.024	09/26/18 02:58	
Fluoride	mg/L	ND	0.30	0.029	09/26/18 02:58	
Sulfate	mg/L	ND	1.0	0.017	09/26/18 02:58	

LABORATORY CONTROL SAMPLE: 62773

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	10	10.3	103	90-110	
Fluoride	mg/L	10	10.1	101	90-110	
Sulfate	mg/L	10	10.0	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 62774 62775

Parameter	Units	269556001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	4.0	10	10	13.8	13.8	97	98	90-110	0	15	
Fluoride	mg/L	ND	10	10	9.8	9.9	98	99	90-110	0	15	
Sulfate	mg/L	75.0	10	10	73.7	73.6	-13	-15	90-110	0	15	E,M1

MATRIX SPIKE SAMPLE: 62776

Parameter	Units	269556002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	3.8	10	13.3	95	90-110	
Fluoride	mg/L	0.041J	10	10.3	102	90-110	
Sulfate	mg/L	810	10	345	-4660	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

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALIFIERS

Project: Plant Bowen cells 1+2
Pace Project No.: 269580

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.
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.

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Bowen cells 1+2
Pace Project No.: 269580

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
269580001	**GWC-13**	EPA 3005A	14164	EPA 6020B	14198
269580002	**GWC-15R**	EPA 3005A	14164	EPA 6020B	14198
269580003	**GWC-15Z**	EPA 3005A	14164	EPA 6020B	14198
269580004	**GWC-14Z**	EPA 3005A	14164	EPA 6020B	14198
269580005	**Dup-3**	EPA 3005A	14164	EPA 6020B	14198
269580001	**GWC-13**	EPA 7470A	14274	EPA 7470A	14332
269580002	**GWC-15R**	EPA 7470A	14274	EPA 7470A	14332
269580003	**GWC-15Z**	EPA 7470A	14274	EPA 7470A	14332
269580004	**GWC-14Z**	EPA 7470A	14274	EPA 7470A	14332
269580005	**Dup-3**	EPA 7470A	14274	EPA 7470A	14332
269580001	**GWC-13**	SM 2540C	14064		
269580002	**GWC-15R**	SM 2540C	14064		
269580003	**GWC-15Z**	SM 2540C	14064		
269580004	**GWC-14Z**	SM 2540C	14064		
269580005	**Dup-3**	SM 2540C	14064		
269580001	**GWC-13**	EPA 300.0	14110		
269580002	**GWC-15R**	EPA 300.0	14110		
269580003	**GWC-15Z**	EPA 300.0	14110		
269580004	**GWC-14Z**	EPA 300.0	14110		
269580005	**Dup-3**	EPA 300.0	14110		

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Georgia Power - Coal Combustion Residuals	Report To	Joju Abraham	Attention:	scsinvoices@southernco.com
Address:	2480 Maner Road	Copy To	Wood Environmental	Company Name	
	Atlanta, GA 30339			Address:	
Email:	jabraham@southernco.com	Purchase Order #:	SCS10348606	Pace Quote:	
Phone:	(404)506-7239 Fax	Project Name:	Plant Bowen Cells - State List	Pace Project Manager:	betsy.mcdaniel@pacelabs.com
Requested Due Date:		Project #:	Cells 1 & 2	Pace Profile #:	317 5

Regulatory Agency

State / Location: GA

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Requested Analysis Filtered (Y/N) Y/N	Analyses Test: TDS	Cl, F, SO4	Metals 6020*	Hg EPA 7470	Residual Chlorine (Y/N)
	MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS																	N					
1	GWC-13	WT	G	9/19/18	1530				2	1		1							X	X	X		
2	GWC-15R	WT	G	9/19/18	1148				2	1		1							X	X	X		
3	GWC-15Z	WT	G	9/19/18	1004				2	1		1							X	X	X		
4	GWC-14Z	WT	G	9/19/18	1650				2	1		1							X	X	X		
5	DUP-3	WT	G	9/19/18	—				2	1		1							X	X	X		
6																							
7																							
8																							
9																							
10																							
11																							
12																							

WO# : 269580

269580

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
Metals State List: Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Pb, Mg, Ni, K, Se, Ag, Sr, Tl, V, Zn				Mike Noonan / Pace	9/21/18	0954				
VF 9/19				M Zalman	09/21/18	1300				
							0.2	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kevin Stephenson, Audrey Crafton, Veronica Fay

SIGNATURE of SAMPLER: Veronica Fay DATE Signed: 9/19/19

Page 1 of 1

Sample Condition Upon Receipt

Pace Analytical

Client Name: GA Power

Project #

WO# : 269580

PM: BM Due Date: 09/28/18

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

Date and Initials of person examining contents: 09/21/18 MR

Temp should be above freezing to 6°C

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☑No	Initial when completed: Lot # of added preservative:
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	15.
Trip Blank Present:	☐Yes ☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☑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)

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

September 28, 2018

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

RE: Project: Plant Bowen cells 1+2
Pace Project No.: 269581

Dear Joju Abraham:
Enclosed are the analytical results for sample(s) received by the laboratory on September 21, 2018. 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: Maria Padilla, Georgia Power
Rebecca Thornton, Pace Analytical Atlanta
Greg Wrenn, Wood PLC

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

CERTIFICATIONS

Project: Plant Bowen cells 1+2
Pace Project No.: 269581

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
Texas Certification #: T104704397-08-TX
Virginia Certification #: 460204

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE SUMMARY

Project: Plant Bowen cells 1+2
Pace Project No.: 269581

Lab ID	Sample ID	Matrix	Date Collected	Date Received
269581001	GWA-4RZ	Water	09/18/18 09:13	09/21/18 13:00
269581002	GWA-50R	Water	09/18/18 10:49	09/21/18 13:00
269581003	GWC-7Z	Water	09/18/18 10:20	09/21/18 13:00
269581004	GWC-8Z	Water	09/18/18 13:02	09/21/18 13:00
269581005	GWC-8RR	Water	09/18/18 14:12	09/21/18 13:00
269581006	GWC-9	Water	09/18/18 09:45	09/21/18 13:00
269581007	GWC-10	Water	09/18/18 11:20	09/21/18 13:00
269581008	GWC-10R	Water	09/18/18 12:38	09/21/18 13:00
269581009	GWC-11	Water	09/18/18 13:23	09/21/18 13:00
269581010	GWC-11R	Water	09/18/18 15:00	09/21/18 13:00
269581011	GWC-12	Water	09/18/18 14:20	09/21/18 13:00
269581012	Dup-2	Water	09/18/18 00:00	09/21/18 13:00
269581013	FBL091818	Water	09/18/18 15:04	09/21/18 13:00
269581014	EQBL091818	Water	09/18/18 15:08	09/21/18 13:00

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(770)734-4200

SAMPLE ANALYTE COUNT

Project: Plant Bowen cells 1+2
Pace Project No.: 269581

Lab ID	Sample ID	Method	Analysts	Analytes Reported
269581001	**GWA-4RZ**	EPA 6020B	CSW	17
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
269581002	**GWA-50R**	EPA 6020B	CSW	17
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
269581003	**GWC-7Z**	EPA 6020B	CSW	17
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
269581004	**GWC-8Z**	EPA 6020B	CSW	17
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
269581005	**GWC-8RR**	EPA 6020B	CSW	17
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
269581006	**GWC-9**	EPA 6020B	CSW	17
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
269581007	**GWC-10**	EPA 6020B	CSW	17
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
269581008	**GWC-10R**	EPA 6020B	CSW	17
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
269581009	**GWC-11**	EPA 6020B	CSW	17
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
269581010	**GWC-11R**	EPA 6020B	CSW	17

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE ANALYTE COUNT

Project: Plant Bowen cells 1+2
Pace Project No.: 269581

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
269581011	**GWC-12**	EPA 6020B	CSW	17
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
269581012	**Dup-2**	EPA 6020B	CSW	17
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
269581013	**FBL091818**	EPA 6020B	CSW	17
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
269581014	**EQBL091818**	EPA 6020B	CSW	17
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3

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ANALYTICAL RESULTS

Project: Plant Bowen cells 1+2
Pace Project No.: 269581

Sample: GWA-4RZ **Lab ID: 269581001** Collected: 09/18/18 09:13 Received: 09/21/18 13:00 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	09/25/18 15:34	09/26/18 15:25	7440-36-0	
Arsenic	**0.0011J**	mg/L	0.0050	0.00057	1	09/25/18 15:34	09/26/18 15:25	7440-38-2	
Barium	**0.032**	mg/L	0.010	0.00078	1	09/25/18 15:34	09/26/18 15:25	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	09/25/18 15:34	09/26/18 15:25	7440-41-7	
Boron	**0.0096J**	mg/L	0.040	0.0039	1	09/25/18 15:34	09/26/18 15:25	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	09/25/18 15:34	09/26/18 15:25	7440-43-9	
Calcium	**48.1**	mg/L	25.0	0.69	50	09/25/18 15:34	09/26/18 15:31	7440-70-2	M6
Chromium	ND	mg/L	0.010	0.0016	1	09/25/18 15:34	09/26/18 15:25	7440-47-3	
Cobalt	**0.017**	mg/L	0.010	0.00052	1	09/25/18 15:34	09/26/18 15:25	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	09/25/18 15:34	09/26/18 15:25	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	09/25/18 15:34	09/26/18 15:25	7439-92-1	
Nickel	ND	mg/L	0.010	0.00095	1	09/25/18 15:34	09/26/18 15:25	7440-02-0	
Selenium	ND	mg/L	0.010	0.0014	1	09/25/18 15:34	09/26/18 15:25	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	09/25/18 15:34	09/26/18 15:25	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	09/25/18 15:34	09/26/18 15:25	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	09/25/18 15:34	09/26/18 15:25	7440-62-2	
Zinc	**0.0058J**	mg/L	0.010	0.0021	1	09/25/18 15:34	09/26/18 15:25	7440-66-6	B
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	**0.000041J**	mg/L	0.00050	0.000036	1	09/27/18 12:03	09/27/18 18:44	7439-97-6	B
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**227**	mg/L	25.0	10.0	1		09/24/18 13:11		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**3.1**	mg/L	0.25	0.024	1		09/26/18 17:48	16887-00-6	
Fluoride	**0.19J**	mg/L	0.30	0.029	1		09/26/18 17:48	16984-48-8	
Sulfate	**22.8**	mg/L	1.0	0.017	1		09/26/18 17:48	14808-79-8	M1

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
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(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells 1+2
Pace Project No.: 269581

Sample: GWA-50R **Lab ID: 269581002** Collected: 09/18/18 10:49 Received: 09/21/18 13:00 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	09/25/18 15:34	09/26/18 16:19	7440-36-0	
Arsenic	**0.00058J**	mg/L	0.0050	0.00057	1	09/25/18 15:34	09/26/18 16:19	7440-38-2	
Barium	**0.0099J**	mg/L	0.010	0.00078	1	09/25/18 15:34	09/26/18 16:19	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	09/25/18 15:34	09/26/18 16:19	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	09/25/18 15:34	09/26/18 16:19	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	09/25/18 15:34	09/26/18 16:19	7440-43-9	
Calcium	**1.3**	mg/L	0.50	0.014	1	09/25/18 15:34	09/26/18 16:19	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	09/25/18 15:34	09/26/18 16:19	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	09/25/18 15:34	09/26/18 16:19	7440-48-4	
Copper	**0.0041J**	mg/L	0.025	0.0013	1	09/25/18 15:34	09/26/18 16:19	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	09/25/18 15:34	09/26/18 16:19	7439-92-1	
Nickel	**0.0012J**	mg/L	0.010	0.00095	1	09/25/18 15:34	09/26/18 16:19	7440-02-0	
Selenium	ND	mg/L	0.010	0.0014	1	09/25/18 15:34	09/26/18 16:19	7782-49-2	
Silver	**0.0017J**	mg/L	0.010	0.00095	1	09/25/18 15:34	09/26/18 16:19	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	09/25/18 15:34	09/26/18 16:19	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	09/25/18 15:34	09/26/18 16:19	7440-62-2	
Zinc	**0.0037J**	mg/L	0.010	0.0021	1	09/25/18 15:34	09/26/18 16:19	7440-66-6	B
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	09/27/18 12:03	09/27/18 18:54	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**15.0J**	mg/L	25.0	10.0	1		09/24/18 13:11		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**1.0**	mg/L	0.25	0.024	1		09/26/18 18:57	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		09/26/18 18:57	16984-48-8	
Sulfate	**0.87J**	mg/L	1.0	0.017	1		09/26/18 18:57	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells 1+2
Pace Project No.: 269581

Sample: GWC-7Z **Lab ID: 269581003** Collected: 09/18/18 10:20 Received: 09/21/18 13:00 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	09/25/18 15:34	09/26/18 16:31	7440-36-0	
Arsenic	**0.0031J**	mg/L	0.0050	0.00057	1	09/25/18 15:34	09/26/18 16:31	7440-38-2	
Barium	**0.027**	mg/L	0.010	0.00078	1	09/25/18 15:34	09/26/18 16:31	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	09/25/18 15:34	09/26/18 16:31	7440-41-7	
Boron	**0.0045J**	mg/L	0.040	0.0039	1	09/25/18 15:34	09/26/18 16:31	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	09/25/18 15:34	09/26/18 16:31	7440-43-9	
Calcium	**20.8J**	mg/L	25.0	0.69	50	09/25/18 15:34	09/26/18 16:37	7440-70-2	D3
Chromium	ND	mg/L	0.010	0.0016	1	09/25/18 15:34	09/26/18 16:31	7440-47-3	
Cobalt	**0.00055J**	mg/L	0.010	0.00052	1	09/25/18 15:34	09/26/18 16:31	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	09/25/18 15:34	09/26/18 16:31	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	09/25/18 15:34	09/26/18 16:31	7439-92-1	
Nickel	ND	mg/L	0.010	0.00095	1	09/25/18 15:34	09/26/18 16:31	7440-02-0	
Selenium	ND	mg/L	0.010	0.0014	1	09/25/18 15:34	09/26/18 16:31	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	09/25/18 15:34	09/26/18 16:31	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	09/25/18 15:34	09/26/18 16:31	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	09/25/18 15:34	09/26/18 16:31	7440-62-2	
Zinc	**0.0035J**	mg/L	0.010	0.0021	1	09/25/18 15:34	09/26/18 16:31	7440-66-6	B
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	**0.000042J**	mg/L	0.00050	0.000036	1	09/27/18 12:03	09/27/18 18:56	7439-97-6	B
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**116**	mg/L	25.0	10.0	1		09/24/18 13:11		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**1.3**	mg/L	0.25	0.024	1		09/26/18 19:20	16887-00-6	
Fluoride	**0.12J**	mg/L	0.30	0.029	1		09/26/18 19:20	16984-48-8	
Sulfate	**0.65J**	mg/L	1.0	0.017	1		09/26/18 19:20	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells 1+2
Pace Project No.: 269581

Sample: GWC-8Z **Lab ID: 269581004** Collected: 09/18/18 13:02 Received: 09/21/18 13:00 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	09/25/18 15:34	09/26/18 16:42	7440-36-0	
Arsenic	**0.00074J**	mg/L	0.0050	0.00057	1	09/25/18 15:34	09/26/18 16:42	7440-38-2	
Barium	**0.025**	mg/L	0.010	0.00078	1	09/25/18 15:34	09/26/18 16:42	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	09/25/18 15:34	09/26/18 16:42	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	09/25/18 15:34	09/26/18 16:42	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	09/25/18 15:34	09/26/18 16:42	7440-43-9	
Calcium	**15.5J**	mg/L	25.0	0.69	50	09/25/18 15:34	09/26/18 16:48	7440-70-2	D3
Chromium	ND	mg/L	0.010	0.0016	1	09/25/18 15:34	09/26/18 16:42	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	09/25/18 15:34	09/26/18 16:42	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	09/25/18 15:34	09/26/18 16:42	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	09/25/18 15:34	09/26/18 16:42	7439-92-1	
Nickel	ND	mg/L	0.010	0.00095	1	09/25/18 15:34	09/26/18 16:42	7440-02-0	
Selenium	ND	mg/L	0.010	0.0014	1	09/25/18 15:34	09/26/18 16:42	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	09/25/18 15:34	09/26/18 16:42	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	09/25/18 15:34	09/26/18 16:42	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	09/25/18 15:34	09/26/18 16:42	7440-62-2	
Zinc	**0.0039J**	mg/L	0.010	0.0021	1	09/25/18 15:34	09/26/18 16:42	7440-66-6	B
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	09/27/18 12:03	09/27/18 18:59	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**93.0**	mg/L	25.0	10.0	1		09/24/18 13:12		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**1.9**	mg/L	0.25	0.024	1		09/26/18 19:43	16887-00-6	
Fluoride	**0.12J**	mg/L	0.30	0.029	1		09/26/18 19:43	16984-48-8	
Sulfate	**1.6**	mg/L	1.0	0.017	1		09/26/18 19:43	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells 1+2
Pace Project No.: 269581

Sample: GWC-8RR **Lab ID: 269581005** Collected: 09/18/18 14:12 Received: 09/21/18 13:00 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	09/25/18 15:34	09/26/18 16:54	7440-36-0	
Arsenic	**0.0010J**	mg/L	0.0050	0.00057	1	09/25/18 15:34	09/26/18 16:54	7440-38-2	
Barium	**0.014**	mg/L	0.010	0.00078	1	09/25/18 15:34	09/26/18 16:54	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	09/25/18 15:34	09/26/18 16:54	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	09/25/18 15:34	09/26/18 16:54	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	09/25/18 15:34	09/26/18 16:54	7440-43-9	
Calcium	**20.8J**	mg/L	25.0	0.69	50	09/25/18 15:34	09/26/18 16:59	7440-70-2	D3
Chromium	ND	mg/L	0.010	0.0016	1	09/25/18 15:34	09/26/18 16:54	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	09/25/18 15:34	09/26/18 16:54	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	09/25/18 15:34	09/26/18 16:54	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	09/25/18 15:34	09/26/18 16:54	7439-92-1	
Nickel	ND	mg/L	0.010	0.00095	1	09/25/18 15:34	09/26/18 16:54	7440-02-0	
Selenium	ND	mg/L	0.010	0.0014	1	09/25/18 15:34	09/26/18 16:54	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	09/25/18 15:34	09/26/18 16:54	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	09/25/18 15:34	09/26/18 16:54	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	09/25/18 15:34	09/26/18 16:54	7440-62-2	
Zinc	**0.0028J**	mg/L	0.010	0.0021	1	09/25/18 15:34	09/26/18 16:54	7440-66-6	B
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	09/27/18 12:03	09/27/18 19:01	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**110**	mg/L	25.0	10.0	1		09/24/18 13:12		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**1.2**	mg/L	0.25	0.024	1		09/26/18 20:06	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		09/26/18 20:06	16984-48-8	
Sulfate	**0.90J**	mg/L	1.0	0.017	1		09/26/18 20:06	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells 1+2
Pace Project No.: 269581

Sample: GWC-9 **Lab ID: 269581006** Collected: 09/18/18 09:45 Received: 09/21/18 13:00 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	09/25/18 15:34	09/26/18 17:05	7440-36-0	
Arsenic	**0.00067J**	mg/L	0.0050	0.00057	1	09/25/18 15:34	09/26/18 17:05	7440-38-2	
Barium	**0.037**	mg/L	0.010	0.00078	1	09/25/18 15:34	09/26/18 17:05	7440-39-3	
Beryllium	**0.00013J**	mg/L	0.0030	0.000050	1	09/25/18 15:34	09/26/18 17:05	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	09/25/18 15:34	09/26/18 17:05	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	09/25/18 15:34	09/26/18 17:05	7440-43-9	
Calcium	**3.3**	mg/L	0.50	0.014	1	09/25/18 15:34	09/26/18 17:05	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	09/25/18 15:34	09/26/18 17:05	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	09/25/18 15:34	09/26/18 17:05	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	09/25/18 15:34	09/26/18 17:05	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	09/25/18 15:34	09/26/18 17:05	7439-92-1	
Nickel	ND	mg/L	0.010	0.00095	1	09/25/18 15:34	09/26/18 17:05	7440-02-0	
Selenium	ND	mg/L	0.010	0.0014	1	09/25/18 15:34	09/26/18 17:05	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	09/25/18 15:34	09/26/18 17:05	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	09/25/18 15:34	09/26/18 17:05	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	09/25/18 15:34	09/26/18 17:05	7440-62-2	
Zinc	**0.0050J**	mg/L	0.010	0.0021	1	09/25/18 15:34	09/26/18 17:05	7440-66-6	B
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	**0.000043J**	mg/L	0.00050	0.000036	1	09/27/18 12:03	09/27/18 19:08	7439-97-6	B
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**38.0**	mg/L	25.0	10.0	1		09/24/18 13:12		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**2.4**	mg/L	0.25	0.024	1		09/26/18 20:29	16887-00-6	
Fluoride	**0.11J**	mg/L	0.30	0.029	1		09/26/18 20:29	16984-48-8	
Sulfate	**2.6**	mg/L	1.0	0.017	1		09/26/18 20:29	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells 1+2
Pace Project No.: 269581

Sample: GWC-10 **Lab ID: 269581007** Collected: 09/18/18 11:20 Received: 09/21/18 13:00 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	09/25/18 15:34	09/26/18 18:32	7440-36-0	
Arsenic	**0.0011J**	mg/L	0.0050	0.00057	1	09/25/18 15:34	09/26/18 18:32	7440-38-2	
Barium	**0.020**	mg/L	0.010	0.00078	1	09/25/18 15:34	09/26/18 18:32	7440-39-3	
Beryllium	**0.000054J**	mg/L	0.0030	0.000050	1	09/25/18 15:34	09/26/18 18:32	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	09/25/18 15:34	09/26/18 18:32	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	09/25/18 15:34	09/26/18 18:32	7440-43-9	
Calcium	**36.7**	mg/L	25.0	0.69	50	09/25/18 15:34	09/26/18 18:38	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	09/25/18 15:34	09/26/18 18:32	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	09/25/18 15:34	09/26/18 18:32	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	09/25/18 15:34	09/26/18 18:32	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	09/25/18 15:34	09/26/18 18:32	7439-92-1	
Nickel	ND	mg/L	0.010	0.00095	1	09/25/18 15:34	09/26/18 18:32	7440-02-0	
Selenium	ND	mg/L	0.010	0.0014	1	09/25/18 15:34	09/26/18 18:32	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	09/25/18 15:34	09/26/18 18:32	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	09/25/18 15:34	09/26/18 18:32	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	09/25/18 15:34	09/26/18 18:32	7440-62-2	
Zinc	**0.0036J**	mg/L	0.010	0.0021	1	09/25/18 15:34	09/26/18 18:32	7440-66-6	B
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	09/27/18 12:03	09/27/18 19:10	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**155**	mg/L	25.0	10.0	1		09/24/18 13:12		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**2.4**	mg/L	0.25	0.024	1		09/26/18 20:51	16887-00-6	
Fluoride	**0.12J**	mg/L	0.30	0.029	1		09/26/18 20:51	16984-48-8	
Sulfate	**1.6**	mg/L	1.0	0.017	1		09/26/18 20:51	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells 1+2
Pace Project No.: 269581

Sample: GWC-10R **Lab ID: 269581008** Collected: 09/18/18 12:38 Received: 09/21/18 13:00 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	09/25/18 15:34	09/26/18 18:44	7440-36-0	
Arsenic	**0.00088J**	mg/L	0.0050	0.00057	1	09/25/18 15:34	09/26/18 18:44	7440-38-2	
Barium	**0.030**	mg/L	0.010	0.00078	1	09/25/18 15:34	09/26/18 18:44	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	09/25/18 15:34	09/26/18 18:44	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	09/25/18 15:34	09/26/18 18:44	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	09/25/18 15:34	09/26/18 18:44	7440-43-9	
Calcium	**45.4**	mg/L	25.0	0.69	50	09/25/18 15:34	09/26/18 18:49	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	09/25/18 15:34	09/26/18 18:44	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	09/25/18 15:34	09/26/18 18:44	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	09/25/18 15:34	09/26/18 18:44	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	09/25/18 15:34	09/26/18 18:44	7439-92-1	
Nickel	ND	mg/L	0.010	0.00095	1	09/25/18 15:34	09/26/18 18:44	7440-02-0	
Selenium	ND	mg/L	0.010	0.0014	1	09/25/18 15:34	09/26/18 18:44	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	09/25/18 15:34	09/26/18 18:44	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	09/25/18 15:34	09/26/18 18:44	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	09/25/18 15:34	09/26/18 18:44	7440-62-2	
Zinc	**0.0031J**	mg/L	0.010	0.0021	1	09/25/18 15:34	09/26/18 18:44	7440-66-6	B
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	09/27/18 12:03	09/27/18 19:13	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**155**	mg/L	25.0	10.0	1		09/24/18 13:12		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**2.5**	mg/L	0.25	0.024	1		09/26/18 21:14	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		09/26/18 21:14	16984-48-8	
Sulfate	**1.9**	mg/L	1.0	0.017	1		09/26/18 21:14	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells 1+2
Pace Project No.: 269581

Sample: GWC-11 **Lab ID: 269581009** Collected: 09/18/18 13:23 Received: 09/21/18 13:00 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	09/25/18 15:34	09/26/18 18:55	7440-36-0	
Arsenic	**0.00097J**	mg/L	0.0050	0.00057	1	09/25/18 15:34	09/26/18 18:55	7440-38-2	
Barium	**0.011**	mg/L	0.010	0.00078	1	09/25/18 15:34	09/26/18 18:55	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	09/25/18 15:34	09/26/18 18:55	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	09/25/18 15:34	09/26/18 18:55	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	09/25/18 15:34	09/26/18 18:55	7440-43-9	
Calcium	**17.6J**	mg/L	25.0	0.69	50	09/25/18 15:34	09/26/18 19:01	7440-70-2	D3
Chromium	**0.0081J**	mg/L	0.010	0.0016	1	09/25/18 15:34	09/26/18 18:55	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	09/25/18 15:34	09/26/18 18:55	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	09/25/18 15:34	09/26/18 18:55	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	09/25/18 15:34	09/26/18 18:55	7439-92-1	
Nickel	ND	mg/L	0.010	0.00095	1	09/25/18 15:34	09/26/18 18:55	7440-02-0	
Selenium	ND	mg/L	0.010	0.0014	1	09/25/18 15:34	09/26/18 18:55	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	09/25/18 15:34	09/26/18 18:55	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	09/25/18 15:34	09/26/18 18:55	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	09/25/18 15:34	09/26/18 18:55	7440-62-2	
Zinc	**0.0029J**	mg/L	0.010	0.0021	1	09/25/18 15:34	09/26/18 18:55	7440-66-6	B
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	09/27/18 12:03	09/27/18 19:15	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**106**	mg/L	25.0	10.0	1		09/24/18 13:12		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**1.5**	mg/L	0.25	0.024	1		09/26/18 23:09	16887-00-6	
Fluoride	**0.13J**	mg/L	0.30	0.029	1		09/26/18 23:09	16984-48-8	
Sulfate	**2.8**	mg/L	1.0	0.017	1		09/26/18 23:09	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells 1+2
Pace Project No.: 269581

Sample: GWC-11R **Lab ID: 269581010** Collected: 09/18/18 15:00 Received: 09/21/18 13:00 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	09/25/18 15:34	09/26/18 19:06	7440-36-0	
Arsenic	**0.0027J**	mg/L	0.0050	0.00057	1	09/25/18 15:34	09/26/18 19:06	7440-38-2	
Barium	**0.017**	mg/L	0.010	0.00078	1	09/25/18 15:34	09/26/18 19:06	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	09/25/18 15:34	09/26/18 19:06	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	09/25/18 15:34	09/26/18 19:06	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	09/25/18 15:34	09/26/18 19:06	7440-43-9	
Calcium	**26.3**	mg/L	25.0	0.69	50	09/25/18 15:34	09/26/18 19:12	7440-70-2	
Chromium	**0.0062J**	mg/L	0.010	0.0016	1	09/25/18 15:34	09/26/18 19:06	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	09/25/18 15:34	09/26/18 19:06	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	09/25/18 15:34	09/26/18 19:06	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	09/25/18 15:34	09/26/18 19:06	7439-92-1	
Nickel	ND	mg/L	0.010	0.00095	1	09/25/18 15:34	09/26/18 19:06	7440-02-0	
Selenium	ND	mg/L	0.010	0.0014	1	09/25/18 15:34	09/26/18 19:06	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	09/25/18 15:34	09/26/18 19:06	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	09/25/18 15:34	09/26/18 19:06	7440-28-0	
Vanadium	**0.0022J**	mg/L	0.010	0.0019	1	09/25/18 15:34	09/26/18 19:06	7440-62-2	
Zinc	**0.0030J**	mg/L	0.010	0.0021	1	09/25/18 15:34	09/26/18 19:06	7440-66-6	B
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	**0.000039J**	mg/L	0.00050	0.000036	1	09/27/18 12:03	09/27/18 19:17	7439-97-6	B
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**139**	mg/L	25.0	10.0	1		09/24/18 13:12		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**1.9**	mg/L	0.25	0.024	1		09/26/18 23:31	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		09/26/18 23:31	16984-48-8	
Sulfate	**2.6**	mg/L	1.0	0.017	1		09/26/18 23:31	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells 1+2
Pace Project No.: 269581

Sample: GWC-12 **Lab ID: 269581011** Collected: 09/18/18 14:20 Received: 09/21/18 13:00 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	09/25/18 15:34	09/26/18 19:35	7440-36-0	
Arsenic	**0.0064**	mg/L	0.0050	0.00057	1	09/25/18 15:34	09/26/18 19:35	7440-38-2	
Barium	**0.025**	mg/L	0.010	0.00078	1	09/25/18 15:34	09/26/18 19:35	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	09/25/18 15:34	09/26/18 19:35	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	09/25/18 15:34	09/26/18 19:35	7440-42-8	
Cadmium	**0.00057J**	mg/L	0.0010	0.000093	1	09/25/18 15:34	09/26/18 19:35	7440-43-9	
Calcium	**8.2**	mg/L	0.50	0.014	1	09/25/18 15:34	09/26/18 19:35	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	09/25/18 15:34	09/26/18 19:35	7440-47-3	
Cobalt	**0.0031J**	mg/L	0.010	0.00052	1	09/25/18 15:34	09/26/18 19:35	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	09/25/18 15:34	09/26/18 19:35	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	09/25/18 15:34	09/26/18 19:35	7439-92-1	
Nickel	**0.0024J**	mg/L	0.010	0.00095	1	09/25/18 15:34	09/26/18 19:35	7440-02-0	
Selenium	ND	mg/L	0.010	0.0014	1	09/25/18 15:34	09/26/18 19:35	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	09/25/18 15:34	09/26/18 19:35	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	09/25/18 15:34	09/26/18 19:35	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	09/25/18 15:34	09/26/18 19:35	7440-62-2	
Zinc	**0.013**	mg/L	0.010	0.0021	1	09/25/18 15:34	09/26/18 19:35	7440-66-6	B
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	**0.000037J**	mg/L	0.00050	0.000036	1	09/27/18 12:03	09/27/18 19:20	7439-97-6	B
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**73.0**	mg/L	25.0	10.0	1		09/24/18 13:12		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**1.3**	mg/L	0.25	0.024	1		09/27/18 00:17	16887-00-6	
Fluoride	**0.12J**	mg/L	0.30	0.029	1		09/27/18 00:17	16984-48-8	
Sulfate	**0.34J**	mg/L	1.0	0.017	1		09/27/18 00:17	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells 1+2
Pace Project No.: 269581

Sample: Dup-2 **Lab ID: 269581012** Collected: 09/18/18 00:00 Received: 09/21/18 13:00 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	09/25/18 15:34	09/26/18 19:47	7440-36-0	
Arsenic	**0.00079J**	mg/L	0.0050	0.00057	1	09/25/18 15:34	09/26/18 19:47	7440-38-2	
Barium	**0.040**	mg/L	0.010	0.00078	1	09/25/18 15:34	09/26/18 19:47	7440-39-3	
Beryllium	**0.00015J**	mg/L	0.0030	0.000050	1	09/25/18 15:34	09/26/18 19:47	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	09/25/18 15:34	09/26/18 19:47	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	09/25/18 15:34	09/26/18 19:47	7440-43-9	
Calcium	**3.4**	mg/L	0.50	0.014	1	09/25/18 15:34	09/26/18 19:47	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	09/25/18 15:34	09/26/18 19:47	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	09/25/18 15:34	09/26/18 19:47	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	09/25/18 15:34	09/26/18 19:47	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	09/25/18 15:34	09/26/18 19:47	7439-92-1	
Nickel	ND	mg/L	0.010	0.00095	1	09/25/18 15:34	09/26/18 19:47	7440-02-0	
Selenium	ND	mg/L	0.010	0.0014	1	09/25/18 15:34	09/26/18 19:47	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	09/25/18 15:34	09/26/18 19:47	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	09/25/18 15:34	09/26/18 19:47	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	09/25/18 15:34	09/26/18 19:47	7440-62-2	
Zinc	**0.0040J**	mg/L	0.010	0.0021	1	09/25/18 15:34	09/26/18 19:47	7440-66-6	B
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	**0.000039J**	mg/L	0.00050	0.000036	1	09/27/18 12:03	09/27/18 19:22	7439-97-6	B
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**44.0**	mg/L	25.0	10.0	1		09/24/18 13:12		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**2.4**	mg/L	0.25	0.024	1		09/27/18 00:40	16887-00-6	
Fluoride	**0.11J**	mg/L	0.30	0.029	1		09/27/18 00:40	16984-48-8	
Sulfate	**2.5**	mg/L	1.0	0.017	1		09/27/18 00:40	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
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ANALYTICAL RESULTS

Project: Plant Bowen cells 1+2
Pace Project No.: 269581

Sample: FBL091818 **Lab ID: 269581013** Collected: 09/18/18 15:04 Received: 09/21/18 13:00 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	09/25/18 15:34	09/26/18 19:58	7440-36-0	
Arsenic	**0.00072J**	mg/L	0.0050	0.00057	1	09/25/18 15:34	09/26/18 19:58	7440-38-2	
Barium	ND	mg/L	0.010	0.00078	1	09/25/18 15:34	09/26/18 19:58	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	09/25/18 15:34	09/26/18 19:58	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	09/25/18 15:34	09/26/18 19:58	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	09/25/18 15:34	09/26/18 19:58	7440-43-9	
Calcium	ND	mg/L	0.50	0.014	1	09/25/18 15:34	09/26/18 19:58	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	09/25/18 15:34	09/26/18 19:58	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	09/25/18 15:34	09/26/18 19:58	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	09/25/18 15:34	09/26/18 19:58	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	09/25/18 15:34	09/26/18 19:58	7439-92-1	
Nickel	ND	mg/L	0.010	0.00095	1	09/25/18 15:34	09/26/18 19:58	7440-02-0	
Selenium	ND	mg/L	0.010	0.0014	1	09/25/18 15:34	09/26/18 19:58	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	09/25/18 15:34	09/26/18 19:58	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	09/25/18 15:34	09/26/18 19:58	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	09/25/18 15:34	09/26/18 19:58	7440-62-2	
Zinc	**0.0023J**	mg/L	0.010	0.0021	1	09/25/18 15:34	09/26/18 19:58	7440-66-6	B
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	09/27/18 12:03	09/27/18 19:25	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	ND	mg/L	25.0	10.0	1		09/24/18 13:12		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**0.16J**	mg/L	0.25	0.024	1		09/27/18 01:03	16887-00-6	
Fluoride	**0.10J**	mg/L	0.30	0.029	1		09/27/18 01:03	16984-48-8	
Sulfate	ND	mg/L	1.0	0.017	1		09/27/18 01:03	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: Plant Bowen cells 1+2
Pace Project No.: 269581

Sample: EQBL091818 **Lab ID: 269581014** Collected: 09/18/18 15:08 Received: 09/21/18 13:00 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	09/25/18 15:34	09/26/18 20:04	7440-36-0	
Arsenic	**0.00077J**	mg/L	0.0050	0.00057	1	09/25/18 15:34	09/26/18 20:04	7440-38-2	
Barium	ND	mg/L	0.010	0.00078	1	09/25/18 15:34	09/26/18 20:04	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	09/25/18 15:34	09/26/18 20:04	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	09/25/18 15:34	09/26/18 20:04	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	09/25/18 15:34	09/26/18 20:04	7440-43-9	
Calcium	ND	mg/L	0.50	0.014	1	09/25/18 15:34	09/26/18 20:04	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	09/25/18 15:34	09/26/18 20:04	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	09/25/18 15:34	09/26/18 20:04	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	09/25/18 15:34	09/26/18 20:04	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	09/25/18 15:34	09/26/18 20:04	7439-92-1	
Nickel	ND	mg/L	0.010	0.00095	1	09/25/18 15:34	09/26/18 20:04	7440-02-0	
Selenium	ND	mg/L	0.010	0.0014	1	09/25/18 15:34	09/26/18 20:04	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	09/25/18 15:34	09/26/18 20:04	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	09/25/18 15:34	09/26/18 20:04	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	09/25/18 15:34	09/26/18 20:04	7440-62-2	
Zinc	**0.0027J**	mg/L	0.010	0.0021	1	09/25/18 15:34	09/26/18 20:04	7440-66-6	B
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	09/27/18 12:03	09/27/18 19:27	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	ND	mg/L	25.0	10.0	1		09/24/18 13:12		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**0.16J**	mg/L	0.25	0.024	1		09/27/18 01:26	16887-00-6	
Fluoride	**0.10J**	mg/L	0.30	0.029	1		09/27/18 01:26	16984-48-8	
Sulfate	**0.072J**	mg/L	1.0	0.017	1		09/27/18 01:26	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells 1+2
Pace Project No.: 269581

QC Batch: 14302 Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
Associated Lab Samples: 269581001, 269581002, 269581003, 269581004, 269581005, 269581006, 269581007, 269581008, 269581009, 269581010, 269581011, 269581012, 269581013, 269581014

METHOD BLANK: 63697 Matrix: Water
Associated Lab Samples: 269581001, 269581002, 269581003, 269581004, 269581005, 269581006, 269581007, 269581008, 269581009, 269581010, 269581011, 269581012, 269581013, 269581014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	0.000052J	0.00050	0.000036	09/27/18 18:39	

LABORATORY CONTROL SAMPLE: 63698

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	.0025	0.0024	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 63699 63700

Parameter	Units	269581001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	0.000041J	.0025	.0025	0.0025	0.0024	99	93	75-125	6	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
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QUALITY CONTROL DATA

Project: Plant Bowen cells 1+2
Pace Project No.: 269581

QC Batch: 14165 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020B MET
Associated Lab Samples: 269581001, 269581002, 269581003, 269581004, 269581005, 269581006, 269581007, 269581008, 269581009, 269581010, 269581011, 269581012, 269581013, 269581014

METHOD BLANK: 63049 Matrix: Water
Associated Lab Samples: 269581001, 269581002, 269581003, 269581004, 269581005, 269581006, 269581007, 269581008, 269581009, 269581010, 269581011, 269581012, 269581013, 269581014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	09/26/18 15:14	
Arsenic	mg/L	ND	0.0050	0.00057	09/26/18 15:14	
Barium	mg/L	ND	0.010	0.00078	09/26/18 15:14	
Beryllium	mg/L	ND	0.0030	0.000050	09/26/18 15:14	
Boron	mg/L	ND	0.040	0.0039	09/26/18 15:14	
Cadmium	mg/L	ND	0.0010	0.000093	09/26/18 15:14	
Calcium	mg/L	ND	0.50	0.014	09/26/18 15:14	
Chromium	mg/L	ND	0.010	0.0016	09/26/18 15:14	
Cobalt	mg/L	ND	0.010	0.00052	09/26/18 15:14	
Copper	mg/L	ND	0.025	0.0013	09/26/18 15:14	
Lead	mg/L	ND	0.0050	0.00027	09/26/18 15:14	
Nickel	mg/L	ND	0.010	0.00095	09/26/18 15:14	
Selenium	mg/L	ND	0.010	0.0014	09/26/18 15:14	
Silver	mg/L	ND	0.010	0.00095	09/26/18 15:14	
Thallium	mg/L	ND	0.0010	0.00014	09/26/18 15:14	
Vanadium	mg/L	ND	0.010	0.0019	09/26/18 15:14	
Zinc	mg/L	0.0023J	0.010	0.0021	09/26/18 15:14	

LABORATORY CONTROL SAMPLE: 63050

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	.1	0.11	106	80-120	
Arsenic	mg/L	.1	0.10	102	80-120	
Barium	mg/L	.1	0.10	102	80-120	
Beryllium	mg/L	.1	0.10	102	80-120	
Boron	mg/L	1	1.0	104	80-120	
Cadmium	mg/L	.1	0.099	99	80-120	
Calcium	mg/L	1	1.0	101	80-120	
Chromium	mg/L	.1	0.11	107	80-120	
Cobalt	mg/L	.1	0.11	106	80-120	
Copper	mg/L	.1	0.11	106	80-120	
Lead	mg/L	.1	0.10	102	80-120	
Nickel	mg/L	.1	0.11	106	80-120	
Selenium	mg/L	.1	0.10	104	80-120	
Silver	mg/L	.1	0.10	101	80-120	
Thallium	mg/L	.1	0.10	100	80-120	
Vanadium	mg/L	.1	0.11	109	80-120	
Zinc	mg/L	.1	0.10	104	80-120	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
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(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells 1+2
Pace Project No.: 269581

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 63051 63052

Parameter	Units	269581001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	.1	.1	0.10	0.10	101	104	75-125	3	20	
Arsenic	mg/L	0.0011J	.1	.1	0.10	0.10	98	98	75-125	0	20	
Barium	mg/L	0.032	.1	.1	0.13	0.13	94	98	75-125	3	20	
Beryllium	mg/L	ND	.1	.1	0.10	0.10	100	101	75-125	0	20	
Boron	mg/L	0.0096J	1	1	1.0	1.0	102	102	75-125	1	20	
Cadmium	mg/L	ND	.1	.1	0.096	0.099	96	99	75-125	3	20	
Calcium	mg/L	48.1	1	1	48.2	49.1	14	103	75-125	2	20	M6
Chromium	mg/L	ND	.1	.1	0.10	0.10	102	102	75-125	0	20	
Cobalt	mg/L	0.017	.1	.1	0.11	0.12	98	101	75-125	2	20	
Copper	mg/L	ND	.1	.1	0.097	0.10	96	100	75-125	4	20	
Lead	mg/L	ND	.1	.1	0.098	0.099	98	99	75-125	1	20	
Nickel	mg/L	ND	.1	.1	0.097	0.10	96	101	75-125	4	20	
Selenium	mg/L	ND	.1	.1	0.098	0.10	98	100	75-125	1	20	
Silver	mg/L	ND	.1	.1	0.094	0.098	94	98	75-125	3	20	
Thallium	mg/L	ND	.1	.1	0.097	0.10	97	99	75-125	3	20	
Vanadium	mg/L	ND	.1	.1	0.11	0.11	105	105	75-125	0	20	
Zinc	mg/L	0.0058J	.1	.1	0.099	0.10	94	96	75-125	2	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: Plant Bowen cells 1+2
Pace Project No.: 269581

QC Batch: 14076 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 269581001, 269581002, 269581003, 269581004, 269581005, 269581006, 269581007, 269581008, 269581009, 269581010, 269581011, 269581012, 269581013, 269581014

LABORATORY CONTROL SAMPLE: 62675

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	400	100	84-108	

SAMPLE DUPLICATE: 62676

Parameter	Units	269581001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	227	227	0	10	

SAMPLE DUPLICATE: 62677

Parameter	Units	269581010 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	139	139	0	10	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: Plant Bowen cells 1+2
Pace Project No.: 269581

QC Batch: 14190 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 269581001, 269581002, 269581003, 269581004, 269581005, 269581006, 269581007, 269581008, 269581009, 269581010, 269581011, 269581012, 269581013, 269581014

METHOD BLANK: 63150 Matrix: Water
Associated Lab Samples: 269581001, 269581002, 269581003, 269581004, 269581005, 269581006, 269581007, 269581008, 269581009, 269581010, 269581011, 269581012, 269581013, 269581014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	0.024	09/26/18 17:03	
Fluoride	mg/L	ND	0.30	0.029	09/26/18 17:03	
Sulfate	mg/L	ND	1.0	0.017	09/26/18 17:03	

LABORATORY CONTROL SAMPLE: 63151

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	10	10.3	103	90-110	
Fluoride	mg/L	10	10.0	100	90-110	
Sulfate	mg/L	10	10.7	107	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 63152 63153

Parameter	Units	269581001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	3.1	10	10	13.7	13.7	106	106	90-110	0	15	
Fluoride	mg/L	0.19J	10	10	10.3	10.3	101	101	90-110	0	15	
Sulfate	mg/L	22.8	10	10	31.0	31.1	82	83	90-110	0	15	M1

MATRIX SPIKE SAMPLE: 63154

Parameter	Units	269581002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	1.0	10	11.0	100	90-110	
Fluoride	mg/L	ND	10	9.8	98	90-110	
Sulfate	mg/L	0.87J	10	11.1	103	90-110	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALIFIERS

Project: Plant Bowen cells 1+2
Pace Project No.: 269581

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.
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.

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Bowen cells 1+2
Pace Project No.: 269581

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
269581001	GWA-4RZ	EPA 3005A	14165	EPA 6020B	14241
269581002	GWA-50R	EPA 3005A	14165	EPA 6020B	14241
269581003	GWC-7Z	EPA 3005A	14165	EPA 6020B	14241
269581004	GWC-8Z	EPA 3005A	14165	EPA 6020B	14241
269581005	GWC-8RR	EPA 3005A	14165	EPA 6020B	14241
269581006	GWC-9	EPA 3005A	14165	EPA 6020B	14241
269581007	GWC-10	EPA 3005A	14165	EPA 6020B	14241
269581008	GWC-10R	EPA 3005A	14165	EPA 6020B	14241
269581009	GWC-11	EPA 3005A	14165	EPA 6020B	14241
269581010	GWC-11R	EPA 3005A	14165	EPA 6020B	14241
269581011	GWC-12	EPA 3005A	14165	EPA 6020B	14241
269581012	Dup-2	EPA 3005A	14165	EPA 6020B	14241
269581013	FBL091818	EPA 3005A	14165	EPA 6020B	14241
269581014	EQBL091818	EPA 3005A	14165	EPA 6020B	14241
269581001	GWA-4RZ	EPA 7470A	14302	EPA 7470A	14352
269581002	GWA-50R	EPA 7470A	14302	EPA 7470A	14352
269581003	GWC-7Z	EPA 7470A	14302	EPA 7470A	14352
269581004	GWC-8Z	EPA 7470A	14302	EPA 7470A	14352
269581005	GWC-8RR	EPA 7470A	14302	EPA 7470A	14352
269581006	GWC-9	EPA 7470A	14302	EPA 7470A	14352
269581007	GWC-10	EPA 7470A	14302	EPA 7470A	14352
269581008	GWC-10R	EPA 7470A	14302	EPA 7470A	14352
269581009	GWC-11	EPA 7470A	14302	EPA 7470A	14352
269581010	GWC-11R	EPA 7470A	14302	EPA 7470A	14352
269581011	GWC-12	EPA 7470A	14302	EPA 7470A	14352
269581012	Dup-2	EPA 7470A	14302	EPA 7470A	14352
269581013	FBL091818	EPA 7470A	14302	EPA 7470A	14352
269581014	EQBL091818	EPA 7470A	14302	EPA 7470A	14352
269581001	GWA-4RZ	SM 2540C	14076		
269581002	GWA-50R	SM 2540C	14076		
269581003	GWC-7Z	SM 2540C	14076		
269581004	GWC-8Z	SM 2540C	14076		
269581005	GWC-8RR	SM 2540C	14076		
269581006	GWC-9	SM 2540C	14076		
269581007	GWC-10	SM 2540C	14076		
269581008	GWC-10R	SM 2540C	14076		
269581009	GWC-11	SM 2540C	14076		
269581010	GWC-11R	SM 2540C	14076		
269581011	GWC-12	SM 2540C	14076		
269581012	Dup-2	SM 2540C	14076		
269581013	FBL091818	SM 2540C	14076		
269581014	EQBL091818	SM 2540C	14076		
269581001	GWA-4RZ	EPA 300.0	14190		
269581002	GWA-50R	EPA 300.0	14190		
269581003	GWC-7Z	EPA 300.0	14190		
269581004	GWC-8Z	EPA 300.0	14190		
269581005	GWC-8RR	EPA 300.0	14190		

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Bowen cells 1+2
Pace Project No.: 269581

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
269581006	**GWC-9**	EPA 300.0	14190		
269581007	**GWC-10**	EPA 300.0	14190		
269581008	**GWC-10R**	EPA 300.0	14190		
269581009	**GWC-11**	EPA 300.0	14190		
269581010	**GWC-11R**	EPA 300.0	14190		
269581011	**GWC-12**	EPA 300.0	14190		
269581012	**Dup-2**	EPA 300.0	14190		
269581013	**FBL091818**	EPA 300.0	14190		
269581014	**EQBL091818**	EPA 300.0	14190		

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Georgia Power - Coal Combustion Residuals	Report To:	Joju Abraham	Attention:	scsinvoices@southernco.com
Address:	2480 Maner Road	Copy To:	Wood Environmental	Company Name:	
	Atlanta, GA 30339			Address:	
Email:	jebraham@southernco.com	Purchase Order #:	SCS10348606	Pace Quote:	
Phone:	(404)506-7239 Fax	Project Name:	Plant Bowen Cells - State List	Pace Project Manager:	betsy.mcdaniel@pacelabs.com
Requested Due Date:		Project #:	Cells 1 & 2	Pace Profile #:	317 5

Regulatory Agency	
State / Location	GA

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Requested Analysis Filtered (Y/N): Y/N	Analyses Test: TDS, Cl, F, SO4	Metals 6020 *	Hg EPA 7470	Residual Chlorine (Y/N)
	MATRIX: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS																	N	N	N	N	
1	GWA-4RZ	WT	G	9/18/18	0913				2	1		1						X	X	X		
2	GWA-50R	WT	G	9/18/18	1049				2	1		1						X	X	X		
3	GWC-7Z	WT	G	9/18/18	1020				2	1		1						X	X	X		
4	GWC-8Z	WT	G	9/18/18	1302				2	1		1						X	X	X		
5	GWC-8RR	WT	G	9/18/18	1412				2	1		1						X	X	X		
6	GWC-9	WT	G	9/18/18	0945				2	1		1						X	X	X		
7	GWC-10	WT	G	9/18/18	1120				2	1		1						X	X	X		
8	GWC-10R	WT	G	9/18/18	1238				2	1		1						X	X	X		
9	GWC-11	WT	G	9/18/18	1323				2	1		1						X	X	X		
10	GWC-11R	WT	G	9/18/18	1500				2	1		1						X	X	X		
11	GWC-12	WT	G	9/18/18	1420				2	1		1						X	X	X		
12	DUP-2	WT	G	9/18/18	—				2	1		1						X	X	X		

WO# : 269581

269581

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
* Metals State List: Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Pb, Mg, Mn, Ni, K, Se, Ag, Na, Tl, V, Zn VF 9/18	Kevin Stephenson	9/21/18	0954	Mitch Nguyen/Pace	9/21/18	0954				
				M Dahman	09/21/18	1300				
							0.2	Y	Y	Y

VF 9/18

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kevin Stephenson, Audrey Crafton, Veronica Fay

SIGNATURE of SAMPLER: Veronica Fay DATE Signed: 9/18/18

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Georgia Power - Coal Combustion Residuals	Report To:	Joju Abraham	Attention:	scsinvoices@southernco.com
Address:	2480 Maner Road	Copy To:	Wood Environmental	Company Name:	
	Atlanta, GA 30339			Address:	
Email:	jabraham@southernco.com	Purchase Order #:	SCS10348606	Pace Quote:	
Phone:	(404)506-7239 Fax	Project Name:	Plant Bowen Cells - State List	Pace Project Manager:	betsy mcdaniel@pacelabs.com
Requested Due Date:		Project #:	Cells 1&2	Pace Profile #:	317 5

Regulatory Agency	
State / Location	GA

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Requested Analysis Filtered (Y/N) Y/N	Analyses Test: TDS, Cl, F, SO4	Metals 6020 *	Hg EPA 7470	Residual Chlorine (Y/N)
	MATRIX: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS																	Y	N	N	N	
1	FBL091818	WT	G	9/18/18	1504				2	1		1							X	X	X	
2	EQBL091818	WT	G	9/18/18	1508				2	1		1							X	X	X	
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						

WO# : 269581

PM: BM Due Date: 09/28/18

CLIENT: GAPower-CCR

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
* Metals State List: Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Pb, Mg, Mn, Ni, K, Se, Ag, Sr, Tl, V, Zn VF 9/18 VF 9/18	Kevin Stephenson	9/21/18	0954	Mike Haynes/Pace	9/21/18	0954				
				M Zaliman	09/21/18	1300				
							6.2	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kevin Stephenson, Audrey Crafton, Veronica Fay

SIGNATURE of SAMPLER: Veronica Fay DATE Signed: 9/18/18

Sample Condition Upon Receipt

Pace Analytical

Client Name: GA Power Project #

WO#: 269581

PM: BM **Due Date: 09/28/18**

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: 9/21/18 MP

Comments:

Chain of Custody Present:	☑Yes	☐No	☐N/A	1.
Chain of Custody Filled Out:	☑Yes	☐No	☐N/A	2.
Chain of Custody Relinquished:	☑Yes	☐No	☐N/A	3.
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☑Yes	☐No	☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes	☑No	☐N/A	6.
Rush Turn Around Time Requested:	☐Yes	☑No	☐N/A	7.
Sufficient Volume:	☑Yes	☐No	☐N/A	8.
Correct Containers Used:	☑Yes	☐No	☐N/A	9.
-Pace Containers Used:	☑Yes	☐No	☐N/A	
Containers Intact:	☑Yes	☐No	☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☑N/A	11.
Sample Labels match COC:	☑Yes	☐No	☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W				
All containers needing preservation have been checked.	☑Yes	☐No	☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes	☐No	☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes	☑No		Initial when completed / Lot # of added preservative
Samples checked for dechlorination:	☐Yes	☐No	☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☑N/A	15.
Trip Blank Present:	☐Yes	☐No	☑N/A	16.
Trip Blank Custody Seals Present	☐Yes	☐No	☑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)

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

September 14, 2018

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

RE: Project: Plant Bowen cells
Pace Project No.: 269032

Dear Joju Abraham:
Enclosed are the analytical results for sample(s) received by the laboratory on September 07, 2018. 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: Maria Padilla, Georgia Power
Rebecca Thornton, Pace Analytical Atlanta
Greg Wrenn, Wood PLC

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

CERTIFICATIONS

Project: Plant Bowen cells
Pace Project No.: 269032

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
Texas Certification #: T104704397-08-TX
Virginia Certification #: 460204

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE SUMMARY

Project: Plant Bowen cells
Pace Project No.: 269032

Lab ID	Sample ID	Matrix	Date Collected	Date Received
269032001	**GWA-36**	Water	09/06/18 10:14	09/07/18 16:40
269032002	**GWA-37**	Water	09/06/18 10:50	09/07/18 16:40
269032003	**GWA-36R**	Water	09/06/18 11:16	09/07/18 16:40
269032004	**GWA-38**	Water	09/06/18 12:11	09/07/18 16:40
269032005	**GWA-52**	Water	09/06/18 14:25	09/07/18 16:40
269032006	**GWA-54**	Water	09/06/18 15:30	09/07/18 16:40
269032007	**Dup-1**	Water	09/06/18 00:00	09/07/18 16:40
269032008	**EQBL090618**	Water	09/06/18 15:25	09/07/18 16:40
269032009	**FBL090618**	Water	09/06/18 15:25	09/07/18 16:40

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE ANALYTE COUNT

Project: Plant Bowen cells
Pace Project No.: 269032

Lab ID	Sample ID	Method	Analysts	Analytes Reported
269032001	**GWA-36**	EPA 6020B	CSW	20
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
269032002	**GWA-37**	EPA 6020B	CSW	20
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
269032003	**GWA-36R**	EPA 6020B	CSW	20
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
269032004	**GWA-38**	EPA 6020B	CSW	20
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
269032005	**GWA-52**	EPA 6020B	CSW	20
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
269032006	**GWA-54**	EPA 6020B	CSW	20
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
269032007	**Dup-1**	EPA 6020B	CSW	20
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
269032008	**EQBL090618**	EPA 6020B	CSW	20
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
269032009	**FBL090618**	EPA 6020B	CSW	20
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells
Pace Project No.: 269032

Sample: GWA-36 **Lab ID: 269032001** Collected: 09/06/18 10:14 Received: 09/07/18 16:40 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	09/11/18 12:54	09/11/18 18:25	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	09/11/18 12:54	09/11/18 18:25	7440-38-2	
Barium	**0.013**	mg/L	0.010	0.00078	1	09/11/18 12:54	09/11/18 18:25	7440-39-3	
Beryllium	**0.00015J**	mg/L	0.0030	0.000050	1	09/11/18 12:54	09/11/18 18:25	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	09/11/18 12:54	09/11/18 18:25	7440-42-8	
Cadmium	**0.00086J**	mg/L	0.0010	0.000093	1	09/11/18 12:54	09/11/18 18:25	7440-43-9	
Calcium	**13.5J**	mg/L	25.0	0.69	50	09/11/18 12:54	09/11/18 18:31	7440-70-2	D3
Chromium	ND	mg/L	0.010	0.0016	1	09/11/18 12:54	09/11/18 18:25	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	09/11/18 12:54	09/11/18 18:25	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	09/11/18 12:54	09/11/18 18:25	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	09/11/18 12:54	09/11/18 18:25	7439-92-1	
Magnesium	**8.0**	mg/L	0.050	0.0062	1	09/11/18 12:54	09/11/18 18:25	7439-95-4	
Nickel	ND	mg/L	0.010	0.00095	1	09/11/18 12:54	09/11/18 18:25	7440-02-0	
Potassium	**0.50**	mg/L	0.10	0.035	1	09/11/18 12:54	09/11/18 18:25	7440-09-7	
Selenium	ND	mg/L	0.010	0.0014	1	09/11/18 12:54	09/11/18 18:25	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	09/11/18 12:54	09/11/18 18:25	7440-22-4	
Sodium	**3.7**	mg/L	0.10	0.015	1	09/11/18 12:54	09/11/18 18:25	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00014	1	09/11/18 12:54	09/11/18 18:25	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	09/11/18 12:54	09/11/18 18:25	7440-62-2	
Zinc	**0.37**	mg/L	0.010	0.0021	1	09/11/18 12:54	09/11/18 18:25	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	09/11/18 11:03	09/11/18 14:38	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**107**	mg/L	25.0	10.0	1		09/10/18 13:28		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**2.0**	mg/L	0.25	0.024	1		09/11/18 12:54	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		09/11/18 12:54	16984-48-8	
Sulfate	**0.80J**	mg/L	1.0	0.017	1		09/11/18 12:54	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells
Pace Project No.: 269032

Sample: GWA-37 **Lab ID: 269032002** Collected: 09/06/18 10:50 Received: 09/07/18 16:40 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	**0.0024J**	mg/L	0.0030	0.00078	1	09/11/18 12:54	09/11/18 18:37	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	09/11/18 12:54	09/11/18 18:37	7440-38-2	
Barium	**0.0058J**	mg/L	0.010	0.00078	1	09/11/18 12:54	09/11/18 18:37	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	09/11/18 12:54	09/11/18 18:37	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	09/11/18 12:54	09/11/18 18:37	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	09/11/18 12:54	09/11/18 18:37	7440-43-9	
Calcium	**0.79**	mg/L	0.50	0.014	1	09/11/18 12:54	09/11/18 18:37	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	09/11/18 12:54	09/11/18 18:37	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	09/11/18 12:54	09/11/18 18:37	7440-48-4	
Copper	**0.0054J**	mg/L	0.025	0.0013	1	09/11/18 12:54	09/11/18 18:37	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	09/11/18 12:54	09/11/18 18:37	7439-92-1	
Magnesium	**0.32**	mg/L	0.050	0.0062	1	09/11/18 12:54	09/11/18 18:37	7439-95-4	
Nickel	**0.0069J**	mg/L	0.010	0.00095	1	09/11/18 12:54	09/11/18 18:37	7440-02-0	
Potassium	**0.63**	mg/L	0.10	0.035	1	09/11/18 12:54	09/11/18 18:37	7440-09-7	
Selenium	ND	mg/L	0.010	0.0014	1	09/11/18 12:54	09/11/18 18:37	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	09/11/18 12:54	09/11/18 18:37	7440-22-4	
Sodium	**2.7**	mg/L	0.10	0.015	1	09/11/18 12:54	09/11/18 18:37	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00014	1	09/11/18 12:54	09/11/18 18:37	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	09/11/18 12:54	09/11/18 18:37	7440-62-2	
Zinc	**0.0056J**	mg/L	0.010	0.0021	1	09/11/18 12:54	09/11/18 18:37	7440-66-6	B
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	09/11/18 11:03	09/11/18 14:40	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**34.0**	mg/L	25.0	10.0	1		09/10/18 13:28		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**1.0**	mg/L	0.25	0.024	1		09/11/18 13:56	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		09/11/18 13:56	16984-48-8	
Sulfate	**0.37J**	mg/L	1.0	0.017	1		09/11/18 13:56	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells
Pace Project No.: 269032

Sample: GWA-36R **Lab ID: 269032003** Collected: 09/06/18 11:16 Received: 09/07/18 16:40 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	09/11/18 12:54	09/11/18 18:48	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	09/11/18 12:54	09/11/18 18:48	7440-38-2	
Barium	**0.024**	mg/L	0.010	0.00078	1	09/11/18 12:54	09/11/18 18:48	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	09/11/18 12:54	09/11/18 18:48	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	09/11/18 12:54	09/11/18 18:48	7440-42-8	
Cadmium	**0.00011J**	mg/L	0.0010	0.000093	1	09/11/18 12:54	09/11/18 18:48	7440-43-9	
Calcium	**26.1**	mg/L	25.0	0.69	50	09/11/18 12:54	09/11/18 18:54	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	09/11/18 12:54	09/11/18 18:48	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	09/11/18 12:54	09/11/18 18:48	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	09/11/18 12:54	09/11/18 18:48	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	09/11/18 12:54	09/11/18 18:48	7439-92-1	
Magnesium	**15.0**	mg/L	2.5	0.31	50	09/11/18 12:54	09/11/18 18:54	7439-95-4	
Nickel	ND	mg/L	0.010	0.00095	1	09/11/18 12:54	09/11/18 18:48	7440-02-0	
Potassium	**1.0**	mg/L	0.10	0.035	1	09/11/18 12:54	09/11/18 18:48	7440-09-7	
Selenium	ND	mg/L	0.010	0.0014	1	09/11/18 12:54	09/11/18 18:48	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	09/11/18 12:54	09/11/18 18:48	7440-22-4	
Sodium	**2.3**	mg/L	0.10	0.015	1	09/11/18 12:54	09/11/18 18:48	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00014	1	09/11/18 12:54	09/11/18 18:48	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	09/11/18 12:54	09/11/18 18:48	7440-62-2	
Zinc	**0.045**	mg/L	0.010	0.0021	1	09/11/18 12:54	09/11/18 18:48	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	**0.000036J**	mg/L	0.00050	0.000036	1	09/11/18 11:03	09/11/18 14:42	7439-97-6	B
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**155**	mg/L	25.0	10.0	1		09/10/18 13:28		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**2.7**	mg/L	0.25	0.024	1		09/11/18 14:16	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		09/11/18 14:16	16984-48-8	
Sulfate	**1.5**	mg/L	1.0	0.017	1		09/11/18 14:16	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells
Pace Project No.: 269032

Sample: GWA-38 **Lab ID: 269032004** Collected: 09/06/18 12:11 Received: 09/07/18 16:40 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	09/11/18 12:54	09/11/18 19:00	7440-36-0	
Arsenic	**0.00071J**	mg/L	0.0050	0.00057	1	09/11/18 12:54	09/11/18 19:00	7440-38-2	
Barium	**0.011**	mg/L	0.010	0.00078	1	09/11/18 12:54	09/11/18 19:00	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	09/11/18 12:54	09/11/18 19:00	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	09/11/18 12:54	09/11/18 19:00	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	09/11/18 12:54	09/11/18 19:00	7440-43-9	
Calcium	**1.6**	mg/L	0.50	0.014	1	09/11/18 12:54	09/11/18 19:00	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	09/11/18 12:54	09/11/18 19:00	7440-47-3	
Cobalt	**0.00094J**	mg/L	0.010	0.00052	1	09/11/18 12:54	09/11/18 19:00	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	09/11/18 12:54	09/11/18 19:00	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	09/11/18 12:54	09/11/18 19:00	7439-92-1	
Magnesium	**0.37**	mg/L	0.050	0.0062	1	09/11/18 12:54	09/11/18 19:00	7439-95-4	
Nickel	ND	mg/L	0.010	0.00095	1	09/11/18 12:54	09/11/18 19:00	7440-02-0	
Potassium	**0.40**	mg/L	0.10	0.035	1	09/11/18 12:54	09/11/18 19:00	7440-09-7	
Selenium	ND	mg/L	0.010	0.0014	1	09/11/18 12:54	09/11/18 19:00	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	09/11/18 12:54	09/11/18 19:00	7440-22-4	
Sodium	**4.4**	mg/L	0.10	0.015	1	09/11/18 12:54	09/11/18 19:00	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00014	1	09/11/18 12:54	09/11/18 19:00	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	09/11/18 12:54	09/11/18 19:00	7440-62-2	
Zinc	**0.0033J**	mg/L	0.010	0.0021	1	09/11/18 12:54	09/11/18 19:00	7440-66-6	B
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	09/11/18 11:03	09/11/18 14:50	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**36.0**	mg/L	25.0	10.0	1		09/10/18 13:28		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**2.7**	mg/L	0.25	0.024	1		09/11/18 14:37	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		09/11/18 14:37	16984-48-8	
Sulfate	**1.4**	mg/L	1.0	0.017	1		09/11/18 14:37	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells
Pace Project No.: 269032

Sample: GWA-52 **Lab ID: 269032005** Collected: 09/06/18 14:25 Received: 09/07/18 16:40 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	09/11/18 12:54	09/11/18 19:22	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	09/11/18 12:54	09/11/18 19:22	7440-38-2	
Barium	**0.024**	mg/L	0.010	0.00078	1	09/11/18 12:54	09/11/18 19:22	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	09/11/18 12:54	09/11/18 19:22	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	09/11/18 12:54	09/11/18 19:22	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	09/11/18 12:54	09/11/18 19:22	7440-43-9	
Calcium	**27.9**	mg/L	25.0	0.69	50	09/11/18 12:54	09/11/18 19:28	7440-70-2	M6
Chromium	ND	mg/L	0.010	0.0016	1	09/11/18 12:54	09/11/18 19:22	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	09/11/18 12:54	09/11/18 19:22	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	09/11/18 12:54	09/11/18 19:22	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	09/11/18 12:54	09/11/18 19:22	7439-92-1	
Magnesium	**15.4**	mg/L	2.5	0.31	50	09/11/18 12:54	09/11/18 19:28	7439-95-4	M1
Nickel	ND	mg/L	0.010	0.00095	1	09/11/18 12:54	09/11/18 19:22	7440-02-0	
Potassium	**1.1**	mg/L	0.10	0.035	1	09/11/18 12:54	09/11/18 19:22	7440-09-7	
Selenium	ND	mg/L	0.010	0.0014	1	09/11/18 12:54	09/11/18 19:22	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	09/11/18 12:54	09/11/18 19:22	7440-22-4	
Sodium	**4.7**	mg/L	0.10	0.015	1	09/11/18 12:54	09/11/18 19:22	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00014	1	09/11/18 12:54	09/11/18 19:22	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	09/11/18 12:54	09/11/18 19:22	7440-62-2	
Zinc	**0.0027J**	mg/L	0.010	0.0021	1	09/11/18 12:54	09/11/18 19:22	7440-66-6	B
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	09/11/18 11:03	09/11/18 14:52	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**160**	mg/L	25.0	10.0	1		09/10/18 13:29		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**1.9**	mg/L	0.25	0.024	1		09/11/18 14:57	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		09/11/18 14:57	16984-48-8	
Sulfate	**7.2**	mg/L	1.0	0.017	1		09/11/18 14:57	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells
Pace Project No.: 269032

Sample: GWA-54 **Lab ID: 269032006** Collected: 09/06/18 15:30 Received: 09/07/18 16:40 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	**0.0010J**	mg/L	0.0030	0.00078	1	09/11/18 12:54	09/11/18 20:02	7440-36-0	
Arsenic	**0.00057J**	mg/L	0.0050	0.00057	1	09/11/18 12:54	09/11/18 20:02	7440-38-2	
Barium	**0.040**	mg/L	0.010	0.00078	1	09/11/18 12:54	09/11/18 20:02	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	09/11/18 12:54	09/11/18 20:02	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	09/11/18 12:54	09/11/18 20:02	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	09/11/18 12:54	09/11/18 20:02	7440-43-9	
Calcium	**25.6**	mg/L	25.0	0.69	50	09/11/18 12:54	09/11/18 20:08	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	09/11/18 12:54	09/11/18 20:02	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	09/11/18 12:54	09/11/18 20:02	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	09/11/18 12:54	09/11/18 20:02	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	09/11/18 12:54	09/11/18 20:02	7439-92-1	
Magnesium	**15.2**	mg/L	2.5	0.31	50	09/11/18 12:54	09/11/18 20:08	7439-95-4	
Nickel	ND	mg/L	0.010	0.00095	1	09/11/18 12:54	09/11/18 20:02	7440-02-0	
Potassium	**0.95**	mg/L	0.10	0.035	1	09/11/18 12:54	09/11/18 20:02	7440-09-7	
Selenium	ND	mg/L	0.010	0.0014	1	09/11/18 12:54	09/11/18 20:02	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	09/11/18 12:54	09/11/18 20:02	7440-22-4	
Sodium	**3.2**	mg/L	0.10	0.015	1	09/11/18 12:54	09/11/18 20:02	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00014	1	09/11/18 12:54	09/11/18 20:02	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	09/11/18 12:54	09/11/18 20:02	7440-62-2	
Zinc	**0.0035J**	mg/L	0.010	0.0021	1	09/11/18 12:54	09/11/18 20:02	7440-66-6	B
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	09/11/18 11:03	09/11/18 14:54	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**135**	mg/L	25.0	10.0	1		09/10/18 13:29		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**1.1**	mg/L	0.25	0.024	1		09/11/18 15:18	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		09/11/18 15:18	16984-48-8	
Sulfate	**3.5**	mg/L	1.0	0.017	1		09/11/18 15:18	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells
Pace Project No.: 269032

Sample: Dup-1 **Lab ID: 269032007** Collected: 09/06/18 00:00 Received: 09/07/18 16:40 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	09/11/18 12:54	09/11/18 20:25	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	09/11/18 12:54	09/11/18 20:25	7440-38-2	
Barium	**0.024**	mg/L	0.010	0.00078	1	09/11/18 12:54	09/11/18 20:25	7440-39-3	
Beryllium	**0.000050J**	mg/L	0.0030	0.000050	1	09/11/18 12:54	09/11/18 20:25	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	09/11/18 12:54	09/11/18 20:25	7440-42-8	
Cadmium	**0.00017J**	mg/L	0.0010	0.000093	1	09/11/18 12:54	09/11/18 20:25	7440-43-9	
Calcium	**27.3**	mg/L	25.0	0.69	50	09/11/18 12:54	09/11/18 20:31	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	09/11/18 12:54	09/11/18 20:25	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	09/11/18 12:54	09/11/18 20:25	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	09/11/18 12:54	09/11/18 20:25	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	09/11/18 12:54	09/11/18 20:25	7439-92-1	
Magnesium	**15.7**	mg/L	2.5	0.31	50	09/11/18 12:54	09/11/18 20:31	7439-95-4	
Nickel	ND	mg/L	0.010	0.00095	1	09/11/18 12:54	09/11/18 20:25	7440-02-0	
Potassium	**1.1**	mg/L	0.10	0.035	1	09/11/18 12:54	09/11/18 20:25	7440-09-7	
Selenium	ND	mg/L	0.010	0.0014	1	09/11/18 12:54	09/11/18 20:25	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	09/11/18 12:54	09/11/18 20:25	7440-22-4	
Sodium	**2.5**	mg/L	0.10	0.015	1	09/11/18 12:54	09/11/18 20:25	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00014	1	09/11/18 12:54	09/11/18 20:25	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	09/11/18 12:54	09/11/18 20:25	7440-62-2	
Zinc	**0.045**	mg/L	0.010	0.0021	1	09/11/18 12:54	09/11/18 20:25	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	09/11/18 11:03	09/11/18 14:57	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**149**	mg/L	25.0	10.0	1		09/10/18 13:29		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**2.9**	mg/L	0.25	0.024	1		09/11/18 15:39	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		09/11/18 15:39	16984-48-8	
Sulfate	**1.4**	mg/L	1.0	0.017	1		09/11/18 15:39	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells
Pace Project No.: 269032

Sample: EQBL090618 **Lab ID: 269032008** Collected: 09/06/18 15:25 Received: 09/07/18 16:40 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	09/11/18 12:54	09/11/18 20:37	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	09/11/18 12:54	09/11/18 20:37	7440-38-2	
Barium	ND	mg/L	0.010	0.00078	1	09/11/18 12:54	09/11/18 20:37	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	09/11/18 12:54	09/11/18 20:37	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	09/11/18 12:54	09/11/18 20:37	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	09/11/18 12:54	09/11/18 20:37	7440-43-9	
Calcium	**0.050J**	mg/L	0.50	0.014	1	09/11/18 12:54	09/11/18 20:37	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	09/11/18 12:54	09/11/18 20:37	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	09/11/18 12:54	09/11/18 20:37	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	09/11/18 12:54	09/11/18 20:37	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	09/11/18 12:54	09/11/18 20:37	7439-92-1	
Magnesium	ND	mg/L	0.050	0.0062	1	09/11/18 12:54	09/11/18 20:37	7439-95-4	
Nickel	ND	mg/L	0.010	0.00095	1	09/11/18 12:54	09/11/18 20:37	7440-02-0	
Potassium	ND	mg/L	0.10	0.035	1	09/11/18 12:54	09/11/18 20:37	7440-09-7	
Selenium	ND	mg/L	0.010	0.0014	1	09/11/18 12:54	09/11/18 20:37	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	09/11/18 12:54	09/11/18 20:37	7440-22-4	
Sodium	**0.024J**	mg/L	0.10	0.015	1	09/11/18 12:54	09/11/18 20:37	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00014	1	09/11/18 12:54	09/11/18 20:37	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	09/11/18 12:54	09/11/18 20:37	7440-62-2	
Zinc	**0.0038J**	mg/L	0.010	0.0021	1	09/11/18 12:54	09/11/18 20:37	7440-66-6	B
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	09/11/18 11:03	09/11/18 14:59	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**18.0J**	mg/L	25.0	10.0	1		09/10/18 13:29		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**0.072J**	mg/L	0.25	0.024	1		09/11/18 15:59	16887-00-6	B
Fluoride	ND	mg/L	0.30	0.029	1		09/11/18 15:59	16984-48-8	
Sulfate	ND	mg/L	1.0	0.017	1		09/11/18 15:59	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells
Pace Project No.: 269032

Sample: FBL090618 **Lab ID: 269032009** Collected: 09/06/18 15:25 Received: 09/07/18 16:40 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	09/11/18 12:54	09/11/18 20:42	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	09/11/18 12:54	09/11/18 20:42	7440-38-2	
Barium	ND	mg/L	0.010	0.00078	1	09/11/18 12:54	09/11/18 20:42	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	09/11/18 12:54	09/11/18 20:42	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	09/11/18 12:54	09/11/18 20:42	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	09/11/18 12:54	09/11/18 20:42	7440-43-9	
Calcium	ND	mg/L	0.50	0.014	1	09/11/18 12:54	09/11/18 20:42	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	09/11/18 12:54	09/11/18 20:42	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	09/11/18 12:54	09/11/18 20:42	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	09/11/18 12:54	09/11/18 20:42	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	09/11/18 12:54	09/11/18 20:42	7439-92-1	
Magnesium	ND	mg/L	0.050	0.0062	1	09/11/18 12:54	09/11/18 20:42	7439-95-4	
Nickel	ND	mg/L	0.010	0.00095	1	09/11/18 12:54	09/11/18 20:42	7440-02-0	
Potassium	ND	mg/L	0.10	0.035	1	09/11/18 12:54	09/11/18 20:42	7440-09-7	
Selenium	ND	mg/L	0.010	0.0014	1	09/11/18 12:54	09/11/18 20:42	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	09/11/18 12:54	09/11/18 20:42	7440-22-4	
Sodium	ND	mg/L	0.10	0.015	1	09/11/18 12:54	09/11/18 20:42	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00014	1	09/11/18 12:54	09/11/18 20:42	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	09/11/18 12:54	09/11/18 20:42	7440-62-2	
Zinc	**0.0032J**	mg/L	0.010	0.0021	1	09/11/18 12:54	09/11/18 20:42	7440-66-6	B
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	09/11/18 11:05	09/11/18 15:54	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**16.0J**	mg/L	25.0	10.0	1		09/10/18 13:29		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**0.083J**	mg/L	0.25	0.024	1		09/11/18 17:43	16887-00-6	B
Fluoride	ND	mg/L	0.30	0.029	1		09/11/18 17:43	16984-48-8	
Sulfate	ND	mg/L	1.0	0.017	1		09/11/18 17:43	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells
Pace Project No.: 269032

QC Batch: 13194 Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
Associated Lab Samples: 269032001, 269032002, 269032003, 269032004, 269032005, 269032006, 269032007, 269032008

METHOD BLANK: 58696 Matrix: Water
Associated Lab Samples: 269032001, 269032002, 269032003, 269032004, 269032005, 269032006, 269032007, 269032008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	0.00010J	0.00050	0.000036	09/11/18 14:23	

LABORATORY CONTROL SAMPLE: 58697

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	.0025	0.0024	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 58698 58699

Parameter	Units	269034003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	0.000037J	.0025	.0025	0.0025	0.0024	99	96	75-125	3	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells
Pace Project No.: 269032

QC Batch: 13217 Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
Associated Lab Samples: 269032009

METHOD BLANK: 58764 Matrix: Water
Associated Lab Samples: 269032009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00050	0.000036	09/11/18 15:35	

LABORATORY CONTROL SAMPLE: 58765

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	.0025	0.0023	92	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 58766 58767

Parameter	Units	269033001 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	.0025	.0025	0.0021	0.0022	83	88	75-125	6	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells
Pace Project No.: 269032

QC Batch: 13246 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020B MET
Associated Lab Samples: 269032001, 269032002, 269032003, 269032004, 269032005, 269032006, 269032007, 269032008, 269032009

METHOD BLANK: 58871 Matrix: Water
Associated Lab Samples: 269032001, 269032002, 269032003, 269032004, 269032005, 269032006, 269032007, 269032008, 269032009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	09/11/18 18:14	
Arsenic	mg/L	ND	0.0050	0.00057	09/11/18 18:14	
Barium	mg/L	ND	0.010	0.00078	09/11/18 18:14	
Beryllium	mg/L	ND	0.0030	0.000050	09/11/18 18:14	
Boron	mg/L	ND	0.040	0.0039	09/11/18 18:14	
Cadmium	mg/L	ND	0.0010	0.000093	09/11/18 18:14	
Calcium	mg/L	ND	0.50	0.014	09/11/18 18:14	
Chromium	mg/L	ND	0.010	0.0016	09/11/18 18:14	
Cobalt	mg/L	ND	0.010	0.00052	09/11/18 18:14	
Copper	mg/L	ND	0.025	0.0013	09/11/18 18:14	
Lead	mg/L	ND	0.0050	0.00027	09/11/18 18:14	
Magnesium	mg/L	ND	0.050	0.0062	09/11/18 18:14	
Nickel	mg/L	ND	0.010	0.00095	09/11/18 18:14	
Potassium	mg/L	ND	0.10	0.035	09/11/18 18:14	
Selenium	mg/L	ND	0.010	0.0014	09/11/18 18:14	
Silver	mg/L	ND	0.010	0.00095	09/11/18 18:14	
Sodium	mg/L	ND	0.10	0.015	09/11/18 18:14	
Thallium	mg/L	ND	0.0010	0.00014	09/11/18 18:14	
Vanadium	mg/L	ND	0.010	0.0019	09/11/18 18:14	
Zinc	mg/L	0.0021J	0.010	0.0021	09/11/18 18:14	

LABORATORY CONTROL SAMPLE: 58872

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	.1	0.11	107	80-120	
Arsenic	mg/L	.1	0.10	100	80-120	
Barium	mg/L	.1	0.10	105	80-120	
Beryllium	mg/L	.1	0.099	99	80-120	
Boron	mg/L	1	1.0	102	80-120	
Cadmium	mg/L	.1	0.10	102	80-120	
Calcium	mg/L	1	1.0	102	80-120	
Chromium	mg/L	.1	0.10	100	80-120	
Cobalt	mg/L	.1	0.10	102	80-120	
Copper	mg/L	.1	0.10	101	80-120	
Lead	mg/L	.1	0.10	103	80-120	
Magnesium	mg/L	1	1.0	103	80-120	
Nickel	mg/L	.1	0.10	101	80-120	
Potassium	mg/L	1	1.1	106	80-120	
Selenium	mg/L	.1	0.10	101	80-120	
Silver	mg/L	.1	0.10	102	80-120	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells
Pace Project No.: 269032

LABORATORY CONTROL SAMPLE: 58872

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sodium	mg/L	1	1.0	101	80-120	
Thallium	mg/L	.1	0.10	100	80-120	
Vanadium	mg/L	.1	0.11	106	80-120	
Zinc	mg/L	.1	0.10	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 58873 58874

Parameter	Units	269032005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	.1	.1	0.11	0.11	105	106	75-125	1	20	
Arsenic	mg/L	ND	.1	.1	0.10	0.10	100	101	75-125	1	20	
Barium	mg/L	0.024	.1	.1	0.13	0.13	102	104	75-125	2	20	
Beryllium	mg/L	ND	.1	.1	0.10	0.099	101	99	75-125	2	20	
Boron	mg/L	ND	1	1	0.98	1.0	98	100	75-125	1	20	
Cadmium	mg/L	ND	.1	.1	0.10	0.10	100	103	75-125	4	20	
Calcium	mg/L	27.9	1	1	28.7	27.1	84	-77	75-125	6	20	M6
Chromium	mg/L	ND	.1	.1	0.10	0.098	100	97	75-125	3	20	
Cobalt	mg/L	ND	.1	.1	0.099	0.10	99	101	75-125	2	20	
Copper	mg/L	ND	.1	.1	0.099	0.10	99	100	75-125	2	20	
Lead	mg/L	ND	.1	.1	0.10	0.10	101	103	75-125	2	20	
Magnesium	mg/L	15.4	1	1	16.6	16.1	118	68	75-125	3	20	
Nickel	mg/L	ND	.1	.1	0.098	0.099	98	99	75-125	1	20	
Potassium	mg/L	1.1	1	1	2.2	2.1	107	98	75-125	4	20	
Selenium	mg/L	ND	.1	.1	0.098	0.10	98	101	75-125	3	20	
Silver	mg/L	ND	.1	.1	0.10	0.10	100	101	75-125	0	20	
Sodium	mg/L	4.7	1	1	5.7	5.5	99	81	75-125	3	20	
Thallium	mg/L	ND	.1	.1	0.099	0.10	99	102	75-125	3	20	
Vanadium	mg/L	ND	.1	.1	0.10	0.10	103	104	75-125	1	20	
Zinc	mg/L	0.0027J	.1	.1	0.10	0.10	99	101	75-125	2	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells
Pace Project No.: 269032

QC Batch: 13162 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 269032001, 269032002, 269032003, 269032004, 269032005, 269032006, 269032007, 269032008, 269032009

LABORATORY CONTROL SAMPLE: 58605

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	427	107	84-108	

SAMPLE DUPLICATE: 58606

Parameter	Units	268931001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	367	377	3	10	

SAMPLE DUPLICATE: 58607

Parameter	Units	269032007 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	149	154	3	10	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells
Pace Project No.: 269032

QC Batch: 13207 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 269032001, 269032002, 269032003, 269032004, 269032005, 269032006, 269032007, 269032008, 269032009

METHOD BLANK: 58734 Matrix: Water
Associated Lab Samples: 269032001, 269032002, 269032003, 269032004, 269032005, 269032006, 269032007, 269032008, 269032009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	0.058J	0.25	0.024	09/11/18 12:12	
Fluoride	mg/L	ND	0.30	0.029	09/11/18 12:12	
Sulfate	mg/L	ND	1.0	0.017	09/11/18 12:12	

LABORATORY CONTROL SAMPLE: 58735

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	10	10.3	103	90-110	
Fluoride	mg/L	10	10.1	101	90-110	
Sulfate	mg/L	10	10.0	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 58736 58737

Parameter	Units	269032001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	2.0	10	10	12.1	12.2	101	102	90-110	0	15	
Fluoride	mg/L	ND	10	10	10	10.0	100	100	90-110	1	15	
Sulfate	mg/L	0.80J	10	10	10.8	10.8	100	100	90-110	0	15	

MATRIX SPIKE SAMPLE: 58738

Parameter	Units	269032002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	1.0	10	10.4	94	90-110	
Fluoride	mg/L	ND	10	9.4	94	90-110	
Sulfate	mg/L	0.37J	10	9.7	93	90-110	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALIFIERS

Project: Plant Bowen cells
Pace Project No.: 269032

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.
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.

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Bowen cells
Pace Project No.: 269032

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
269032001	**GWA-36**	EPA 3005A	13246	EPA 6020B	13278
269032002	**GWA-37**	EPA 3005A	13246	EPA 6020B	13278
269032003	**GWA-36R**	EPA 3005A	13246	EPA 6020B	13278
269032004	**GWA-38**	EPA 3005A	13246	EPA 6020B	13278
269032005	**GWA-52**	EPA 3005A	13246	EPA 6020B	13278
269032006	**GWA-54**	EPA 3005A	13246	EPA 6020B	13278
269032007	**Dup-1**	EPA 3005A	13246	EPA 6020B	13278
269032008	**EQBL090618**	EPA 3005A	13246	EPA 6020B	13278
269032009	**FBL090618**	EPA 3005A	13246	EPA 6020B	13278
269032001	**GWA-36**	EPA 7470A	13194	EPA 7470A	13256
269032002	**GWA-37**	EPA 7470A	13194	EPA 7470A	13256
269032003	**GWA-36R**	EPA 7470A	13194	EPA 7470A	13256
269032004	**GWA-38**	EPA 7470A	13194	EPA 7470A	13256
269032005	**GWA-52**	EPA 7470A	13194	EPA 7470A	13256
269032006	**GWA-54**	EPA 7470A	13194	EPA 7470A	13256
269032007	**Dup-1**	EPA 7470A	13194	EPA 7470A	13256
269032008	**EQBL090618**	EPA 7470A	13194	EPA 7470A	13256
269032009	**FBL090618**	EPA 7470A	13217	EPA 7470A	13262
269032001	**GWA-36**	SM 2540C	13162		
269032002	**GWA-37**	SM 2540C	13162		
269032003	**GWA-36R**	SM 2540C	13162		
269032004	**GWA-38**	SM 2540C	13162		
269032005	**GWA-52**	SM 2540C	13162		
269032006	**GWA-54**	SM 2540C	13162		
269032007	**Dup-1**	SM 2540C	13162		
269032008	**EQBL090618**	SM 2540C	13162		
269032009	**FBL090618**	SM 2540C	13162		
269032001	**GWA-36**	EPA 300.0	13207		
269032002	**GWA-37**	EPA 300.0	13207		
269032003	**GWA-36R**	EPA 300.0	13207		
269032004	**GWA-38**	EPA 300.0	13207		
269032005	**GWA-52**	EPA 300.0	13207		
269032006	**GWA-54**	EPA 300.0	13207		
269032007	**Dup-1**	EPA 300.0	13207		
269032008	**EQBL090618**	EPA 300.0	13207		
269032009	**FBL090618**	EPA 300.0	13207		

REPORT OF LABORATORY ANALYSIS

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Georgia Power - Coal Combustion Residuals	Report To:	Joju Abraham	Attention:	scsinvoices@southernco.com
Address:	2480 Maner Road	Copy To:	Wood Environmental	Company Name:	
	Atlanta, GA 30339			Address:	
Email:	jabraham@southernco.com	Purchase Order #:	SCS10348606	Pace Quote:	
Phone:	(404)506-7239 Fax	Project Name:	Plant Bowen Cells - State List	Pace Project Manager:	betsy.mcdaniel@pacelabs.com,
Requested Due Date:		Project #:		Pace Profile #:	317.5

Regulatory Agency

State / Location: GA

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Requested Analysis Filtered (Y/N)	Analyses Test: TDS, Cl, F, SO4	Metals 6020 *	Metals Analysis	Residual Chlorine (Y/N)
	MATRIX: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Other OT, Tissue TS																	Y/N	Y	Y	Y	
1	GWA-36	WT	G	9/6/18	1044				2	1		1							X	X	X	
2	GWA-37	WT	G	9/6/18	1050				2	1		1							X	X	X	
3	GWA-36R	WT	G	9/6/18	1115				2	1		1							X	X	X	
4	GWA-38	WT	G	9/6/18	1211				2	1		1							X	X	X	
5	GWA-52	WT	G	9/6/18	1425				2	1		1							X	X	X	
6	GWA-54	WT	G	9/6/18	1530				2	1		1							X	X	X	
7	Dup-1	WT	G	9/6/18	—				2	1		1							X	X	X	
8	EQBL090618	WT	G	9/6/18	1525				2	1		1							X	X	X	
9	FBLO90618	WT	G	9/6/18	1525				2	1		1							X	X	X	
10																						
11																						
12																						

WO# : 269032

269032

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
* Metals State List: Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Pb, Mg, Ni, K, Se, Ag, Na, Tl, V, Zn		9/7/18	1640	M Rahman	09/07/18	1640	0.1	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kevin Braswell, Veronica Tripp, Anthony Eubanks

SIGNATURE of SAMPLER: DATE Signed: 9/6/18

Sample Condition Upon Receipt

Pace Analytical

Client Name: GA Power

Project #

WO# : 269032

PM: BM Due Date: 09/14/18

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 0.1 Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: 9/7/18 MK

Temp should be above freezing to 6°C

			Comments:
Chain of Custody Present:	☑Yes	☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes	☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes	☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes	☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes	☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes	☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes	☑No ☐N/A	7.
Sufficient Volume:	☑Yes	☐No ☐N/A	8.
Correct Containers Used:	☑Yes	☐No ☐N/A	9.
-Pace Containers Used:	☑Yes	☐No ☐N/A	
Containers Intact:	☑Yes	☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes	☐No ☑N/A	11.
Sample Labels match COC:	☑Yes	☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W			
All containers needing preservation have been checked.	☑Yes	☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes	☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes	☑No	Initial when completed / Lot # of added preservative
Samples checked for dechlorination:	☐Yes	☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes	☐No ☑N/A	15.
Trip Blank Present:	☐Yes	☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes	☐No ☑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).

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

September 14, 2018

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

RE: Project: Plant Bowen cells
Pace Project No.: 269034

Dear Joju Abraham:
Enclosed are the analytical results for sample(s) received by the laboratory on September 07, 2018. 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: Maria Padilla, Georgia Power
Rebecca Thornton, Pace Analytical Atlanta
Greg Wrenn, Wood PLC

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

CERTIFICATIONS

Project: Plant Bowen cells
Pace Project No.: 269034

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
Texas Certification #: T104704397-08-TX
Virginia Certification #: 460204

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE SUMMARY

Project: Plant Bowen cells
Pace Project No.: 269034

Lab ID	Sample ID	Matrix	Date Collected	Date Received
269034001	**GWA-51RZ**	Water	09/07/18 09:17	09/07/18 16:40
269034002	**GWC-16R**	Water	09/07/18 09:26	09/07/18 16:40
269034003	**GWA-56**	Water	09/07/18 10:46	09/07/18 16:40
269034004	**GWC-18R**	Water	09/07/18 10:58	09/07/18 16:40
269034005	**GWA-55R**	Water	09/07/18 10:55	09/07/18 16:40
269034006	**GWA-55**	Water	09/07/18 12:05	09/07/18 16:40
269034007	**GWC-22R**	Water	09/07/18 13:21	09/07/18 16:40
269034008	**EQBL090718**	Water	09/07/18 13:55	09/07/18 16:40
269034009	**FBL090718**	Water	09/07/18 14:00	09/07/18 16:40
269034010	**Dup-2**	Water	09/07/18 00:00	09/07/18 16:40

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE ANALYTE COUNT

Project: Plant Bowen cells
Pace Project No.: 269034

Lab ID	Sample ID	Method	Analysts	Analytes Reported
269034001	GWA-51RZ	EPA 6020B	CSW	20
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
269034002	GWC-16R	EPA 6020B	CSW	20
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
269034003	GWA-56	EPA 6020B	CSW	20
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
269034004	GWC-18R	EPA 6020B	CSW	20
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
269034005	GWA-55R	EPA 6020B	CSW	20
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
269034006	GWA-55	EPA 6020B	CSW	20
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
269034007	GWC-22R	EPA 6020B	CSW	20
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
269034008	EQBL090718	EPA 6020B	CSW	20
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
269034009	FBL090718	EPA 6020B	CSW	20
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
269034010	Dup-2	EPA 6020B	CSW	20

Pace Analytical Services, LLC
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SAMPLE ANALYTE COUNT

Project: Plant Bowen cells
Pace Project No.: 269034

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells
Pace Project No.: 269034

Sample: GWA-51RZ **Lab ID: 269034001** Collected: 09/07/18 09:17 Received: 09/07/18 16:40 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	09/11/18 12:54	09/11/18 20:48	7440-36-0	
Arsenic	**0.0016J**	mg/L	0.0050	0.00057	1	09/11/18 12:54	09/11/18 20:48	7440-38-2	
Barium	**0.022**	mg/L	0.010	0.00078	1	09/11/18 12:54	09/11/18 20:48	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	09/11/18 12:54	09/11/18 20:48	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	09/11/18 12:54	09/11/18 20:48	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	09/11/18 12:54	09/11/18 20:48	7440-43-9	
Calcium	**44.2**	mg/L	25.0	0.69	50	09/11/18 12:54	09/11/18 20:54	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	09/11/18 12:54	09/11/18 20:48	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	09/11/18 12:54	09/11/18 20:48	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	09/11/18 12:54	09/11/18 20:48	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	09/11/18 12:54	09/11/18 20:48	7439-92-1	
Magnesium	**21.7**	mg/L	2.5	0.31	50	09/11/18 12:54	09/11/18 20:54	7439-95-4	
Nickel	ND	mg/L	0.010	0.00095	1	09/11/18 12:54	09/11/18 20:48	7440-02-0	
Potassium	**0.77**	mg/L	0.10	0.035	1	09/11/18 12:54	09/11/18 20:48	7440-09-7	
Selenium	**0.010J**	mg/L	0.010	0.0014	1	09/11/18 12:54	09/11/18 20:48	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	09/11/18 12:54	09/11/18 20:48	7440-22-4	
Sodium	**3.7**	mg/L	0.10	0.015	1	09/11/18 12:54	09/11/18 20:48	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00014	1	09/11/18 12:54	09/11/18 20:48	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	09/11/18 12:54	09/11/18 20:48	7440-62-2	
Zinc	**0.0040J**	mg/L	0.010	0.0021	1	09/11/18 12:54	09/11/18 20:48	7440-66-6	B
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	09/11/18 11:03	09/11/18 15:01	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**232**	mg/L	25.0	10.0	1		09/11/18 15:29		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**3.3**	mg/L	0.25	0.024	1		09/11/18 18:03	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		09/11/18 18:03	16984-48-8	
Sulfate	**26.9**	mg/L	1.0	0.017	1		09/11/18 18:03	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells
Pace Project No.: 269034

Sample: GWC-16R **Lab ID: 269034002** Collected: 09/07/18 09:26 Received: 09/07/18 16:40 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	**0.0026J**	mg/L	0.0030	0.00078	1	09/11/18 12:54	09/11/18 21:00	7440-36-0	
Arsenic	**0.0012J**	mg/L	0.0050	0.00057	1	09/11/18 12:54	09/11/18 21:00	7440-38-2	
Barium	**0.047**	mg/L	0.010	0.00078	1	09/11/18 12:54	09/11/18 21:00	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	09/11/18 12:54	09/11/18 21:00	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	09/11/18 12:54	09/11/18 21:00	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	09/11/18 12:54	09/11/18 21:00	7440-43-9	
Calcium	**62.4**	mg/L	25.0	0.69	50	09/11/18 12:54	09/11/18 21:05	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	09/11/18 12:54	09/11/18 21:00	7440-47-3	
Cobalt	**0.0034J**	mg/L	0.010	0.00052	1	09/11/18 12:54	09/11/18 21:00	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	09/11/18 12:54	09/11/18 21:00	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	09/11/18 12:54	09/11/18 21:00	7439-92-1	
Magnesium	**33.1**	mg/L	2.5	0.31	50	09/11/18 12:54	09/11/18 21:05	7439-95-4	
Nickel	**0.0086J**	mg/L	0.010	0.00095	1	09/11/18 12:54	09/11/18 21:00	7440-02-0	
Potassium	**1.1**	mg/L	0.10	0.035	1	09/11/18 12:54	09/11/18 21:00	7440-09-7	
Selenium	ND	mg/L	0.010	0.0014	1	09/11/18 12:54	09/11/18 21:00	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	09/11/18 12:54	09/11/18 21:00	7440-22-4	
Sodium	**5.3**	mg/L	0.10	0.015	1	09/11/18 12:54	09/11/18 21:00	7440-23-5	
Thallium	**0.00016J**	mg/L	0.0010	0.00014	1	09/11/18 12:54	09/11/18 21:00	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	09/11/18 12:54	09/11/18 21:00	7440-62-2	
Zinc	**0.019**	mg/L	0.010	0.0021	1	09/11/18 12:54	09/11/18 21:00	7440-66-6	B
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	09/11/18 11:03	09/11/18 15:04	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**298**	mg/L	25.0	10.0	1		09/11/18 15:29		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**2.1**	mg/L	0.25	0.024	1		09/11/18 18:45	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		09/11/18 18:45	16984-48-8	
Sulfate	**6.5**	mg/L	1.0	0.017	1		09/11/18 18:45	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells
Pace Project No.: 269034

Sample: GWA-56 **Lab ID: 269034003** Collected: 09/07/18 10:46 Received: 09/07/18 16:40 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	09/11/18 12:54	09/11/18 21:11	7440-36-0	
Arsenic	**0.0012J**	mg/L	0.0050	0.00057	1	09/11/18 12:54	09/11/18 21:11	7440-38-2	
Barium	**0.034**	mg/L	0.010	0.00078	1	09/11/18 12:54	09/11/18 21:11	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	09/11/18 12:54	09/11/18 21:11	7440-41-7	
Boron	**0.024J**	mg/L	0.040	0.0039	1	09/11/18 12:54	09/11/18 21:11	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	09/11/18 12:54	09/11/18 21:11	7440-43-9	
Calcium	**25.1**	mg/L	25.0	0.69	50	09/11/18 12:54	09/11/18 21:17	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	09/11/18 12:54	09/11/18 21:11	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	09/11/18 12:54	09/11/18 21:11	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	09/11/18 12:54	09/11/18 21:11	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	09/11/18 12:54	09/11/18 21:11	7439-92-1	
Magnesium	**20.5**	mg/L	2.5	0.31	50	09/11/18 12:54	09/11/18 21:17	7439-95-4	
Nickel	ND	mg/L	0.010	0.00095	1	09/11/18 12:54	09/11/18 21:11	7440-02-0	
Potassium	**2.2**	mg/L	0.10	0.035	1	09/11/18 12:54	09/11/18 21:11	7440-09-7	
Selenium	ND	mg/L	0.010	0.0014	1	09/11/18 12:54	09/11/18 21:11	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	09/11/18 12:54	09/11/18 21:11	7440-22-4	
Sodium	**82.8**	mg/L	5.0	0.75	50	09/11/18 12:54	09/11/18 21:17	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00014	1	09/11/18 12:54	09/11/18 21:11	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	09/11/18 12:54	09/11/18 21:11	7440-62-2	
Zinc	**0.0027J**	mg/L	0.010	0.0021	1	09/11/18 12:54	09/11/18 21:11	7440-66-6	B
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	**0.000037J**	mg/L	0.00050	0.000036	1	09/11/18 11:03	09/11/18 14:28	7439-97-6	B
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**377**	mg/L	25.0	10.0	1		09/11/18 15:30		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**6.9**	mg/L	0.25	0.024	1		09/11/18 19:05	16887-00-6	
Fluoride	**0.14J**	mg/L	0.30	0.029	1		09/11/18 19:05	16984-48-8	
Sulfate	**101**	mg/L	10.0	0.17	10		09/11/18 23:13	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells
Pace Project No.: 269034

Sample: GWC-18R **Lab ID: 269034004** Collected: 09/07/18 10:58 Received: 09/07/18 16:40 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	09/11/18 12:54	09/11/18 21:34	7440-36-0	
Arsenic	**0.00082J**	mg/L	0.0050	0.00057	1	09/11/18 12:54	09/11/18 21:34	7440-38-2	
Barium	**0.015**	mg/L	0.010	0.00078	1	09/11/18 12:54	09/11/18 21:34	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	09/11/18 12:54	09/11/18 21:34	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	09/11/18 12:54	09/11/18 21:34	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	09/11/18 12:54	09/11/18 21:34	7440-43-9	
Calcium	**29.5**	mg/L	25.0	0.69	50	09/11/18 12:54	09/11/18 21:40	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	09/11/18 12:54	09/11/18 21:34	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	09/11/18 12:54	09/11/18 21:34	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	09/11/18 12:54	09/11/18 21:34	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	09/11/18 12:54	09/11/18 21:34	7439-92-1	
Magnesium	**17.0**	mg/L	2.5	0.31	50	09/11/18 12:54	09/11/18 21:40	7439-95-4	
Nickel	ND	mg/L	0.010	0.00095	1	09/11/18 12:54	09/11/18 21:34	7440-02-0	
Potassium	**0.68**	mg/L	0.10	0.035	1	09/11/18 12:54	09/12/18 12:46	7440-09-7	
Selenium	ND	mg/L	0.010	0.0014	1	09/11/18 12:54	09/11/18 21:34	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	09/11/18 12:54	09/11/18 21:34	7440-22-4	
Sodium	**1.5**	mg/L	0.10	0.015	1	09/11/18 12:54	09/11/18 21:34	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00014	1	09/11/18 12:54	09/11/18 21:34	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	09/11/18 12:54	09/11/18 21:34	7440-62-2	
Zinc	**0.0026J**	mg/L	0.010	0.0021	1	09/11/18 12:54	09/11/18 21:34	7440-66-6	B
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	09/11/18 11:03	09/11/18 15:06	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**149**	mg/L	25.0	10.0	1		09/11/18 15:30		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**2.3**	mg/L	0.25	0.024	1		09/11/18 19:26	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		09/11/18 19:26	16984-48-8	
Sulfate	**2.2**	mg/L	1.0	0.017	1		09/11/18 19:26	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells
Pace Project No.: 269034

Sample: GWA-55R **Lab ID: 269034005** Collected: 09/07/18 10:55 Received: 09/07/18 16:40 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	09/11/18 12:54	09/11/18 21:45	7440-36-0	
Arsenic	**0.00084J**	mg/L	0.0050	0.00057	1	09/11/18 12:54	09/11/18 21:45	7440-38-2	
Barium	**0.039**	mg/L	0.010	0.00078	1	09/11/18 12:54	09/11/18 21:45	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	09/11/18 12:54	09/11/18 21:45	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	09/11/18 12:54	09/11/18 21:45	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	09/11/18 12:54	09/11/18 21:45	7440-43-9	
Calcium	**40.3**	mg/L	25.0	0.69	50	09/11/18 12:54	09/11/18 21:51	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	09/11/18 12:54	09/11/18 21:45	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	09/11/18 12:54	09/11/18 21:45	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	09/11/18 12:54	09/11/18 21:45	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	09/11/18 12:54	09/11/18 21:45	7439-92-1	
Magnesium	**23.3**	mg/L	2.5	0.31	50	09/11/18 12:54	09/11/18 21:51	7439-95-4	
Nickel	ND	mg/L	0.010	0.00095	1	09/11/18 12:54	09/11/18 21:45	7440-02-0	
Potassium	**0.97**	mg/L	0.10	0.035	1	09/11/18 12:54	09/12/18 12:52	7440-09-7	
Selenium	ND	mg/L	0.010	0.0014	1	09/11/18 12:54	09/11/18 21:45	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	09/11/18 12:54	09/11/18 21:45	7440-22-4	
Sodium	**3.7**	mg/L	0.10	0.015	1	09/11/18 12:54	09/11/18 21:45	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00014	1	09/11/18 12:54	09/11/18 21:45	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	09/11/18 12:54	09/11/18 21:45	7440-62-2	
Zinc	**0.0042J**	mg/L	0.010	0.0021	1	09/11/18 12:54	09/11/18 21:45	7440-66-6	B
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	09/11/18 11:03	09/11/18 15:09	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**202**	mg/L	25.0	10.0	1		09/11/18 15:30		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**3.3**	mg/L	0.25	0.024	1		09/11/18 19:47	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		09/11/18 19:47	16984-48-8	
Sulfate	**22.4**	mg/L	1.0	0.017	1		09/11/18 19:47	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells
Pace Project No.: 269034

Sample: GWA-55 **Lab ID: 269034006** Collected: 09/07/18 12:05 Received: 09/07/18 16:40 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	09/11/18 12:54	09/11/18 21:57	7440-36-0	
Arsenic	**0.00083J**	mg/L	0.0050	0.00057	1	09/11/18 12:54	09/11/18 21:57	7440-38-2	
Barium	**0.025**	mg/L	0.010	0.00078	1	09/11/18 12:54	09/11/18 21:57	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	09/11/18 12:54	09/11/18 21:57	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	09/11/18 12:54	09/11/18 21:57	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	09/11/18 12:54	09/11/18 21:57	7440-43-9	
Calcium	**45.2**	mg/L	25.0	0.69	50	09/11/18 12:54	09/11/18 22:02	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	09/11/18 12:54	09/11/18 21:57	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	09/11/18 12:54	09/11/18 21:57	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	09/11/18 12:54	09/11/18 21:57	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	09/11/18 12:54	09/11/18 21:57	7439-92-1	
Magnesium	**25.6**	mg/L	2.5	0.31	50	09/11/18 12:54	09/11/18 22:02	7439-95-4	
Nickel	ND	mg/L	0.010	0.00095	1	09/11/18 12:54	09/11/18 21:57	7440-02-0	
Potassium	**1.2**	mg/L	0.10	0.035	1	09/11/18 12:54	09/12/18 12:58	7440-09-7	
Selenium	ND	mg/L	0.010	0.0014	1	09/11/18 12:54	09/11/18 21:57	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	09/11/18 12:54	09/11/18 21:57	7440-22-4	
Sodium	**4.4**	mg/L	0.10	0.015	1	09/11/18 12:54	09/11/18 21:57	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00014	1	09/11/18 12:54	09/11/18 21:57	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	09/11/18 12:54	09/11/18 21:57	7440-62-2	
Zinc	**0.0028J**	mg/L	0.010	0.0021	1	09/11/18 12:54	09/11/18 21:57	7440-66-6	B
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	09/11/18 11:03	09/11/18 15:11	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**240**	mg/L	25.0	10.0	1		09/11/18 15:30		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**3.8**	mg/L	0.25	0.024	1		09/11/18 20:07	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		09/11/18 20:07	16984-48-8	
Sulfate	**27.4**	mg/L	1.0	0.017	1		09/11/18 20:07	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells
Pace Project No.: 269034

Sample: GWC-22R **Lab ID: 269034007** Collected: 09/07/18 13:21 Received: 09/07/18 16:40 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	09/11/18 12:54	09/11/18 22:08	7440-36-0	
Arsenic	**0.0018J**	mg/L	0.0050	0.00057	1	09/11/18 12:54	09/11/18 22:08	7440-38-2	
Barium	**0.055**	mg/L	0.010	0.00078	1	09/11/18 12:54	09/11/18 22:08	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	09/11/18 12:54	09/11/18 22:08	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	09/11/18 12:54	09/11/18 22:08	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	09/11/18 12:54	09/11/18 22:08	7440-43-9	
Calcium	**32.7**	mg/L	25.0	0.69	50	09/11/18 12:54	09/11/18 22:14	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	09/11/18 12:54	09/11/18 22:08	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	09/11/18 12:54	09/11/18 22:08	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	09/11/18 12:54	09/11/18 22:08	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	09/11/18 12:54	09/11/18 22:08	7439-92-1	
Magnesium	**19.0**	mg/L	2.5	0.31	50	09/11/18 12:54	09/11/18 22:14	7439-95-4	
Nickel	ND	mg/L	0.010	0.00095	1	09/11/18 12:54	09/11/18 22:08	7440-02-0	
Potassium	**1.0**	mg/L	0.10	0.035	1	09/11/18 12:54	09/12/18 13:03	7440-09-7	
Selenium	ND	mg/L	0.010	0.0014	1	09/11/18 12:54	09/11/18 22:08	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	09/11/18 12:54	09/11/18 22:08	7440-22-4	
Sodium	**1.8**	mg/L	0.10	0.015	1	09/11/18 12:54	09/11/18 22:08	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00014	1	09/11/18 12:54	09/11/18 22:08	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	09/11/18 12:54	09/11/18 22:08	7440-62-2	
Zinc	**0.0042J**	mg/L	0.010	0.0021	1	09/11/18 12:54	09/11/18 22:08	7440-66-6	B
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	**0.00014J**	mg/L	0.00050	0.000036	1	09/11/18 11:03	09/11/18 15:18	7439-97-6	B
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**169**	mg/L	25.0	10.0	1		09/11/18 15:30		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**2.7**	mg/L	0.25	0.024	1		09/11/18 20:28	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		09/11/18 20:28	16984-48-8	
Sulfate	**1.8**	mg/L	1.0	0.017	1		09/11/18 20:28	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells
Pace Project No.: 269034

Sample: EQBL090718 **Lab ID: 269034008** Collected: 09/07/18 13:55 Received: 09/07/18 16:40 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	09/11/18 12:54	09/11/18 22:20	7440-36-0	
Arsenic	**0.00080J**	mg/L	0.0050	0.00057	1	09/11/18 12:54	09/11/18 22:20	7440-38-2	
Barium	ND	mg/L	0.010	0.00078	1	09/11/18 12:54	09/11/18 22:20	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	09/11/18 12:54	09/11/18 22:20	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	09/11/18 12:54	09/11/18 22:20	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	09/11/18 12:54	09/11/18 22:20	7440-43-9	
Calcium	ND	mg/L	0.50	0.014	1	09/11/18 12:54	09/11/18 22:20	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	09/11/18 12:54	09/11/18 22:20	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	09/11/18 12:54	09/11/18 22:20	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	09/11/18 12:54	09/11/18 22:20	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	09/11/18 12:54	09/11/18 22:20	7439-92-1	
Magnesium	ND	mg/L	0.050	0.0062	1	09/11/18 12:54	09/11/18 22:20	7439-95-4	
Nickel	ND	mg/L	0.010	0.00095	1	09/11/18 12:54	09/11/18 22:20	7440-02-0	
Potassium	ND	mg/L	0.10	0.035	1	09/11/18 12:54	09/11/18 22:20	7440-09-7	
Selenium	ND	mg/L	0.010	0.0014	1	09/11/18 12:54	09/11/18 22:20	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	09/11/18 12:54	09/11/18 22:20	7440-22-4	
Sodium	ND	mg/L	0.10	0.015	1	09/11/18 12:54	09/11/18 22:20	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00014	1	09/11/18 12:54	09/11/18 22:20	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	09/11/18 12:54	09/11/18 22:20	7440-62-2	
Zinc	**0.0036J**	mg/L	0.010	0.0021	1	09/11/18 12:54	09/11/18 22:20	7440-66-6	B
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	**0.00012J**	mg/L	0.00050	0.000036	1	09/11/18 11:03	09/11/18 15:20	7439-97-6	B
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**25.0**	mg/L	25.0	10.0	1		09/11/18 15:30		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**0.061J**	mg/L	0.25	0.024	1		09/11/18 20:49	16887-00-6	B
Fluoride	ND	mg/L	0.30	0.029	1		09/11/18 20:49	16984-48-8	
Sulfate	ND	mg/L	1.0	0.017	1		09/11/18 20:49	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells
Pace Project No.: 269034

Sample: FBL090718 **Lab ID: 269034009** Collected: 09/07/18 14:00 Received: 09/07/18 16:40 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	09/11/18 12:54	09/11/18 22:25	7440-36-0	
Arsenic	**0.00060J**	mg/L	0.0050	0.00057	1	09/11/18 12:54	09/11/18 22:25	7440-38-2	
Barium	ND	mg/L	0.010	0.00078	1	09/11/18 12:54	09/11/18 22:25	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	09/11/18 12:54	09/11/18 22:25	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	09/11/18 12:54	09/11/18 22:25	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	09/11/18 12:54	09/11/18 22:25	7440-43-9	
Calcium	ND	mg/L	0.50	0.014	1	09/11/18 12:54	09/11/18 22:25	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	09/11/18 12:54	09/11/18 22:25	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	09/11/18 12:54	09/11/18 22:25	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	09/11/18 12:54	09/11/18 22:25	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	09/11/18 12:54	09/11/18 22:25	7439-92-1	
Magnesium	ND	mg/L	0.050	0.0062	1	09/11/18 12:54	09/11/18 22:25	7439-95-4	
Nickel	ND	mg/L	0.010	0.00095	1	09/11/18 12:54	09/11/18 22:25	7440-02-0	
Potassium	ND	mg/L	0.10	0.035	1	09/11/18 12:54	09/11/18 22:25	7440-09-7	
Selenium	ND	mg/L	0.010	0.0014	1	09/11/18 12:54	09/11/18 22:25	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	09/11/18 12:54	09/11/18 22:25	7440-22-4	
Sodium	ND	mg/L	0.10	0.015	1	09/11/18 12:54	09/11/18 22:25	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00014	1	09/11/18 12:54	09/11/18 22:25	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	09/11/18 12:54	09/11/18 22:25	7440-62-2	
Zinc	**0.0027J**	mg/L	0.010	0.0021	1	09/11/18 12:54	09/11/18 22:25	7440-66-6	B
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	**0.00013J**	mg/L	0.00050	0.000036	1	09/11/18 11:03	09/11/18 15:23	7439-97-6	B
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**16.0J**	mg/L	25.0	10.0	1		09/11/18 15:30		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**0.057J**	mg/L	0.25	0.024	1		09/11/18 22:32	16887-00-6	B
Fluoride	ND	mg/L	0.30	0.029	1		09/11/18 22:32	16984-48-8	
Sulfate	ND	mg/L	1.0	0.017	1		09/11/18 22:32	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells
Pace Project No.: 269034

Sample: Dup-2 **Lab ID: 269034010** Collected: 09/07/18 00:00 Received: 09/07/18 16:40 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	09/11/18 12:54	09/11/18 22:42	7440-36-0	
Arsenic	**0.00089J**	mg/L	0.0050	0.00057	1	09/11/18 12:54	09/11/18 22:42	7440-38-2	
Barium	**0.014**	mg/L	0.010	0.00078	1	09/11/18 12:54	09/11/18 22:42	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	09/11/18 12:54	09/11/18 22:42	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	09/11/18 12:54	09/11/18 22:42	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	09/11/18 12:54	09/11/18 22:42	7440-43-9	
Calcium	**27.7**	mg/L	25.0	0.69	50	09/11/18 12:54	09/11/18 22:48	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	09/11/18 12:54	09/11/18 22:42	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	09/11/18 12:54	09/11/18 22:42	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	09/11/18 12:54	09/11/18 22:42	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	09/11/18 12:54	09/11/18 22:42	7439-92-1	
Magnesium	**16.0**	mg/L	2.5	0.31	50	09/11/18 12:54	09/11/18 22:48	7439-95-4	
Nickel	ND	mg/L	0.010	0.00095	1	09/11/18 12:54	09/11/18 22:42	7440-02-0	
Potassium	**0.65**	mg/L	0.10	0.035	1	09/11/18 12:54	09/12/18 13:09	7440-09-7	
Selenium	ND	mg/L	0.010	0.0014	1	09/11/18 12:54	09/11/18 22:42	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	09/11/18 12:54	09/11/18 22:42	7440-22-4	
Sodium	**1.4**	mg/L	0.10	0.015	1	09/11/18 12:54	09/11/18 22:42	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00014	1	09/11/18 12:54	09/11/18 22:42	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	09/11/18 12:54	09/11/18 22:42	7440-62-2	
Zinc	**0.0030J**	mg/L	0.010	0.0021	1	09/11/18 12:54	09/11/18 22:42	7440-66-6	B
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	**0.00012J**	mg/L	0.00050	0.000036	1	09/11/18 11:03	09/11/18 15:25	7439-97-6	B
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**160**	mg/L	25.0	10.0	1		09/11/18 15:30		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**2.4**	mg/L	0.25	0.024	1		09/11/18 22:53	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		09/11/18 22:53	16984-48-8	
Sulfate	**2.2**	mg/L	1.0	0.017	1		09/11/18 22:53	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells
Pace Project No.: 269034

QC Batch: 13194 Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
Associated Lab Samples: 269034001, 269034002, 269034003, 269034004, 269034005, 269034006, 269034007, 269034008, 269034009, 269034010

METHOD BLANK: 58696 Matrix: Water
Associated Lab Samples: 269034001, 269034002, 269034003, 269034004, 269034005, 269034006, 269034007, 269034008, 269034009, 269034010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	0.00010J	0.00050	0.000036	09/11/18 14:23	

LABORATORY CONTROL SAMPLE: 58697

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	.0025	0.0024	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 58698 58699

Parameter	Units	269034003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	0.000037J	.0025	.0025	0.0025	0.0024	99	96	75-125	3	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells
Pace Project No.: 269034

QC Batch: 13246 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020B MET
Associated Lab Samples: 269034001, 269034002, 269034003, 269034004, 269034005, 269034006, 269034007, 269034008, 269034009, 269034010

METHOD BLANK: 58871 Matrix: Water
Associated Lab Samples: 269034001, 269034002, 269034003, 269034004, 269034005, 269034006, 269034007, 269034008, 269034009, 269034010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	09/11/18 18:14	
Arsenic	mg/L	ND	0.0050	0.00057	09/11/18 18:14	
Barium	mg/L	ND	0.010	0.00078	09/11/18 18:14	
Beryllium	mg/L	ND	0.0030	0.000050	09/11/18 18:14	
Boron	mg/L	ND	0.040	0.0039	09/11/18 18:14	
Cadmium	mg/L	ND	0.0010	0.000093	09/11/18 18:14	
Calcium	mg/L	ND	0.50	0.014	09/11/18 18:14	
Chromium	mg/L	ND	0.010	0.0016	09/11/18 18:14	
Cobalt	mg/L	ND	0.010	0.00052	09/11/18 18:14	
Copper	mg/L	ND	0.025	0.0013	09/11/18 18:14	
Lead	mg/L	ND	0.0050	0.00027	09/11/18 18:14	
Magnesium	mg/L	ND	0.050	0.0062	09/11/18 18:14	
Nickel	mg/L	ND	0.010	0.00095	09/11/18 18:14	
Potassium	mg/L	ND	0.10	0.035	09/11/18 18:14	
Selenium	mg/L	ND	0.010	0.0014	09/11/18 18:14	
Silver	mg/L	ND	0.010	0.00095	09/11/18 18:14	
Sodium	mg/L	ND	0.10	0.015	09/11/18 18:14	
Thallium	mg/L	ND	0.0010	0.00014	09/11/18 18:14	
Vanadium	mg/L	ND	0.010	0.0019	09/11/18 18:14	
Zinc	mg/L	0.0021J	0.010	0.0021	09/11/18 18:14	

LABORATORY CONTROL SAMPLE: 58872

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	.1	0.11	107	80-120	
Arsenic	mg/L	.1	0.10	100	80-120	
Barium	mg/L	.1	0.10	105	80-120	
Beryllium	mg/L	.1	0.099	99	80-120	
Boron	mg/L	1	1.0	102	80-120	
Cadmium	mg/L	.1	0.10	102	80-120	
Calcium	mg/L	1	1.0	102	80-120	
Chromium	mg/L	.1	0.10	100	80-120	
Cobalt	mg/L	.1	0.10	102	80-120	
Copper	mg/L	.1	0.10	101	80-120	
Lead	mg/L	.1	0.10	103	80-120	
Magnesium	mg/L	1	1.0	103	80-120	
Nickel	mg/L	.1	0.10	101	80-120	
Potassium	mg/L	1	1.1	106	80-120	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells
Pace Project No.: 269034

LABORATORY CONTROL SAMPLE: 58872

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Selenium	mg/L	.1	0.10	101	80-120	
Silver	mg/L	.1	0.10	102	80-120	
Sodium	mg/L	1	1.0	101	80-120	
Thallium	mg/L	.1	0.10	100	80-120	
Vanadium	mg/L	.1	0.11	106	80-120	
Zinc	mg/L	.1	0.10	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 58873 58874

Parameter	Units	269032005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	.1	.1	0.11	0.11	105	106	75-125	1	20	
Arsenic	mg/L	ND	.1	.1	0.10	0.10	100	101	75-125	1	20	
Barium	mg/L	0.024	.1	.1	0.13	0.13	102	104	75-125	2	20	
Beryllium	mg/L	ND	.1	.1	0.10	0.099	101	99	75-125	2	20	
Boron	mg/L	ND	1	1	0.98	1.0	98	100	75-125	1	20	
Cadmium	mg/L	ND	.1	.1	0.10	0.10	100	103	75-125	4	20	
Calcium	mg/L	27.9	1	1	28.7	27.1	84	-77	75-125	6	20	M6
Chromium	mg/L	ND	.1	.1	0.10	0.098	100	97	75-125	3	20	
Cobalt	mg/L	ND	.1	.1	0.099	0.10	99	101	75-125	2	20	
Copper	mg/L	ND	.1	.1	0.099	0.10	99	100	75-125	2	20	
Lead	mg/L	ND	.1	.1	0.10	0.10	101	103	75-125	2	20	
Magnesium	mg/L	15.4	1	1	16.6	16.1	118	68	75-125	3	20	
Nickel	mg/L	ND	.1	.1	0.098	0.099	98	99	75-125	1	20	
Potassium	mg/L	1.1	1	1	2.2	2.1	107	98	75-125	4	20	
Selenium	mg/L	ND	.1	.1	0.098	0.10	98	101	75-125	3	20	
Silver	mg/L	ND	.1	.1	0.10	0.10	100	101	75-125	0	20	
Sodium	mg/L	4.7	1	1	5.7	5.5	99	81	75-125	3	20	
Thallium	mg/L	ND	.1	.1	0.099	0.10	99	102	75-125	3	20	
Vanadium	mg/L	ND	.1	.1	0.10	0.10	103	104	75-125	1	20	
Zinc	mg/L	0.0027J	.1	.1	0.10	0.10	99	101	75-125	2	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells
Pace Project No.: 269034

QC Batch: 13253 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 269034001, 269034002, 269034003, 269034004, 269034005, 269034006, 269034007, 269034008, 269034009, 269034010

LABORATORY CONTROL SAMPLE: 58914

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	400	100	84-108	

SAMPLE DUPLICATE: 58915

Parameter	Units	269054001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	25.0	25.0	0	10	

SAMPLE DUPLICATE: 58983

Parameter	Units	269034010 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	160	155	3	10	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells
Pace Project No.: 269034

QC Batch: 13207 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 269034001, 269034002, 269034003, 269034004, 269034005, 269034006, 269034007, 269034008, 269034009, 269034010

METHOD BLANK: 58734 Matrix: Water
Associated Lab Samples: 269034001, 269034002, 269034003, 269034004, 269034005, 269034006, 269034007, 269034008, 269034009, 269034010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	0.058J	0.25	0.024	09/11/18 12:12	
Fluoride	mg/L	ND	0.30	0.029	09/11/18 12:12	
Sulfate	mg/L	ND	1.0	0.017	09/11/18 12:12	

LABORATORY CONTROL SAMPLE: 58735

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	10	10.3	103	90-110	
Fluoride	mg/L	10	10.1	101	90-110	
Sulfate	mg/L	10	10.0	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 58736 58737

Parameter	Units	269032001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	2.0	10	10	12.1	12.2	101	102	90-110	0	15	
Fluoride	mg/L	ND	10	10	10	10.0	100	100	90-110	1	15	
Sulfate	mg/L	0.80J	10	10	10.8	10.8	100	100	90-110	0	15	

MATRIX SPIKE SAMPLE: 58738

Parameter	Units	269032002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	1.0	10	10.4	94	90-110	
Fluoride	mg/L	ND	10	9.4	94	90-110	
Sulfate	mg/L	0.37J	10	9.7	93	90-110	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALIFIERS

Project: Plant Bowen cells
Pace Project No.: 269034

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

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Bowen cells
Pace Project No.: 269034

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
269034001	GWA-51RZ	EPA 3005A	13246	EPA 6020B	13278
269034002	GWC-16R	EPA 3005A	13246	EPA 6020B	13278
269034003	GWA-56	EPA 3005A	13246	EPA 6020B	13278
269034004	GWC-18R	EPA 3005A	13246	EPA 6020B	13278
269034005	GWA-55R	EPA 3005A	13246	EPA 6020B	13278
269034006	GWA-55	EPA 3005A	13246	EPA 6020B	13278
269034007	GWC-22R	EPA 3005A	13246	EPA 6020B	13278
269034008	EQBL090718	EPA 3005A	13246	EPA 6020B	13278
269034009	FBL090718	EPA 3005A	13246	EPA 6020B	13278
269034010	Dup-2	EPA 3005A	13246	EPA 6020B	13278
269034001	GWA-51RZ	EPA 7470A	13194	EPA 7470A	13256
269034002	GWC-16R	EPA 7470A	13194	EPA 7470A	13256
269034003	GWA-56	EPA 7470A	13194	EPA 7470A	13256
269034004	GWC-18R	EPA 7470A	13194	EPA 7470A	13256
269034005	GWA-55R	EPA 7470A	13194	EPA 7470A	13256
269034006	GWA-55	EPA 7470A	13194	EPA 7470A	13256
269034007	GWC-22R	EPA 7470A	13194	EPA 7470A	13256
269034008	EQBL090718	EPA 7470A	13194	EPA 7470A	13256
269034009	FBL090718	EPA 7470A	13194	EPA 7470A	13256
269034010	Dup-2	EPA 7470A	13194	EPA 7470A	13256
269034001	GWA-51RZ	SM 2540C	13253		
269034002	GWC-16R	SM 2540C	13253		
269034003	GWA-56	SM 2540C	13253		
269034004	GWC-18R	SM 2540C	13253		
269034005	GWA-55R	SM 2540C	13253		
269034006	GWA-55	SM 2540C	13253		
269034007	GWC-22R	SM 2540C	13253		
269034008	EQBL090718	SM 2540C	13253		
269034009	FBL090718	SM 2540C	13253		
269034010	Dup-2	SM 2540C	13253		
269034001	GWA-51RZ	EPA 300.0	13207		
269034002	GWC-16R	EPA 300.0	13207		
269034003	GWA-56	EPA 300.0	13207		
269034004	GWC-18R	EPA 300.0	13207		
269034005	GWA-55R	EPA 300.0	13207		
269034006	GWA-55	EPA 300.0	13207		
269034007	GWC-22R	EPA 300.0	13207		
269034008	EQBL090718	EPA 300.0	13207		
269034009	FBL090718	EPA 300.0	13207		
269034010	Dup-2	EPA 300.0	13207		

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Georgia Power - Coal Combustion Residuals	Report To:	Joju Abraham	Attention:	scsinvoices@southernco.com
Address:	2480 Maner Road	Copy To:	Wood Environmental	Company Name:	
	Atlanta, GA 30339			Address:	
Email:	jabraham@southernco.com	Purchase Order #:	SCS10348606	Pace Quote:	
Phone:	(404)506-7239 Fax	Project Name:	Plant Bowen Cells - State List	Pace Project Manager:	betsy.mcdaniel@pacelabs.com,
Requested Due Date:		Project #:		Pace Profile #:	317 5

Regulatory Agency	
State / Location	GA

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Requested Analysis Filtered (Y/N) Y/N	Analyses Test: TDS, Cl, F, SO4	Metals 6020 *	ASH TEST Mercury	Residual Chlorine (Y/N)
1	GWA-51R2	WT	G	9/7/18	0917				2	1		1							X	X	X	
2	GWC-16R	WT	G	9/7/18	0926				2	1		1							X	X	X	
3	GWA-56	WT	G	9/7/18	1046				2	1		1							X	X	X	
4	GWC-16R	WT	G	9/7/18	1058				2	1		1							X	X	X	
5	GWA-55R	WT	G	9/7/18	1055				2	1		1							X	X	X	
6	GWA-55	WT	G	9/7/18	1255				2	1		1							X	X	X	
7	GWC-22R	WT	G	9/7/18	1321				2	1		1							X	X	X	
8	EQBLK090718	WT	G	9/7/18	1355				2	1		1							X	X	X	
9	FBLK090718	WT	G	9/7/18	1400				2	1		1							X	X	X	
10	DUP-2	WT	G	9/7/18	—				2	1		1							X	X	X	
11																						
12																						

WO# : 269034

269034

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
* Metals State List: Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Pb, Mg, Ni, K, Se, Ag, Na, Tl, V, Zn		9/7/18	1640	M Dalman	09/07/18	1640				
							0.1	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER: DATE Signed: 9/7/18

Sample Condition Upon Receipt

Pace Analytical

Client Name: GA Power

Project #

WO#: 269034

PM: BM Due Date: 09/14/18

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 0.1 Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: 9/7/18 MK

Temp should be above freezing to 6°C

			Comments:
Chain of Custody Present:	☑Yes	☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes	☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes	☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes	☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes	☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes	☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes	☑No ☐N/A	7.
Sufficient Volume:	☑Yes	☐No ☐N/A	8.
Correct Containers Used:	☑Yes	☐No ☐N/A	9.
-Pace Containers Used:	☑Yes	☐No ☐N/A	
Containers Intact:	☑Yes	☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes	☐No ☑N/A	11.
Sample Labels match COC:	☑Yes	☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W			
All containers needing preservation have been checked.	☑Yes	☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes	☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes	☑No	Initial when completed: Lot # of added preservative:
Samples checked for dechlorination:	☐Yes	☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes	☐No ☑N/A	15.
Trip Blank Present:	☐Yes	☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes	☐No ☑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).

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

September 18, 2018

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

RE: Project: Plant Bowen cells
Pace Project No.: 269088

Dear Joju Abraham:
Enclosed are the analytical results for sample(s) received by the laboratory on September 11, 2018. 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: Maria Padilla, Georgia Power
Rebecca Thornton, Pace Analytical Atlanta
Greg Wrenn, Wood PLC

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

CERTIFICATIONS

Project: Plant Bowen cells
Pace Project No.: 269088

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
Texas Certification #: T104704397-08-TX
Virginia Certification #: 460204

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE SUMMARY

Project: Plant Bowen cells
Pace Project No.: 269088

Lab ID	Sample ID	Matrix	Date Collected	Date Received
269088001	**GWC-19R**	Water	09/10/18 13:05	09/11/18 09:48
269088002	**GWC-20R**	Water	09/10/18 14:42	09/11/18 09:48
269088003	**GWC-21R**	Water	09/10/18 15:44	09/11/18 09:48

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE ANALYTE COUNT

Project: Plant Bowen cells
Pace Project No.: 269088

Lab ID	Sample ID	Method	Analysts	Analytes Reported
269088001	**GWC-19R**	EPA 6020B	CSW	18
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	MWB	3
269088002	**GWC-20R**	EPA 6020B	CSW	18
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	MWB	3
269088003	**GWC-21R**	EPA 6020B	CSW	18
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	MWB	3

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells
Pace Project No.: 269088

Sample: GWC-19R **Lab ID: 269088001** Collected: 09/10/18 13:05 Received: 09/11/18 09:48 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	09/12/18 13:05	09/13/18 18:32	7440-36-0	
Arsenic	**0.00060J**	mg/L	0.0050	0.00057	1	09/12/18 13:05	09/13/18 18:32	7440-38-2	
Barium	**0.016**	mg/L	0.010	0.00078	1	09/12/18 13:05	09/13/18 18:32	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	09/12/18 13:05	09/13/18 18:32	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	09/12/18 13:05	09/13/18 18:32	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	09/12/18 13:05	09/13/18 18:32	7440-43-9	
Calcium	**30.7**	mg/L	25.0	0.69	50	09/12/18 13:05	09/13/18 18:38	7440-70-2	M6
Chromium	ND	mg/L	0.010	0.0016	1	09/12/18 13:05	09/13/18 18:32	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	09/12/18 13:05	09/13/18 18:32	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	09/12/18 13:05	09/13/18 18:32	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	09/12/18 13:05	09/13/18 18:32	7439-92-1	
Nickel	ND	mg/L	0.010	0.00095	1	09/12/18 13:05	09/13/18 18:32	7440-02-0	
Potassium	**0.72**	mg/L	0.10	0.035	1	09/12/18 13:05	09/13/18 18:32	7440-09-7	
Selenium	ND	mg/L	0.010	0.0014	1	09/12/18 13:05	09/13/18 18:32	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	09/12/18 13:05	09/13/18 18:32	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	09/12/18 13:05	09/13/18 18:32	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	09/12/18 13:05	09/13/18 18:32	7440-62-2	
Zinc	**0.0051J**	mg/L	0.010	0.0021	1	09/12/18 13:05	09/13/18 18:32	7440-66-6	B
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	09/12/18 12:10	09/13/18 10:49	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**172**	mg/L	25.0	10.0	1		09/13/18 13:54		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**2.1**	mg/L	0.25	0.024	1		09/14/18 17:15	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		09/14/18 17:15	16984-48-8	
Sulfate	**3.4**	mg/L	1.0	0.017	1		09/14/18 17:15	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells
Pace Project No.: 269088

Sample: GWC-20R **Lab ID: 269088002** Collected: 09/10/18 14:42 Received: 09/11/18 09:48 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	09/12/18 13:05	09/13/18 19:23	7440-36-0	
Arsenic	**0.00061J**	mg/L	0.0050	0.00057	1	09/12/18 13:05	09/13/18 19:23	7440-38-2	
Barium	**0.028**	mg/L	0.010	0.00078	1	09/12/18 13:05	09/13/18 19:23	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	09/12/18 13:05	09/13/18 19:23	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	09/12/18 13:05	09/13/18 19:23	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	09/12/18 13:05	09/13/18 19:23	7440-43-9	
Calcium	**31.6**	mg/L	25.0	0.69	50	09/12/18 13:05	09/13/18 19:29	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	09/12/18 13:05	09/13/18 19:23	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	09/12/18 13:05	09/13/18 19:23	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	09/12/18 13:05	09/13/18 19:23	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	09/12/18 13:05	09/13/18 19:23	7439-92-1	
Nickel	ND	mg/L	0.010	0.00095	1	09/12/18 13:05	09/13/18 19:23	7440-02-0	
Potassium	**0.72**	mg/L	0.10	0.035	1	09/12/18 13:05	09/13/18 19:23	7440-09-7	
Selenium	ND	mg/L	0.010	0.0014	1	09/12/18 13:05	09/13/18 19:23	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	09/12/18 13:05	09/13/18 19:23	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	09/12/18 13:05	09/13/18 19:23	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	09/12/18 13:05	09/13/18 19:23	7440-62-2	
Zinc	**0.012**	mg/L	0.010	0.0021	1	09/12/18 13:05	09/13/18 19:23	7440-66-6	B
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	09/12/18 12:10	09/13/18 10:52	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**184**	mg/L	25.0	10.0	1		09/13/18 13:54		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**1.6**	mg/L	0.25	0.024	1		09/14/18 18:22	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		09/14/18 18:22	16984-48-8	
Sulfate	**1.7**	mg/L	1.0	0.017	1		09/14/18 18:22	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells
Pace Project No.: 269088

Sample: GWC-21R **Lab ID: 269088003** Collected: 09/10/18 15:44 Received: 09/11/18 09:48 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	**0.0033**	mg/L	0.0030	0.00078	1	09/12/18 13:05	09/13/18 19:35	7440-36-0	
Arsenic	**0.0030J**	mg/L	0.0050	0.00057	1	09/12/18 13:05	09/13/18 19:35	7440-38-2	
Barium	**0.016**	mg/L	0.010	0.00078	1	09/12/18 13:05	09/13/18 19:35	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	09/12/18 13:05	09/13/18 19:35	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	09/12/18 13:05	09/13/18 19:35	7440-42-8	
Cadmium	**0.00021J**	mg/L	0.0010	0.000093	1	09/12/18 13:05	09/13/18 19:35	7440-43-9	
Calcium	**61.7**	mg/L	25.0	0.69	50	09/12/18 13:05	09/13/18 19:41	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	09/12/18 13:05	09/13/18 19:35	7440-47-3	
Cobalt	**0.00071J**	mg/L	0.010	0.00052	1	09/12/18 13:05	09/13/18 19:35	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	09/12/18 13:05	09/13/18 19:35	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	09/12/18 13:05	09/13/18 19:35	7439-92-1	
Nickel	**0.0020J**	mg/L	0.010	0.00095	1	09/12/18 13:05	09/13/18 19:35	7440-02-0	
Potassium	**1.5**	mg/L	0.10	0.035	1	09/12/18 13:05	09/13/18 19:35	7440-09-7	
Selenium	ND	mg/L	0.010	0.0014	1	09/12/18 13:05	09/13/18 19:35	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	09/12/18 13:05	09/13/18 19:35	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	09/12/18 13:05	09/13/18 19:35	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	09/12/18 13:05	09/13/18 19:35	7440-62-2	
Zinc	**0.0049J**	mg/L	0.010	0.0021	1	09/12/18 13:05	09/13/18 19:35	7440-66-6	B
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	09/12/18 12:10	09/13/18 10:54	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**328**	mg/L	25.0	10.0	1		09/13/18 13:54		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**3.9**	mg/L	0.25	0.024	1		09/14/18 18:45	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		09/14/18 18:45	16984-48-8	
Sulfate	**4.8**	mg/L	1.0	0.017	1		09/14/18 18:45	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells
Pace Project No.: 269088

QC Batch: 13328 Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
Associated Lab Samples: 269088001, 269088002, 269088003

METHOD BLANK: 59218 Matrix: Water
Associated Lab Samples: 269088001, 269088002, 269088003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00050	0.000036	09/13/18 09:57	

LABORATORY CONTROL SAMPLE: 59219

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	.0025	0.0024	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 59220 59221

Parameter	Units	268954005 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	.0025	.0025	0.0024	0.0024	93	93	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.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells
Pace Project No.: 269088

QC Batch: 13339 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020B MET
Associated Lab Samples: 269088001, 269088002, 269088003

METHOD BLANK: 59266 Matrix: Water
Associated Lab Samples: 269088001, 269088002, 269088003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	09/13/18 18:21	
Arsenic	mg/L	ND	0.0050	0.00057	09/13/18 18:21	
Barium	mg/L	ND	0.010	0.00078	09/13/18 18:21	
Beryllium	mg/L	ND	0.0030	0.000050	09/13/18 18:21	
Boron	mg/L	ND	0.040	0.0039	09/13/18 18:21	
Cadmium	mg/L	ND	0.0010	0.000093	09/13/18 18:21	
Calcium	mg/L	ND	0.50	0.014	09/13/18 18:21	
Chromium	mg/L	ND	0.010	0.0016	09/13/18 18:21	
Cobalt	mg/L	ND	0.010	0.00052	09/13/18 18:21	
Copper	mg/L	ND	0.025	0.0013	09/13/18 18:21	
Lead	mg/L	ND	0.0050	0.00027	09/13/18 18:21	
Nickel	mg/L	ND	0.010	0.00095	09/13/18 18:21	
Potassium	mg/L	ND	0.10	0.035	09/13/18 18:21	
Selenium	mg/L	ND	0.010	0.0014	09/13/18 18:21	
Silver	mg/L	ND	0.010	0.00095	09/13/18 18:21	
Thallium	mg/L	ND	0.0010	0.00014	09/13/18 18:21	
Vanadium	mg/L	ND	0.010	0.0019	09/13/18 18:21	
Zinc	mg/L	0.0044J	0.010	0.0021	09/13/18 18:21	

LABORATORY CONTROL SAMPLE: 59267

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	.1	0.11	105	80-120	
Arsenic	mg/L	.1	0.099	99	80-120	
Barium	mg/L	.1	0.10	103	80-120	
Beryllium	mg/L	.1	0.11	105	80-120	
Boron	mg/L	1	1.0	101	80-120	
Cadmium	mg/L	.1	0.10	102	80-120	
Calcium	mg/L	1	1.0	100	80-120	
Chromium	mg/L	.1	0.095	95	80-120	
Cobalt	mg/L	.1	0.097	97	80-120	
Copper	mg/L	.1	0.098	98	80-120	
Lead	mg/L	.1	0.10	101	80-120	
Nickel	mg/L	.1	0.10	100	80-120	
Potassium	mg/L	1	1.0	105	80-120	
Selenium	mg/L	.1	0.096	96	80-120	
Silver	mg/L	.1	0.099	99	80-120	
Thallium	mg/L	.1	0.10	101	80-120	
Vanadium	mg/L	.1	0.096	96	80-120	
Zinc	mg/L	.1	0.10	102	80-120	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells
Pace Project No.: 269088

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 59268 59269

Parameter	Units	269088001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	.1	.1	0.10	0.10	104	102	75-125	2	20	
Arsenic	mg/L	0.00060J	.1	.1	0.10	0.096	100	95	75-125	5	20	
Barium	mg/L	0.016	.1	.1	0.12	0.12	101	99	75-125	2	20	
Beryllium	mg/L	ND	.1	.1	0.098	0.097	98	97	75-125	1	20	
Boron	mg/L	ND	1	1	0.98	0.94	97	94	75-125	4	20	
Cadmium	mg/L	ND	.1	.1	0.099	0.099	99	99	75-125	0	20	
Calcium	mg/L	30.7	1	1	30.8	28.6	10	-209	75-125	7	20	M6
Chromium	mg/L	ND	.1	.1	0.095	0.096	94	96	75-125	2	20	
Cobalt	mg/L	ND	.1	.1	0.096	0.096	96	96	75-125	0	20	
Copper	mg/L	ND	.1	.1	0.094	0.092	94	92	75-125	2	20	
Lead	mg/L	ND	.1	.1	0.098	0.097	98	97	75-125	1	20	
Nickel	mg/L	ND	.1	.1	0.094	0.095	94	94	75-125	1	20	
Potassium	mg/L	0.72	1	1	1.7	1.6	97	88	75-125	5	20	
Selenium	mg/L	ND	.1	.1	0.097	0.092	97	92	75-125	5	20	
Silver	mg/L	ND	.1	.1	0.099	0.098	99	98	75-125	1	20	
Thallium	mg/L	ND	.1	.1	0.098	0.098	98	98	75-125	0	20	
Vanadium	mg/L	ND	.1	.1	0.098	0.097	97	97	75-125	0	20	
Zinc	mg/L	0.0051J	.1	.1	0.10	0.10	96	95	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells
Pace Project No.: 269088

QC Batch: 13434 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 269088001, 269088002, 269088003

LABORATORY CONTROL SAMPLE: 59733

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	408	102	84-108	

SAMPLE DUPLICATE: 59734

Parameter	Units	269192001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	40.0	32.0	22	10	D6

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells
Pace Project No.: 269088

QC Batch: 13508 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 269088001, 269088002, 269088003

METHOD BLANK: 60027 Matrix: Water
Associated Lab Samples: 269088001, 269088002, 269088003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	0.092J	0.25	0.024	09/14/18 16:30	
Fluoride	mg/L	ND	0.30	0.029	09/14/18 16:30	
Sulfate	mg/L	ND	1.0	0.017	09/14/18 16:30	

LABORATORY CONTROL SAMPLE: 60028

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	10	9.5	95	90-110	
Fluoride	mg/L	10	9.9	99	90-110	
Sulfate	mg/L	10	9.5	95	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 60029 60030

Parameter	Units	269088001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	2.1	10	10	11.6	11.6	95	94	90-110	0	15	
Fluoride	mg/L	ND	10	10	9.6	9.5	96	95	90-110	1	15	
Sulfate	mg/L	3.4	10	10	12.8	12.8	94	94	90-110	0	15	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALIFIERS

Project: Plant Bowen cells
Pace Project No.: 269088

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

B	Analyte was detected in the associated method blank.
D6	The precision between the sample and sample duplicate exceeded laboratory control limits.
M6	Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Bowen cells
Pace Project No.: 269088

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
269088001	**GWC-19R**	EPA 3005A	13339	EPA 6020B	13474
269088002	**GWC-20R**	EPA 3005A	13339	EPA 6020B	13474
269088003	**GWC-21R**	EPA 3005A	13339	EPA 6020B	13474
269088001	**GWC-19R**	EPA 7470A	13328	EPA 7470A	13357
269088002	**GWC-20R**	EPA 7470A	13328	EPA 7470A	13357
269088003	**GWC-21R**	EPA 7470A	13328	EPA 7470A	13357
269088001	**GWC-19R**	SM 2540C	13434		
269088002	**GWC-20R**	SM 2540C	13434		
269088003	**GWC-21R**	SM 2540C	13434		
269088001	**GWC-19R**	EPA 300.0	13508		
269088002	**GWC-20R**	EPA 300.0	13508		
269088003	**GWC-21R**	EPA 300.0	13508		

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Georgia Power - Coal Combustion Residuals	Report To:	Joju Abraham	Attention:	scsinvoices@southernco.com
Address:	2480 Maner Road	Copy To:	Wood Environmental	Company Name:	
	Atlanta, GA 30339			Address:	
Email:	jebraham@southernco.com	Purchase Order #:	SCS10348606	Pace Quote:	
Phone:	(404)506-7239 Fax	Project Name:	Plant Bowen Cells - State List	Pace Project Manager:	betsy.mcdaniel@pacelabs.com
Requested Due Date:		Project #:		Pace Profile #:	317.5

Regulatory Agency	
State / Location	GA

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Requested Analysis Filtered (Y/N) Y/N	Analysis Test: TDS, Cl, F, SO4	Metals 6020 *	Hg 7470A SOLID	Residual Chlorine (Y/N)
1	GWC-19R	SL	G	9/10/18	1305				2	1		1							X	X	X	
2	GWC-20R	SL	G	9/10/18	1442				2	1		1							X	X	X	
3	GWC-21R	SL	G	9/10/18	1544				2	1		1							X	X	X	
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

WO# : 269088

269088

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
* Metals State List: Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Pb, Mg, Mn, Ni, K, Se, Ag, Tl, V, Zn	Cindy Mauldin	9/11	9:48	Pace Network	9/11/18	0948	0.4	Y	Y	Y
				M Rahman	09/11/18	1100				

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Veronica Ray, Anthony Crutchfield, Kenny Stephenson

SIGNATURE of SAMPLER: DATE Signed: 9/10/18

Sample Condition Upon Receipt

Pace Analytical

Client Name: Georgia Power Project # _____

WO# : 269088

PM: BM Due Date: 09/18/18

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: 0.4 Biological Tissue is Frozen: Yes No

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 9/11/18 MP

				Comments:
Chain of Custody Present:	☑Yes	☐No	☐N/A	1.
Chain of Custody Filled Out:	☑Yes	☐No	☐N/A	2.
Chain of Custody Relinquished:	☑Yes	☐No	☐N/A	3.
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☑Yes	☐No	☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes	☑No	☐N/A	6.
Rush Turn Around Time Requested:	☐Yes	☑No	☐N/A	7.
Sufficient Volume:	☑Yes	☐No	☐N/A	8.
Correct Containers Used:	☑Yes	☐No	☐N/A	9.
-Pace Containers Used:	☑Yes	☐No	☐N/A	
Containers Intact:	☑Yes	☐No	☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☑N/A	11.
Sample Labels match COC:	☑Yes	☐No	☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W				
All containers needing preservation have been checked.	☑Yes	☐No	☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes	☐No	☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes	☑No		Initial when completed: _____ Lot # of added preservative: _____
Samples checked for dechlorination:	☐Yes	☐No	☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☑N/A	15.
Trip Blank Present:	☐Yes	☐No	☑N/A	16.
Trip Blank Custody Seals Present	☐Yes	☐No	☑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).

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

September 21, 2018

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

RE: Project: Plant Bowen cells
Pace Project No.: 269335

Dear Joju Abraham:
Enclosed are the analytical results for sample(s) received by the laboratory on September 14, 2018. 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: Maria Padilla, Georgia Power
Rebecca Thornton, Pace Analytical Atlanta
Greg Wrenn, Wood PLC

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

CERTIFICATIONS

Project: Plant Bowen cells
Pace Project No.: 269335

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
Texas Certification #: T104704397-08-TX
Virginia Certification #: 460204

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE SUMMARY

Project: Plant Bowen cells
Pace Project No.: 269335

Lab ID	Sample ID	Matrix	Date Collected	Date Received
269335001	**GWC-17R**	Water	09/11/18 09:47	09/14/18 17:00
269335002	**GWC-23R**	Water	09/11/18 10:50	09/14/18 17:00
269335003	**GWA-53**	Water	09/11/18 11:18	09/14/18 17:00
269335004	**GWC-24R**	Water	09/11/18 12:07	09/14/18 17:00
269335005	**GWC-25R**	Water	09/11/18 12:45	09/14/18 17:00
269335006	**GWA-53R**	Water	09/11/18 15:47	09/14/18 17:00
269335007	**GWC-18**	Water	09/11/18 16:54	09/14/18 17:00
269335008	**Dup-3**	Water	09/11/18 00:00	09/14/18 17:00
269335009	**FBL091118**	Water	09/11/18 15:05	09/14/18 17:00
269335010	**EQBL091118**	Water	09/11/18 15:10	09/14/18 17:00

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE ANALYTE COUNT

Project: Plant Bowen cells
Pace Project No.: 269335

Lab ID	Sample ID	Method	Analysts	Analytes Reported
269335001	**GWC-17R**	EPA 6020B	KLH	17
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
269335002	**GWC-23R**	EPA 6020B	KLH	17
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
269335003	**GWA-53**	EPA 6020B	KLH	17
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
269335004	**GWC-24R**	EPA 6020B	KLH	17
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
269335005	**GWC-25R**	EPA 6020B	KLH	17
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
269335006	**GWA-53R**	EPA 6020B	KLH	17
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
269335007	**GWC-18**	EPA 6020B	KLH	17
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
269335008	**Dup-3**	EPA 6020B	KLH	17
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
269335009	**FBL091118**	EPA 6020B	KLH	17
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
269335010	**EQBL091118**	EPA 6020B	KLH	17

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE ANALYTE COUNT

Project: Plant Bowen cells
Pace Project No.: 269335

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells
Pace Project No.: 269335

Sample: GWC-17R **Lab ID: 269335001** Collected: 09/11/18 09:47 Received: 09/14/18 17:00 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	09/17/18 15:45	09/18/18 22:25	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	09/17/18 15:45	09/18/18 22:25	7440-38-2	
Barium	**0.019**	mg/L	0.010	0.00078	1	09/17/18 15:45	09/18/18 22:25	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	09/17/18 15:45	09/18/18 22:25	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	09/17/18 15:45	09/18/18 22:25	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	09/17/18 15:45	09/18/18 22:25	7440-43-9	
Calcium	**63.2**	mg/L	25.0	0.69	50	09/17/18 15:45	09/18/18 22:30	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	09/17/18 15:45	09/18/18 22:25	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	09/17/18 15:45	09/18/18 22:25	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	09/17/18 15:45	09/18/18 22:25	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	09/17/18 15:45	09/18/18 22:25	7439-92-1	
Nickel	ND	mg/L	0.010	0.00095	1	09/17/18 15:45	09/18/18 22:25	7440-02-0	
Selenium	ND	mg/L	0.010	0.0014	1	09/17/18 15:45	09/18/18 22:25	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	09/17/18 15:45	09/18/18 22:25	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	09/17/18 15:45	09/18/18 22:25	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	09/17/18 15:45	09/18/18 22:25	7440-62-2	
Zinc	**0.0040J**	mg/L	0.010	0.0021	1	09/17/18 15:45	09/18/18 22:25	7440-66-6	B
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	09/17/18 16:12	09/18/18 12:24	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**317**	mg/L	25.0	10.0	1		09/17/18 15:46		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**6.7**	mg/L	0.25	0.024	1		09/19/18 05:49	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		09/19/18 05:49	16984-48-8	
Sulfate	**5.8**	mg/L	1.0	0.017	1		09/19/18 05:49	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells
Pace Project No.: 269335

Sample: GWC-23R **Lab ID: 269335002** Collected: 09/11/18 10:50 Received: 09/14/18 17:00 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	09/17/18 15:45	09/18/18 22:36	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	09/17/18 15:45	09/18/18 22:36	7440-38-2	
Barium	**0.023**	mg/L	0.010	0.00078	1	09/17/18 15:45	09/18/18 22:36	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	09/17/18 15:45	09/18/18 22:36	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	09/17/18 15:45	09/18/18 22:36	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	09/17/18 15:45	09/18/18 22:36	7440-43-9	
Calcium	**60.2**	mg/L	25.0	0.69	50	09/17/18 15:45	09/18/18 22:42	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	09/17/18 15:45	09/18/18 22:36	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	09/17/18 15:45	09/18/18 22:36	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	09/17/18 15:45	09/18/18 22:36	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	09/17/18 15:45	09/18/18 22:36	7439-92-1	
Nickel	ND	mg/L	0.010	0.00095	1	09/17/18 15:45	09/18/18 22:36	7440-02-0	
Selenium	ND	mg/L	0.010	0.0014	1	09/17/18 15:45	09/18/18 22:36	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	09/17/18 15:45	09/18/18 22:36	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	09/17/18 15:45	09/18/18 22:36	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	09/17/18 15:45	09/18/18 22:36	7440-62-2	
Zinc	**0.0032J**	mg/L	0.010	0.0021	1	09/17/18 15:45	09/18/18 22:36	7440-66-6	B
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	09/17/18 16:12	09/18/18 12:26	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**295**	mg/L	25.0	10.0	1		09/17/18 15:46		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**2.4**	mg/L	0.25	0.024	1		09/19/18 06:10	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		09/19/18 06:10	16984-48-8	
Sulfate	**14.9**	mg/L	1.0	0.017	1		09/19/18 06:10	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells
Pace Project No.: 269335

Sample: GWA-53 **Lab ID: 269335003** Collected: 09/11/18 11:18 Received: 09/14/18 17:00 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	09/17/18 15:45	09/18/18 22:59	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	09/17/18 15:45	09/18/18 22:59	7440-38-2	
Barium	**0.013**	mg/L	0.010	0.00078	1	09/17/18 15:45	09/18/18 22:59	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	09/17/18 15:45	09/18/18 22:59	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	09/17/18 15:45	09/18/18 22:59	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	09/17/18 15:45	09/18/18 22:59	7440-43-9	
Calcium	**27.3**	mg/L	25.0	0.69	50	09/17/18 15:45	09/18/18 23:05	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	09/17/18 15:45	09/18/18 22:59	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	09/17/18 15:45	09/18/18 22:59	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	09/17/18 15:45	09/18/18 22:59	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	09/17/18 15:45	09/18/18 22:59	7439-92-1	
Nickel	ND	mg/L	0.010	0.00095	1	09/17/18 15:45	09/18/18 22:59	7440-02-0	
Selenium	ND	mg/L	0.010	0.0014	1	09/17/18 15:45	09/18/18 22:59	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	09/17/18 15:45	09/18/18 22:59	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	09/17/18 15:45	09/18/18 22:59	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	09/17/18 15:45	09/18/18 22:59	7440-62-2	
Zinc	**0.0045J**	mg/L	0.010	0.0021	1	09/17/18 15:45	09/18/18 22:59	7440-66-6	B
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	09/17/18 16:12	09/18/18 12:28	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**140**	mg/L	25.0	10.0	1		09/17/18 15:46		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**2.4**	mg/L	0.25	0.024	1		09/19/18 06:30	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		09/19/18 06:30	16984-48-8	
Sulfate	**1.9**	mg/L	1.0	0.017	1		09/19/18 06:30	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells
Pace Project No.: 269335

Sample: GWC-24R **Lab ID: 269335004** Collected: 09/11/18 12:07 Received: 09/14/18 17:00 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	09/17/18 15:45	09/18/18 23:10	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	09/17/18 15:45	09/18/18 23:10	7440-38-2	
Barium	**0.024**	mg/L	0.010	0.00078	1	09/17/18 15:45	09/18/18 23:10	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	09/17/18 15:45	09/18/18 23:10	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	09/17/18 15:45	09/18/18 23:10	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	09/17/18 15:45	09/18/18 23:10	7440-43-9	
Calcium	**29.1**	mg/L	25.0	0.69	50	09/17/18 15:45	09/18/18 23:16	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	09/17/18 15:45	09/18/18 23:10	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	09/17/18 15:45	09/18/18 23:10	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	09/17/18 15:45	09/18/18 23:10	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	09/17/18 15:45	09/18/18 23:10	7439-92-1	
Nickel	ND	mg/L	0.010	0.00095	1	09/17/18 15:45	09/18/18 23:10	7440-02-0	
Selenium	ND	mg/L	0.010	0.0014	1	09/17/18 15:45	09/18/18 23:10	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	09/17/18 15:45	09/18/18 23:10	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	09/17/18 15:45	09/18/18 23:10	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	09/17/18 15:45	09/18/18 23:10	7440-62-2	
Zinc	**0.0038J**	mg/L	0.010	0.0021	1	09/17/18 15:45	09/18/18 23:10	7440-66-6	B
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	**0.000039J**	mg/L	0.00050	0.000036	1	09/17/18 16:12	09/18/18 12:31	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**152**	mg/L	25.0	10.0	1		09/17/18 15:46		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**2.3**	mg/L	0.25	0.024	1		09/19/18 06:51	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		09/19/18 06:51	16984-48-8	
Sulfate	**1.7**	mg/L	1.0	0.017	1		09/19/18 06:51	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells
Pace Project No.: 269335

Sample: GWC-25R **Lab ID: 269335005** Collected: 09/11/18 12:45 Received: 09/14/18 17:00 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	09/17/18 15:45	09/18/18 23:22	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	09/17/18 15:45	09/18/18 23:22	7440-38-2	
Barium	**0.015**	mg/L	0.010	0.00078	1	09/17/18 15:45	09/18/18 23:22	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	09/17/18 15:45	09/18/18 23:22	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	09/17/18 15:45	09/18/18 23:22	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	09/17/18 15:45	09/18/18 23:22	7440-43-9	
Calcium	**30.9**	mg/L	25.0	0.69	50	09/17/18 15:45	09/18/18 23:28	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	09/17/18 15:45	09/18/18 23:22	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	09/17/18 15:45	09/18/18 23:22	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	09/17/18 15:45	09/18/18 23:22	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	09/17/18 15:45	09/18/18 23:22	7439-92-1	
Nickel	ND	mg/L	0.010	0.00095	1	09/17/18 15:45	09/18/18 23:22	7440-02-0	
Selenium	ND	mg/L	0.010	0.0014	1	09/17/18 15:45	09/18/18 23:22	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	09/17/18 15:45	09/18/18 23:22	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	09/17/18 15:45	09/18/18 23:22	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	09/17/18 15:45	09/18/18 23:22	7440-62-2	
Zinc	**0.0029J**	mg/L	0.010	0.0021	1	09/17/18 15:45	09/18/18 23:22	7440-66-6	B
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	09/17/18 16:12	09/18/18 12:33	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**153**	mg/L	25.0	10.0	1		09/17/18 15:46		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**2.4**	mg/L	0.25	0.024	1		09/19/18 07:12	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		09/19/18 07:12	16984-48-8	
Sulfate	**1.7**	mg/L	1.0	0.017	1		09/19/18 07:12	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells
Pace Project No.: 269335

Sample: GWA-53R **Lab ID: 269335006** Collected: 09/11/18 15:47 Received: 09/14/18 17:00 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	**0.0033**	mg/L	0.0030	0.00078	1	09/17/18 15:45	09/18/18 23:33	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	09/17/18 15:45	09/18/18 23:33	7440-38-2	
Barium	**0.015**	mg/L	0.010	0.00078	1	09/17/18 15:45	09/18/18 23:33	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	09/17/18 15:45	09/18/18 23:33	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	09/17/18 15:45	09/18/18 23:33	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	09/17/18 15:45	09/18/18 23:33	7440-43-9	
Calcium	**26.3**	mg/L	25.0	0.69	50	09/17/18 15:45	09/18/18 23:39	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	09/17/18 15:45	09/18/18 23:33	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	09/17/18 15:45	09/18/18 23:33	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	09/17/18 15:45	09/18/18 23:33	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	09/17/18 15:45	09/18/18 23:33	7439-92-1	
Nickel	ND	mg/L	0.010	0.00095	1	09/17/18 15:45	09/18/18 23:33	7440-02-0	
Selenium	ND	mg/L	0.010	0.0014	1	09/17/18 15:45	09/18/18 23:33	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	09/17/18 15:45	09/18/18 23:33	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	09/17/18 15:45	09/18/18 23:33	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	09/17/18 15:45	09/18/18 23:33	7440-62-2	
Zinc	**0.0035J**	mg/L	0.010	0.0021	1	09/17/18 15:45	09/18/18 23:33	7440-66-6	B
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	**0.000048J**	mg/L	0.00050	0.000036	1	09/17/18 16:12	09/18/18 12:35	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**142**	mg/L	25.0	10.0	1		09/17/18 15:51		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**2.4**	mg/L	0.25	0.024	1		09/19/18 07:32	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		09/19/18 07:32	16984-48-8	
Sulfate	**1.8**	mg/L	1.0	0.017	1		09/19/18 07:32	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells
Pace Project No.: 269335

Sample: GWC-18 **Lab ID: 269335007** Collected: 09/11/18 16:54 Received: 09/14/18 17:00 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	09/17/18 15:45	09/18/18 23:45	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	09/17/18 15:45	09/18/18 23:45	7440-38-2	
Barium	**0.019**	mg/L	0.010	0.00078	1	09/17/18 15:45	09/18/18 23:45	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	09/17/18 15:45	09/18/18 23:45	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	09/17/18 15:45	09/18/18 23:45	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	09/17/18 15:45	09/18/18 23:45	7440-43-9	
Calcium	**18.1J**	mg/L	25.0	0.69	50	09/17/18 15:45	09/18/18 23:51	7440-70-2	D3
Chromium	**0.0017J**	mg/L	0.010	0.0016	1	09/17/18 15:45	09/18/18 23:45	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	09/17/18 15:45	09/18/18 23:45	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	09/17/18 15:45	09/18/18 23:45	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	09/17/18 15:45	09/18/18 23:45	7439-92-1	
Nickel	ND	mg/L	0.010	0.00095	1	09/17/18 15:45	09/18/18 23:45	7440-02-0	
Selenium	ND	mg/L	0.010	0.0014	1	09/17/18 15:45	09/18/18 23:45	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	09/17/18 15:45	09/18/18 23:45	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	09/17/18 15:45	09/18/18 23:45	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	09/17/18 15:45	09/18/18 23:45	7440-62-2	
Zinc	**0.0038J**	mg/L	0.010	0.0021	1	09/17/18 15:45	09/18/18 23:45	7440-66-6	B
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	**0.000049J**	mg/L	0.00050	0.000036	1	09/17/18 16:12	09/18/18 12:38	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**102**	mg/L	25.0	10.0	1		09/17/18 15:51		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**2.3**	mg/L	0.25	0.024	1		09/19/18 09:21	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		09/19/18 09:21	16984-48-8	
Sulfate	**2.0**	mg/L	1.0	0.017	1		09/19/18 09:21	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells
Pace Project No.: 269335

Sample: Dup-3 **Lab ID: 269335008** Collected: 09/11/18 00:00 Received: 09/14/18 17:00 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	09/17/18 15:45	09/19/18 00:08	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	09/17/18 15:45	09/19/18 00:08	7440-38-2	
Barium	**0.013**	mg/L	0.010	0.00078	1	09/17/18 15:45	09/19/18 00:08	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	09/17/18 15:45	09/19/18 00:08	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	09/17/18 15:45	09/19/18 00:08	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	09/17/18 15:45	09/19/18 00:08	7440-43-9	
Calcium	**27.9**	mg/L	25.0	0.69	50	09/17/18 15:45	09/19/18 00:13	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	09/17/18 15:45	09/19/18 00:08	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	09/17/18 15:45	09/19/18 00:08	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	09/17/18 15:45	09/19/18 00:08	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	09/17/18 15:45	09/19/18 00:08	7439-92-1	
Nickel	ND	mg/L	0.010	0.00095	1	09/17/18 15:45	09/19/18 00:08	7440-02-0	
Selenium	ND	mg/L	0.010	0.0014	1	09/17/18 15:45	09/19/18 00:08	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	09/17/18 15:45	09/19/18 00:08	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	09/17/18 15:45	09/19/18 00:08	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	09/17/18 15:45	09/19/18 00:08	7440-62-2	
Zinc	**0.0036J**	mg/L	0.010	0.0021	1	09/17/18 15:45	09/19/18 00:08	7440-66-6	B
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	09/17/18 16:12	09/18/18 12:45	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**131**	mg/L	25.0	10.0	1		09/17/18 15:51		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**2.4**	mg/L	0.25	0.024	1		09/19/18 09:43	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		09/19/18 09:43	16984-48-8	
Sulfate	**1.9**	mg/L	1.0	0.017	1		09/19/18 09:43	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells
Pace Project No.: 269335

Sample: FBL091118 **Lab ID: 269335009** Collected: 09/11/18 15:05 Received: 09/14/18 17:00 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	09/17/18 15:45	09/19/18 00:25	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	09/17/18 15:45	09/19/18 00:25	7440-38-2	
Barium	ND	mg/L	0.010	0.00078	1	09/17/18 15:45	09/19/18 00:25	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	09/17/18 15:45	09/19/18 00:25	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	09/17/18 15:45	09/19/18 00:25	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	09/17/18 15:45	09/19/18 00:25	7440-43-9	
Calcium	ND	mg/L	0.50	0.014	1	09/17/18 15:45	09/19/18 00:25	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	09/17/18 15:45	09/19/18 00:25	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	09/17/18 15:45	09/19/18 00:25	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	09/17/18 15:45	09/19/18 00:25	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	09/17/18 15:45	09/19/18 00:25	7439-92-1	
Nickel	ND	mg/L	0.010	0.00095	1	09/17/18 15:45	09/19/18 00:25	7440-02-0	
Selenium	ND	mg/L	0.010	0.0014	1	09/17/18 15:45	09/19/18 00:25	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	09/17/18 15:45	09/19/18 00:25	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	09/17/18 15:45	09/19/18 00:25	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	09/17/18 15:45	09/19/18 00:25	7440-62-2	
Zinc	**0.0036J**	mg/L	0.010	0.0021	1	09/17/18 15:45	09/19/18 00:25	7440-66-6	B
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	**0.000043J**	mg/L	0.00050	0.000036	1	09/17/18 16:12	09/18/18 12:47	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	ND	mg/L	25.0	10.0	1		09/17/18 15:51		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**0.064J**	mg/L	0.25	0.024	1		09/19/18 10:26	16887-00-6	B
Fluoride	ND	mg/L	0.30	0.029	1		09/19/18 10:26	16984-48-8	
Sulfate	ND	mg/L	1.0	0.017	1		09/19/18 10:26	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells
Pace Project No.: 269335

Sample: EQBL091118 **Lab ID: 269335010** Collected: 09/11/18 15:10 Received: 09/14/18 17:00 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	09/17/18 15:45	09/19/18 00:31	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	09/17/18 15:45	09/19/18 00:31	7440-38-2	
Barium	ND	mg/L	0.010	0.00078	1	09/17/18 15:45	09/19/18 00:31	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	09/17/18 15:45	09/19/18 00:31	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	09/17/18 15:45	09/19/18 00:31	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	09/17/18 15:45	09/19/18 00:31	7440-43-9	
Calcium	ND	mg/L	0.50	0.014	1	09/17/18 15:45	09/19/18 00:31	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	09/17/18 15:45	09/19/18 00:31	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	09/17/18 15:45	09/19/18 00:31	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	09/17/18 15:45	09/19/18 00:31	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	09/17/18 15:45	09/19/18 00:31	7439-92-1	
Nickel	ND	mg/L	0.010	0.00095	1	09/17/18 15:45	09/19/18 00:31	7440-02-0	
Selenium	ND	mg/L	0.010	0.0014	1	09/17/18 15:45	09/19/18 00:31	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	09/17/18 15:45	09/19/18 00:31	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	09/17/18 15:45	09/19/18 00:31	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	09/17/18 15:45	09/19/18 00:31	7440-62-2	
Zinc	**0.0039J**	mg/L	0.010	0.0021	1	09/17/18 15:45	09/19/18 00:31	7440-66-6	B
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	09/17/18 16:12	09/18/18 12:50	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	ND	mg/L	25.0	10.0	1		09/17/18 15:51		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**0.073J**	mg/L	0.25	0.024	1		09/19/18 10:48	16887-00-6	B
Fluoride	ND	mg/L	0.30	0.029	1		09/19/18 10:48	16984-48-8	
Sulfate	ND	mg/L	1.0	0.017	1		09/19/18 10:48	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells
Pace Project No.: 269335

QC Batch: 13628 Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
Associated Lab Samples: 269335001, 269335002, 269335003, 269335004, 269335005, 269335006, 269335007, 269335008, 269335009, 269335010

METHOD BLANK: 60728 Matrix: Water
Associated Lab Samples: 269335001, 269335002, 269335003, 269335004, 269335005, 269335006, 269335007, 269335008, 269335009, 269335010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00050	0.000036	09/18/18 11:39	

LABORATORY CONTROL SAMPLE: 60729

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	.0025	0.0026	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 60730 60731

Parameter	Units	269334003 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	.0025	.0025	0.0026	0.0025	102	99	75-125	3	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells
Pace Project No.: 269335

QC Batch: 13609 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020B MET
Associated Lab Samples: 269335001, 269335002, 269335003, 269335004, 269335005, 269335006, 269335007, 269335008, 269335009, 269335010

METHOD BLANK: 60653 Matrix: Water
Associated Lab Samples: 269335001, 269335002, 269335003, 269335004, 269335005, 269335006, 269335007, 269335008, 269335009, 269335010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	09/18/18 19:39	
Arsenic	mg/L	ND	0.0050	0.00057	09/18/18 19:39	
Barium	mg/L	ND	0.010	0.00078	09/18/18 19:39	
Beryllium	mg/L	ND	0.0030	0.000050	09/18/18 19:39	
Boron	mg/L	ND	0.040	0.0039	09/18/18 19:39	
Cadmium	mg/L	ND	0.0010	0.000093	09/18/18 19:39	
Calcium	mg/L	ND	0.50	0.014	09/18/18 19:39	
Chromium	mg/L	ND	0.010	0.0016	09/18/18 19:39	
Cobalt	mg/L	ND	0.010	0.00052	09/18/18 19:39	
Copper	mg/L	ND	0.025	0.0013	09/18/18 19:39	
Lead	mg/L	ND	0.0050	0.00027	09/18/18 19:39	
Nickel	mg/L	ND	0.010	0.00095	09/18/18 19:39	
Selenium	mg/L	ND	0.010	0.0014	09/18/18 19:39	
Silver	mg/L	ND	0.010	0.00095	09/18/18 19:39	
Thallium	mg/L	ND	0.0010	0.00014	09/18/18 19:39	
Vanadium	mg/L	ND	0.010	0.0019	09/18/18 19:39	
Zinc	mg/L	0.0036J	0.010	0.0021	09/18/18 19:39	

LABORATORY CONTROL SAMPLE: 60654

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	.1	0.10	105	80-120	
Arsenic	mg/L	.1	0.099	99	80-120	
Barium	mg/L	.1	0.10	102	80-120	
Beryllium	mg/L	.1	0.10	100	80-120	
Boron	mg/L	1	0.97	97	80-120	
Cadmium	mg/L	.1	0.10	102	80-120	
Calcium	mg/L	1	1.0	104	80-120	
Chromium	mg/L	.1	0.099	99	80-120	
Cobalt	mg/L	.1	0.10	100	80-120	
Copper	mg/L	.1	0.099	99	80-120	
Lead	mg/L	.1	0.099	99	80-120	
Nickel	mg/L	.1	0.10	101	80-120	
Selenium	mg/L	.1	0.097	97	80-120	
Silver	mg/L	.1	0.10	102	80-120	
Thallium	mg/L	.1	0.098	98	80-120	
Vanadium	mg/L	.1	0.10	100	80-120	
Zinc	mg/L	.1	0.11	111	80-120	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
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(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells
Pace Project No.: 269335

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 60655 60656

Parameter	Units	269334001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	.1	.1	0.10	0.10	104	103	75-125	1	20	
Arsenic	mg/L	ND	.1	.1	0.10	0.099	102	98	75-125	4	20	
Barium	mg/L	0.022	.1	.1	0.14	0.13	116	112	75-125	2	20	
Beryllium	mg/L	ND	.1	.1	0.098	0.099	98	98	75-125	1	20	
Boron	mg/L	ND	1	1	0.96	0.97	96	97	75-125	1	20	
Cadmium	mg/L	ND	.1	.1	0.10	0.10	104	102	75-125	2	20	
Calcium	mg/L	25.1	1	1	25.6	24.8J	52	-28	75-125	3	20	M6
Chromium	mg/L	ND	.1	.1	0.10	0.10	103	100	75-125	3	20	
Cobalt	mg/L	ND	.1	.1	0.099	0.10	99	99	75-125	1	20	
Copper	mg/L	ND	.1	.1	0.099	0.099	98	98	75-125	0	20	
Lead	mg/L	ND	.1	.1	0.098	0.098	98	98	75-125	0	20	
Nickel	mg/L	ND	.1	.1	0.099	0.099	99	99	75-125	0	20	
Selenium	mg/L	ND	.1	.1	0.10	0.093	101	92	75-125	9	20	
Silver	mg/L	ND	.1	.1	0.10	0.10	102	101	75-125	1	20	
Thallium	mg/L	ND	.1	.1	0.099	0.099	99	99	75-125	0	20	
Vanadium	mg/L	ND	.1	.1	0.10	0.10	102	101	75-125	2	20	
Zinc	mg/L	0.0033J	.1	.1	0.11	0.10	103	102	75-125	2	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells
Pace Project No.: 269335

QC Batch: 13622 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 269335001, 269335002, 269335003, 269335004, 269335005, 269335006, 269335007, 269335008, 269335009, 269335010

LABORATORY CONTROL SAMPLE: 60712

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	386	96	84-108	

SAMPLE DUPLICATE: 60713

Parameter	Units	269335001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	317	325	2	10	

SAMPLE DUPLICATE: 60714

Parameter	Units	269231003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	286	284	1	10	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells
Pace Project No.: 269335

QC Batch: 13668 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 269335001, 269335002, 269335003, 269335004, 269335005, 269335006, 269335007, 269335008, 269335009, 269335010

METHOD BLANK: 60888 Matrix: Water
Associated Lab Samples: 269335001, 269335002, 269335003, 269335004, 269335005, 269335006, 269335007, 269335008, 269335009, 269335010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	0.058J	0.25	0.024	09/19/18 03:45	
Fluoride	mg/L	ND	0.30	0.029	09/19/18 03:45	
Sulfate	mg/L	ND	1.0	0.017	09/19/18 03:45	

LABORATORY CONTROL SAMPLE: 60889

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	10	10.3	103	90-110	
Fluoride	mg/L	10	10.2	102	90-110	
Sulfate	mg/L	10	10.1	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 60890 60891

Parameter	Units	269334009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	0.076J	10	10	10.2	10.2	102	101	90-110	0	15	
Fluoride	mg/L	ND	10	10	10.1	10.2	101	102	90-110	0	15	
Sulfate	mg/L	ND	10	10	10.0	10.1	100	101	90-110	0	15	

MATRIX SPIKE SAMPLE: 60892

Parameter	Units	269334010 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	1.4	10	11.6	102	90-110	
Fluoride	mg/L	ND	10	10.5	105	90-110	
Sulfate	mg/L	1.8	10	12.0	102	90-110	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALIFIERS

Project: Plant Bowen cells
Pace Project No.: 269335

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

Pace Analytical Services, LLC
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Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Bowen cells
Pace Project No.: 269335

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
269335001	**GWC-17R**	EPA 3005A	13609	EPA 6020B	13739
269335002	**GWC-23R**	EPA 3005A	13609	EPA 6020B	13739
269335003	**GWA-53**	EPA 3005A	13609	EPA 6020B	13739
269335004	**GWC-24R**	EPA 3005A	13609	EPA 6020B	13739
269335005	**GWC-25R**	EPA 3005A	13609	EPA 6020B	13739
269335006	**GWA-53R**	EPA 3005A	13609	EPA 6020B	13739
269335007	**GWC-18**	EPA 3005A	13609	EPA 6020B	13739
269335008	**Dup-3**	EPA 3005A	13609	EPA 6020B	13739
269335009	**FBL091118**	EPA 3005A	13609	EPA 6020B	13739
269335010	**EQBL091118**	EPA 3005A	13609	EPA 6020B	13739
269335001	**GWC-17R**	EPA 7470A	13628	EPA 7470A	13678
269335002	**GWC-23R**	EPA 7470A	13628	EPA 7470A	13678
269335003	**GWA-53**	EPA 7470A	13628	EPA 7470A	13678
269335004	**GWC-24R**	EPA 7470A	13628	EPA 7470A	13678
269335005	**GWC-25R**	EPA 7470A	13628	EPA 7470A	13678
269335006	**GWA-53R**	EPA 7470A	13628	EPA 7470A	13678
269335007	**GWC-18**	EPA 7470A	13628	EPA 7470A	13678
269335008	**Dup-3**	EPA 7470A	13628	EPA 7470A	13678
269335009	**FBL091118**	EPA 7470A	13628	EPA 7470A	13678
269335010	**EQBL091118**	EPA 7470A	13628	EPA 7470A	13678
269335001	**GWC-17R**	SM 2540C	13622		
269335002	**GWC-23R**	SM 2540C	13622		
269335003	**GWA-53**	SM 2540C	13622		
269335004	**GWC-24R**	SM 2540C	13622		
269335005	**GWC-25R**	SM 2540C	13622		
269335006	**GWA-53R**	SM 2540C	13622		
269335007	**GWC-18**	SM 2540C	13622		
269335008	**Dup-3**	SM 2540C	13622		
269335009	**FBL091118**	SM 2540C	13622		
269335010	**EQBL091118**	SM 2540C	13622		
269335001	**GWC-17R**	EPA 300.0	13668		
269335002	**GWC-23R**	EPA 300.0	13668		
269335003	**GWA-53**	EPA 300.0	13668		
269335004	**GWC-24R**	EPA 300.0	13668		
269335005	**GWC-25R**	EPA 300.0	13668		
269335006	**GWA-53R**	EPA 300.0	13668		
269335007	**GWC-18**	EPA 300.0	13668		
269335008	**Dup-3**	EPA 300.0	13668		
269335009	**FBL091118**	EPA 300.0	13668		
269335010	**EQBL091118**	EPA 300.0	13668		

REPORT OF LABORATORY ANALYSIS

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Georgia Power - Coal Combustion Residuals	Report To:	Joju Abraham	Attention:	scsinvoices@southernco.com
Address:	2480 Maner Road	Copy To:	Wood Environmental	Company Name:	
	Atlanta, GA 30339			Address:	
Email:	jabraham@southernco.com	Purchase Order #:	SCS10348606	Pace Quote:	
Phone:	(404)506-7239 Fax	Project Name:	Plant Bowen Cells - State List	Pace Project Manager:	betsy.mcdaniel@pacelabs.com,
Requested Due Date:		Project #:		Pace Profile #:	317 5

Regulatory Agency

State / Location: GA

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	TDS, Cl, F, SO4	Metals 6020 *	CHLORIDE	Residual Chlorine (Y/N)	
																		Requested Analysis Filtered (Y/N)	N	N	N		
1	GWC-17R	WT	G	9/11/18	0947				2	1		1							X	X	X		
2	GWC-23R	WT	G	9/11/18	1050				2	1		1							X	X	X		
3	GWA-53	WT	G	9/11/18	1158				2	1		1							X	X	X		
4	GWC-24R	WT	G	9/11/18	1207				2	1		1							X	X	X		
5	GWC-25R	WT	G	9/11/18	1245				2	1		1							X	X	X		
6	GWA-53R	WT	G	9/11/18	1547				2	1		1							X	X	X		
7	GWC-18	WT	G	9/11/18	1654				2	1		1							X	X	X		
8	Dup-3	WT	G	9/11/18	—				2	1		1							X	X	X		
9	FBL091118	WT	G	9/11/18	1505				2	1		1							X	X	X		Field Blank
10	EQBL091118	WT	G	9/11/18	1510				2	1		1							X	X	X		Equipment Blank
11																								
12																								

WO# : 269335

269335

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
* Metals State List: Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Pb, Mg, Ni, K, Se, Ag, Na, Tl, V, Zn		9/14/18	1524	MRahman	09/14/18	1700				
							0.8	Y	Y	Y
							TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Keaira Stephenson, Veronica Faye Anderson Cranston

SIGNATURE of SAMPLER: [signature]

DATE Signed: 9/11/18

Sample Condition Upon Receipt

Pace Analytical

Client Name: GA Power

Project # _____

WO# : 269335

PM: BM Due Date: 09/21/18

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 33 Type of Ice: (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 0.8 Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: 9/14/18 MK

Temp should be above freezing to 6°C

				Comments:
Chain of Custody Present:	☑Yes	☐No	☐N/A	1.
Chain of Custody Filled Out:	☑Yes	☐No	☐N/A	2.
Chain of Custody Relinquished:	☑Yes	☐No	☐N/A	3.
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☑Yes	☐No	☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes	☑No	☐N/A	6.
Rush Turn Around Time Requested:	☐Yes	☑No	☐N/A	7.
Sufficient Volume:	☑Yes	☐No	☐N/A	8.
Correct Containers Used:	☑Yes	☐No	☐N/A	9.
-Pace Containers Used:	☑Yes	☐No	☐N/A	
Containers Intact:	☑Yes	☐No	☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☑N/A	11.
Sample Labels match COC:	☑Yes	☐No	☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W				
All containers needing preservation have been checked	☑Yes	☐No	☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes	☐No	☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes	☑No		Initial when completed _____ Lot # of added preservative _____
Samples checked for dechlorination:	☐Yes	☐No	☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☑N/A	15.
Trip Blank Present:	☐Yes	☐No	☑N/A	16.
Trip Blank Custody Seals Present	☐Yes	☐No	☑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).

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

September 21, 2018

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

RE: Project: Plant Bowen cells
Pace Project No.: 269331

Dear Joju Abraham:
Enclosed are the analytical results for sample(s) received by the laboratory on September 14, 2018. 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: Maria Padilla, Georgia Power
Rebecca Thornton, Pace Analytical Atlanta
Greg Wrenn, Wood PLC

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

CERTIFICATIONS

Project: Plant Bowen cells
Pace Project No.: 269331

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
Texas Certification #: T104704397-08-TX
Virginia Certification #: 460204

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE SUMMARY

Project: Plant Bowen cells
Pace Project No.: 269331

Lab ID	Sample ID	Matrix	Date Collected	Date Received
269331001	**GWA-39RZ**	Water	09/14/18 09:20	09/14/18 17:00
269331002	**GWA-42**	Water	09/14/18 10:54	09/14/18 17:00
269331003	**GWC-49Z**	Water	09/14/18 10:11	09/14/18 17:00
269331004	**FBL091418**	Water	09/14/18 11:45	09/14/18 17:00
269331005	**EQBL091418**	Water	09/14/18 11:50	09/14/18 17:00

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE ANALYTE COUNT

Project: Plant Bowen cells
Pace Project No.: 269331

Lab ID	Sample ID	Method	Analysts	Analytes Reported
269331001	**GWA-39RZ**	EPA 6020B	KLH	17
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
269331002	**GWA-42**	EPA 6020B	KLH	17
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
269331003	**GWC-49Z**	EPA 6020B	KLH	17
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
269331004	**FBL091418**	EPA 6020B	KLH	17
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
269331005	**EQBL091418**	EPA 6020B	KLH	17
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells
Pace Project No.: 269331

Sample: GWA-39RZ **Lab ID: 269331001** Collected: 09/14/18 09:20 Received: 09/14/18 17:00 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	**0.0056**	mg/L	0.0030	0.00078	1	09/17/18 15:42	09/18/18 13:17	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	09/17/18 15:42	09/18/18 13:17	7440-38-2	
Barium	**0.015**	mg/L	0.010	0.00078	1	09/17/18 15:42	09/18/18 13:17	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	09/17/18 15:42	09/18/18 13:17	7440-41-7	
Boron	**0.0059J**	mg/L	0.040	0.0039	1	09/17/18 15:42	09/18/18 13:17	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	09/17/18 15:42	09/18/18 13:17	7440-43-9	
Calcium	**29.2**	mg/L	25.0	0.69	50	09/17/18 15:42	09/18/18 13:23	7440-70-2	M6
Chromium	ND	mg/L	0.010	0.0016	1	09/17/18 15:42	09/18/18 13:17	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	09/17/18 15:42	09/18/18 13:17	7440-48-4	
Copper	**0.0020J**	mg/L	0.025	0.0013	1	09/17/18 15:42	09/18/18 13:17	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	09/17/18 15:42	09/18/18 13:17	7439-92-1	
Nickel	ND	mg/L	0.010	0.00095	1	09/17/18 15:42	09/18/18 13:17	7440-02-0	
Selenium	ND	mg/L	0.010	0.0014	1	09/17/18 15:42	09/18/18 13:17	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	09/17/18 15:42	09/18/18 13:17	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	09/17/18 15:42	09/18/18 13:17	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	09/17/18 15:42	09/18/18 13:17	7440-62-2	
Zinc	**0.0038J**	mg/L	0.010	0.0021	1	09/17/18 15:42	09/18/18 13:17	7440-66-6	B
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	**0.000041J**	mg/L	0.00050	0.000036	1	09/17/18 14:50	09/18/18 15:33	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**165**	mg/L	25.0	10.0	1		09/18/18 16:57		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**1.9**	mg/L	0.25	0.024	1		09/18/18 03:36	16887-00-6	
Fluoride	**0.10J**	mg/L	0.30	0.029	1		09/18/18 03:36	16984-48-8	
Sulfate	**11.6**	mg/L	1.0	0.017	1		09/18/18 03:36	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells
Pace Project No.: 269331

Sample: GWA-42 **Lab ID: 269331002** Collected: 09/14/18 10:54 Received: 09/14/18 17:00 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	09/17/18 15:42	09/18/18 14:37	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	09/17/18 15:42	09/18/18 14:37	7440-38-2	
Barium	**0.0065J**	mg/L	0.010	0.00078	1	09/17/18 15:42	09/18/18 14:37	7440-39-3	
Beryllium	**0.00012J**	mg/L	0.0030	0.000050	1	09/17/18 15:42	09/18/18 14:37	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	09/17/18 15:42	09/18/18 14:37	7440-42-8	
Cadmium	**0.00013J**	mg/L	0.0010	0.000093	1	09/17/18 15:42	09/18/18 14:37	7440-43-9	
Calcium	**30.5**	mg/L	25.0	0.69	50	09/17/18 15:42	09/18/18 14:43	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	09/17/18 15:42	09/18/18 14:37	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	09/17/18 15:42	09/18/18 14:37	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	09/17/18 15:42	09/18/18 14:37	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	09/17/18 15:42	09/18/18 14:37	7439-92-1	
Nickel	**0.0012J**	mg/L	0.010	0.00095	1	09/17/18 15:42	09/18/18 14:37	7440-02-0	
Selenium	ND	mg/L	0.010	0.0014	1	09/17/18 15:42	09/18/18 14:37	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	09/17/18 15:42	09/18/18 14:37	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	09/17/18 15:42	09/18/18 14:37	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	09/17/18 15:42	09/18/18 14:37	7440-62-2	
Zinc	**0.0096J**	mg/L	0.010	0.0021	1	09/17/18 15:42	09/18/18 14:37	7440-66-6	B
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	**0.000038J**	mg/L	0.00050	0.000036	1	09/17/18 14:50	09/18/18 15:35	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**139**	mg/L	25.0	10.0	1		09/18/18 16:57		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**2.3**	mg/L	0.25	0.024	1		09/18/18 03:57	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		09/18/18 03:57	16984-48-8	
Sulfate	**1.6**	mg/L	1.0	0.017	1		09/18/18 03:57	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells
Pace Project No.: 269331

Sample: GWC-49Z **Lab ID: 269331003** Collected: 09/14/18 10:11 Received: 09/14/18 17:00 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	**0.00083J**	mg/L	0.0030	0.00078	1	09/17/18 15:42	09/18/18 14:48	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	09/17/18 15:42	09/18/18 14:48	7440-38-2	
Barium	**0.0040J**	mg/L	0.010	0.00078	1	09/17/18 15:42	09/18/18 14:48	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	09/17/18 15:42	09/18/18 14:48	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	09/17/18 15:42	09/18/18 14:48	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	09/17/18 15:42	09/18/18 14:48	7440-43-9	
Calcium	**0.70**	mg/L	0.50	0.014	1	09/17/18 15:42	09/18/18 14:48	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	09/17/18 15:42	09/18/18 14:48	7440-47-3	
Cobalt	**0.0017J**	mg/L	0.010	0.00052	1	09/17/18 15:42	09/18/18 14:48	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	09/17/18 15:42	09/18/18 14:48	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	09/17/18 15:42	09/18/18 14:48	7439-92-1	
Nickel	**0.0024J**	mg/L	0.010	0.00095	1	09/17/18 15:42	09/18/18 14:48	7440-02-0	
Selenium	ND	mg/L	0.010	0.0014	1	09/17/18 15:42	09/18/18 14:48	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	09/17/18 15:42	09/18/18 14:48	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	09/17/18 15:42	09/18/18 14:48	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	09/17/18 15:42	09/18/18 14:48	7440-62-2	
Zinc	**0.0046J**	mg/L	0.010	0.0021	1	09/17/18 15:42	09/18/18 14:48	7440-66-6	B
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	09/17/18 15:24	09/18/18 10:27	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**29.0**	mg/L	25.0	10.0	1		09/18/18 16:57		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**1.1**	mg/L	0.25	0.024	1		09/18/18 04:18	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		09/18/18 04:18	16984-48-8	
Sulfate	**2.4**	mg/L	1.0	0.017	1		09/18/18 04:18	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells
Pace Project No.: 269331

Sample: FBL091418 **Lab ID: 269331004** Collected: 09/14/18 11:45 Received: 09/14/18 17:00 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	09/17/18 15:42	09/18/18 15:00	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	09/17/18 15:42	09/18/18 15:00	7440-38-2	
Barium	ND	mg/L	0.010	0.00078	1	09/17/18 15:42	09/18/18 15:00	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	09/17/18 15:42	09/18/18 15:00	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	09/17/18 15:42	09/18/18 15:00	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	09/17/18 15:42	09/18/18 15:00	7440-43-9	
Calcium	ND	mg/L	0.50	0.014	1	09/17/18 15:42	09/18/18 15:00	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	09/17/18 15:42	09/18/18 15:00	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	09/17/18 15:42	09/18/18 15:00	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	09/17/18 15:42	09/18/18 15:00	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	09/17/18 15:42	09/18/18 15:00	7439-92-1	
Nickel	ND	mg/L	0.010	0.00095	1	09/17/18 15:42	09/18/18 15:00	7440-02-0	
Selenium	ND	mg/L	0.010	0.0014	1	09/17/18 15:42	09/18/18 15:00	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	09/17/18 15:42	09/18/18 15:00	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	09/17/18 15:42	09/18/18 15:00	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	09/17/18 15:42	09/18/18 15:00	7440-62-2	
Zinc	**0.0038J**	mg/L	0.010	0.0021	1	09/17/18 15:42	09/18/18 15:00	7440-66-6	B
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	09/17/18 15:24	09/18/18 10:37	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	ND	mg/L	25.0	10.0	1		09/18/18 16:57		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**0.089J**	mg/L	0.25	0.024	1		09/18/18 04:38	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		09/18/18 04:38	16984-48-8	
Sulfate	ND	mg/L	1.0	0.017	1		09/18/18 04:38	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells
Pace Project No.: 269331

Sample: EQBL091418 **Lab ID: 269331005** Collected: 09/14/18 11:50 Received: 09/14/18 17:00 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	09/17/18 15:42	09/18/18 15:05	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	09/17/18 15:42	09/18/18 15:05	7440-38-2	
Barium	ND	mg/L	0.010	0.00078	1	09/17/18 15:42	09/18/18 15:05	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	09/17/18 15:42	09/18/18 15:05	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	09/17/18 15:42	09/18/18 15:05	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	09/17/18 15:42	09/18/18 15:05	7440-43-9	
Calcium	ND	mg/L	0.50	0.014	1	09/17/18 15:42	09/18/18 15:05	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	09/17/18 15:42	09/18/18 15:05	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	09/17/18 15:42	09/18/18 15:05	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	09/17/18 15:42	09/18/18 15:05	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	09/17/18 15:42	09/18/18 15:05	7439-92-1	
Nickel	ND	mg/L	0.010	0.00095	1	09/17/18 15:42	09/18/18 15:05	7440-02-0	
Selenium	ND	mg/L	0.010	0.0014	1	09/17/18 15:42	09/18/18 15:05	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	09/17/18 15:42	09/18/18 15:05	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	09/17/18 15:42	09/18/18 15:05	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	09/17/18 15:42	09/18/18 15:05	7440-62-2	
Zinc	**0.0040J**	mg/L	0.010	0.0021	1	09/17/18 15:42	09/18/18 15:05	7440-66-6	B
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	09/17/18 15:24	09/18/18 10:44	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	ND	mg/L	25.0	10.0	1		09/18/18 16:57		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**0.081J**	mg/L	0.25	0.024	1		09/18/18 04:59	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		09/18/18 04:59	16984-48-8	
Sulfate	ND	mg/L	1.0	0.017	1		09/18/18 04:59	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells
Pace Project No.: 269331

QC Batch: 13618 Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
Associated Lab Samples: 269331001, 269331002

METHOD BLANK: 60678 Matrix: Water
Associated Lab Samples: 269331001, 269331002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00050	0.000036	09/18/18 14:36	

LABORATORY CONTROL SAMPLE: 60679

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	.0025	0.0026	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 60680 60681

Parameter	Units	269231001 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	.0025	.0025	0.0026	0.0026	103	103	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.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells
Pace Project No.: 269331

QC Batch: 13620 Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
Associated Lab Samples: 269331003, 269331004, 269331005

METHOD BLANK: 60706 Matrix: Water
Associated Lab Samples: 269331003, 269331004, 269331005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00050	0.000036	09/18/18 10:23	

LABORATORY CONTROL SAMPLE: 60707

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	.0025	0.0025	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 60708 60709

Parameter	Units	269331003 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	.0025	.0025	0.0027	0.0026	107	103	75-125	4	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells
Pace Project No.: 269331

QC Batch: 13608 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020B MET
Associated Lab Samples: 269331001, 269331002, 269331003, 269331004, 269331005

METHOD BLANK: 60649 Matrix: Water
Associated Lab Samples: 269331001, 269331002, 269331003, 269331004, 269331005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	09/18/18 13:06	
Arsenic	mg/L	ND	0.0050	0.00057	09/18/18 13:06	
Barium	mg/L	ND	0.010	0.00078	09/18/18 13:06	
Beryllium	mg/L	ND	0.0030	0.000050	09/18/18 13:06	
Boron	mg/L	ND	0.040	0.0039	09/18/18 13:06	
Cadmium	mg/L	ND	0.0010	0.000093	09/18/18 13:06	
Calcium	mg/L	ND	0.50	0.014	09/18/18 13:06	
Chromium	mg/L	ND	0.010	0.0016	09/18/18 13:06	
Cobalt	mg/L	ND	0.010	0.00052	09/18/18 13:06	
Copper	mg/L	ND	0.025	0.0013	09/18/18 13:06	
Lead	mg/L	ND	0.0050	0.00027	09/18/18 13:06	
Nickel	mg/L	ND	0.010	0.00095	09/18/18 13:06	
Selenium	mg/L	ND	0.010	0.0014	09/18/18 13:06	
Silver	mg/L	ND	0.010	0.00095	09/18/18 13:06	
Thallium	mg/L	ND	0.0010	0.00014	09/18/18 13:06	
Vanadium	mg/L	ND	0.010	0.0019	09/18/18 13:06	
Zinc	mg/L	0.0040J	0.010	0.0021	09/18/18 13:06	

LABORATORY CONTROL SAMPLE: 60650

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	.1	0.10	101	80-120	
Arsenic	mg/L	.1	0.097	97	80-120	
Barium	mg/L	.1	0.10	101	80-120	
Beryllium	mg/L	.1	0.10	100	80-120	
Boron	mg/L	1	0.96	96	80-120	
Cadmium	mg/L	.1	0.10	102	80-120	
Calcium	mg/L	1	1.0	100	80-120	
Chromium	mg/L	.1	0.10	101	80-120	
Cobalt	mg/L	.1	0.10	102	80-120	
Copper	mg/L	.1	0.099	99	80-120	
Lead	mg/L	.1	0.10	101	80-120	
Nickel	mg/L	.1	0.10	100	80-120	
Selenium	mg/L	.1	0.096	96	80-120	
Silver	mg/L	.1	0.10	102	80-120	
Thallium	mg/L	.1	0.10	100	80-120	
Vanadium	mg/L	.1	0.10	101	80-120	
Zinc	mg/L	.1	0.11	108	80-120	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells
Pace Project No.: 269331

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 60651 60652

Parameter	Units	269331001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	0.0056	.1	.1	0.11	0.11	101	107	75-125	5	20	
Arsenic	mg/L	ND	.1	.1	0.099	0.10	99	102	75-125	3	20	
Barium	mg/L	0.015	.1	.1	0.13	0.13	112	117	75-125	4	20	
Beryllium	mg/L	ND	.1	.1	0.10	0.10	102	103	75-125	1	20	
Boron	mg/L	0.0059J	1	1	0.99	1.0	98	100	75-125	2	20	
Cadmium	mg/L	ND	.1	.1	0.10	0.10	101	102	75-125	2	20	
Calcium	mg/L	29.2	1	1	31.6	31.5	238	231	75-125	0	20	M6
Chromium	mg/L	ND	.1	.1	0.10	0.10	101	101	75-125	0	20	
Cobalt	mg/L	ND	.1	.1	0.098	0.10	98	101	75-125	4	20	
Copper	mg/L	0.0020J	.1	.1	0.099	0.10	97	98	75-125	0	20	
Lead	mg/L	ND	.1	.1	0.099	0.10	99	101	75-125	3	20	
Nickel	mg/L	ND	.1	.1	0.099	0.10	99	101	75-125	2	20	
Selenium	mg/L	ND	.1	.1	0.097	0.10	97	101	75-125	4	20	
Silver	mg/L	ND	.1	.1	0.10	0.10	101	103	75-125	1	20	
Thallium	mg/L	ND	.1	.1	0.098	0.10	98	103	75-125	4	20	
Vanadium	mg/L	ND	.1	.1	0.10	0.10	102	101	75-125	0	20	
Zinc	mg/L	0.0038J	.1	.1	0.11	0.11	102	104	75-125	2	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells
Pace Project No.: 269331

QC Batch: 13708 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 269331001, 269331002, 269331003, 269331004, 269331005

LABORATORY CONTROL SAMPLE: 61096

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	406	102	84-108	

SAMPLE DUPLICATE: 61097

Parameter	Units	269331005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	ND	ND		10	

SAMPLE DUPLICATE: 61098

Parameter	Units	269329001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	403	426	6	10	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells
Pace Project No.: 269331

QC Batch: 13631 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 269331001, 269331002, 269331003, 269331004, 269331005

METHOD BLANK: 60740 Matrix: Water
Associated Lab Samples: 269331001, 269331002, 269331003, 269331004, 269331005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	0.024	09/17/18 20:22	
Fluoride	mg/L	ND	0.30	0.029	09/17/18 20:22	
Sulfate	mg/L	ND	1.0	0.017	09/17/18 20:22	

LABORATORY CONTROL SAMPLE: 60741

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	10	9.5	95	90-110	
Fluoride	mg/L	10	9.5	95	90-110	
Sulfate	mg/L	10	9.4	94	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 60742 60743

Parameter	Units	268708001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	9.2	20	20	23.0	22.9	69	68	90-110	1	15	M1
Fluoride	mg/L	1.8	20	20	21.0	21.3	96	98	90-110	1	15	
Sulfate	mg/L	1370	20	20	1290	1290	-370	-367	90-110	0	15	E,M1

MATRIX SPIKE SAMPLE: 60744

Parameter	Units	269314001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	304	10	180	-1240	90-110	E,M1
Fluoride	mg/L	0.21	10	9.2	90	90-110	
Sulfate	mg/L	2480	10	674	-18000	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

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALIFIERS

Project: Plant Bowen cells
Pace Project No.: 269331

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.
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.

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Bowen cells
Pace Project No.: 269331

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
269331001	**GWA-39RZ**	EPA 3005A	13608	EPA 6020B	13685
269331002	**GWA-42**	EPA 3005A	13608	EPA 6020B	13685
269331003	**GWC-49Z**	EPA 3005A	13608	EPA 6020B	13685
269331004	**FBL091418**	EPA 3005A	13608	EPA 6020B	13685
269331005	**EQBL091418**	EPA 3005A	13608	EPA 6020B	13685
269331001	**GWA-39RZ**	EPA 7470A	13618	EPA 7470A	13664
269331002	**GWA-42**	EPA 7470A	13618	EPA 7470A	13664
269331003	**GWC-49Z**	EPA 7470A	13620	EPA 7470A	13670
269331004	**FBL091418**	EPA 7470A	13620	EPA 7470A	13670
269331005	**EQBL091418**	EPA 7470A	13620	EPA 7470A	13670
269331001	**GWA-39RZ**	SM 2540C	13708		
269331002	**GWA-42**	SM 2540C	13708		
269331003	**GWC-49Z**	SM 2540C	13708		
269331004	**FBL091418**	SM 2540C	13708		
269331005	**EQBL091418**	SM 2540C	13708		
269331001	**GWA-39RZ**	EPA 300.0	13631		
269331002	**GWA-42**	EPA 300.0	13631		
269331003	**GWC-49Z**	EPA 300.0	13631		
269331004	**FBL091418**	EPA 300.0	13631		
269331005	**EQBL091418**	EPA 300.0	13631		

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Georgia Power - Coal Combustion Residuals	Report To:	Joju Abraham	Attention:	scsinvoices@southernco.com
Address:	2480 Maner Road	Copy To:	Wood Environmental	Company Name:	
	Atlanta, GA 30339			Address:	
Email:	jabraham@southernco.com	Purchase Order #:	SCS10348606	Pace Quote:	
Phone:	(404)506-7239 Fax	Project Name:	Plant Bowen Cells - State List	Pace Project Manager:	betsy mcdaniel@pacelabs.com,
Requested Due Date:		Project #:	Cells 9/18	Pace Profile #:	317.5

Regulatory Agency

State / Location: GA

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HC	NaOH	Na2S2O3	Methanol	Other	Analyses Test: TDS, Cl, F, SO4	Metals 6020 *	CHANGED TO 6020	Residual Chlorine (Y/N)
																		Y/N	N	N	N
1	GWA-39RZ	WT	G	9/14/18	0920				2	1		1						X	X	X	
2	GWA-4RZ	WT	G	9/14/18	1054				2	1		1						X	X	X	
3	GWC-49Z	WT	G	9/14/18	1011				2	1		1						X	X	X	
4	FBLK09141B	WT	G	9/14/18	1145				2	1		1						X	X	X	
5	EQBLK09141B	WT	G	9/14/18	1150				2	1		1						X	X	X	
6																					
7																					
8																					
9																					
10																					
11																					
12																					

WO# : 269331

269331

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
* Metals State List: Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Pb, Mg, Ni, K, Se, Ag, Na, Tl, V, Zn		9/14/18	1542	MZalman	09/14/18	1700				
							0.8	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Keagan Strickland, Veronica Fay, Audrey Compton

SIGNATURE of SAMPLER: DATE Signed: 9/14/18

Sample Condition Upon Receipt

Pace Analytical

Client Name: GA Power

Project #

WO#: 269331

PM: BM Due Date: 09/21/18

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: 33 Type of Ice: (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature: 0.8 Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: 9/14/18 MR

Temp should be above freezing to 6°C

				Comments:
Chain of Custody Present:	☑Yes	☐No	☐N/A	1.
Chain of Custody Filled Out:	☑Yes	☐No	☐N/A	2.
Chain of Custody Relinquished:	☑Yes	☐No	☐N/A	3.
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☑Yes	☐No	☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes	☑No	☐N/A	6.
Rush Turn Around Time Requested:	☐Yes	☑No	☐N/A	7.
Sufficient Volume:	☑Yes	☐No	☐N/A	8.
Correct Containers Used:	☑Yes	☐No	☐N/A	9.
-Pace Containers Used:	☑Yes	☐No	☐N/A	
Containers Intact:	☑Yes	☐No	☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☑N/A	11.
Sample Labels match COC:	☑Yes	☐No	☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W				
All containers needing preservation have been checked.	☑Yes	☐No	☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes	☐No	☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes	☑No		Initial when completed: Lot # of added preservative:
Samples checked for dechlorination:	☐Yes	☐No	☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☑N/A	15.
Trip Blank Present:	☐Yes	☐No	☑N/A	16.
Trip Blank Custody Seals Present	☐Yes	☐No	☑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).

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

September 21, 2018

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

RE: Project: Plant Bowen cells
Pace Project No.: 269333

Dear Joju Abraham:
Enclosed are the analytical results for sample(s) received by the laboratory on September 14, 2018. 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: Maria Padilla, Georgia Power
Rebecca Thornton, Pace Analytical Atlanta
Greg Wrenn, Wood PLC

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

CERTIFICATIONS

Project: Plant Bowen cells
Pace Project No.: 269333

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
Texas Certification #: T104704397-08-TX
Virginia Certification #: 460204

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SAMPLE SUMMARY

Project: Plant Bowen cells
Pace Project No.: 269333

Lab ID	Sample ID	Matrix	Date Collected	Date Received
269333001	**GWC-45**	Water	09/13/18 09:40	09/14/18 17:00
269333002	**GWC-45R**	Water	09/13/18 10:50	09/14/18 17:00
269333003	**GWC-46R**	Water	09/13/18 14:00	09/14/18 17:00
269333004	**GWC-47**	Water	09/13/18 09:38	09/14/18 17:00
269333005	**GWC-47R**	Water	09/13/18 11:42	09/14/18 17:00
269333006	**GWC-48**	Water	09/13/18 13:26	09/14/18 17:00
269333007	**GWC-49R**	Water	09/13/18 15:15	09/14/18 17:00
269333008	**Dup-2**	Water	09/13/18 00:00	09/14/18 17:00

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Plant Bowen cells
Pace Project No.: 269333

Lab ID	Sample ID	Method	Analysts	Analytes Reported
269333001	**GWC-45**	EPA 6020B	KLH	17
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
269333002	**GWC-45R**	EPA 6020B	KLH	17
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
269333003	**GWC-46R**	EPA 6020B	KLH	17
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
269333004	**GWC-47**	EPA 6020B	KLH	17
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
269333005	**GWC-47R**	EPA 6020B	KLH	17
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
269333006	**GWC-48**	EPA 6020B	KLH	17
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
269333007	**GWC-49R**	EPA 6020B	KLH	17
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
269333008	**Dup-2**	EPA 6020B	KLH	17
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3

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ANALYTICAL RESULTS

Project: Plant Bowen cells
Pace Project No.: 269333

Sample: GWC-45 **Lab ID: 269333001** Collected: 09/13/18 09:40 Received: 09/14/18 17:00 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	**0.0029J**	mg/L	0.0030	0.00078	1	09/17/18 15:42	09/18/18 16:11	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	09/17/18 15:42	09/18/18 16:11	7440-38-2	
Barium	**0.0057J**	mg/L	0.010	0.00078	1	09/17/18 15:42	09/18/18 16:11	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	09/17/18 15:42	09/18/18 16:11	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	09/17/18 15:42	09/18/18 16:11	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	09/17/18 15:42	09/18/18 16:11	7440-43-9	
Calcium	**0.79**	mg/L	0.50	0.014	1	09/17/18 15:42	09/18/18 16:11	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	09/17/18 15:42	09/18/18 16:11	7440-47-3	
Cobalt	**0.0010J**	mg/L	0.010	0.00052	1	09/17/18 15:42	09/18/18 16:11	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	09/17/18 15:42	09/18/18 16:11	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	09/17/18 15:42	09/18/18 16:11	7439-92-1	
Nickel	**0.0010J**	mg/L	0.010	0.00095	1	09/17/18 15:42	09/18/18 16:11	7440-02-0	
Selenium	ND	mg/L	0.010	0.0014	1	09/17/18 15:42	09/18/18 16:11	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	09/17/18 15:42	09/18/18 16:11	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	09/17/18 15:42	09/18/18 16:11	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	09/17/18 15:42	09/18/18 16:11	7440-62-2	
Zinc	**0.0032J**	mg/L	0.010	0.0021	1	09/17/18 15:42	09/18/18 16:11	7440-66-6	B
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	09/17/18 15:24	09/18/18 10:56	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**39.0**	mg/L	25.0	10.0	1		09/17/18 16:05		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**0.93**	mg/L	0.25	0.024	1		09/18/18 17:57	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		09/18/18 17:57	16984-48-8	
Sulfate	**1.3**	mg/L	1.0	0.017	1		09/18/18 17:57	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: Plant Bowen cells
Pace Project No.: 269333

Sample: GWC-45R **Lab ID: 269333002** Collected: 09/13/18 10:50 Received: 09/14/18 17:00 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	09/17/18 15:42	09/18/18 16:23	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	09/17/18 15:42	09/18/18 16:23	7440-38-2	
Barium	**0.022**	mg/L	0.010	0.00078	1	09/17/18 15:42	09/18/18 16:23	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	09/17/18 15:42	09/18/18 16:23	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	09/17/18 15:42	09/18/18 16:23	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	09/17/18 15:42	09/18/18 16:23	7440-43-9	
Calcium	**36.1**	mg/L	25.0	0.69	50	09/17/18 15:42	09/18/18 16:28	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	09/17/18 15:42	09/18/18 16:23	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	09/17/18 15:42	09/18/18 16:23	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	09/17/18 15:42	09/18/18 16:23	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	09/17/18 15:42	09/18/18 16:23	7439-92-1	
Nickel	ND	mg/L	0.010	0.00095	1	09/17/18 15:42	09/18/18 16:23	7440-02-0	
Selenium	ND	mg/L	0.010	0.0014	1	09/17/18 15:42	09/18/18 16:23	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	09/17/18 15:42	09/18/18 16:23	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	09/17/18 15:42	09/18/18 16:23	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	09/17/18 15:42	09/18/18 16:23	7440-62-2	
Zinc	**0.0044J**	mg/L	0.010	0.0021	1	09/17/18 15:42	09/18/18 16:23	7440-66-6	B
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	09/17/18 15:24	09/18/18 10:58	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**185**	mg/L	25.0	10.0	1		09/17/18 16:05		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**2.9**	mg/L	0.25	0.024	1		09/18/18 18:18	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		09/18/18 18:18	16984-48-8	
Sulfate	**2.3**	mg/L	1.0	0.017	1		09/18/18 18:18	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells
Pace Project No.: 269333

Sample: GWC-46R **Lab ID: 269333003** Collected: 09/13/18 14:00 Received: 09/14/18 17:00 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	09/17/18 15:42	09/18/18 16:34	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	09/17/18 15:42	09/18/18 16:34	7440-38-2	
Barium	**0.014**	mg/L	0.010	0.00078	1	09/17/18 15:42	09/18/18 16:34	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	09/17/18 15:42	09/18/18 16:34	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	09/17/18 15:42	09/18/18 16:34	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	09/17/18 15:42	09/18/18 16:34	7440-43-9	
Calcium	**45.3**	mg/L	25.0	0.69	50	09/17/18 15:42	09/18/18 16:40	7440-70-2	
Chromium	**0.0041J**	mg/L	0.010	0.0016	1	09/17/18 15:42	09/18/18 16:34	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	09/17/18 15:42	09/18/18 16:34	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	09/17/18 15:42	09/18/18 16:34	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	09/17/18 15:42	09/18/18 16:34	7439-92-1	
Nickel	ND	mg/L	0.010	0.00095	1	09/17/18 15:42	09/18/18 16:34	7440-02-0	
Selenium	ND	mg/L	0.010	0.0014	1	09/17/18 15:42	09/18/18 16:34	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	09/17/18 15:42	09/18/18 16:34	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	09/17/18 15:42	09/18/18 16:34	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	09/17/18 15:42	09/18/18 16:34	7440-62-2	
Zinc	**0.0046J**	mg/L	0.010	0.0021	1	09/17/18 15:42	09/18/18 16:34	7440-66-6	B
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	09/17/18 15:24	09/18/18 11:01	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**263**	mg/L	25.0	10.0	1		09/17/18 16:05		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**1.9**	mg/L	0.25	0.024	1		09/18/18 18:39	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		09/18/18 18:39	16984-48-8	
Sulfate	**7.2**	mg/L	1.0	0.017	1		09/18/18 18:39	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: Plant Bowen cells
Pace Project No.: 269333

Sample: GWC-47 **Lab ID: 269333004** Collected: 09/13/18 09:38 Received: 09/14/18 17:00 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	09/17/18 15:42	09/18/18 16:45	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	09/17/18 15:42	09/18/18 16:45	7440-38-2	
Barium	**0.011**	mg/L	0.010	0.00078	1	09/17/18 15:42	09/18/18 16:45	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	09/17/18 15:42	09/18/18 16:45	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	09/17/18 15:42	09/18/18 16:45	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	09/17/18 15:42	09/18/18 16:45	7440-43-9	
Calcium	**23.8J**	mg/L	25.0	0.69	50	09/17/18 15:42	09/18/18 16:51	7440-70-2	D3
Chromium	ND	mg/L	0.010	0.0016	1	09/17/18 15:42	09/18/18 16:45	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	09/17/18 15:42	09/18/18 16:45	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	09/17/18 15:42	09/18/18 16:45	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	09/17/18 15:42	09/18/18 16:45	7439-92-1	
Nickel	ND	mg/L	0.010	0.00095	1	09/17/18 15:42	09/18/18 16:45	7440-02-0	
Selenium	ND	mg/L	0.010	0.0014	1	09/17/18 15:42	09/18/18 16:45	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	09/17/18 15:42	09/18/18 16:45	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	09/17/18 15:42	09/18/18 16:45	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	09/17/18 15:42	09/18/18 16:45	7440-62-2	
Zinc	**0.031**	mg/L	0.010	0.0021	1	09/17/18 15:42	09/18/18 16:45	7440-66-6	B
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	09/17/18 15:24	09/18/18 11:03	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**144**	mg/L	25.0	10.0	1		09/17/18 16:05		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**2.6**	mg/L	0.25	0.024	1		09/18/18 19:00	16887-00-6	
Fluoride	**0.047J**	mg/L	0.30	0.029	1		09/18/18 19:00	16984-48-8	
Sulfate	**4.8**	mg/L	1.0	0.017	1		09/18/18 19:00	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: Plant Bowen cells
Pace Project No.: 269333

Sample: GWC-47R **Lab ID: 269333005** Collected: 09/13/18 11:42 Received: 09/14/18 17:00 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	09/17/18 15:42	09/18/18 17:10	7440-36-0	
Arsenic	**0.00091J**	mg/L	0.0050	0.00057	1	09/17/18 15:42	09/18/18 17:10	7440-38-2	
Barium	**0.0092J**	mg/L	0.010	0.00078	1	09/17/18 15:42	09/18/18 17:10	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	09/17/18 15:42	09/18/18 17:10	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	09/17/18 15:42	09/18/18 17:10	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	09/17/18 15:42	09/18/18 17:10	7440-43-9	
Calcium	**30.9**	mg/L	25.0	0.69	50	09/17/18 15:42	09/18/18 17:15	7440-70-2	
Chromium	**0.0017J**	mg/L	0.010	0.0016	1	09/17/18 15:42	09/18/18 17:10	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	09/17/18 15:42	09/18/18 17:10	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	09/17/18 15:42	09/18/18 17:10	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	09/17/18 15:42	09/18/18 17:10	7439-92-1	
Nickel	ND	mg/L	0.010	0.00095	1	09/17/18 15:42	09/18/18 17:10	7440-02-0	
Selenium	ND	mg/L	0.010	0.0014	1	09/17/18 15:42	09/18/18 17:10	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	09/17/18 15:42	09/18/18 17:10	7440-22-4	
Thallium	**0.00021J**	mg/L	0.0010	0.00014	1	09/17/18 15:42	09/18/18 17:10	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	09/17/18 15:42	09/18/18 17:10	7440-62-2	
Zinc	**0.014**	mg/L	0.010	0.0021	1	09/17/18 15:42	09/18/18 17:10	7440-66-6	B
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	09/17/18 15:24	09/18/18 11:05	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**175**	mg/L	25.0	10.0	1		09/17/18 16:05		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**2.5**	mg/L	0.25	0.024	1		09/18/18 20:46	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		09/18/18 20:46	16984-48-8	
Sulfate	**11.6**	mg/L	1.0	0.017	1		09/18/18 20:46	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Bowen cells
Pace Project No.: 269333

Sample: GWC-48 **Lab ID: 269333006** Collected: 09/13/18 13:26 Received: 09/14/18 17:00 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	09/17/18 15:42	09/18/18 17:21	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	09/17/18 15:42	09/18/18 17:21	7440-38-2	
Barium	**0.026**	mg/L	0.010	0.00078	1	09/17/18 15:42	09/18/18 17:21	7440-39-3	
Beryllium	**0.00026J**	mg/L	0.0030	0.000050	1	09/17/18 15:42	09/18/18 17:21	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	09/17/18 15:42	09/18/18 17:21	7440-42-8	
Cadmium	**0.00012J**	mg/L	0.0010	0.000093	1	09/17/18 15:42	09/18/18 17:21	7440-43-9	
Calcium	**2.5**	mg/L	0.50	0.014	1	09/17/18 15:42	09/18/18 17:21	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	09/17/18 15:42	09/18/18 17:21	7440-47-3	
Cobalt	**0.0013J**	mg/L	0.010	0.00052	1	09/17/18 15:42	09/18/18 17:21	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	09/17/18 15:42	09/18/18 17:21	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	09/17/18 15:42	09/18/18 17:21	7439-92-1	
Nickel	**0.0038J**	mg/L	0.010	0.00095	1	09/17/18 15:42	09/18/18 17:21	7440-02-0	
Selenium	ND	mg/L	0.010	0.0014	1	09/17/18 15:42	09/18/18 17:21	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	09/17/18 15:42	09/18/18 17:21	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	09/17/18 15:42	09/18/18 17:21	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	09/17/18 15:42	09/18/18 17:21	7440-62-2	
Zinc	**0.0078J**	mg/L	0.010	0.0021	1	09/17/18 15:42	09/18/18 17:21	7440-66-6	B
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	**0.000062J**	mg/L	0.00050	0.000036	1	09/17/18 15:24	09/18/18 11:12	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**31.0**	mg/L	25.0	10.0	1		09/17/18 16:05		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**2.8**	mg/L	0.25	0.024	1		09/18/18 21:07	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		09/18/18 21:07	16984-48-8	
Sulfate	**1.6**	mg/L	1.0	0.017	1		09/18/18 21:07	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells
Pace Project No.: 269333

Sample: GWC-49R **Lab ID: 269333007** Collected: 09/13/18 15:15 Received: 09/14/18 17:00 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	09/17/18 15:42	09/18/18 17:32	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	09/17/18 15:42	09/18/18 17:32	7440-38-2	
Barium	**0.010J**	mg/L	0.010	0.00078	1	09/17/18 15:42	09/18/18 17:32	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	09/17/18 15:42	09/18/18 17:32	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	09/17/18 15:42	09/18/18 17:32	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	09/17/18 15:42	09/18/18 17:32	7440-43-9	
Calcium	**22.8J**	mg/L	25.0	0.69	50	09/17/18 15:42	09/18/18 17:38	7440-70-2	D3
Chromium	ND	mg/L	0.010	0.0016	1	09/17/18 15:42	09/18/18 17:32	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	09/17/18 15:42	09/18/18 17:32	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	09/17/18 15:42	09/18/18 17:32	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	09/17/18 15:42	09/18/18 17:32	7439-92-1	
Nickel	ND	mg/L	0.010	0.00095	1	09/17/18 15:42	09/18/18 17:32	7440-02-0	
Selenium	ND	mg/L	0.010	0.0014	1	09/17/18 15:42	09/18/18 17:32	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	09/17/18 15:42	09/18/18 17:32	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	09/17/18 15:42	09/18/18 17:32	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	09/17/18 15:42	09/18/18 17:32	7440-62-2	
Zinc	**0.0027J**	mg/L	0.010	0.0021	1	09/17/18 15:42	09/18/18 17:32	7440-66-6	B
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	09/17/18 15:24	09/18/18 11:15	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**137**	mg/L	25.0	10.0	1		09/17/18 16:05		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**1.3**	mg/L	0.25	0.024	1		09/18/18 21:50	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		09/18/18 21:50	16984-48-8	
Sulfate	**3.6**	mg/L	1.0	0.017	1		09/18/18 21:50	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells
Pace Project No.: 269333

Sample: Dup-2 **Lab ID: 269333008** Collected: 09/13/18 00:00 Received: 09/14/18 17:00 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	09/17/18 15:42	09/18/18 17:44	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	09/17/18 15:42	09/18/18 17:44	7440-38-2	
Barium	**0.027**	mg/L	0.010	0.00078	1	09/17/18 15:42	09/18/18 17:44	7440-39-3	
Beryllium	**0.00023J**	mg/L	0.0030	0.000050	1	09/17/18 15:42	09/18/18 17:44	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	09/17/18 15:42	09/18/18 17:44	7440-42-8	
Cadmium	**0.00012J**	mg/L	0.0010	0.000093	1	09/17/18 15:42	09/18/18 17:44	7440-43-9	
Calcium	**2.6**	mg/L	0.50	0.014	1	09/17/18 15:42	09/18/18 17:44	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	09/17/18 15:42	09/18/18 17:44	7440-47-3	
Cobalt	**0.0013J**	mg/L	0.010	0.00052	1	09/17/18 15:42	09/18/18 17:44	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	09/17/18 15:42	09/18/18 17:44	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	09/17/18 15:42	09/18/18 17:44	7439-92-1	
Nickel	**0.0035J**	mg/L	0.010	0.00095	1	09/17/18 15:42	09/18/18 17:44	7440-02-0	
Selenium	ND	mg/L	0.010	0.0014	1	09/17/18 15:42	09/18/18 17:44	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	09/17/18 15:42	09/18/18 17:44	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	09/17/18 15:42	09/18/18 17:44	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	09/17/18 15:42	09/18/18 17:44	7440-62-2	
Zinc	**0.0073J**	mg/L	0.010	0.0021	1	09/17/18 15:42	09/18/18 17:44	7440-66-6	B
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	**0.000055J**	mg/L	0.00050	0.000036	1	09/17/18 15:24	09/18/18 11:17	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**28.0**	mg/L	25.0	10.0	1		09/18/18 16:57		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**2.9**	mg/L	0.25	0.024	1		09/18/18 22:11	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		09/18/18 22:11	16984-48-8	
Sulfate	**1.9**	mg/L	1.0	0.017	1		09/18/18 22:11	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells
Pace Project No.: 269333

QC Batch: 13620 Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
Associated Lab Samples: 269333001, 269333002, 269333003, 269333004, 269333005, 269333006, 269333007, 269333008

METHOD BLANK: 60706 Matrix: Water
Associated Lab Samples: 269333001, 269333002, 269333003, 269333004, 269333005, 269333006, 269333007, 269333008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00050	0.000036	09/18/18 10:23	

LABORATORY CONTROL SAMPLE: 60707

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	.0025	0.0025	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 60708 60709

Parameter	Units	269331003 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	.0025	.0025	0.0027	0.0026	107	103	75-125	4	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells
Pace Project No.: 269333

QC Batch: 13608 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020B MET
Associated Lab Samples: 269333001, 269333002, 269333003, 269333004, 269333005, 269333006, 269333007, 269333008

METHOD BLANK: 60649 Matrix: Water
Associated Lab Samples: 269333001, 269333002, 269333003, 269333004, 269333005, 269333006, 269333007, 269333008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	09/18/18 13:06	
Arsenic	mg/L	ND	0.0050	0.00057	09/18/18 13:06	
Barium	mg/L	ND	0.010	0.00078	09/18/18 13:06	
Beryllium	mg/L	ND	0.0030	0.000050	09/18/18 13:06	
Boron	mg/L	ND	0.040	0.0039	09/18/18 13:06	
Cadmium	mg/L	ND	0.0010	0.000093	09/18/18 13:06	
Calcium	mg/L	ND	0.50	0.014	09/18/18 13:06	
Chromium	mg/L	ND	0.010	0.0016	09/18/18 13:06	
Cobalt	mg/L	ND	0.010	0.00052	09/18/18 13:06	
Copper	mg/L	ND	0.025	0.0013	09/18/18 13:06	
Lead	mg/L	ND	0.0050	0.00027	09/18/18 13:06	
Nickel	mg/L	ND	0.010	0.00095	09/18/18 13:06	
Selenium	mg/L	ND	0.010	0.0014	09/18/18 13:06	
Silver	mg/L	ND	0.010	0.00095	09/18/18 13:06	
Thallium	mg/L	ND	0.0010	0.00014	09/18/18 13:06	
Vanadium	mg/L	ND	0.010	0.0019	09/18/18 13:06	
Zinc	mg/L	0.0040J	0.010	0.0021	09/18/18 13:06	

LABORATORY CONTROL SAMPLE: 60650

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	.1	0.10	101	80-120	
Arsenic	mg/L	.1	0.097	97	80-120	
Barium	mg/L	.1	0.10	101	80-120	
Beryllium	mg/L	.1	0.10	100	80-120	
Boron	mg/L	1	0.96	96	80-120	
Cadmium	mg/L	.1	0.10	102	80-120	
Calcium	mg/L	1	1.0	100	80-120	
Chromium	mg/L	.1	0.10	101	80-120	
Cobalt	mg/L	.1	0.10	102	80-120	
Copper	mg/L	.1	0.099	99	80-120	
Lead	mg/L	.1	0.10	101	80-120	
Nickel	mg/L	.1	0.10	100	80-120	
Selenium	mg/L	.1	0.096	96	80-120	
Silver	mg/L	.1	0.10	102	80-120	
Thallium	mg/L	.1	0.10	100	80-120	
Vanadium	mg/L	.1	0.10	101	80-120	
Zinc	mg/L	.1	0.11	108	80-120	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells
Pace Project No.: 269333

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 60651 60652

Parameter	Units	269331001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	0.0056	.1	.1	0.11	0.11	101	107	75-125	5	20	
Arsenic	mg/L	ND	.1	.1	0.099	0.10	99	102	75-125	3	20	
Barium	mg/L	0.015	.1	.1	0.13	0.13	112	117	75-125	4	20	
Beryllium	mg/L	ND	.1	.1	0.10	0.10	102	103	75-125	1	20	
Boron	mg/L	0.0059J	1	1	0.99	1.0	98	100	75-125	2	20	
Cadmium	mg/L	ND	.1	.1	0.10	0.10	101	102	75-125	2	20	
Calcium	mg/L	29.2	1	1	31.6	31.5	238	231	75-125	0	20	M6
Chromium	mg/L	ND	.1	.1	0.10	0.10	101	101	75-125	0	20	
Cobalt	mg/L	ND	.1	.1	0.098	0.10	98	101	75-125	4	20	
Copper	mg/L	0.0020J	.1	.1	0.099	0.10	97	98	75-125	0	20	
Lead	mg/L	ND	.1	.1	0.099	0.10	99	101	75-125	3	20	
Nickel	mg/L	ND	.1	.1	0.099	0.10	99	101	75-125	2	20	
Selenium	mg/L	ND	.1	.1	0.097	0.10	97	101	75-125	4	20	
Silver	mg/L	ND	.1	.1	0.10	0.10	101	103	75-125	1	20	
Thallium	mg/L	ND	.1	.1	0.098	0.10	98	103	75-125	4	20	
Vanadium	mg/L	ND	.1	.1	0.10	0.10	102	101	75-125	0	20	
Zinc	mg/L	0.0038J	.1	.1	0.11	0.11	102	104	75-125	2	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells
Pace Project No.: 269333

QC Batch: 13623 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 269333001, 269333002, 269333003, 269333004, 269333005, 269333006, 269333007

LABORATORY CONTROL SAMPLE: 60715

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	408	102	84-108	

SAMPLE DUPLICATE: 60716

Parameter	Units	269334006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	151	148	2	10	

SAMPLE DUPLICATE: 60717

Parameter	Units	269333004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	144	130	10	10	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells
Pace Project No.: 269333

QC Batch: 13708
QC Batch Method: SM 2540C
Analysis Method: SM 2540C
Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 269333008

LABORATORY CONTROL SAMPLE: 61096

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	406	102	84-108	

SAMPLE DUPLICATE: 61097

Parameter	Units	269331005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	ND	ND		10	

SAMPLE DUPLICATE: 61098

Parameter	Units	269329001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	403	426	6	10	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells
Pace Project No.: 269333

QC Batch: 13655 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 269333001, 269333002, 269333003, 269333004, 269333005, 269333006, 269333007, 269333008

METHOD BLANK: 60838 Matrix: Water
Associated Lab Samples: 269333001, 269333002, 269333003, 269333004, 269333005, 269333006, 269333007, 269333008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	0.091J	0.25	0.024	09/18/18 15:07	
Fluoride	mg/L	ND	0.30	0.029	09/18/18 15:07	
Sulfate	mg/L	ND	1.0	0.017	09/18/18 15:07	

LABORATORY CONTROL SAMPLE: 60839

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	10	10.3	103	90-110	
Fluoride	mg/L	10	10.0	100	90-110	
Sulfate	mg/L	10	10.1	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 60840 60841

Parameter	Units	269332001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	0.98	10	10	11.2	11.2	102	103	90-110	0	15	
Fluoride	mg/L	ND	10	10	10.3	10.3	103	103	90-110	0	15	
Sulfate	mg/L	7.7	10	10	17.2	17.1	95	95	90-110	0	15	

MATRIX SPIKE SAMPLE: 60842

Parameter	Units	269332002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	0.92	10	11.0	101	90-110	
Fluoride	mg/L	ND	10	10.2	102	90-110	
Sulfate	mg/L	2.1	10	12.5	104	90-110	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALIFIERS

Project: Plant Bowen cells
Pace Project No.: 269333

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

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Bowen cells
Pace Project No.: 269333

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
269333001	**GWC-45**	EPA 3005A	13608	EPA 6020B	13685
269333002	**GWC-45R**	EPA 3005A	13608	EPA 6020B	13685
269333003	**GWC-46R**	EPA 3005A	13608	EPA 6020B	13685
269333004	**GWC-47**	EPA 3005A	13608	EPA 6020B	13685
269333005	**GWC-47R**	EPA 3005A	13608	EPA 6020B	13685
269333006	**GWC-48**	EPA 3005A	13608	EPA 6020B	13685
269333007	**GWC-49R**	EPA 3005A	13608	EPA 6020B	13685
269333008	**Dup-2**	EPA 3005A	13608	EPA 6020B	13685
269333001	**GWC-45**	EPA 7470A	13620	EPA 7470A	13670
269333002	**GWC-45R**	EPA 7470A	13620	EPA 7470A	13670
269333003	**GWC-46R**	EPA 7470A	13620	EPA 7470A	13670
269333004	**GWC-47**	EPA 7470A	13620	EPA 7470A	13670
269333005	**GWC-47R**	EPA 7470A	13620	EPA 7470A	13670
269333006	**GWC-48**	EPA 7470A	13620	EPA 7470A	13670
269333007	**GWC-49R**	EPA 7470A	13620	EPA 7470A	13670
269333008	**Dup-2**	EPA 7470A	13620	EPA 7470A	13670
269333001	**GWC-45**	SM 2540C	13623		
269333002	**GWC-45R**	SM 2540C	13623		
269333003	**GWC-46R**	SM 2540C	13623		
269333004	**GWC-47**	SM 2540C	13623		
269333005	**GWC-47R**	SM 2540C	13623		
269333006	**GWC-48**	SM 2540C	13623		
269333007	**GWC-49R**	SM 2540C	13623		
269333008	**Dup-2**	SM 2540C	13708		
269333001	**GWC-45**	EPA 300.0	13655		
269333002	**GWC-45R**	EPA 300.0	13655		
269333003	**GWC-46R**	EPA 300.0	13655		
269333004	**GWC-47**	EPA 300.0	13655		
269333005	**GWC-47R**	EPA 300.0	13655		
269333006	**GWC-48**	EPA 300.0	13655		
269333007	**GWC-49R**	EPA 300.0	13655		
269333008	**Dup-2**	EPA 300.0	13655		

REPORT OF LABORATORY ANALYSIS

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Georgia Power - Coal Combustion Residuals	Report To:	Joju Abraham	Attention:	scsinvoices@southernco.com
Address:	2480 Maner Road	Copy To:	Wood Environmental	Company Name:	
	Atlanta, GA 30339			Address:	
Email:	jabraham@southernco.com	Purchase Order #:	SCS10348606	Pace Quote:	
Phone:	(404)506-7239 Fax	Project Name:	Plant Bowen Cells - State List	Pace Project Manager:	betsy.mcdaniel@pacelabs.com,
Requested Due Date:		Project #:		Pace Profile #:	317.5

Regulatory Agency

State / Location: GA

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Requested Analysis Filtered (Y/N) Y/N	Analyses Test: TDS, Cl, F, SO4	Metals 6020 *	CHLORIDES	Residual Chlorine (Y/N)
	MATRIX: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Other OT, Tissue TS																					
1	GWC-45	WT	G	9/13/18	0940				2	1		1							X	X	X	
2	GWC-45R	WT	G	9/14/18	1050				2	1		1							X	X	X	
3	GWC-46R	WT	G	9/12/18	1400				2	1		1							X	X	X	
4	GWC-47	WT	G	9/13/18	0938				2	1		1							X	X	X	
5	GWC-47R	WT	G	9/13/18	1142				2	1		1							X	X	X	
6	GWC-48	WT	G	9/13/18	1326				2	1		1							X	X	X	
7	GWC-49R	WT	G	9/13/18	1515				2	1		1							X	X	X	
8	Dup-2	WT	G	9/13/18	—				2	1		1							X	X	X	
9																						
10																						
11																						
12																						

WO# : 269333

269333

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
* Metals State List: Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Pb, Mg, Ni, K, Se, Ag, Na, Tl, V, Zn	Veronica Fay	9/14/18	1543	M Rahman	09/14/18	1700				
							0.8	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kevin Stephenson, Veronica Fay, Aubrey Crabtree

SIGNATURE of SAMPLER: DATE Signed: 9/13/18

Sample Condition Upon Receipt

Pace Analytical

Client Name: GA Power

Project #

WO# : 269333

PM: BM Due Date: 09/21/18

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 33 Type of Ice: (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 0.8 Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: 9/14/18 MK

Temp should be above freezing to 6°C

			Comments:
Chain of Custody Present:	☑Yes	☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes	☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes	☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes	☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes	☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes	☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes	☑No ☐N/A	7.
Sufficient Volume:	☑Yes	☐No ☐N/A	8.
Correct Containers Used:	☑Yes	☐No ☐N/A	9.
-Pace Containers Used:	☑Yes	☐No ☐N/A	
Containers Intact:	☑Yes	☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes	☐No ☑N/A	11.
Sample Labels match COC:	☑Yes	☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix:		W	
All containers needing preservation have been checked.	☑Yes	☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes	☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes	☑No	Initial when completed: Lot # of added preservative:
Samples checked for dechlorination:	☐Yes	☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes	☐No ☑N/A	15.
Trip Blank Present:	☐Yes	☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes	☐No ☑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.

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

September 21, 2018

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

RE: Project: Plant Bowen cells
Pace Project No.: 269334

Dear Joju Abraham:
Enclosed are the analytical results for sample(s) received by the laboratory on September 14, 2018. 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: Maria Padilla, Georgia Power
Rebecca Thornton, Pace Analytical Atlanta
Greg Wrenn, Wood PLC

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

CERTIFICATIONS

Project: Plant Bowen cells
Pace Project No.: 269334

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
Texas Certification #: T104704397-08-TX
Virginia Certification #: 460204

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE SUMMARY

Project: Plant Bowen cells
Pace Project No.: 269334

Lab ID	Sample ID	Matrix	Date Collected	Date Received
269334001	**GWA-39Z**	Water	09/12/18 12:36	09/14/18 17:00
269334002	**GWA-40**	Water	09/12/18 09:58	09/14/18 17:00
269334003	**GWA-41**	Water	09/12/18 12:25	09/14/18 17:00
269334004	**GWA-41R**	Water	09/12/18 13:53	09/14/18 17:00
269334005	**GWA-43**	Water	09/12/18 10:20	09/14/18 17:00
269334006	**GWA-43R**	Water	09/12/18 13:44	09/14/18 17:00
269334007	**GWC-44**	Water	09/12/18 15:13	09/14/18 17:00
269334008	**FBL091218**	Water	09/12/18 15:53	09/14/18 17:00
269334009	**EQBL091218**	Water	09/12/18 15:58	09/14/18 17:00
269334010	**Dup-1**	Water	09/12/18 00:00	09/14/18 17:00

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE ANALYTE COUNT

Project: Plant Bowen cells
Pace Project No.: 269334

Lab ID	Sample ID	Method	Analysts	Analytes Reported
269334001	**GWA-39Z**	EPA 6020B	KLH	17
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
269334002	**GWA-40**	EPA 6020B	KLH	17
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
269334003	**GWA-41**	EPA 6020B	KLH	17
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
269334004	**GWA-41R**	EPA 6020B	KLH	17
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
269334005	**GWA-43**	EPA 6020B	KLH	17
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
269334006	**GWA-43R**	EPA 6020B	KLH	17
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
269334007	**GWC-44**	EPA 6020B	KLH	17
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
269334008	**FBL091218**	EPA 6020B	KLH	17
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
269334009	**EQBL091218**	EPA 6020B	KLH	17
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3
269334010	**Dup-1**	EPA 6020B	KLH	17

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE ANALYTE COUNT

Project: Plant Bowen cells
Pace Project No.: 269334

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 7470A	DRB	1
		SM 2540C	JPT	1
		EPA 300.0	RLC	3

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells
Pace Project No.: 269334

Sample: GWA-39Z **Lab ID: 269334001** Collected: 09/12/18 12:36 Received: 09/14/18 17:00 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	09/17/18 15:45	09/18/18 19:50	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	09/17/18 15:45	09/18/18 19:50	7440-38-2	
Barium	**0.022**	mg/L	0.010	0.00078	1	09/17/18 15:45	09/18/18 19:50	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	09/17/18 15:45	09/18/18 19:50	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	09/17/18 15:45	09/18/18 19:50	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	09/17/18 15:45	09/18/18 19:50	7440-43-9	
Calcium	**25.1**	mg/L	25.0	0.69	50	09/17/18 15:45	09/18/18 19:56	7440-70-2	M6
Chromium	ND	mg/L	0.010	0.0016	1	09/17/18 15:45	09/18/18 19:50	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	09/17/18 15:45	09/18/18 19:50	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	09/17/18 15:45	09/18/18 19:50	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	09/17/18 15:45	09/18/18 19:50	7439-92-1	
Nickel	ND	mg/L	0.010	0.00095	1	09/17/18 15:45	09/18/18 19:50	7440-02-0	
Selenium	ND	mg/L	0.010	0.0014	1	09/17/18 15:45	09/18/18 19:50	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	09/17/18 15:45	09/18/18 19:50	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	09/17/18 15:45	09/18/18 19:50	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	09/17/18 15:45	09/18/18 19:50	7440-62-2	
Zinc	**0.0033J**	mg/L	0.010	0.0021	1	09/17/18 15:45	09/18/18 19:50	7440-66-6	B
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	09/17/18 15:24	09/18/18 11:20	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**134**	mg/L	25.0	10.0	1		09/17/18 15:52		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**1.6**	mg/L	0.25	0.024	1		09/18/18 22:32	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		09/18/18 22:32	16984-48-8	
Sulfate	**3.7**	mg/L	1.0	0.017	1		09/18/18 22:32	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells
Pace Project No.: 269334

Sample: GWA-40 **Lab ID: 269334002** Collected: 09/12/18 09:58 Received: 09/14/18 17:00 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	09/17/18 15:45	09/18/18 20:42	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	09/17/18 15:45	09/18/18 20:42	7440-38-2	
Barium	**0.0075J**	mg/L	0.010	0.00078	1	09/17/18 15:45	09/18/18 20:42	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	09/17/18 15:45	09/18/18 20:42	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	09/17/18 15:45	09/18/18 20:42	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	09/17/18 15:45	09/18/18 20:42	7440-43-9	
Calcium	**18.4J**	mg/L	25.0	0.69	50	09/17/18 15:45	09/18/18 20:47	7440-70-2	D3
Chromium	ND	mg/L	0.010	0.0016	1	09/17/18 15:45	09/18/18 20:42	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	09/17/18 15:45	09/18/18 20:42	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	09/17/18 15:45	09/18/18 20:42	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	09/17/18 15:45	09/18/18 20:42	7439-92-1	
Nickel	ND	mg/L	0.010	0.00095	1	09/17/18 15:45	09/18/18 20:42	7440-02-0	
Selenium	ND	mg/L	0.010	0.0014	1	09/17/18 15:45	09/18/18 20:42	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	09/17/18 15:45	09/18/18 20:42	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	09/17/18 15:45	09/18/18 20:42	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	09/17/18 15:45	09/18/18 20:42	7440-62-2	
Zinc	**0.0023J**	mg/L	0.010	0.0021	1	09/17/18 15:45	09/18/18 20:42	7440-66-6	B
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	**0.000038J**	mg/L	0.00050	0.000036	1	09/17/18 15:24	09/18/18 11:22	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**105**	mg/L	25.0	10.0	1		09/17/18 15:52		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**1.0**	mg/L	0.25	0.024	1		09/18/18 22:53	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		09/18/18 22:53	16984-48-8	
Sulfate	**1.7**	mg/L	1.0	0.017	1		09/18/18 22:53	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells
Pace Project No.: 269334

Sample: GWA-41 **Lab ID: 269334003** Collected: 09/12/18 12:25 Received: 09/14/18 17:00 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	09/17/18 15:45	09/18/18 20:53	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	09/17/18 15:45	09/18/18 20:53	7440-38-2	
Barium	**0.025**	mg/L	0.010	0.00078	1	09/17/18 15:45	09/18/18 20:53	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	09/17/18 15:45	09/18/18 20:53	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	09/17/18 15:45	09/18/18 20:53	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	09/17/18 15:45	09/18/18 20:53	7440-43-9	
Calcium	**14.2J**	mg/L	25.0	0.69	50	09/17/18 15:45	09/18/18 20:59	7440-70-2	D3
Chromium	ND	mg/L	0.010	0.0016	1	09/17/18 15:45	09/18/18 20:53	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	09/17/18 15:45	09/18/18 20:53	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	09/17/18 15:45	09/18/18 20:53	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	09/17/18 15:45	09/18/18 20:53	7439-92-1	
Nickel	ND	mg/L	0.010	0.00095	1	09/17/18 15:45	09/18/18 20:53	7440-02-0	
Selenium	ND	mg/L	0.010	0.0014	1	09/17/18 15:45	09/18/18 20:53	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	09/17/18 15:45	09/18/18 20:53	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	09/17/18 15:45	09/18/18 20:53	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	09/17/18 15:45	09/18/18 20:53	7440-62-2	
Zinc	**0.0026J**	mg/L	0.010	0.0021	1	09/17/18 15:45	09/18/18 20:53	7440-66-6	B
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	09/17/18 16:12	09/18/18 11:48	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**82.0**	mg/L	25.0	10.0	1		09/17/18 15:52		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**1.4**	mg/L	0.25	0.024	1		09/18/18 23:15	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		09/18/18 23:15	16984-48-8	
Sulfate	**1.8**	mg/L	1.0	0.017	1		09/18/18 23:15	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells
Pace Project No.: 269334

Sample: GWA-41R **Lab ID: 269334004** Collected: 09/12/18 13:53 Received: 09/14/18 17:00 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	**0.0030J**	mg/L	0.0030	0.00078	1	09/17/18 15:45	09/18/18 21:04	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	09/17/18 15:45	09/18/18 21:04	7440-38-2	
Barium	**0.021**	mg/L	0.010	0.00078	1	09/17/18 15:45	09/18/18 21:04	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	09/17/18 15:45	09/18/18 21:04	7440-41-7	
Boron	**0.013J**	mg/L	0.040	0.0039	1	09/17/18 15:45	09/18/18 21:04	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	09/17/18 15:45	09/18/18 21:04	7440-43-9	
Calcium	**29.0**	mg/L	25.0	0.69	50	09/17/18 15:45	09/18/18 21:10	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	09/17/18 15:45	09/18/18 21:04	7440-47-3	
Cobalt	**0.0011J**	mg/L	0.010	0.00052	1	09/17/18 15:45	09/18/18 21:04	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	09/17/18 15:45	09/18/18 21:04	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	09/17/18 15:45	09/18/18 21:04	7439-92-1	
Nickel	**0.0011J**	mg/L	0.010	0.00095	1	09/17/18 15:45	09/18/18 21:04	7440-02-0	
Selenium	ND	mg/L	0.010	0.0014	1	09/17/18 15:45	09/18/18 21:04	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	09/17/18 15:45	09/18/18 21:04	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	09/17/18 15:45	09/18/18 21:04	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	09/17/18 15:45	09/18/18 21:04	7440-62-2	
Zinc	**0.0028J**	mg/L	0.010	0.0021	1	09/17/18 15:45	09/18/18 21:04	7440-66-6	B
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	09/17/18 16:12	09/18/18 12:02	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**159**	mg/L	25.0	10.0	1		09/17/18 15:52		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**2.1**	mg/L	0.25	0.024	1		09/18/18 23:36	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		09/18/18 23:36	16984-48-8	
Sulfate	**3.7**	mg/L	1.0	0.017	1		09/18/18 23:36	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells
Pace Project No.: 269334

Sample: GWA-43 **Lab ID: 269334005** Collected: 09/12/18 10:20 Received: 09/14/18 17:00 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	09/17/18 15:45	09/18/18 21:16	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	09/17/18 15:45	09/18/18 21:16	7440-38-2	
Barium	**0.017**	mg/L	0.010	0.00078	1	09/17/18 15:45	09/18/18 21:16	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	09/17/18 15:45	09/18/18 21:16	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	09/17/18 15:45	09/18/18 21:16	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	09/17/18 15:45	09/18/18 21:16	7440-43-9	
Calcium	**3.7**	mg/L	0.50	0.014	1	09/17/18 15:45	09/18/18 21:16	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	09/17/18 15:45	09/18/18 21:16	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	09/17/18 15:45	09/18/18 21:16	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	09/17/18 15:45	09/18/18 21:16	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	09/17/18 15:45	09/18/18 21:16	7439-92-1	
Nickel	ND	mg/L	0.010	0.00095	1	09/17/18 15:45	09/18/18 21:16	7440-02-0	
Selenium	ND	mg/L	0.010	0.0014	1	09/17/18 15:45	09/18/18 21:16	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	09/17/18 15:45	09/18/18 21:16	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	09/17/18 15:45	09/18/18 21:16	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	09/17/18 15:45	09/18/18 21:16	7440-62-2	
Zinc	**0.0033J**	mg/L	0.010	0.0021	1	09/17/18 15:45	09/18/18 21:16	7440-66-6	B
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	09/17/18 16:12	09/18/18 12:05	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**35.0**	mg/L	25.0	10.0	1		09/17/18 15:52		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**1.3**	mg/L	0.25	0.024	1		09/18/18 23:57	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		09/18/18 23:57	16984-48-8	
Sulfate	**0.30J**	mg/L	1.0	0.017	1		09/18/18 23:57	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells
Pace Project No.: 269334

Sample: GWA-43R **Lab ID: 269334006** Collected: 09/12/18 13:44 Received: 09/14/18 17:00 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	09/17/18 15:45	09/18/18 21:27	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	09/17/18 15:45	09/18/18 21:27	7440-38-2	
Barium	**0.0080J**	mg/L	0.010	0.00078	1	09/17/18 15:45	09/18/18 21:27	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	09/17/18 15:45	09/18/18 21:27	7440-41-7	
Boron	**0.018J**	mg/L	0.040	0.0039	1	09/17/18 15:45	09/18/18 21:27	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	09/17/18 15:45	09/18/18 21:27	7440-43-9	
Calcium	**28.7**	mg/L	25.0	0.69	50	09/17/18 15:45	09/18/18 21:33	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	09/17/18 15:45	09/18/18 21:27	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	09/17/18 15:45	09/18/18 21:27	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	09/17/18 15:45	09/18/18 21:27	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	09/17/18 15:45	09/18/18 21:27	7439-92-1	
Nickel	ND	mg/L	0.010	0.00095	1	09/17/18 15:45	09/18/18 21:27	7440-02-0	
Selenium	ND	mg/L	0.010	0.0014	1	09/17/18 15:45	09/18/18 21:27	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	09/17/18 15:45	09/18/18 21:27	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	09/17/18 15:45	09/18/18 21:27	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	09/17/18 15:45	09/18/18 21:27	7440-62-2	
Zinc	**0.0032J**	mg/L	0.010	0.0021	1	09/17/18 15:45	09/18/18 21:27	7440-66-6	B
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	**0.000039J**	mg/L	0.00050	0.000036	1	09/17/18 16:12	09/18/18 12:07	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**151**	mg/L	25.0	10.0	1		09/17/18 16:04		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**3.1**	mg/L	0.25	0.024	1		09/19/18 01:41	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		09/19/18 01:41	16984-48-8	
Sulfate	**5.6**	mg/L	1.0	0.017	1		09/19/18 01:41	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
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ANALYTICAL RESULTS

Project: Plant Bowen cells
Pace Project No.: 269334

Sample: GWC-44 **Lab ID: 269334007** Collected: 09/12/18 15:13 Received: 09/14/18 17:00 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	09/17/18 15:45	09/18/18 21:50	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	09/17/18 15:45	09/18/18 21:50	7440-38-2	
Barium	**0.032**	mg/L	0.010	0.00078	1	09/17/18 15:45	09/18/18 21:50	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	09/17/18 15:45	09/18/18 21:50	7440-41-7	
Boron	**0.0051J**	mg/L	0.040	0.0039	1	09/17/18 15:45	09/18/18 21:50	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	09/17/18 15:45	09/18/18 21:50	7440-43-9	
Calcium	**4.1**	mg/L	0.50	0.014	1	09/17/18 15:45	09/18/18 21:50	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	09/17/18 15:45	09/18/18 21:50	7440-47-3	
Cobalt	**0.0016J**	mg/L	0.010	0.00052	1	09/17/18 15:45	09/18/18 21:50	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	09/17/18 15:45	09/18/18 21:50	7440-50-8	
Lead	**0.00037J**	mg/L	0.0050	0.00027	1	09/17/18 15:45	09/18/18 21:50	7439-92-1	
Nickel	ND	mg/L	0.010	0.00095	1	09/17/18 15:45	09/18/18 21:50	7440-02-0	
Selenium	ND	mg/L	0.010	0.0014	1	09/17/18 15:45	09/18/18 21:50	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	09/17/18 15:45	09/18/18 21:50	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	09/17/18 15:45	09/18/18 21:50	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	09/17/18 15:45	09/18/18 21:50	7440-62-2	
Zinc	**0.0050J**	mg/L	0.010	0.0021	1	09/17/18 15:45	09/18/18 21:50	7440-66-6	B
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	09/17/18 16:12	09/18/18 12:09	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**36.0**	mg/L	25.0	10.0	1		09/17/18 16:04		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**3.6**	mg/L	0.25	0.024	1		09/19/18 02:02	16887-00-6	
Fluoride	**0.062J**	mg/L	0.30	0.029	1		09/19/18 02:02	16984-48-8	
Sulfate	**16.0**	mg/L	1.0	0.017	1		09/19/18 02:02	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells
Pace Project No.: 269334

Sample: FBL091218 **Lab ID: 269334008** Collected: 09/12/18 15:53 Received: 09/14/18 17:00 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	09/17/18 15:45	09/18/18 22:02	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	09/17/18 15:45	09/18/18 22:02	7440-38-2	
Barium	ND	mg/L	0.010	0.00078	1	09/17/18 15:45	09/18/18 22:02	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	09/17/18 15:45	09/18/18 22:02	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	09/17/18 15:45	09/18/18 22:02	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	09/17/18 15:45	09/18/18 22:02	7440-43-9	
Calcium	ND	mg/L	0.50	0.014	1	09/17/18 15:45	09/18/18 22:02	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	09/17/18 15:45	09/18/18 22:02	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	09/17/18 15:45	09/18/18 22:02	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	09/17/18 15:45	09/18/18 22:02	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	09/17/18 15:45	09/18/18 22:02	7439-92-1	
Nickel	ND	mg/L	0.010	0.00095	1	09/17/18 15:45	09/18/18 22:02	7440-02-0	
Selenium	ND	mg/L	0.010	0.0014	1	09/17/18 15:45	09/18/18 22:02	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	09/17/18 15:45	09/18/18 22:02	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	09/17/18 15:45	09/18/18 22:02	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	09/17/18 15:45	09/18/18 22:02	7440-62-2	
Zinc	**0.0038J**	mg/L	0.010	0.0021	1	09/17/18 15:45	09/18/18 22:02	7440-66-6	B
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	09/17/18 16:12	09/18/18 12:16	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**14.0J**	mg/L	25.0	10.0	1		09/17/18 16:04		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**0.096J**	mg/L	0.25	0.024	1		09/19/18 02:22	16887-00-6	B
Fluoride	ND	mg/L	0.30	0.029	1		09/19/18 02:22	16984-48-8	
Sulfate	ND	mg/L	1.0	0.017	1		09/19/18 02:22	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Bowen cells
Pace Project No.: 269334

Sample: EQBL091218 **Lab ID: 269334009** Collected: 09/12/18 15:58 Received: 09/14/18 17:00 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	09/17/18 15:45	09/18/18 22:07	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	09/17/18 15:45	09/18/18 22:07	7440-38-2	
Barium	ND	mg/L	0.010	0.00078	1	09/17/18 15:45	09/18/18 22:07	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	09/17/18 15:45	09/18/18 22:07	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	09/17/18 15:45	09/18/18 22:07	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	09/17/18 15:45	09/18/18 22:07	7440-43-9	
Calcium	ND	mg/L	0.50	0.014	1	09/17/18 15:45	09/18/18 22:07	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	09/17/18 15:45	09/18/18 22:07	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	09/17/18 15:45	09/18/18 22:07	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	09/17/18 15:45	09/18/18 22:07	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	09/17/18 15:45	09/18/18 22:07	7439-92-1	
Nickel	ND	mg/L	0.010	0.00095	1	09/17/18 15:45	09/18/18 22:07	7440-02-0	
Selenium	ND	mg/L	0.010	0.0014	1	09/17/18 15:45	09/18/18 22:07	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	09/17/18 15:45	09/18/18 22:07	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	09/17/18 15:45	09/18/18 22:07	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	09/17/18 15:45	09/18/18 22:07	7440-62-2	
Zinc	**0.0048J**	mg/L	0.010	0.0021	1	09/17/18 15:45	09/18/18 22:07	7440-66-6	B
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	09/17/18 16:12	09/18/18 12:19	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**10.0J**	mg/L	25.0	10.0	1		09/17/18 16:04		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**0.076J**	mg/L	0.25	0.024	1		09/19/18 04:26	16887-00-6	B
Fluoride	ND	mg/L	0.30	0.029	1		09/19/18 04:26	16984-48-8	
Sulfate	ND	mg/L	1.0	0.017	1		09/19/18 04:26	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
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ANALYTICAL RESULTS

Project: Plant Bowen cells
Pace Project No.: 269334

Sample: Dup-1 **Lab ID: 269334010** Collected: 09/12/18 00:00 Received: 09/14/18 17:00 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	09/17/18 15:45	09/18/18 22:13	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	09/17/18 15:45	09/18/18 22:13	7440-38-2	
Barium	**0.024**	mg/L	0.010	0.00078	1	09/17/18 15:45	09/18/18 22:13	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	09/17/18 15:45	09/18/18 22:13	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	09/17/18 15:45	09/18/18 22:13	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	09/17/18 15:45	09/18/18 22:13	7440-43-9	
Calcium	**13.4J**	mg/L	25.0	0.69	50	09/17/18 15:45	09/18/18 22:19	7440-70-2	D3
Chromium	ND	mg/L	0.010	0.0016	1	09/17/18 15:45	09/18/18 22:13	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	09/17/18 15:45	09/18/18 22:13	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	09/17/18 15:45	09/18/18 22:13	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	09/17/18 15:45	09/18/18 22:13	7439-92-1	
Nickel	ND	mg/L	0.010	0.00095	1	09/17/18 15:45	09/18/18 22:13	7440-02-0	
Selenium	ND	mg/L	0.010	0.0014	1	09/17/18 15:45	09/18/18 22:13	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	09/17/18 15:45	09/18/18 22:13	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	09/17/18 15:45	09/18/18 22:13	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	09/17/18 15:45	09/18/18 22:13	7440-62-2	
Zinc	**0.0027J**	mg/L	0.010	0.0021	1	09/17/18 15:45	09/18/18 22:13	7440-66-6	B
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	09/17/18 16:12	09/18/18 12:21	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**99.0**	mg/L	25.0	10.0	1		09/17/18 16:05		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**1.4**	mg/L	0.25	0.024	1		09/19/18 05:28	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		09/19/18 05:28	16984-48-8	
Sulfate	**1.8**	mg/L	1.0	0.017	1		09/19/18 05:28	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells
Pace Project No.: 269334

QC Batch: 13620 Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
Associated Lab Samples: 269334001, 269334002

METHOD BLANK: 60706 Matrix: Water
Associated Lab Samples: 269334001, 269334002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00050	0.000036	09/18/18 10:23	

LABORATORY CONTROL SAMPLE: 60707

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	.0025	0.0025	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 60708 60709

Parameter	Units	269331003 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	.0025	.0025	0.0027	0.0026	107	103	75-125	4	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells
Pace Project No.: 269334

QC Batch: 13628 Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
Associated Lab Samples: 269334003, 269334004, 269334005, 269334006, 269334007, 269334008, 269334009, 269334010

METHOD BLANK: 60728 Matrix: Water
Associated Lab Samples: 269334003, 269334004, 269334005, 269334006, 269334007, 269334008, 269334009, 269334010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00050	0.000036	09/18/18 11:39	

LABORATORY CONTROL SAMPLE: 60729

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	.0025	0.0026	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 60730 60731

Parameter	Units	269334003 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	.0025	.0025	0.0026	0.0025	102	99	75-125	3	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells
Pace Project No.: 269334

QC Batch: 13609 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020B MET
Associated Lab Samples: 269334001, 269334002, 269334003, 269334004, 269334005, 269334006, 269334007, 269334008, 269334009, 269334010

METHOD BLANK: 60653 Matrix: Water
Associated Lab Samples: 269334001, 269334002, 269334003, 269334004, 269334005, 269334006, 269334007, 269334008, 269334009, 269334010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	09/18/18 19:39	
Arsenic	mg/L	ND	0.0050	0.00057	09/18/18 19:39	
Barium	mg/L	ND	0.010	0.00078	09/18/18 19:39	
Beryllium	mg/L	ND	0.0030	0.000050	09/18/18 19:39	
Boron	mg/L	ND	0.040	0.0039	09/18/18 19:39	
Cadmium	mg/L	ND	0.0010	0.000093	09/18/18 19:39	
Calcium	mg/L	ND	0.50	0.014	09/18/18 19:39	
Chromium	mg/L	ND	0.010	0.0016	09/18/18 19:39	
Cobalt	mg/L	ND	0.010	0.00052	09/18/18 19:39	
Copper	mg/L	ND	0.025	0.0013	09/18/18 19:39	
Lead	mg/L	ND	0.0050	0.00027	09/18/18 19:39	
Nickel	mg/L	ND	0.010	0.00095	09/18/18 19:39	
Selenium	mg/L	ND	0.010	0.0014	09/18/18 19:39	
Silver	mg/L	ND	0.010	0.00095	09/18/18 19:39	
Thallium	mg/L	ND	0.0010	0.00014	09/18/18 19:39	
Vanadium	mg/L	ND	0.010	0.0019	09/18/18 19:39	
Zinc	mg/L	0.0036J	0.010	0.0021	09/18/18 19:39	

LABORATORY CONTROL SAMPLE: 60654

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	.1	0.10	105	80-120	
Arsenic	mg/L	.1	0.099	99	80-120	
Barium	mg/L	.1	0.10	102	80-120	
Beryllium	mg/L	.1	0.10	100	80-120	
Boron	mg/L	1	0.97	97	80-120	
Cadmium	mg/L	.1	0.10	102	80-120	
Calcium	mg/L	1	1.0	104	80-120	
Chromium	mg/L	.1	0.099	99	80-120	
Cobalt	mg/L	.1	0.10	100	80-120	
Copper	mg/L	.1	0.099	99	80-120	
Lead	mg/L	.1	0.099	99	80-120	
Nickel	mg/L	.1	0.10	101	80-120	
Selenium	mg/L	.1	0.097	97	80-120	
Silver	mg/L	.1	0.10	102	80-120	
Thallium	mg/L	.1	0.098	98	80-120	
Vanadium	mg/L	.1	0.10	100	80-120	
Zinc	mg/L	.1	0.11	111	80-120	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells
Pace Project No.: 269334

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 60655 60656

Parameter	Units	269334001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	.1	.1	0.10	0.10	104	103	75-125	1	20	
Arsenic	mg/L	ND	.1	.1	0.10	0.099	102	98	75-125	4	20	
Barium	mg/L	0.022	.1	.1	0.14	0.13	116	112	75-125	2	20	
Beryllium	mg/L	ND	.1	.1	0.098	0.099	98	98	75-125	1	20	
Boron	mg/L	ND	1	1	0.96	0.97	96	97	75-125	1	20	
Cadmium	mg/L	ND	.1	.1	0.10	0.10	104	102	75-125	2	20	
Calcium	mg/L	25.1	1	1	25.6	24.8J	52	-28	75-125	3	20	M6
Chromium	mg/L	ND	.1	.1	0.10	0.10	103	100	75-125	3	20	
Cobalt	mg/L	ND	.1	.1	0.099	0.10	99	99	75-125	1	20	
Copper	mg/L	ND	.1	.1	0.099	0.099	98	98	75-125	0	20	
Lead	mg/L	ND	.1	.1	0.098	0.098	98	98	75-125	0	20	
Nickel	mg/L	ND	.1	.1	0.099	0.099	99	99	75-125	0	20	
Selenium	mg/L	ND	.1	.1	0.10	0.093	101	92	75-125	9	20	
Silver	mg/L	ND	.1	.1	0.10	0.10	102	101	75-125	1	20	
Thallium	mg/L	ND	.1	.1	0.099	0.099	99	99	75-125	0	20	
Vanadium	mg/L	ND	.1	.1	0.10	0.10	102	101	75-125	2	20	
Zinc	mg/L	0.0033J	.1	.1	0.11	0.10	103	102	75-125	2	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells
Pace Project No.: 269334

QC Batch: 13622 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 269334001, 269334002, 269334003, 269334004, 269334005

LABORATORY CONTROL SAMPLE: 60712

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	386	96	84-108	

SAMPLE DUPLICATE: 60713

Parameter	Units	269335001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	317	325	2	10	

SAMPLE DUPLICATE: 60714

Parameter	Units	269231003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	286	284	1	10	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells
Pace Project No.: 269334

QC Batch: 13623 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 269334006, 269334007, 269334008, 269334009, 269334010

LABORATORY CONTROL SAMPLE: 60715

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	408	102	84-108	

SAMPLE DUPLICATE: 60716

Parameter	Units	269334006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	151	148	2	10	

SAMPLE DUPLICATE: 60717

Parameter	Units	269333004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	144	130	10	10	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells
Pace Project No.: 269334

QC Batch: 13655 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 269334001, 269334002, 269334003, 269334004, 269334005, 269334006, 269334007, 269334008

METHOD BLANK: 60838 Matrix: Water
Associated Lab Samples: 269334001, 269334002, 269334003, 269334004, 269334005, 269334006, 269334007, 269334008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	0.091J	0.25	0.024	09/18/18 15:07	
Fluoride	mg/L	ND	0.30	0.029	09/18/18 15:07	
Sulfate	mg/L	ND	1.0	0.017	09/18/18 15:07	

LABORATORY CONTROL SAMPLE: 60839

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	10	10.3	103	90-110	
Fluoride	mg/L	10	10.0	100	90-110	
Sulfate	mg/L	10	10.1	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 60840 60841

Parameter	Units	269332001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	0.98	10	10	11.2	11.2	102	103	90-110	0	15	
Fluoride	mg/L	ND	10	10	10.3	10.3	103	103	90-110	0	15	
Sulfate	mg/L	7.7	10	10	17.2	17.1	95	95	90-110	0	15	

MATRIX SPIKE SAMPLE: 60842

Parameter	Units	269332002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	0.92	10	11.0	101	90-110	
Fluoride	mg/L	ND	10	10.2	102	90-110	
Sulfate	mg/L	2.1	10	12.5	104	90-110	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Bowen cells
Pace Project No.: 269334

QC Batch: 13668 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 269334009, 269334010

METHOD BLANK: 60888 Matrix: Water
Associated Lab Samples: 269334009, 269334010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	0.058J	0.25	0.024	09/19/18 03:45	
Fluoride	mg/L	ND	0.30	0.029	09/19/18 03:45	
Sulfate	mg/L	ND	1.0	0.017	09/19/18 03:45	

LABORATORY CONTROL SAMPLE: 60889

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	10	10.3	103	90-110	
Fluoride	mg/L	10	10.2	102	90-110	
Sulfate	mg/L	10	10.1	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 60890 60891

Parameter	Units	269334009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	0.076J	10	10	10.2	10.2	102	101	90-110	0	15	
Fluoride	mg/L	ND	10	10	10.1	10.2	101	102	90-110	0	15	
Sulfate	mg/L	ND	10	10	10.0	10.1	100	101	90-110	0	15	

MATRIX SPIKE SAMPLE: 60892

Parameter	Units	269334010 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	1.4	10	11.6	102	90-110	
Fluoride	mg/L	ND	10	10.5	105	90-110	
Sulfate	mg/L	1.8	10	12.0	102	90-110	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALIFIERS

Project: Plant Bowen cells
Pace Project No.: 269334

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

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Bowen cells
Pace Project No.: 269334

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
269334001	GWA-39Z	EPA 3005A	13609	EPA 6020B	13739
269334002	GWA-40	EPA 3005A	13609	EPA 6020B	13739
269334003	GWA-41	EPA 3005A	13609	EPA 6020B	13739
269334004	GWA-41R	EPA 3005A	13609	EPA 6020B	13739
269334005	GWA-43	EPA 3005A	13609	EPA 6020B	13739
269334006	GWA-43R	EPA 3005A	13609	EPA 6020B	13739
269334007	GWC-44	EPA 3005A	13609	EPA 6020B	13739
269334008	FBL091218	EPA 3005A	13609	EPA 6020B	13739
269334009	EQBL091218	EPA 3005A	13609	EPA 6020B	13739
269334010	Dup-1	EPA 3005A	13609	EPA 6020B	13739
269334001	GWA-39Z	EPA 7470A	13620	EPA 7470A	13670
269334002	GWA-40	EPA 7470A	13620	EPA 7470A	13670
269334003	GWA-41	EPA 7470A	13628	EPA 7470A	13678
269334004	GWA-41R	EPA 7470A	13628	EPA 7470A	13678
269334005	GWA-43	EPA 7470A	13628	EPA 7470A	13678
269334006	GWA-43R	EPA 7470A	13628	EPA 7470A	13678
269334007	GWC-44	EPA 7470A	13628	EPA 7470A	13678
269334008	FBL091218	EPA 7470A	13628	EPA 7470A	13678
269334009	EQBL091218	EPA 7470A	13628	EPA 7470A	13678
269334010	Dup-1	EPA 7470A	13628	EPA 7470A	13678
269334001	GWA-39Z	SM 2540C	13622		
269334002	GWA-40	SM 2540C	13622		
269334003	GWA-41	SM 2540C	13622		
269334004	GWA-41R	SM 2540C	13622		
269334005	GWA-43	SM 2540C	13622		
269334006	GWA-43R	SM 2540C	13623		
269334007	GWC-44	SM 2540C	13623		
269334008	FBL091218	SM 2540C	13623		
269334009	EQBL091218	SM 2540C	13623		
269334010	Dup-1	SM 2540C	13623		
269334001	GWA-39Z	EPA 300.0	13655		
269334002	GWA-40	EPA 300.0	13655		
269334003	GWA-41	EPA 300.0	13655		
269334004	GWA-41R	EPA 300.0	13655		
269334005	GWA-43	EPA 300.0	13655		
269334006	GWA-43R	EPA 300.0	13655		
269334007	GWC-44	EPA 300.0	13655		
269334008	FBL091218	EPA 300.0	13655		
269334009	EQBL091218	EPA 300.0	13668		
269334010	Dup-1	EPA 300.0	13668		

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Georgia Power - Coal Combustion Residuals	Report To:	Joju Abraham	Attention:	scsinvoices@southernco.com
Address:	2480 Maner Road	Copy To:	Wood Environmental	Company Name:	
	Atlanta, GA 30339			Address:	
Email:	jabraham@southernco.com	Purchase Order #:	SCS10348606	Pace Quote:	
Phone:	(404)506-7239 Fax	Project Name:	Plant Bowen Cells - State List	Pace Project Manager:	betsy.mcdaniel@pacelabs.com,
Requested Due Date:		Project #:		Pace Profile #:	317 5

Regulatory Agency: | State / Location: GA

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Requested Analysis Filtered (Y/N): Y/N	Analyses Test: TDS, Cl, F, SO4	Metals 6020 *	Hg EPA 7470	Residual Chlorine (Y/N)
				DATE	TIME	DATE	TIME											Y/N	Y	Y	Y	
1	GWA-39Z	WT	G	9/12/18	1236				2	1		1							X	X	X	
2	GWA-40	WT	G	9/12/18	0958				2	1		1							X	X	X	
3	GWA-41	WT	G	9/12/18	1225				2	1		1							X	X	X	
4	GWA-41R	WT	G	9/12/18	1353				2	1		1							X	X	X	
5	GWA-43	WT	G	9/12/18	1020				2	1		1							X	X	X	
6	GWA-43R	WT	G	9/12/18	1344				2	1		1							X	X	X	
7	GWC-44	WT	G	9/12/18	1513				2	1		1							X	X	X	
8	FBL091218	WT	G	9/12/18	1553				2	1		1							X	X	X	
9	EQBL091218	WT	G	9/12/18	1558				2	1		1							X	X	X	
10	DUP-1	WT	G	9/12/18	—				2	1		1							X	X	X	
11																						
12																						

WO#: 269334

269334

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
VF VF										
* Metals State List: Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Pb, Mg, Ni, K, Se, Ag, Na, Tl, V, Zn	Veronica Fay	9/14/18	1544	MZahman	09/14/18	1700				
VF										
							0.8	X	Y	X

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kevin Stephenson, Audrey Cratton, Veronica Fay

SIGNATURE of SAMPLER: Veronica Fay DATE Signed: 9/12/18

Sample Condition Upon Receipt

Pace Analytical

Client Name: GA Power

Project # _____

WO# : 269334

PM: BM Due Date: 09/21/18

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 33 Type of Ice: (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 0.8 Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: 9/14/18 MK

Temp should be above freezing to 6°C

				Comments:
Chain of Custody Present:	☑Yes	☐No	☐N/A	1.
Chain of Custody Filled Out:	☑Yes	☐No	☐N/A	2.
Chain of Custody Relinquished:	☑Yes	☐No	☐N/A	3.
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☑Yes	☐No	☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes	☑No	☐N/A	6.
Rush Turn Around Time Requested:	☐Yes	☑No	☐N/A	7.
Sufficient Volume:	☑Yes	☐No	☐N/A	8.
Correct Containers Used:	☑Yes	☐No	☐N/A	9.
-Pace Containers Used:	☑Yes	☐No	☐N/A	
Containers Intact:	☑Yes	☐No	☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☑N/A	11.
Sample Labels match COC:	☑Yes	☐No	☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W				
All containers needing preservation have been checked.	☑Yes	☐No	☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes	☐No	☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes	☑No		Initial when completed _____ Lot # of added preservative _____
Samples checked for dechlorination:	☐Yes	☐No	☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☑N/A	15.
Trip Blank Present:	☐Yes	☐No	☑N/A	16.
Trip Blank Custody Seals Present	☐Yes	☐No	☑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: 2018-09-17 12:15:14

Project Information:		Pump Information:	
Operator Name	Kevin Stephenson	Pump Model/Type	QED Dedicated
Company Name	Resolute	Tubing Type	LDPE
Project Name	Cells 1&2	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	152 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	589976		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	146.80 ft

Well Information:		Pumping Information:	
Well ID	GWA-1	Final Pumping Rate	100 mL/min
Well diameter	2 in	Total System Volume	1.16344 L
Well Total Depth	87.02 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	98.52 in
Depth to Water	151.80 ft	Total Volume Pumped	10 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	11:58:14	5044.98	19.30	7.52	296.40	5.52	95.12	2.05	57.61
Last 5	12:02:14	5284.97	19.34	7.53	296.43	5.30	95.15	2.14	57.59
Last 5	12:06:14	5524.97	19.57	7.53	294.68	4.93	95.17	2.28	58.46
Last 5	12:10:14	5764.97	19.41	7.54	295.05	4.81	95.21	2.45	59.46
Last 5	12:14:14	6004.97	19.95	7.53	295.28	4.20	95.23	2.55	59.50
Variance 0			0.23	0.01	-1.75			0.15	0.87
Variance 1			-0.16	0.00	0.37			0.16	0.99
Variance 2			0.54	-0.00	0.23			0.10	0.05

Notes

Pre-purged 8 liters.

Grab Samples

GWA-1
- Metals

GWA-1
- Inorganics

Dup-1
- Metals

Dup-1
- Inorganics

Product Name: Low-Flow System

Date: 2018-09-14 12:25:44

Project Information:		Pump Information:	
Operator Name	Veronica Fay	Pump Model/Type	QED Dedicated
Company Name	Resolute	Tubing Type	LDPE
Project Name	Cells 1&2	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	155 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	440279		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	149.3 ft

Well Information:		Pumping Information:	
Well ID	GWA-2	Final Pumping Rate	105 mL/min
Well diameter	2 in	Total System Volume	1.176831 L
Well Total Depth	154.3 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	0.12 in
Depth to Water	82.07 ft	Total Volume Pumped	5.88 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	12:07:35	2402.00	19.50	5.99	31.44	0.44	82.08	6.06	111.17
Last 5	12:11:35	2642.00	19.46	5.93	28.98	0.41	82.08	6.03	114.15
Last 5	12:15:35	2881.99	19.56	5.89	27.64	0.38	82.08	5.94	116.60
Last 5	12:19:35	3121.99	19.31	5.85	27.38	0.46	82.08	5.96	119.44
Last 5	12:23:35	3361.98	19.59	5.81	28.30	0.42	82.08	5.95	121.53
Variance 0			0.10	-0.04	-1.34			-0.09	2.45
Variance 1			-0.25	-0.04	-0.26			0.02	2.84
Variance 2			0.28	-0.04	0.92			-0.01	2.09

Notes

Pre-purged 1L

Grab Samples

GWA-2

Metals

GWA-2

Inorganics

Product Name: Low-Flow System

Date: 2018-09-14 10:52:57

Project Information:		Pump Information:	
Operator Name	Audrey Crafton	Pump Model/Type	QED Dedicated
Company Name	Resolute	Tubing Type	LDPE
Project Name	Cells 1&2	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	109 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	440279		
Turbidity Make/Model	LaMotte2020we	Pump placement from TOC	103.5 ft

Well Information:		Pumping Information:	
Well ID	GWA-2R	Final Pumping Rate	140 mL/min
Well diameter	2 in	Total System Volume	0.9715132 L
Well Total Depth	108.5 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	18.48 in
Depth to Water	81.91 ft	Total Volume Pumped	10.13 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	10:33:09	3372.00	19.17	7.46	210.18	0.16	83.50	5.54	51.87
Last 5	10:37:09	3611.98	19.24	7.49	207.80	0.12	83.45	5.82	52.34
Last 5	10:41:20	3863.00	19.35	7.51	204.91	0.07	83.45	6.06	53.13
Last 5	10:45:20	4102.98	19.59	7.52	202.71	0.09	83.45	6.29	53.82
Last 5	10:49:20	4342.99	19.59	7.55	200.49	0.30	83.45	6.52	54.38
Variance 0			0.11	0.02	-2.89			0.24	0.79
Variance 1			0.24	0.02	-2.20			0.23	0.69
Variance 2			0.00	0.02	-2.22			0.23	0.56

Notes

Pre-purged 1.5L

Grab Samples

GWA-2R

Metals

GWA-2R

Inorganics

Product Name: Low-Flow System

Date: 2018-09-17 15:58:43

Project Information:		Pump Information:	
Operator Name	Kevin Stephenson	Pump Model/Type	QED Dedicated
Company Name	Resolute	Tubing Type	LDPE
Project Name	Cells 1&2	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	99 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	589976		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	93.20 ft

Well Information:		Pumping Information:	
Well ID	GWA-3	Final Pumping Rate	120 mL/min
Well diameter	2 in	Total System Volume	0.9268789 L
Well Total Depth	98.20 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	137.28 in
Depth to Water	66.63 ft	Total Volume Pumped	12.96 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	15:40:33	5529.95	22.42	5.18	20.35	0.53	77.50	7.63	183.67
Last 5	15:44:35	5771.94	21.87	5.20	20.50	0.62	77.63	7.95	186.35
Last 5	15:48:35	6011.93	21.22	5.21	20.73	0.37	77.78	8.03	186.45
Last 5	15:52:37	6253.93	20.76	5.21	20.70	0.75	77.93	8.09	184.94
Last 5	15:56:42	6498.92	20.60	5.22	20.71	0.47	78.07	8.18	179.91
Variance 0			-0.65	0.01	0.24			0.09	0.10
Variance 1			-0.46	0.00	-0.03			0.05	-1.51
Variance 2			-0.17	0.01	0.01			0.09	-5.02

Notes

Pre-purged 4 liters.

Grab Samples

GWA-3

Metals

GWA-3

Inorganics

Product Name: Low-Flow System

Date: 2018-09-17 12:25:45

Project Information:		Pump Information:	
Operator Name	Veronica Fay	Pump Model/Type	QED Dedicated
Company Name	Resolute	Tubing Type	LDPE
Project Name	Cells 1&2	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	120 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	463068		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	115.1 ft

Well Information:		Pumping Information:	
Well ID	GWA-4RZ	Final Pumping Rate	130 mL/min
Well diameter	2 in	Total System Volume	1.020611 L
Well Total Depth	120.1 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	270.48 in
Depth to Water	87.77 ft	Total Volume Pumped	16.67 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	12:05:37	6736.92	18.89	7.24	390.55	0.35	108.18	1.14	19.52
Last 5	12:09:37	6976.92	18.92	7.25	389.49	0.50	108.73	1.18	19.47
Last 5	12:13:37	7216.91	19.09	7.25	389.94	0.33	109.25	1.21	19.32
Last 5	12:17:37	7456.91	19.71	7.25	389.71	0.41	109.81	1.21	18.95
Last 5	12:21:37	7696.90	19.55	7.26	390.04	0.53	110.31	1.24	19.32
Variance 0			0.16	-0.00	0.46			0.03	-0.16
Variance 1			0.62	0.01	-0.23			0.00	-0.37
Variance 2			-0.17	0.00	0.32			0.03	0.37

Notes

Prepurged 1.5 L

Draw down would not stabilize. Performed complete evacuation. Sample will be collected 9/18/18.

Grab Samples

Log:	Plant Bowen- 1 of 1
Report Created:	2018-09-20 13:53:01
Site:	Plant Bowen
GPS:	
Log Created:	2018-09-18 09:22:04
Well ID:	GWA-4RZ
Number Readings:	11
Battery Type:	SmarTROLLâ„¢ Battery Pack
Battery SN:	592201
Device Type:	SmarTROLLâ„¢ MP
Device SN:	463068

Created	Baro (mbar)	Temp (C)	RDO (mg/L	RDO Sat (%	pH (pH)	ORP (mV)	Act Cond (	Sp Cond (µ	Salinity (ps	Resist (Ohı	Density (g/	TDS (ppm)	Depth (ft)	Pressure (p	Air Temp (C)
9/18/2018 9:22	991.4	21.09	3.51	40.4	7.5	154.8	418.5	451.6	0.2	2390	0.998	293.55	-0.2	-0.085	25.5
9/18/2018 9:22	991.4	20.92	3.48	40	7.49	150.8	418.3	452.7	0.2	2391	0.998	294.26	-0.22	-0.096	25.5
9/18/2018 9:22	991.4	20.79	3.49	39.9	7.47	148	418.4	454.4	0.2	2390	0.998	295.39	-0.23	-0.099	25.6
9/18/2018 9:22	991.5	20.67	3.49	39.9	7.46	145.9	418.7	455.7	0.2	2389	0.998	296.18	-0.19	-0.083	25.6
9/18/2018 9:22	991.5	20.58	3.51	40	7.44	144.2	418.8	456.8	0.2	2388	0.998	296.93	-0.22	-0.094	25.6
9/18/2018 9:22	991.4	20.51	3.52	40.1	7.43	142.7	419.3	458.2	0.2	2385	0.998	297.83	-0.23	-0.098	25.7
9/18/2018 9:23	991.4	20.44	3.55	40.3	7.42	141.4	420.1	459.8	0.2	2380	0.998	298.85	-0.23	-0.101	25.7
9/18/2018 9:23	991.5	20.4	3.56	40.4	7.41	140.3	420.6	460.8	0.2	2378	0.998	299.52	-0.21	-0.092	25.7
9/18/2018 9:23	991.4	20.37	3.58	40.6	7.41	139.2	421	461.6	0.2	2375	0.998	300.03	-0.22	-0.094	25.7
9/18/2018 9:23	991.4	20.34	3.59	40.7	7.4	138.3	421.4	462.4	0.2	2373	0.998	300.57	-0.21	-0.093	25.8
9/18/2018 9:23	991.4	20.31	3.6	40.8	7.39	137.4	421.7	463	0.2	2371	0.998	300.92	-0.22	-0.095	25.8

Product Name: Low-Flow System

Date: 2018-09-17 11:53:21

Project Information:		Pump Information:	
Operator Name	Audrey Crafton	Pump Model/Type	QED Dedicated
Company Name	Resolute	Tubing Type	LDPE
Project Name	Cells 1&2	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	114 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	440279		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	108.8 ft

Well Information:		Pumping Information:	
Well ID	GWC-5	Final Pumping Rate	125 mL/min
Well diameter	2 in	Total System Volume	0.9938302 L
Well Total Depth	113.8 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	71.88 in
Depth to Water	80.81 ft	Total Volume Pumped	15 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	11:35:06	6241.96	19.06	6.21	34.97	1.34	86.60	7.22	88.12
Last 5	11:39:06	6481.96	18.99	6.20	34.04	1.24	86.65	7.30	87.72
Last 5	11:43:06	6721.96	19.24	6.18	33.56	1.10	86.70	7.27	87.84
Last 5	11:47:06	6961.96	19.22	6.16	32.87	1.23	86.74	7.36	88.29
Last 5	11:51:06	7201.95	19.02	6.14	32.44	1.04	86.80	7.29	88.59
Variance 0			0.25	-0.02	-0.48			-0.03	0.12
Variance 1			-0.02	-0.02	-0.69			0.09	0.45
Variance 2			-0.19	-0.01	-0.43			-0.08	0.30

Notes

Pre-purged 2L

Grab Samples

GWC-5

Metals

GWC-5

Inorganics

Product Name: Low-Flow System

Date: 2018-09-17 15:00:34

Project Information:		Pump Information:	
Operator Name	Audrey Crafton	Pump Model/Type	QED Dedicated
Company Name	Resolute	Tubing Type	LDPE
Project Name	Cells 1&2	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	112 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	440279		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	106.4 ft

Well Information:		Pumping Information:	
Well ID	GWC-6	Final Pumping Rate	120 mL/min
Well diameter	2 in	Total System Volume	0.9849034 L
Well Total Depth	111.4 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	3.36 in
Depth to Water	75.10 ft	Total Volume Pumped	2.4 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	14:42:25	240.10	18.79	7.47	134.48	3.47	75.32	6.61	43.02
Last 5	14:46:25	480.03	18.44	7.54	129.77	2.95	75.35	6.62	42.92
Last 5	14:50:25	720.02	18.46	7.55	128.23	2.90	75.35	6.65	43.33
Last 5	14:54:25	960.02	18.52	7.56	128.06	2.99	75.36	6.69	43.62
Last 5	14:58:25	1200.02	18.48	7.57	127.54	3.01	75.38	6.69	44.05
Variance 0			0.02	0.01	-1.55			0.03	0.41
Variance 1			0.07	0.01	-0.17			0.03	0.29
Variance 2			-0.04	0.01	-0.51			0.00	0.43

Notes

Pre-purged 5L

Grab Samples

GWC-6

Metals

GWC-6

Inorganics

Product Name: Low-Flow System

Date: 2018-09-17 13:19:03

Project Information:		Pump Information:	
Operator Name	Audrey Crafton	Pump Model/Type	QED Dedicated
Company Name	Resolute	Tubing Type	LDPE
Project Name	Cells 1&2	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	109 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	440279		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	103.4 ft

Well Information:		Pumping Information:	
Well ID	GWC-6RZ	Final Pumping Rate	110 mL/min
Well diameter	2 in	Total System Volume	0.9715132 L
Well Total Depth	108.4 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	0 in
Depth to Water	78.72 ft	Total Volume Pumped	3.1 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	13:01:00	720.02	20.13	6.79	116.48	1.70	78.72	6.35	37.86
Last 5	13:05:00	960.02	19.93	6.84	115.29	1.64	78.72	6.54	35.50
Last 5	13:09:00	1200.02	19.86	6.88	114.09	1.52	78.72	6.66	34.13
Last 5	13:13:00	1440.01	19.79	6.92	113.46	1.48	78.72	6.72	33.38
Last 5	13:17:00	1680.01	19.41	6.96	112.63	1.45	78.72	6.76	33.70
Variance 0			-0.07	0.04	-1.20			0.12	-1.37
Variance 1			-0.07	0.04	-0.62			0.05	-0.75
Variance 2			-0.38	0.04	-0.84			0.04	0.32

Notes

Pre-purged 1L

Grab Samples

GWC-6RZ

Metals

GWC-6RZ

Inorganics

Product Name: Low-Flow System

Date: 2018-09-18 10:18:26

Project Information:		Pump Information:	
Operator Name	Kevin Stephenson	Pump Model/Type	QED Dedicated
Company Name	Resolute	Tubing Type	LDPE
Project Name	Cells 1&2	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	117 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	589976		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	112.00 ft

Well Information:		Pumping Information:	
Well ID	GWC-7Z	Final Pumping Rate	120 mL/min
Well diameter	2 in	Total System Volume	1.007221 L
Well Total Depth	117.00 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	0.48 in
Depth to Water	60.11 ft	Total Volume Pumped	4.32 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	10:00:17	1200.03	18.68	7.20	224.76	5.45	60.18	1.18	-34.32
Last 5	10:04:17	1440.02	18.79	7.22	225.32	3.39	60.18	1.19	-45.85
Last 5	10:08:17	1680.02	18.73	7.24	225.22	3.05	60.19	1.21	-55.07
Last 5	10:12:17	1920.02	18.58	7.25	224.44	3.14	60.18	1.20	-62.73
Last 5	10:16:17	2160.02	18.81	7.26	225.59	2.96	60.18	1.22	-70.39
Variance 0			-0.07	0.02	-0.10			0.01	-9.21
Variance 1			-0.15	0.01	-0.78			-0.00	-7.66
Variance 2			0.24	0.01	1.16			0.02	-7.66

Notes

Pre-purged 8 liters.

Grab Samples

GWC-7Z

Metals

GWC-7Z

Inorganics

Product Name: Low-Flow System

Date: 2018-09-18 14:10:33

Project Information:		Pump Information:	
Operator Name	Kevin Stephenson	Pump Model/Type	QED Dedicated
Company Name	Resolute	Tubing Type	LDPE
Project Name	Cells 1&2	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	112 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	589976		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	106.83 ft

Well Information:		Pumping Information:	
Well ID	GWC-8RR	Final Pumping Rate	140 mL/min
Well diameter	2 in	Total System Volume	0.9849034 L
Well Total Depth	111.83 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	0.84 in
Depth to Water	49.33 ft	Total Volume Pumped	2.8 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	13:52:04	240.10	20.05	7.77	195.99	3.08	49.40	7.66	71.71
Last 5	13:56:04	480.04	19.26	7.88	198.18	1.13	49.40	8.33	81.58
Last 5	14:00:04	720.03	19.48	7.90	198.39	1.19	49.40	8.51	86.30
Last 5	14:04:04	960.02	19.42	7.92	198.56	1.38	49.39	8.58	89.78
Last 5	14:08:04	1200.02	19.44	7.92	199.17	1.39	49.40	8.60	92.11
Variance 0			0.21	0.02	0.21			0.17	4.72
Variance 1			-0.06	0.02	0.17			0.07	3.48
Variance 2			0.02	0.00	0.61			0.02	2.33

Notes

Pre-purged 1 liter.

Grab Samples

GWC-8RR

Metals

GWC-8RR

Inorganics

Product Name: Low-Flow System

Date: 2018-09-18 13:01:10

Project Information:		Pump Information:	
Operator Name	Kevin Stephenson	Pump Model/Type	QED Dedicated
Company Name	Resolute	Tubing Type	LDPE
Project Name	Cells 1&2	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	76 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	589976		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	71.37 ft

Well Information:		Pumping Information:	
Well ID	GWC-8Z	Final Pumping Rate	120 mL/min
Well diameter	2 in	Total System Volume	0.8242202 L
Well Total Depth	76.37 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	5.28 in
Depth to Water	49.54 ft	Total Volume Pumped	5.76 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	12:40:36	1920.02	18.77	6.81	124.60	3.49	49.98	8.04	66.76
Last 5	12:44:36	2160.02	18.76	6.85	129.08	3.52	49.98	8.03	68.45
Last 5	12:48:45	2409.01	18.80	6.87	133.47	3.12	49.98	8.03	71.06
Last 5	12:52:45	2649.01	18.92	6.91	137.53	3.20	49.98	8.09	71.31
Last 5	12:56:45	2889.01	18.86	6.95	140.24	3.06	49.98	8.03	72.71
Variance 0			0.04	0.02	4.39			-0.00	2.60
Variance 1			0.12	0.05	4.06			0.06	0.25
Variance 2			-0.06	0.03	2.71			-0.06	1.41

Notes

Pre-purged 2.5 liters

Grab Samples

GWC-8Z

Metals

GWC-8Z

Inorganics

Product Name: Low-Flow System

Date: 2018-09-18 09:40:51

Project Information:		Pump Information:	
Operator Name	Audrey Crafton	Pump Model/Type	QED Dedicated
Company Name	Resolute	Tubing Type	LDPE
Project Name	Cells 1&2	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	78 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	440279		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	72.16 ft

Well Information:		Pumping Information:	
Well ID	GWC-9	Final Pumping Rate	125 mL/min
Well diameter	2 in	Total System Volume	0.833147 L
Well Total Depth	77.16 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	0 in
Depth to Water	43.22 ft	Total Volume Pumped	4 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	09:23:07	960.03	17.90	5.29	43.64	0.17	43.22	6.19	77.54
Last 5	09:27:07	1200.02	17.90	5.34	44.12	0.13	43.22	6.21	77.19
Last 5	09:31:07	1440.03	17.99	5.35	44.49	0.02	43.22	6.22	77.05
Last 5	09:35:07	1680.02	17.94	5.36	44.51	0.03	43.22	6.22	77.46
Last 5	09:39:07	1920.02	18.08	5.36	44.82	0.16	43.22	6.22	77.67
Variance 0			0.09	0.01	0.37			0.01	-0.14
Variance 1			-0.05	0.01	0.01			-0.00	0.41
Variance 2			0.13	0.00	0.32			0.00	0.21

Notes

Pre-purged 1L

Grab Samples

GWC-9

Metals

GWC-9

Inorganics

DUP-2

Metals

DUP-2

Inorganics

Product Name: Low-Flow System

Date: 2018-09-18 11:18:19

Project Information:		Pump Information:	
Operator Name	Audrey Crafton	Pump Model/Type	QED Dedicated
Company Name	Resolute	Tubing Type	LDPE
Project Name	Cells 1&2	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	72 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	440279		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	66.81 ft

Well Information:		Pumping Information:	
Well ID	GWC-10	Final Pumping Rate	130 mL/min
Well diameter	2 in	Total System Volume	0.8063664 L
Well Total Depth	71.81 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	0 in
Depth to Water	36.43 ft	Total Volume Pumped	5.72 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	11:00:13	1680.02	18.45	6.97	303.16	0.64	36.43	6.35	73.13
Last 5	11:04:13	1920.02	18.48	7.03	305.74	0.69	36.45	6.35	72.78
Last 5	11:08:13	2160.01	18.32	7.07	306.73	0.76	36.45	6.48	72.81
Last 5	11:12:13	2400.04	18.90	7.11	303.11	1.05	36.45	6.48	72.55
Last 5	11:16:13	2640.03	18.65	7.14	303.94	0.88	36.43	6.67	72.51
Variance 0			-0.16	0.04	0.99			0.13	0.02
Variance 1			0.59	0.04	-3.62			0.00	-0.26
Variance 2			-0.25	0.03	0.83			0.19	-0.04

Notes

Pre-purged 1L

Grab Samples

GWC-10

Metals

GWC-10

Inorganics

Product Name: Low-Flow System

Date: 2018-09-18 12:36:07

Project Information:		Pump Information:	
Operator Name	Audrey Crafton	Pump Model/Type	QED Dedicated
Company Name	Resolute	Tubing Type	LDPE
Project Name	Cells 1&2	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	101 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	440279		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	95.2 ft

Well Information:		Pumping Information:	
Well ID	GWC-10R	Final Pumping Rate	150 mL/min
Well diameter	2 in	Total System Volume	0.9358057 L
Well Total Depth	100.2 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	0 in
Depth to Water	36.50 ft	Total Volume Pumped	7.2 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	12:18:24	1920.01	17.84	7.59	296.22	0.20	36.50	5.09	35.52
Last 5	12:22:24	2160.01	17.76	7.61	295.88	0.23	36.50	5.38	35.39
Last 5	12:26:24	2399.99	17.74	7.63	293.25	0.21	36.50	5.60	35.17
Last 5	12:30:25	2641.00	17.76	7.64	292.68	0.24	36.50	5.88	35.08
Last 5	12:34:25	2880.99	17.70	7.66	291.60	0.13	36.50	5.99	35.73
Variance 0			-0.02	0.02	-2.63			0.22	-0.22
Variance 1			0.03	0.01	-0.57			0.28	-0.09
Variance 2			-0.07	0.01	-1.08			0.11	0.65

Notes

Pre-purged 1L

Grab Samples

GWC-10R

Metals

GWC-10R

Inorganics

Product Name: Low-Flow System

Date: 2018-09-18 13:21:57

Project Information:		Pump Information:	
Operator Name	Veronica Fay	Pump Model/Type	QED Dedicated
Company Name	Resolute	Tubing Type	LDPE
Project Name	Cells 1&2	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	47 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	463068		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	42.4 ft

Well Information:		Pumping Information:	
Well ID	GWC-11	Final Pumping Rate	130 mL/min
Well diameter	2 in	Total System Volume	0.6947809 L
Well Total Depth	47.40 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	0.12 in
Depth to Water	26.30 ft	Total Volume Pumped	9.36 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	13:02:27	3359.98	20.84	6.74	164.79	1.30	26.31	3.93	80.29
Last 5	13:06:28	3600.97	20.93	6.79	168.84	1.01	26.31	4.07	80.32
Last 5	13:10:28	3840.96	20.66	6.83	172.79	1.05	26.31	4.18	80.51
Last 5	13:14:28	4080.96	20.84	6.87	176.18	1.02	26.31	4.26	80.26
Last 5	13:18:28	4320.96	20.76	6.90	180.60	0.92	26.31	4.35	80.27
Variance 0			-0.27	0.04	3.95			0.11	0.19
Variance 1			0.18	0.04	3.39			0.08	-0.25
Variance 2			-0.08	0.03	4.42			0.09	0.01

Notes

Prepurged 1L

Well took a little while to stabilize.

Grab Samples

GWC-11

Metals

GWC-11

Inorganics

Product Name: Low-Flow System

Date: 2018-09-18 14:58:26

Project Information:		Pump Information:	
Operator Name	Veronica Fay	Pump Model/Type	QED Dedicated
Company Name	Resolute	Tubing Type	LDPE
Project Name	Cells 1&2	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	83 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	463068		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	78.2 ft

Well Information:		Pumping Information:	
Well ID	GWC-11R	Final Pumping Rate	125 mL/min
Well diameter	2 in	Total System Volume	0.8554641 L
Well Total Depth	83.2 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	0.48 in
Depth to Water	26.20 ft	Total Volume Pumped	6.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	14:39:29	2159.99	20.26	7.86	259.09	0.64	26.24	5.85	71.17
Last 5	14:43:29	2399.99	20.48	7.86	259.45	0.60	26.24	5.85	70.49
Last 5	14:47:29	2639.99	20.61	7.87	258.60	0.70	26.24	5.87	70.03
Last 5	14:51:29	2879.98	20.18	7.88	255.09	0.69	26.24	5.75	70.33
Last 5	14:55:29	3119.97	20.29	7.88	257.82	0.68	26.24	5.76	69.93
Variance 0			0.13	0.01	-0.85			0.02	-0.46
Variance 1			-0.43	0.01	-3.51			-0.12	0.30
Variance 2			0.11	0.00	2.73			0.01	-0.40

Notes

Prepurged 2L

Grab Samples

GWC-11R

Metals

GWC-11R

Inorganics

Product Name: Low-Flow System

Date: 2018-09-18 14:15:59

Project Information:		Pump Information:	
Operator Name	Audrey Crafton	Pump Model/Type	QED Dedicated
Company Name	Resolute	Tubing Type	LDPE
Project Name	Cells 1&2	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	55 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	440279		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	49.2 ft

Well Information:		Pumping Information:	
Well ID	GWC-12	Final Pumping Rate	120 mL/min
Well diameter	2 in	Total System Volume	0.7304883 L
Well Total Depth	54.2 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	3.72 in
Depth to Water	25.42 ft	Total Volume Pumped	3.84 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	13:53:38	720.02	21.62	6.43	114.29	1.64	25.84	0.25	23.81
Last 5	13:57:38	960.02	22.27	6.42	114.86	1.61	25.79	0.26	19.41
Last 5	14:05:38	1440.01	22.54	6.41	114.84	1.14	25.76	0.42	11.70
Last 5	14:09:38	1680.00	23.18	6.41	115.18	1.56	25.73	0.44	8.14
Last 5	14:13:38	1920.00	22.54	6.42	114.19	1.44	25.73	0.45	5.54
Variance 0			0.27	-0.01	-0.02			0.16	-7.71
Variance 1			0.64	-0.01	0.34			0.03	-3.56
Variance 2			-0.64	0.01	-0.99			0.00	-2.60

Notes

Pre-purged 1L

Grab Samples

GWC-12

Metals

GWC-12

Inorganics

Product Name: Low-Flow System

Date: 2018-09-19 15:32:09

Project Information:		Pump Information:	
Operator Name	Veronica Fay	Pump Model/Type	QED Dedicated
Company Name	Resolute	Tubing Type	LDPE
Project Name	Cells 1&2	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	85 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	463068		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	79.8 ft

Well Information:		Pumping Information:	
Well ID	GWC-13	Final Pumping Rate	150 mL/min
Well diameter	2 in	Total System Volume	0.864391 L
Well Total Depth	84.8 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	0.48 in
Depth to Water	34.76 ft	Total Volume Pumped	29.29 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	15:12:15	12487.79	21.03	7.30	348.83	5.55	34.80	4.23	66.12
Last 5	15:16:15	12727.78	21.13	7.30	351.08	5.67	34.80	4.27	65.24
Last 5	15:20:15	12967.78	21.03	7.31	349.53	5.55	34.80	4.23	64.90
Last 5	15:24:15	13207.77	21.20	7.31	349.91	5.72	34.80	4.23	64.53
Last 5	15:28:15	13447.74	21.02	7.31	349.99	6.34	34.80	4.23	64.29
Variance 0			-0.10	0.01	-1.55			-0.04	-0.34
Variance 1			0.17	0.00	0.39			0.00	-0.37
Variance 2			-0.18	-0.00	0.07			-0.01	-0.24

Notes

Prepurged 36 L. Ants have colonized well. Trying to purge ant fragments/ fibers

Ants have colonized the well.

Grab Samples

GWC-13

Metals

GWC-13

Inorganics

Product Name: Low-Flow System

Date: 2018-09-19 13:37:23

Project Information:		Pump Information:	
Operator Name	Kevin Stephenson	Pump Model/Type	QED Dedicated
Company Name	Resolute	Tubing Type	LDPE
Project Name	Cells 1&2	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	106 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	589976		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	101.00 ft

Well Information:		Pumping Information:	
Well ID	GWC-13RZ	Final Pumping Rate	120 mL/min
Well diameter	2 in	Total System Volume	0.9581228 L
Well Total Depth	106.00 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	559.8 in
Depth to Water	49.62 ft	Total Volume Pumped	30.24 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	13:14:03	13920.80	20.50	7.43	452.81	3.70	94.63	2.77	160.60
Last 5	13:22:03	14400.80	20.41	7.43	455.75	3.17	95.03	2.80	158.18
Last 5	13:26:03	14640.80	20.57	7.43	458.00	4.78	95.38	2.81	157.27
Last 5	13:30:04	14881.80	20.56	7.43	456.18	5.02	95.82	2.81	157.71
Last 5	13:34:04	15121.80	20.51	7.43	464.72	4.98	96.27	2.85	157.88
Variance 0			0.15	-0.00	2.25			0.01	-0.91
Variance 1			-0.01	0.00	-1.81			0.00	0.44
Variance 2			-0.05	0.00	8.53			0.04	0.17

Notes

Pre-purged 2.5 liters. Water did not stabilize above top of screen. Complete evacuation method initiated. Sampled to be collected 9/20.

Grab Samples

Log:	Plant Bowen- 1 of 1
Report Created:	2018-09-20 14:10:52
Site:	Plant Bowen
GPS:	
Log Created:	2018-09-20 09:37:48
Well ID:	GWC-13RZ
Number Readings:	11
Battery Type:	SmarTROLLâ„¢ Battery Pack
Battery SN:	592201
Device Type:	SmarTROLLâ„¢ MP
Device SN:	463068

Created	Baro (mbar)	Temp (C)	RDO (mg/l	RDO Sat (9	pH (pH)	ORP (mV)	Act Cond (	Sp Cond (Â	Salinity (ps	Resist (Oh	Density (g/	TDS (ppm)	Depth (ft)	Pressure (	Air Temp (C)
9/20/2018 9:37	997.4	22.16	4.15	48.5	7.53	172	554.3	585.6	0.3	1804	0.998	380.64	-0.19	-0.081	25.5
9/20/2018 9:37	997.4	22.16	4.15	48.5	7.53	172	554.3	585.6	0.3	1804	0.998	380.64	-0.19	-0.081	25.5
9/20/2018 9:37	997.4	22.04	3.58	41.8	7.53	164.4	554.7	586.9	0.3	1803	0.998	381.46	-0.21	-0.093	25.5
9/20/2018 9:38	997.4	21.84	3.47	40.4	7.53	159.4	555.3	589.6	0.3	1801	0.998	383.23	-0.2	-0.087	25.5
9/20/2018 9:38	997.5	21.64	3.46	40.1	7.53	156.1	551.7	588.1	0.3	1813	0.998	382.28	-0.23	-0.098	25.5
9/20/2018 9:38	997.4	21.47	3.47	40	7.53	154.1	549.2	587.9	0.3	1821	0.998	382.15	-0.21	-0.091	25.6
9/20/2018 9:38	997.4	21.35	3.49	40.1	7.53	152.9	546.7	586.9	0.3	1829	0.998	381.48	-0.25	-0.108	25.6
9/20/2018 9:38	997.5	21.23	3.53	40.5	7.52	152.2	543.8	585.3	0.3	1839	0.998	380.43	-0.22	-0.095	25.6
9/20/2018 9:38	997.5	21.15	3.57	41	7.52	151.7	541.6	584	0.3	1846	0.998	379.6	-0.21	-0.092	25.6
9/20/2018 9:39	997.5	21.07	3.63	41.6	7.52	151.1	539.9	583.3	0.3	1852	0.998	379.14	-0.2	-0.086	25.6
9/20/2018 9:39	997.5	21.02	3.69	42.2	7.52	150.4	538.5	582.5	0.3	1857	0.998	378.61	-0.2	-0.087	25.6

Product Name: Low-Flow System

Date: 2018-09-19 16:51:40

Project Information:		Pump Information:	
Operator Name	Audrey Crafton	Pump Model/Type	QED Dedicated
Company Name	Resolute	Tubing Type	LDPE
Project Name	Cells 1&2	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	77 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	440279		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	71.34 ft

Well Information:		Pumping Information:	
Well ID	GWC-14Z	Final Pumping Rate	120 mL/min
Well diameter	2 in	Total System Volume	0.8286836 L
Well Total Depth	76.34 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	36.4 in
Depth to Water	34.58 ft	Total Volume Pumped	29.81 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	16:32:47	13944.80	20.64	6.86	191.90	11.50	37.71	5.71	84.85
Last 5	16:36:47	14184.79	20.66	6.87	192.41	11.20	37.65	5.66	84.81
Last 5	16:40:48	14425.78	20.88	6.87	192.05	9.35	37.55	5.69	84.41
Last 5	16:44:48	14665.78	20.86	6.88	189.87	9.16	37.48	6.07	84.50
Last 5	16:48:48	14905.77	21.18	6.88	193.45	9.49	37.38	6.14	84.21
Variance 0			0.22	0.00	-0.35			0.02	-0.40
Variance 1			-0.02	0.00	-2.18			0.38	0.09
Variance 2			0.32	-0.00	3.58			0.08	-0.29

Notes

Pre-purged 1L. All parameters, excluding turbidity(fluctuated around 10 NTU), were stable for 3+ hours of trolling. Confirmed with BF from Ga Power that samples could be collected.

Grab Samples

GWC-14Z

Metals

GWC-14Z

Inorganics

Product Name: Low-Flow System

Date: 2018-09-19 11:45:57

Project Information:		Pump Information:	
Operator Name	Audrey Crafton	Pump Model/Type	QED Dedicated
Company Name	Resolute	Tubing Type	LDPE
Project Name	Cells 1&2	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	100 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	440279		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	92.5 ft

Well Information:		Pumping Information:	
Well ID	GWC-15R	Final Pumping Rate	120 mL/min
Well diameter	2 in	Total System Volume	0.9313423 L
Well Total Depth	97.5 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	2.76 in
Depth to Water	43.52 ft	Total Volume Pumped	5.3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	11:27:21	1680.02	22.26	7.60	314.18	3.83	43.79	1.31	39.84
Last 5	11:31:25	1924.01	22.30	7.62	311.80	3.74	43.78	1.38	50.97
Last 5	11:35:25	2164.00	22.41	7.63	311.62	3.58	43.75	1.42	65.66
Last 5	11:39:34	2413.00	22.48	7.65	311.50	3.53	43.77	1.47	88.14
Last 5	11:43:34	2653.00	22.45	7.66	311.01	3.32	43.75	1.54	115.94
Variance 0			0.11	0.01	-0.17			0.04	14.69
Variance 1			0.08	0.01	-0.12			0.04	22.47
Variance 2			-0.04	0.01	-0.49			0.08	27.80

Notes

Pre-purged 1L

Grab Samples

GWC-15R

Metals

GWC-15R

Inorganics

Product Name: Low-Flow System

Date: 2018-09-19 10:01:36

Project Information:		Pump Information:	
Operator Name	Audrey Crafton	Pump Model/Type	QED Dedicated
Company Name	Resolute	Tubing Type	LDPE
Project Name	Cells 1&2	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	75 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	440279		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	69.40 ft

Well Information:		Pumping Information:	
Well ID	GWC-15Z	Final Pumping Rate	135 mL/min
Well diameter	2 in	Total System Volume	0.8197567 L
Well Total Depth	74.90 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	7.8 in
Depth to Water	43.20 ft	Total Volume Pumped	2.6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	09:43:36	240.04	19.50	7.67	232.24	0.51	43.88	6.45	68.54
Last 5	09:47:36	480.03	19.59	7.71	232.40	0.58	43.85	6.37	65.67
Last 5	09:51:36	720.02	19.68	7.73	232.53	1.04	43.85	6.26	62.81
Last 5	09:55:36	960.03	19.86	7.76	232.81	0.99	43.85	6.25	61.03
Last 5	09:59:36	1200.02	19.86	7.77	233.56	1.09	43.85	6.21	59.65
Variance 0			0.09	0.03	0.13			-0.11	-2.86
Variance 1			0.18	0.02	0.28			-0.01	-1.78
Variance 2			-0.00	0.02	0.76			-0.04	-1.38

Notes

Pre-purged 1L

Grab Samples

GWC-15Z

Metals

GWC-15Z

Inorganics

DUP-3

Metals

DUP-3

Inorganics

Product Name: Low-Flow System

Date: 2018-09-06 12:20:48

Project Information:		Pump Information:	
Operator Name	Kevin Stephenson	Pump Model/Type	QED Dedicated
Company Name	Resolute	Tubing Type	LDPE
Project Name	Cells 3&4	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	98 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	449622		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	92.60 ft

Well Information:		Pumping Information:	
Well ID	GWC-16R	Final Pumping Rate	100 mL/min
Well diameter	2 in	Total System Volume	0.9224155 L
Well Total Depth	97.60 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	93.12 in
Depth to Water	81.15 ft	Total Volume Pumped	9.6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	11:58:10	5045.00	19.99	7.04	476.25	0.53	88.17	2.34	28.86
Last 5	12:02:10	5285.00	19.62	7.06	476.79	0.64	88.40	2.31	29.88
Last 5	12:06:10	5525.00	19.51	7.06	475.25	0.66	88.74	2.39	30.47
Last 5	12:10:10	5764.99	19.46	7.06	473.95	0.70	88.91	2.46	32.36
Last 5	12:14:10	6004.99	19.33	7.08	473.86	0.95	88.91	2.58	29.54
Variance 0			-0.11	0.00	-1.54			0.08	0.59
Variance 1			-0.05	-0.00	-1.30			0.06	1.89
Variance 2			-0.13	0.03	-0.10			0.13	-2.83

Notes

Pre-purged 2 liters. Water level did not stabilize above top of screen. Complete evacuation method initiated. Sampled to be collected 9/7/18.

Grab Samples

Product Name: Low-Flow System

Date: 2018-09-10 11:28:31

Project Information:		Pump Information:	
Operator Name	Veronica Fay	Pump Model/Type	QED Dedicated
Company Name	Resolute	Tubing Type	LDPE
Project Name	Cells 3&4	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	93 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	463068		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	87.6 ft

Well Information:		Pumping Information:	
Well ID	GWA-17R	Final Pumping Rate	130 mL/min
Well diameter	2 in	Total System Volume	0.9000984 L
Well Total Depth	92.6 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	42.24 in
Depth to Water	83.48 ft	Total Volume Pumped	4.68 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	11:07:38	1200.02	20.41	7.12	579.19	0.67	84.35	7.37	55.70
Last 5	11:11:38	1440.01	21.02	7.13	580.57	0.44	84.35	7.35	55.29
Last 5	11:15:38	1680.01	21.47	7.13	580.92	0.31	84.35	7.30	55.31
Last 5	11:19:38	1920.01	21.83	7.13	581.17	0.32	84.35	7.26	55.09
Last 5	11:23:38	2160.00	22.13	7.13	581.90	0.57	84.35	7.21	55.82
Variance 0			0.44	0.00	0.35			-0.04	0.02
Variance 1			0.36	0.00	0.25			-0.05	-0.21
Variance 2			0.30	0.00	0.73			-0.04	0.73

Notes

Prepurged 1.5 L

Static water level was 0.88′ below top of screen. Performed evacuation protocol. Top of pump was 84.35′.

Grab Samples

Product Name: Low-Flow System

Date: 2018-09-11 16:54:21

Project Information:		Pump Information:	
Operator Name	Audrey Crafton	Pump Model/Type	QED Dedicated
Company Name	Resolute	Tubing Type	LDPE
Project Name	Cells 3&4	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	81 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	440279		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	78.5 ft

Well Information:		Pumping Information:	
Well ID	GWC-18	Final Pumping Rate	160 mL/min
Well diameter	2 in	Total System Volume	0.8465373 L
Well Total Depth	80.31 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	4.8 in
Depth to Water	74.64 ft	Total Volume Pumped	23 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	16:36:13	7688.85	17.57	6.95	182.25	5.86	74.68	7.34	88.44
Last 5	16:40:13	7928.85	17.65	6.95	183.16	5.03	74.68	7.33	88.71
Last 5	16:44:13	8168.84	17.77	6.96	183.24	4.86	74.69	7.29	88.76
Last 5	16:48:13	8408.83	17.63	6.97	184.50	4.24	74.69	7.32	88.77
Last 5	16:52:19	8654.87	17.65	6.97	185.60	4.22	74.68	7.34	88.69
Variance 0			0.11	0.01	0.08			-0.04	0.05
Variance 1			-0.13	0.01	1.26			0.02	0.01
Variance 2			0.01	0.01	1.11			0.02	-0.07

Notes

Pre-purged 1.5 L 3 Well Volume method utilized. Approved by PR.

Grab Samples

GWC-18

Metals

GWC-18

Inorganics

Product Name: Low-Flow System

Date: 2018-09-07 10:57:02

Project Information:		Pump Information:	
Operator Name	Kevin Stephenson	Pump Model/Type	QED Dedicated
Company Name	Resolute	Tubing Type	LDPE
Project Name	Cells 3&4	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	140 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	449622		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	135.10 ft

Well Information:		Pumping Information:	
Well ID	GWC-18R	Final Pumping Rate	110 mL/min
Well diameter	2 in	Total System Volume	1.109879 L
Well Total Depth	140.10 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	0.24 in
Depth to Water	74.02 ft	Total Volume Pumped	2.2 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	10:38:31	240.10	19.59	7.63	272.15	1.49	74.03	6.14	40.79
Last 5	10:42:31	480.04	19.55	7.67	272.91	1.17	74.04	6.57	40.48
Last 5	10:46:31	720.03	19.53	7.69	273.58	1.07	74.03	6.64	40.46
Last 5	10:50:31	960.03	19.55	7.70	272.60	0.94	74.05	6.60	40.99
Last 5	10:54:31	1200.03	19.55	7.69	273.74	1.08	75.04	6.63	40.95
Variance 0			-0.02	0.03	0.67			0.07	-0.02
Variance 1			0.02	0.01	-0.98			-0.04	0.53
Variance 2			0.01	-0.01	1.14			0.03	-0.04

Notes

Pre-purged 1 liter.

Grab Samples

GWC-18R
Metals

GWC-18R
Inorganics

Dup-2
Metals

Dup-2
Inorganics

Product Name: Low-Flow System

Date: 2018-09-10 13:02:58

Project Information:		Pump Information:	
Operator Name	Veronica Fay	Pump Model/Type	QED Dedicated
Company Name	Resolute	Tubing Type	LDPE
Project Name	Cells 3&4	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	147 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	463068		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	141.6 ft

Well Information:		Pumping Information:	
Well ID	GWC-19R	Final Pumping Rate	110 mL/min
Well diameter	2 in	Total System Volume	1.141123 L
Well Total Depth	146.6 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	0.24 in
Depth to Water	78.45 ft	Total Volume Pumped	2.64 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	12:43:56	480.03	20.09	7.69	278.58	1.78	78.47	6.43	54.09
Last 5	12:47:56	720.03	20.12	7.69	279.40	1.68	78.47	6.43	53.76
Last 5	12:51:56	960.02	19.97	7.69	278.26	1.71	78.47	6.38	54.07
Last 5	12:55:56	1200.02	20.02	7.69	277.89	1.90	78.47	6.39	54.04
Last 5	12:59:56	1440.02	19.95	7.69	276.46	1.72	78.47	6.35	54.45
Variance 0			-0.15	0.00	-1.14			-0.04	0.31
Variance 1			0.04	0.00	-0.37			0.01	-0.04
Variance 2			-0.07	-0.00	-1.43			-0.04	0.41

Notes

Prepurged 1 L

Well performed well

Grab Samples

GWC-19R

Metals

GWC-19R

Inorganics

Product Name: Low-Flow System

Date: 2018-09-10 14:38:44

Project Information:		Pump Information:	
Operator Name	Audrey Crafton	Pump Model/Type	QED Dedicated
Company Name	Resolute	Tubing Type	LDPE
Project Name	Cells 3&4	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	88 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	440279		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	82.47 ft

Well Information:		Pumping Information:	
Well ID	GWC-20R	Final Pumping Rate	110 mL/min
Well diameter	2 in	Total System Volume	0.8777813 L
Well Total Depth	87.47 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	1.2 in
Depth to Water	72.50 ft	Total Volume Pumped	2.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	14:20:02	480.02	20.33	7.87	304.83	0.81	72.55	6.96	38.38
Last 5	14:24:02	720.02	20.07	7.84	300.78	3.81	72.61	6.62	38.07
Last 5	14:28:02	960.01	20.13	7.83	297.61	2.68	72.60	6.54	38.57
Last 5	14:32:02	1200.00	20.06	7.83	296.13	1.91	72.59	6.51	39.62
Last 5	14:36:02	1440.00	20.04	7.84	297.94	1.13	72.60	6.55	40.30
Variance 0			0.06	-0.02	-3.17			-0.08	0.50
Variance 1			-0.06	0.00	-1.47			-0.02	1.05
Variance 2			-0.02	0.01	1.81			0.03	0.67

Notes

Grab Samples
GWC-20R
    Metals
GWC-20R
    Inorganics

Product Name: Low-Flow System

Date: 2018-09-10 15:42:04

Project Information:		Pump Information:	
Operator Name	Veronica Fay	Pump Model/Type	QED Dedicated
Company Name	Resolute	Tubing Type	LDPE
Project Name	Cells 3&4	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	92 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	463068		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	97.1 ft

Well Information:		Pumping Information:	
Well ID	GWC-21 R	Final Pumping Rate	100 mL/min
Well diameter	2 in	Total System Volume	0.8956349 L
Well Total Depth	92.1 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	58.92 in
Depth to Water	72.60 ft	Total Volume Pumped	7.19 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	15:20:59	3359.96	20.71	6.94	552.58	0.56	76.90	3.79	3.30
Last 5	15:24:59	3599.96	20.84	6.95	550.36	0.60	77.09	3.85	3.71
Last 5	15:28:59	3839.94	20.98	6.95	549.78	0.61	77.25	3.85	4.03
Last 5	15:32:59	4079.97	20.95	6.95	550.12	0.65	77.40	3.86	4.45
Last 5	15:36:59	4319.97	21.13	6.96	549.71	0.60	77.51	3.85	4.80
Variance 0			0.14	0.01	-0.58			-0.00	0.32
Variance 1			-0.03	0.00	0.34			0.02	0.43
Variance 2			0.18	0.00	-0.41			-0.02	0.35

Notes

Prepurged 1L

Draw down takes a while to stabilize

Grab Samples

GWC-21R

Metals

GWC-21R

Inorganics

Product Name: Low-Flow System

Date: 2018-09-07 13:21:21

Project Information:		Pump Information:	
Operator Name	Veronica Fay	Pump Model/Type	QED Dedicated
Company Name	Resolute	Tubing Type	LDPE
Project Name	Cells 3&4	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	120 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	463068		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	114.6 ft

Well Information:		Pumping Information:	
Well ID	GWC-22R	Final Pumping Rate	140 mL/min
Well diameter	2 in	Total System Volume	1.020611 L
Well Total Depth	119.6 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	0.12 in
Depth to Water	65.01 ft	Total Volume Pumped	5.75 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	13:01:39	2160.01	20.88	7.51	294.71	4.03	65.02	2.57	9.92
Last 5	13:05:39	2400.01	20.50	7.51	293.32	3.27	65.02	2.76	8.06
Last 5	13:09:39	2640.01	20.75	7.52	291.16	2.97	65.02	2.83	5.79
Last 5	13:13:39	2880.01	21.19	7.52	290.81	2.23	65.02	2.93	3.08
Last 5	13:17:39	3120.00	21.71	7.53	286.35	1.89	65.02	2.99	1.16
Variance 0			0.25	0.00	-2.15			0.07	-2.27
Variance 1			0.45	-0.00	-0.36			0.10	-2.71
Variance 2			0.52	0.01	-4.46			0.07	-1.91

Notes

Prepurged 2L

Grab Samples

GWC-22R

Metals

GWC-22R

Inorganics

Product Name: Low-Flow System

Date: 2018-09-10 12:54:16

Project Information:		Pump Information:	
Operator Name	Audrey Crafton	Pump Model/Type	QED Dedicated
Company Name	Resolute	Tubing Type	LDPE
Project Name	Cells 3&4	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	52 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	440279		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	48.0 ft

Well Information:		Pumping Information:	
Well ID	GWC-23R	Final Pumping Rate	150 mL/min
Well diameter	2 in	Total System Volume	0.717098 L
Well Total Depth	49.5 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	66.36 in
Depth to Water	40.57 ft	Total Volume Pumped	12.4 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	12:35:21	3839.92	18.79	7.86	554.36	7.65	45.10	9.18	51.07
Last 5	12:39:21	4079.93	18.79	7.86	556.72	7.23	45.42	9.53	48.36
Last 5	12:43:21	4319.93	18.88	7.87	558.09	7.72	45.70	9.51	46.91
Last 5	12:47:21	4559.93	18.78	7.88	559.91	3.11	45.90	9.64	46.48
Last 5	12:51:21	4799.92	18.79	7.89	560.20	5.75	46.10	9.48	46.13
Variance 0			0.09	0.02	1.36			-0.03	-1.45
Variance 1			-0.09	0.01	1.82			0.14	-0.42
Variance 2			0.01	0.01	0.29			-0.16	-0.35

Notes

Have to evacuate well since DTW is below top of screen. Will evacuate to 46 feet and collect sample tomorrow
Complete evac. No sample taken

Grab Samples

Product Name: Low-Flow System

Date: 2018-09-11 12:05:18

Project Information:		Pump Information:	
Operator Name	Veronica Fay	Pump Model/Type	QED Dedicated
Company Name	Resolute	Tubing Type	LDPE
Project Name	Cells 3&4	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	40 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	463068		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	34.7 ft

Well Information:		Pumping Information:	
Well ID	GWC-24R	Final Pumping Rate	100 mL/min
Well diameter	2 in	Total System Volume	0.6635369 L
Well Total Depth	39.7 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	9.48 in
Depth to Water	26.24 ft	Total Volume Pumped	6.8 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	11:44:14	2400.00	18.70	7.37	288.55	1.45	27.03	3.13	39.38
Last 5	11:48:14	2640.00	18.67	7.38	287.77	1.01	27.03	3.33	38.34
Last 5	11:52:14	2879.99	18.67	7.40	285.84	1.15	27.03	3.39	37.67
Last 5	11:56:14	3119.99	18.72	7.41	282.93	0.94	27.03	3.54	37.50
Last 5	12:00:15	3360.99	18.70	7.40	282.30	0.89	27.03	3.60	36.21
Variance 0			-0.00	0.02	-1.93			0.06	-0.67
Variance 1			0.05	0.01	-2.90			0.14	-0.17
Variance 2			-0.02	-0.01	-0.64			0.06	-1.29

Notes

Prepurged 2L

Pumping rate dropped slightly under 100 ml/ min at 1120. Pumping rate adjusted to 130 ml/ min at this time. Total volume accounts for the pumping rate adjustment.

Grab Samples
GWC-24R
    Metals
GWC-24R
    Inorganics

Product Name: Low-Flow System

Date: 2018-09-11 12:42:29

Project Information:		Pump Information:	
Operator Name	Audrey Crafton	Pump Model/Type	QED Dedicated
Company Name	Resolute	Tubing Type	LDPE
Project Name	Cells 3&4	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	100 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	440279		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	94.7 ft

Well Information:		Pumping Information:	
Well ID	GWC-25R	Final Pumping Rate	115 mL/min
Well diameter	2 in	Total System Volume	0.9313423 L
Well Total Depth	99.7 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	0 in
Depth to Water	25.46 ft	Total Volume Pumped	2.8 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	12:24:01	480.03	20.20	7.58	290.69	0.42	25.46	6.29	61.76
Last 5	12:28:01	720.02	20.31	7.63	291.04	0.49	25.45	6.21	61.19
Last 5	12:32:01	960.01	20.46	7.66	290.80	0.51	25.45	6.13	61.29
Last 5	12:36:01	1200.01	20.41	7.68	290.33	0.46	25.45	6.10	61.64
Last 5	12:40:01	1440.00	20.48	7.69	290.74	0.45	25.45	6.03	61.78
Variance 0			0.16	0.03	-0.24			-0.08	0.10
Variance 1			-0.05	0.02	-0.47			-0.04	0.35
Variance 2			0.07	0.01	0.41			-0.06	0.14

Notes

Pre-purged 1 L

Grab Samples

GWC-25R

Metals

GWC-25R

Inorganics

Product Name: Low-Flow System

Date: 2018-09-06 10:12:24

Project Information:		Pump Information:	
Operator Name	Veronica Fay	Pump Model/Type	QED Dedicated
Company Name	Resolute	Tubing Type	LDPE
Project Name	Cells 3&4	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	79 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	463068		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	73.6 ft

Well Information:		Pumping Information:	
Well ID	GWA-36	Final Pumping Rate	140 mL/min
Well diameter	2 in	Total System Volume	0.8376105 L
Well Total Depth	78.6 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	0.12 in
Depth to Water	34.70 ft	Total Volume Pumped	3.36 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	09:50:24	480.03	20.92	6.86	180.85	3.84	34.70	6.31	31.90
Last 5	09:54:24	720.03	20.44	6.85	181.74	4.18	34.70	6.47	27.59
Last 5	09:58:24	960.02	20.46	6.84	182.91	3.74	34.71	6.50	25.45
Last 5	10:02:24	1200.02	20.45	6.85	182.29	3.31	34.71	6.48	24.12
Last 5	10:06:25	1441.02	20.22	6.83	183.61	3.14	34.71	6.59	24.31
Variance 0			0.03	-0.01	1.18			0.03	-2.14
Variance 1			-0.01	0.01	-0.63			-0.02	-1.33
Variance 2			-0.23	-0.02	1.32			0.10	0.20

Notes

Prepurged 2 L

Well performed beautifully

Grab Samples

GWA-36

Metals

GWA-36

Inorganics

Product Name: Low-Flow System

Date: 2018-09-06 11:13:36

Project Information:		Pump Information:	
Operator Name	Veronica Fay	Pump Model/Type	QED Dedicated
Company Name	Resolute	Tubing Type	LDPE
Project Name	Cells 3&4	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	89 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	463068		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	83.7 ft

Well Information:		Pumping Information:	
Well ID	GWA-36R	Final Pumping Rate	130 mL/min
Well diameter	2 in	Total System Volume	0.8822446 L
Well Total Depth	88.7 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	0.12 in
Depth to Water	34.37 ft	Total Volume Pumped	2.6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	10:53:21	240.04	21.99	7.20	317.01	1.57	34.38	4.83	25.94
Last 5	10:57:21	480.03	21.55	7.21	316.77	1.73	34.38	4.95	25.55
Last 5	11:01:21	720.02	21.33	7.21	315.87	1.52	34.38	4.99	25.92
Last 5	11:05:21	960.02	21.28	7.21	316.33	1.51	34.38	4.97	25.94
Last 5	11:09:21	1200.02	21.19	7.21	315.75	1.49	34.38	4.97	26.34
Variance 0			-0.23	-0.00	-0.90			0.04	0.37
Variance 1			-0.04	0.00	0.46			-0.02	0.02
Variance 2			-0.09	-0.00	-0.58			0.00	0.40

Notes

Prepurged 2L

Well performed beautifully

Grab Samples

GWA-36R

Metals

GWA-36R

Inorganics

DUP-1

Metals

DUP-1

Inorganics

Product Name: Low-Flow System

Date: 2018-09-06 10:48:17

Project Information:		Pump Information:	
Operator Name	Audrey Crafton	Pump Model/Type	QED Dedicated
Company Name	Resolute	Tubing Type	LDPE
Project Name	Cells 3&4	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	107 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	440279		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	102 ft

Well Information:		Pumping Information:	
Well ID	GWA-37	Final Pumping Rate	120 mL/min
Well diameter	2 in	Total System Volume	0.9625863 L
Well Total Depth	107.10 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	82.8 in
Depth to Water	52.10 ft	Total Volume Pumped	8.16 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	10:29:34	3360.94	21.54	5.59	19.75	0.15	58.15	5.07	46.74
Last 5	10:33:34	3600.95	21.68	5.60	19.90	0.31	58.50	5.05	46.33
Last 5	10:37:34	3840.94	22.76	5.59	19.88	0.29	58.61	4.93	46.63
Last 5	10:41:34	4080.94	22.36	5.59	19.95	0.80	58.82	4.93	46.54
Last 5	10:45:34	4320.93	22.44	5.59	20.03	0.41	59.00	4.92	46.94
Variance 0			1.08	-0.01	-0.02			-0.12	0.30
Variance 1			-0.40	0.01	0.07			0.00	-0.10
Variance 2			0.08	-0.00	0.08			-0.02	0.40

Notes

Grab Samples
GWA-37
    Metals
GWA-37
    Inorganics

Product Name: Low-Flow System

Date: 2018-09-06 12:10:17

Project Information:		Pump Information:	
Operator Name	Audrey Crafton	Pump Model/Type	QED Dedicated
Company Name	Resolute	Tubing Type	LDPE
Project Name	Cells 3&4	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	70 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	440279		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	64.35 ft

Well Information:		Pumping Information:	
Well ID	GWA-38	Final Pumping Rate	100 mL/min
Well diameter	2 in	Total System Volume	0.7974396 L
Well Total Depth	69.35 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	5.52 in
Depth to Water	54.45 ft	Total Volume Pumped	3.2 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	11:51:54	960.01	24.56	5.73	35.19	0.60	54.73	8.30	42.30
Last 5	11:55:54	1200.01	24.55	5.73	35.94	1.42	54.75	8.27	42.07
Last 5	11:59:54	1440.00	24.45	5.72	35.17	0.24	54.80	8.29	41.62
Last 5	12:03:54	1679.99	24.62	5.69	35.68	0.61	54.81	8.18	42.46
Last 5	12:07:54	1919.99	24.71	5.69	35.70	0.48	54.91	8.22	42.80
Variance 0			-0.11	-0.01	-0.77			0.02	-0.45
Variance 1			0.18	-0.03	0.51			-0.12	0.84
Variance 2			0.09	-0.00	0.01			0.04	0.33

Notes

Grab Samples

- GWA-38
  - Metals
- GWA-38
  - Inorganics

Product Name: Low-Flow System

Date: 2018-09-12 11:51:22

Project Information:		Pump Information:	
Operator Name	Kevin Stephenson	Pump Model/Type	QED Dedicated
Company Name	Resolute	Tubing Type	LDPE
Project Name	Cells 9&10	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	118 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	449622		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	112.50 ft

Well Information:		Pumping Information:	
Well ID	GWA-39Z	Final Pumping Rate	140 mL/min
Well diameter	2 in	Total System Volume	1.011684 L
Well Total Depth	117.50 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	4.32 in
Depth to Water	69.34 ft	Total Volume Pumped	14 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	11:08:28	3601.01	18.37	6.79	213.53	11.46	69.70	6.58	71.38
Last 5	11:16:28	4081.00	18.46	6.81	216.04	12.09	69.70	6.52	71.36
Last 5	11:20:28	4321.00	18.61	6.79	217.74	10.00	69.70	6.47	71.13
Last 5	11:24:28	4561.00	18.52	6.79	219.30	9.74	69.70	6.45	72.57
Last 5	11:28:28	4801.00	18.57	6.78	220.50	9.51	69.70	6.43	71.79
Variance 0			0.15	-0.01	1.70			-0.05	-0.24
Variance 1			-0.09	0.00	1.57			-0.02	1.44
Variance 2			0.05	-0.01	1.20			-0.02	-0.78

Notes

Pre-purged 4 liters. Troll stopped logging. Ended troll and will Restart on new log.

Grab Samples

Product Name: Low-Flow System

Date: 2018-09-12 12:32:52

Project Information:		Pump Information:	
Operator Name	Kevin Stephenson	Pump Model/Type	QED Dedicated
Company Name	Resolute	Tubing Type	LDPE
Project Name	Cells 9&10	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	118 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	449622		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	112.50 ft

Well Information:		Pumping Information:	
Well ID	GWA-39Z	Final Pumping Rate	140 mL/min
Well diameter	2 in	Total System Volume	1.011684 L
Well Total Depth	117.50 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	4.32 in
Depth to Water	69.34 ft	Total Volume Pumped	4.48 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	12:12:21	960.03	19.91	6.84	232.63	5.58	69.70	6.30	70.12
Last 5	12:16:21	1200.02	20.21	6.85	233.79	5.28	69.70	6.28	69.46
Last 5	12:20:21	1440.02	20.32	6.84	234.32	4.86	69.70	6.30	70.54
Last 5	12:24:21	1680.02	20.15	6.84	234.38	4.82	69.70	6.31	70.72
Last 5	12:28:21	1920.02	20.38	6.86	235.78	4.78	69.70	6.23	69.97
Variance 0			0.11	-0.02	0.53			0.02	1.08
Variance 1			-0.17	0.00	0.06			0.00	0.17
Variance 2			0.24	0.01	1.40			-0.07	-0.75

Notes

This is the 2nd log due to technical difficulties during first attempt.

Grab Samples

GWA-39Z

Metals

GWA-39Z

Inorganics

Product Name: Low-Flow System

Date: 2018-09-13 15:39:16

Project Information:		Pump Information:	
Operator Name	Kevin Stephenson	Pump Model/Type	QED Dedicated
Company Name	Resolute	Tubing Type	LDPE
Project Name	Cells 9&10	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	140 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	449622		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	135.07 ft

Well Information:		Pumping Information:	
Well ID	GWA-39RZ	Final Pumping Rate	140 mL/min
Well diameter	2 in	Total System Volume	1.109879 L
Well Total Depth	140.07 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	687.48 in
Depth to Water	68.71 ft	Total Volume Pumped	24.80 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	15:20:02	14160.82	17.01	7.29	275.85	0.33	119.25	1.26	35.57
Last 5	15:24:02	14400.82	16.92	7.30	277.24	0.14	120.81	1.25	36.10
Last 5	15:28:02	14640.82	16.92	7.34	279.47	0.24	121.66	1.29	36.00
Last 5	15:32:02	14880.82	16.83	7.29	279.53	0.13	123.45	1.40	34.92
Last 5	15:36:02	15120.82	17.32	7.32	281.09	0.23	124.75	1.51	33.42
Variance 0			-0.00	0.03	2.23			0.04	-0.10
Variance 1			-0.09	-0.05	0.06			0.11	-1.07
Variance 2			0.49	0.03	1.56			0.11	-1.50

Notes

Water level did not stabilize. Complete evacuation method initiated. Sampled to be collected 9/14

Grab Samples

Product Name: Low-Flow System

Date: 2018-09-12 09:58:03

Project Information:		Pump Information:	
Operator Name	Audrey Crafton	Pump Model/Type	QED Dedicated
Company Name	Resolute	Tubing Type	LDPE
Project Name	Cells 9&10	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	155 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	440279		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	149.80 ft

Well Information:		Pumping Information:	
Well ID	GWA-40	Final Pumping Rate	125 mL/min
Well diameter	2 in	Total System Volume	1.176831 L
Well Total Depth	154.80 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	4.32 in
Depth to Water	70.30 ft	Total Volume Pumped	3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	09:39:44	480.01	19.11	7.21	171.73	0.92	70.36	8.26	58.70
Last 5	09:43:44	720.00	19.07	7.17	167.95	0.46	70.37	8.39	59.12
Last 5	09:47:44	959.99	19.10	7.14	168.08	0.48	70.36	8.34	59.18
Last 5	09:51:44	1200.00	19.06	7.14	168.40	0.39	70.36	8.20	59.38
Last 5	09:55:44	1439.99	19.11	7.12	171.93	0.64	70.36	8.01	59.65
Variance 0			0.04	-0.02	0.14			-0.06	0.06
Variance 1			-0.04	-0.01	0.32			-0.14	0.20
Variance 2			0.05	-0.01	3.53			-0.18	0.27

Notes

Pre-purged 1L

Grab Samples

GWA-40

Metals

GWA-40

Inorganics

Product Name: Low-Flow System

Date: 2018-09-12 12:30:20

Project Information:		Pump Information:	
Operator Name	Audrey Crafton	Pump Model/Type	QED Dedicated
Company Name	Resolute	Tubing Type	LDPE
Project Name	Cells 9&10	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	103 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	440279		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	97.52 ft

Well Information:		Pumping Information:	
Well ID	GWA-41	Final Pumping Rate	120 mL/min
Well diameter	2 in	Total System Volume	0.9447325 L
Well Total Depth	102.52 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	0 in
Depth to Water	80.45 ft	Total Volume Pumped	9.6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	12:06:55	3850.97	20.70	6.45	121.86	1.60	80.45	6.89	85.40
Last 5	12:10:55	4090.96	21.06	6.49	125.75	1.43	80.45	6.78	85.60
Last 5	12:14:55	4330.95	21.20	6.50	126.95	2.27	80.45	6.74	86.59
Last 5	12:18:55	4570.95	21.19	6.52	128.39	2.22	80.45	6.77	87.29
Last 5	12:22:55	4810.95	21.18	6.54	131.20	2.48	80.45	6.73	87.79
Variance 0			0.13	0.02	1.20			-0.04	0.98
Variance 1			-0.01	0.02	1.44			0.02	0.71
Variance 2			-0.01	0.02	2.80			-0.03	0.50

Notes

Pre-purged 1 L

Taking DUP-1

Grab Samples

GWA-41

Metals

GWA-41

Inorganics

DUP-1
Metals
DUP-1
Inorganics

Product Name: Low-Flow System

Date: 2018-09-12 13:52:28

Project Information:		Pump Information:	
Operator Name	Audrey Crafton	Pump Model/Type	QED Dedicated
Company Name	Resolute	Tubing Type	LDPE
Project Name	Cells 9&10	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	130 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	440279		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	124.8 ft

Well Information:		Pumping Information:	
Well ID	GWA-41R	Final Pumping Rate	120 mL/min
Well diameter	2 in	Total System Volume	1.065245 L
Well Total Depth	129.80 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	1.32 in
Depth to Water	81.11 ft	Total Volume Pumped	2.4 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	13:34:24	240.03	21.50	7.02	284.22	1.34	81.22	0.49	17.92
Last 5	13:38:24	480.02	21.38	6.97	277.32	3.37	81.21	0.33	12.10
Last 5	13:42:24	720.01	21.55	6.99	272.32	2.62	81.22	0.27	12.07
Last 5	13:46:24	960.01	20.90	7.00	271.37	4.60	81.22	0.25	13.72
Last 5	13:50:24	1200.01	20.75	7.02	269.99	3.87	81.22	0.24	14.78
Variance 0			0.17	0.02	-5.01			-0.06	-0.04
Variance 1			-0.65	0.01	-0.95			-0.02	1.66
Variance 2			-0.15	0.02	-1.38			-0.01	1.06

Notes

Pre-purged 1L

Grab Samples

GWA-41R

Metals

GWA-41R

Inorganics

Product Name: Low-Flow System

Date: 2018-09-14 10:51:04

Project Information:		Pump Information:	
Operator Name	Kevin Stephenson	Pump Model/Type	QED Dedicated
Company Name	Resolute	Tubing Type	LDPE
Project Name	Cells 9&10	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	88 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	449622		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	82.90 ft

Well Information:		Pumping Information:	
Well ID	GWA-42	Final Pumping Rate	100 mL/min
Well diameter	2 in	Total System Volume	0.8777813 L
Well Total Depth	87.90 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	0.12 in
Depth to Water	77.39 ft	Total Volume Pumped	2.8 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	10:32:29	720.05	19.86	7.27	260.67	1.94	77.39	4.00	49.91
Last 5	10:36:29	960.03	20.54	7.31	258.26	1.04	77.39	3.88	49.13
Last 5	10:40:29	1200.02	20.87	7.33	258.81	0.86	77.40	3.90	48.24
Last 5	10:44:29	1440.03	21.15	7.36	258.97	0.66	77.40	3.89	47.69
Last 5	10:48:29	1680.03	21.42	7.37	258.52	0.32	77.40	3.90	47.01
Variance 0			0.33	0.02	0.54			0.03	-0.90
Variance 1			0.28	0.02	0.16			-0.01	-0.54
Variance 2			0.27	0.01	-0.45			0.00	-0.69

Notes

Pre-purged 2.8 liters

Grab Samples

GWA-42

Metals

GWA-42

Inorganics

Product Name: Low-Flow System

Date: 2018-09-12 10:31:48

Project Information:		Pump Information:	
Operator Name	Veronica Fay	Pump Model/Type	QED Dedicated
Company Name	Resolute	Tubing Type	LDPE
Project Name	Cells 9&10	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	96 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	463068		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	90.5 ft

Well Information:		Pumping Information:	
Well ID	GWA-43	Final Pumping Rate	150 mL/min
Well diameter	2 in	Total System Volume	0.9134886 L
Well Total Depth	95.5 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	2.4 in
Depth to Water	55.27 ft	Total Volume Pumped	5.37 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	10:02:56	1440.02	19.06	5.63	31.39	5.12	55.50	7.03	80.25
Last 5	10:06:56	1680.01	18.99	5.62	31.34	4.67	55.45	7.34	83.01
Last 5	10:10:56	1920.01	18.70	5.63	30.99	3.56	55.47	7.16	84.27
Last 5	10:14:56	2160.00	18.73	5.64	31.24	3.78	55.47	7.13	86.36
Last 5	10:18:56	2400.00	18.78	5.65	31.59	2.96	55.47	7.38	88.95
Variance 0			-0.29	0.02	-0.35			-0.17	1.26
Variance 1			0.03	0.01	0.24			-0.04	2.09
Variance 2			0.05	0.01	0.35			0.25	2.59

Notes

Prepurged 2L

At 0950, pumping rate dropped to 130 ml/min. Think there is condensation in the air compressor. Total volume takes into consideration the drop in / continued pumping rate of 130 ml/min.

Grab Samples
GWA-43
    Metals
GWA-43
    Inorganics

Product Name: Low-Flow System

Date: 2018-09-12 13:56:18

Project Information:		Pump Information:	
Operator Name	Veronica Fay	Pump Model/Type	QED Dedicated
Company Name	Resolute	Tubing Type	LDPE
Project Name	Cells 9&10	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	130.0 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	463068		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	125.0 ft

Well Information:		Pumping Information:	
Well ID	GWA-43R	Final Pumping Rate	130 mL/min
Well diameter	2 in	Total System Volume	1.065245 L
Well Total Depth	130.0 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	1.8 in
Depth to Water	55.62 ft	Total Volume Pumped	15.04 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	13:26:06	5760.93	18.89	7.76	259.09	2.96	55.76	6.02	94.00
Last 5	13:30:06	6000.92	19.26	7.75	259.02	3.16	55.77	5.98	93.49
Last 5	13:34:06	6240.93	19.03	7.75	257.36	3.17	55.77	5.96	94.10
Last 5	13:38:06	6480.91	18.92	7.75	256.95	2.89	55.77	6.06	93.57
Last 5	13:42:06	6720.91	19.06	7.75	255.65	2.84	55.77	5.97	93.51
Variance 0			-0.23	-0.00	-1.66			-0.02	0.62
Variance 1			-0.10	0.00	-0.41			0.09	-0.53
Variance 2			0.13	0.00	-1.30			-0.08	-0.06

Notes

Prepurged 1.5 L

Pumping rate dropped to 110 ml/ min at 1205. Increased pumping rate to 150 ml/min at 1239 to try and stabilize turbidity. Adjusted pumping rates are accounted for in total volume.

Grab Samples
GWA-43R
    Metals
GWA-43R
    Inorganics

Product Name: Low-Flow System

Date: 2018-09-12 15:11:12

Project Information:		Pump Information:	
Operator Name	Veronica Fay	Pump Model/Type	QED Dedicated
Company Name	Resolute	Tubing Type	LDPE
Project Name	Cells 9&10	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	89 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	463068		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	83.8 ft

Well Information:		Pumping Information:	
Well ID	GWC-44	Final Pumping Rate	150 mL/min
Well diameter	2 in	Total System Volume	0.8822446 L
Well Total Depth	88.8 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	1.68 in
Depth to Water	56.19 ft	Total Volume Pumped	3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	14:52:21	240.13	21.06	4.50	67.79	0.28	56.30	4.91	165.51
Last 5	14:56:21	480.04	20.58	4.49	68.56	0.24	56.31	4.90	171.22
Last 5	15:00:21	720.04	20.40	4.49	68.30	0.24	56.31	4.91	174.61
Last 5	15:04:21	960.04	20.23	4.49	67.57	0.26	56.31	4.85	176.69
Last 5	15:08:21	1200.02	20.12	4.49	67.80	0.21	56.33	4.87	177.88
Variance 0			-0.18	-0.00	-0.25			0.01	3.38
Variance 1			-0.16	-0.00	-0.73			-0.06	2.08
Variance 2			-0.11	-0.00	0.23			0.02	1.19

Notes

Prepurged 2L

Grab Samples

GWC-44

Metals

GWC-44

Inorganics

Product Name: Low-Flow System

Date: 2018-09-13 09:40:32

Project Information:		Pump Information:	
Operator Name	Audrey Crafton	Pump Model/Type	QED Dedicated
Company Name	Resolute	Tubing Type	LDPE
Project Name	Cells 9&10	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	68 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	440279		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	72.4 ft

Well Information:		Pumping Information:	
Well ID	GWC-45	Final Pumping Rate	130 mL/min
Well diameter	2 in	Total System Volume	0.7885128 L
Well Total Depth	67.4 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	35.4 in
Depth to Water	44.69 ft	Total Volume Pumped	3.12 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	09:22:17	480.03	20.31	5.36	22.57	3.71	46.74	6.01	61.19
Last 5	09:26:17	720.02	20.44	5.32	22.40	2.90	46.98	5.95	61.63
Last 5	09:30:17	960.02	20.54	5.29	22.22	1.95	47.42	5.94	63.76
Last 5	09:34:17	1200.01	20.53	5.28	22.12	1.60	47.53	5.93	66.19
Last 5	09:38:17	1440.01	20.49	5.26	22.20	2.05	47.64	5.94	69.97
Variance 0			0.10	-0.02	-0.18			-0.01	2.12
Variance 1			-0.01	-0.02	-0.10			-0.02	2.43
Variance 2			-0.04	-0.01	0.08			0.01	3.78

Notes

Pre-purged 1L

Grab Samples

GWC-45

Metals

GWC-45

Inorganics

Product Name: Low-Flow System

Date: 2018-09-13 10:46:55

Project Information:		Pump Information:	
Operator Name	Audrey Crafton	Pump Model/Type	QED Dedicated
Company Name	Resolute	Tubing Type	LDPE
Project Name	Cells 9&10	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	128 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	440279		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	123.2 ft

Well Information:		Pumping Information:	
Well ID	GWC-45R	Final Pumping Rate	130 mL/min
Well diameter	2 in	Total System Volume	1.056318 L
Well Total Depth	128.2 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	1.44 in
Depth to Water	53.13 ft	Total Volume Pumped	3.12 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	10:28:41	480.02	20.84	7.22	329.39	0.38	53.22	3.82	73.01
Last 5	10:32:41	720.02	20.69	7.26	328.82	0.42	53.23	3.91	74.01
Last 5	10:36:41	960.02	20.95	7.28	327.84	0.39	53.24	3.94	74.83
Last 5	10:40:41	1200.01	20.57	7.30	328.51	0.26	53.25	3.99	75.69
Last 5	10:44:42	1441.01	20.60	7.31	329.20	0.27	53.25	4.06	76.00
Variance 0			0.26	0.02	-0.98			0.03	0.82
Variance 1			-0.37	0.02	0.67			0.05	0.85
Variance 2			0.03	0.02	0.69			0.08	0.31

Notes

Pre-purged 1L

Grab Samples

GWC-45R

Metals

GWC-45R

Inorganics

Product Name: Low-Flow System

Date: 2018-09-13 13:57:31

Project Information:		Pump Information:	
Operator Name	Audrey Crafton	Pump Model/Type	QED Dedicated
Company Name	Resolute	Tubing Type	LDPE
Project Name	Cells 9&10	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	60 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	440279		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	53.8 ft

Well Information:		Pumping Information:	
Well ID	GWC-46R	Final Pumping Rate	130 mL/min
Well diameter	2 in	Total System Volume	0.7528054 L
Well Total Depth	58.8 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	4.8 in
Depth to Water	41.45 ft	Total Volume Pumped	2.6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	13:39:11	240.01	21.60	7.55	466.16	2.84	42.75	6.68	82.09
Last 5	13:43:11	480.01	21.88	7.53	464.21	2.20	42.82	6.62	83.77
Last 5	13:47:11	720.01	21.75	7.52	461.44	2.63	42.86	6.60	84.59
Last 5	13:51:11	960.01	21.82	7.52	460.45	1.50	42.89	6.53	85.48
Last 5	13:55:11	1200.00	21.79	7.52	455.67	1.60	42.85	6.49	85.40
Variance 0			-0.13	-0.01	-2.78			-0.02	0.82
Variance 1			0.07	-0.01	-0.98			-0.07	0.89
Variance 2			-0.03	0.00	-4.78			-0.03	-0.07

Notes

Pre-purged 1L

Grab Samples

GWC-46R

Metals

GWC-46R

Inorganics

Product Name: Low-Flow System

Date: 2018-09-13 09:37:05

Project Information:		Pump Information:	
Operator Name	Veronica Fay	Pump Model/Type	QED Dedicated
Company Name	Resolute	Tubing Type	LDPE
Project Name	Cells 9&10	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	68 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	463068		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	62.33 ft

Well Information:		Pumping Information:	
Well ID	GWC-47	Final Pumping Rate	160 mL/min
Well diameter	2 in	Total System Volume	0.7885128 L
Well Total Depth	67.33 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	0.24 in
Depth to Water	42.25 ft	Total Volume Pumped	3.2 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	09:15:59	240.06	20.28	7.52	245.84	1.31	42.26	2.41	87.20
Last 5	09:19:59	480.03	19.73	7.49	245.96	1.16	42.27	2.40	74.67
Last 5	09:23:59	720.03	19.80	7.48	245.28	0.96	42.27	2.35	68.38
Last 5	09:27:59	960.03	19.77	7.49	243.65	0.84	42.27	2.34	64.76
Last 5	09:31:59	1200.02	19.95	7.49	242.01	0.60	42.27	2.31	62.86
Variance 0			0.07	-0.00	-0.68			-0.05	-6.28
Variance 1			-0.03	0.00	-1.63			-0.01	-3.62
Variance 2			0.18	0.00	-1.64			-0.03	-1.90

Notes

Prepurged 2L

Nice well

Grab Samples

GWC-47

Metals

GWC-47

Inorganics

Product Name: Low-Flow System

Date: 2018-09-13 11:40:09

Project Information:		Pump Information:	
Operator Name	Veronica Fay	Pump Model/Type	QED Dedicated
Company Name	Resolute	Tubing Type	LDPE
Project Name	Cells 9&10	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	85 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	463068		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	39.4 ft

Well Information:		Pumping Information:	
Well ID	GWC-47R	Final Pumping Rate	105 mL/min
Well diameter	2 in	Total System Volume	0.864391 L
Well Total Depth	84.4 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	57.36 in
Depth to Water	42.36 ft	Total Volume Pumped	5.46 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	11:21:10	2160.99	22.03	7.59	306.84	2.84	47.01	2.83	71.82
Last 5	11:25:10	2400.99	22.44	7.61	304.40	1.42	47.06	2.86	72.39
Last 5	11:29:10	2640.97	22.76	7.64	302.86	1.03	47.10	2.87	72.84
Last 5	11:33:11	2881.98	22.30	7.66	301.95	0.79	47.12	2.92	74.14
Last 5	11:37:11	3121.97	22.02	7.68	303.30	0.73	47.14	3.09	74.47
Variance 0			0.32	0.02	-1.54			0.02	0.45
Variance 1			-0.46	0.02	-0.90			0.04	1.31
Variance 2			-0.29	0.02	1.35			0.17	0.32

Notes

Prepurged 3L

Grab Samples

GWC-47R

Metals

GWC-47R

Inorganics

Product Name: Low-Flow System

Date: 2018-09-13 13:24:17

Project Information:		Pump Information:	
Operator Name	Veronica Fay	Pump Model/Type	QED Dedicated
Company Name	Resolute	Tubing Type	LDPE
Project Name	Cells 9&10	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	58.0 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	463068		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	53.0 ft

Well Information:		Pumping Information:	
Well ID	GWC-48	Final Pumping Rate	130 mL/min
Well diameter	2 in	Total System Volume	0.7438785 L
Well Total Depth	58.0 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	1.56 in
Depth to Water	39.08 ft	Total Volume Pumped	4.16 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	13:04:52	960.01	21.32	5.02	34.60	0.92	39.18	3.22	81.95
Last 5	13:08:52	1200.02	21.15	5.02	34.59	0.76	39.18	3.26	83.75
Last 5	13:12:52	1440.00	21.19	5.02	34.47	1.09	39.18	3.31	85.26
Last 5	13:16:52	1680.00	21.13	5.02	34.38	0.71	39.20	3.31	86.88
Last 5	13:20:52	1919.99	21.07	5.02	34.33	0.72	39.21	3.35	88.29
Variance 0			0.05	0.00	-0.12			0.04	1.51
Variance 1			-0.06	0.00	-0.09			0.00	1.61
Variance 2			-0.06	-0.00	-0.06			0.04	1.42

Notes

Prepurged 2L

Grab Samples

GWC-48

Metals

GWC-48

Inorganics

DUP-2

Metals

DUP-2

Inorganics

Product Name: Low-Flow System

Date: 2018-09-13 15:19:27

Project Information:		Pump Information:	
Operator Name	Audrey Crafton	Pump Model/Type	QED Dedicated
Company Name	Resolute	Tubing Type	LDPE
Project Name	Cells 9&10	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	135 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	440279		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	129.3 ft

Well Information:		Pumping Information:	
Well ID	GWC-49R	Final Pumping Rate	125 mL/min
Well diameter	2 in	Total System Volume	1.087562 L
Well Total Depth	134.3 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	0 in
Depth to Water	57.70 ft	Total Volume Pumped	3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	14:56:09	480.03	20.77	8.05	234.82	0.38	57.70	5.54	49.54
Last 5	15:00:09	720.03	20.65	8.03	235.33	0.17	57.70	5.78	51.75
Last 5	15:04:09	960.02	20.28	8.03	235.59	0.18	57.70	5.93	53.33
Last 5	15:08:09	1200.02	20.13	8.03	235.84	0.33	57.70	6.01	54.80
Last 5	15:12:09	1440.01	20.08	8.02	236.19	0.36	57.70	6.06	55.71
Variance 0			-0.37	-0.00	0.25			0.15	1.58
Variance 1			-0.15	-0.00	0.25			0.08	1.47
Variance 2			-0.05	-0.00	0.35			0.05	0.91

Notes

Pre-purged 1L

Grab Samples

GWC-49R

Metals

GWC-49R

Inorganics

Product Name: Low-Flow System

Date: 2018-09-14 10:09:49

Project Information:		Pump Information:	
Operator Name	Veronica Fay	Pump Model/Type	QED Dedicated
Company Name	Resolute	Tubing Type	LDPE
Project Name	Cells 9&10	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	95 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	463068		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	89.55 ft

Well Information:		Pumping Information:	
Well ID	GWC-49Z	Final Pumping Rate	150 mL/min
Well diameter	2 in	Total System Volume	0.9090251 L
Well Total Depth	94.55 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	11.76 in
Depth to Water	56.87 ft	Total Volume Pumped	4.2 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	09:50:30	720.06	19.76	5.38	30.19	1.97	57.80	7.23	78.13
Last 5	09:54:30	960.05	19.76	5.38	29.24	3.22	57.82	7.12	75.47
Last 5	09:58:30	1200.01	19.77	5.37	28.83	3.35	57.83	7.11	74.88
Last 5	10:02:30	1440.01	19.95	5.37	28.62	3.35	57.84	6.99	74.38
Last 5	10:06:30	1680.00	19.99	5.38	28.23	3.09	57.85	6.97	74.18
Variance 0			0.01	-0.01	-0.41			-0.01	-0.59
Variance 1			0.18	0.00	-0.21			-0.12	-0.50
Variance 2			0.04	0.00	-0.39			-0.02	-0.20

Notes

Prepurged 2L

Well performed well

Grab Samples

GWC-49Z

Metals

GWC-49Z

Inorganics

Product Name: Low-Flow System

Date: 2018-09-17 16:02:14

Project Information:		Pump Information:	
Operator Name	Veronica Fay	Pump Model/Type	QED Dedicated
Company Name	Resolute	Tubing Type	LDPE
Project Name	Cells 1&2	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	97 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	463068		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	91.7 ft

Well Information:		Pumping Information:	
Well ID	GWA-50	Final Pumping Rate	120 mL/min
Well diameter	2 in	Total System Volume	0.917952 L
Well Total Depth	96.7 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	155.64 in
Depth to Water	65.92 ft	Total Volume Pumped	16.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	15:39:22	7922.86	19.24	5.82	25.76	0.44	78.27	5.40	74.18
Last 5	15:43:22	8162.86	19.16	5.83	25.79	0.36	78.45	5.33	74.51
Last 5	15:47:22	8402.85	18.98	5.83	25.78	0.42	78.60	5.29	75.11
Last 5	15:51:22	8642.85	18.88	5.83	26.18	0.44	78.78	5.58	75.98
Last 5	15:55:22	8882.83	18.70	5.82	26.17	0.45	78.89	5.56	77.02
Variance 0			-0.18	-0.00	-0.00			-0.04	0.60
Variance 1			-0.10	0.00	0.39			0.29	0.87
Variance 2			-0.18	-0.01	-0.00			-0.03	1.04

Notes

Prepurged 1.5 L

Well took a while for drawdown to stabilize

Grab Samples

GWA-50

Metals

GWA-50

Inorganics

Product Name: Low-Flow System

Date: 2018-09-18 10:47:34

Project Information:		Pump Information:	
Operator Name	Veronica Fay	Pump Model/Type	QED Dedicated
Company Name	Resolute	Tubing Type	LDPE
Project Name	Cells 1&2	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	146 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	463068		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	140.5 ft

Well Information:		Pumping Information:	
Well ID	GWA-50R	Final Pumping Rate	140 mL/min
Well diameter	2 in	Total System Volume	1.13666 L
Well Total Depth	145.5 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	0.6 in
Depth to Water	77.35 ft	Total Volume Pumped	5.04 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	10:28:30	1200.02	18.07	5.29	16.59	0.20	77.40	9.06	64.64
Last 5	10:32:30	1440.02	18.10	5.30	16.74	0.22	77.40	9.01	64.90
Last 5	10:36:30	1680.01	18.24	5.31	16.90	0.32	77.40	8.96	64.95
Last 5	10:40:30	1920.01	18.27	5.31	16.92	0.33	77.40	8.92	66.02
Last 5	10:44:30	2160.01	18.34	5.35	17.22	0.20	77.40	8.92	65.85
Variance 0			0.14	0.01	0.16			-0.04	0.04
Variance 1			0.04	0.00	0.02			-0.05	1.07
Variance 2			0.07	0.03	0.30			0.00	-0.17

Notes

Prepurged 1 L

Well performed very well.

Grab Samples

GWA-50R

Metals

GWA-50R

Inorganics

Product Name: Low-Flow System

Date: 2018-09-06 15:58:12

Project Information:		Pump Information:	
Operator Name	Veronica Fay	Pump Model/Type	QED Dedicated
Company Name	Resolute	Tubing Type	LDPE
Project Name	Cells 3&4	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	96 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	463068		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	90.7 ft

Well Information:		Pumping Information:	
Well ID	GWA-51RZ	Final Pumping Rate	120 mL/min
Well diameter	2 in	Total System Volume	0.9134886 L
Well Total Depth	95.70 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	386.88 in
Depth to Water	57.76 ft	Total Volume Pumped	22 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	15:36:47	10081.92	21.50	7.36	395.53	0.35	81.36	2.22	-17.39
Last 5	15:40:47	10321.91	21.55	7.36	394.29	0.29	81.99	2.22	-16.89
Last 5	15:44:47	10561.91	21.59	7.36	393.29	0.28	82.60	2.22	-16.26
Last 5	15:48:47	10801.91	21.46	7.36	391.12	0.23	83.15	2.23	-15.52
Last 5	15:52:47	11041.90	21.26	7.36	393.14	0.32	83.72	2.25	-14.97
Variance 0			0.05	0.00	-1.00			-0.00	0.63
Variance 1			-0.13	0.00	-2.17			0.01	0.75
Variance 2			-0.20	0.00	2.02			0.02	0.55

Notes

Prepurged 2L

Could not get Drawdown to stabilize. Performing complete evacuation. Sampled to be taken 9/7/18

Grab Samples

Product Name: Low-Flow System

Date: 2018-09-06 14:25:44

Project Information:		Pump Information:	
Operator Name	Audrey Crafton	Pump Model/Type	QED Dedicated
Company Name	Resolute	Tubing Type	LDPE
Project Name	Cells 3&4	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	84 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	440279		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	78.96 ft

Well Information:		Pumping Information:	
Well ID	GWA-52	Final Pumping Rate	130 mL/min
Well diameter	2 in	Total System Volume	0.8599275 L
Well Total Depth	83.96 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	0 in
Depth to Water	58.40 ft	Total Volume Pumped	4.16 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	14:07:24	960.02	22.48	7.35	254.93	0.15	58.39	6.94	50.25
Last 5	14:11:24	1200.01	22.40	7.41	256.16	0.51	58.40	6.93	50.93
Last 5	14:15:24	1440.00	22.76	7.45	254.63	0.14	58.40	6.88	50.95
Last 5	14:19:24	1680.00	22.64	7.48	254.74	0.08	58.40	6.90	51.14
Last 5	14:23:24	1919.99	22.87	7.50	253.97	0.26	58.40	6.94	50.60
Variance 0			0.36	0.04	-1.53			-0.05	0.02
Variance 1			-0.12	0.03	0.11			0.02	0.19
Variance 2			0.24	0.02	-0.78			0.05	-0.54

Notes

Pre-purged 1L

Grab Samples

GWA-52

Metals

GWA-52

Inorganics

Product Name: Low-Flow System

Date: 2018-09-11 11:15:34

Project Information:		Pump Information:	
Operator Name	Kevin Stephenson	Pump Model/Type	QED Dedicated
Company Name	Resolute	Tubing Type	LDPE
Project Name	Cells 3&4	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	120 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	449622		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	115.92 ft

Well Information:		Pumping Information:	
Well ID	GWA-53	Final Pumping Rate	160 mL/min
Well diameter	2 in	Total System Volume	1.020611 L
Well Total Depth	120.92 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	0.24 in
Depth to Water	59.63 ft	Total Volume Pumped	9.6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	10:57:00	2640.00	18.79	7.64	256.38	6.46	59.65	6.88	46.11
Last 5	11:01:00	2880.00	18.84	7.66	256.39	5.62	59.66	6.93	45.97
Last 5	11:05:00	3119.99	18.91	7.63	255.94	4.24	59.65	6.89	46.42
Last 5	11:09:00	3359.99	18.88	7.64	255.57	4.49	59.65	6.90	46.11
Last 5	11:13:00	3599.99	18.84	7.64	255.07	4.34	59.65	6.87	46.51
Variance 0			0.07	-0.03	-0.45			-0.04	0.45
Variance 1			-0.03	0.01	-0.38			0.01	-0.31
Variance 2			-0.04	-0.00	-0.50			-0.03	0.41

Notes

Pre-purged 5 liters.

Grab Samples

GWA-53
Metals

GWA-53
Inorganics

Dup-3
Metals

Dup-3
Inorganics

Product Name: Low-Flow System

Date: 2018-09-11 15:44:26

Project Information:		Pump Information:	
Operator Name	Veronica Fay	Pump Model/Type	QED Dedicated
Company Name	Resolute	Tubing Type	LDPE
Project Name	Cells 3&4	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	169 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	463068		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	163.6 ft

Well Information:		Pumping Information:	
Well ID	GWC-53R	Final Pumping Rate	160 mL/min
Well diameter	2 in	Total System Volume	1.239319 L
Well Total Depth	168.6 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	0.36 in
Depth to Water	60.25 ft	Total Volume Pumped	5.76 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	15:24:52	1200.01	19.35	7.76	255.26	5.38	60.26	6.56	35.96
Last 5	15:28:52	1440.02	19.27	7.76	253.76	4.40	60.27	6.53	35.90
Last 5	15:32:52	1680.02	19.40	7.75	253.03	4.46	60.27	6.51	35.73
Last 5	15:36:52	1920.01	19.32	7.75	251.39	4.36	60.27	6.47	35.79
Last 5	15:40:52	2160.00	19.36	7.76	251.17	3.85	60.28	6.49	35.93
Variance 0			0.12	-0.01	-0.73			-0.02	-0.17
Variance 1			-0.08	-0.00	-1.65			-0.04	0.06
Variance 2			0.04	0.00	-0.22			0.02	0.14

Notes

Prepurged 3L

Grab Samples

GWC-53R

Metals

GWC-53R

Inorganics

Product Name: Low-Flow System

Date: 2018-09-06 15:29:05

Project Information:		Pump Information:	
Operator Name	Kevin Stephenson	Pump Model/Type	QED Dedicated
Company Name	Resolute	Tubing Type	LDPE
Project Name	Cells 3&4	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	76 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	449622		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	71.11 ft

Well Information:		Pumping Information:	
Well ID	GWA-54	Final Pumping Rate	110 mL/min
Well diameter	2 in	Total System Volume	0.8242202 L
Well Total Depth	76.11 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	0.24 in
Depth to Water	52.52 ft	Total Volume Pumped	2.64 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	15:08:28	480.03	21.46	7.60	208.63	0.15	52.54	2.54	26.11
Last 5	15:12:28	720.03	21.41	7.63	209.91	0.29	52.54	2.28	24.40
Last 5	15:16:28	960.03	21.38	7.64	210.15	0.19	52.55	2.18	23.77
Last 5	15:20:29	1201.03	21.28	7.64	210.83	0.17	52.54	2.32	23.13
Last 5	15:24:29	1441.02	21.62	7.66	211.41	0.16	52.54	2.41	22.74
Variance 0			-0.03	0.01	0.24			-0.10	-0.63
Variance 1			-0.10	0.01	0.68			0.14	-0.64
Variance 2			0.34	0.01	0.58			0.09	-0.39

Notes

Pre-purged 2 liters.

Grab Samples

GWA-54

Metals

GWA-54

Inorganics

Product Name: Low-Flow System

Date: 2018-09-06 15:29:05

Project Information:		Pump Information:	
Operator Name	Kevin Stephenson	Pump Model/Type	QED Dedicated
Company Name	Resolute	Tubing Type	LDPE
Project Name	Cells 3&4	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	76 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	449622		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	71.11 ft

Well Information:		Pumping Information:	
Well ID	GWA-54	Final Pumping Rate	110 mL/min
Well diameter	2 in	Total System Volume	0.8242202 L
Well Total Depth	76.11 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	0.24 in
Depth to Water	52.52 ft	Total Volume Pumped	2.64 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	15:08:28	480.03	21.46	7.60	208.63	0.15	52.54	2.54	26.11
Last 5	15:12:28	720.03	21.41	7.63	209.91	0.29	52.54	2.28	24.40
Last 5	15:16:28	960.03	21.38	7.64	210.15	0.19	52.55	2.18	23.77
Last 5	15:20:29	1201.03	21.28	7.64	210.83	0.17	52.54	2.32	23.13
Last 5	15:24:29	1441.02	21.62	7.66	211.41	0.16	52.54	2.41	22.74
Variance 0			-0.03	0.01	0.24			-0.10	-0.63
Variance 1			-0.10	0.01	0.68			0.14	-0.64
Variance 2			0.34	0.01	0.58			0.09	-0.39

Notes

Pre-purged 2 liters.

Grab Samples

GWA-54

Metals

GWA-54

Inorganics

Product Name: Low-Flow System

Date: 2018-09-06 15:29:05

Project Information:		Pump Information:	
Operator Name	Kevin Stephenson	Pump Model/Type	QED Dedicated
Company Name	Resolute	Tubing Type	LDPE
Project Name	Cells 3&4	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	76 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	449622		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	71.11 ft

Well Information:		Pumping Information:	
Well ID	GWA-54	Final Pumping Rate	110 mL/min
Well diameter	2 in	Total System Volume	0.8242202 L
Well Total Depth	76.11 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	0.24 in
Depth to Water	52.52 ft	Total Volume Pumped	2.64 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	15:08:28	480.03	21.46	7.60	208.63	0.15	52.54	2.54	26.11
Last 5	15:12:28	720.03	21.41	7.63	209.91	0.29	52.54	2.28	24.40
Last 5	15:16:28	960.03	21.38	7.64	210.15	0.19	52.55	2.18	23.77
Last 5	15:20:29	1201.03	21.28	7.64	210.83	0.17	52.54	2.32	23.13
Last 5	15:24:29	1441.02	21.62	7.66	211.41	0.16	52.54	2.41	22.74
Variance 0			-0.03	0.01	0.24			-0.10	-0.63
Variance 1			-0.10	0.01	0.68			0.14	-0.64
Variance 2			0.34	0.01	0.58			0.09	-0.39

Notes

Pre-purged 2 liters.

Grab Samples

GWA-54

Metals

GWA-54

Inorganics

Product Name: Low-Flow System

Date: 2018-09-07 12:03:55

Project Information:		Pump Information:	
Operator Name	Audrey Crafton	Pump Model/Type	QED Dedicated
Company Name	Resolute	Tubing Type	LDPE
Project Name	Cells 3&4	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	66 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	440279		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	60.24 ft

Well Information:		Pumping Information:	
Well ID	GWA-55	Final Pumping Rate	110 mL/min
Well diameter	2 in	Total System Volume	0.779586 L
Well Total Depth	65.24 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	0.24 in
Depth to Water	44.98 ft	Total Volume Pumped	2.2 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	11:45:35	240.10	23.35	7.54	406.59	0.11	45.00	1.89	45.06
Last 5	11:49:34	480.03	23.25	7.50	406.63	0.09	45.00	2.06	43.81
Last 5	11:53:34	720.02	23.29	7.47	409.14	0.10	45.00	2.08	44.21
Last 5	11:57:34	960.02	23.34	7.46	408.19	0.09	45.01	2.18	44.45
Last 5	12:01:34	1200.01	23.56	7.45	408.90	0.08	45.00	2.25	45.07
Variance 0			0.04	-0.03	2.50			0.02	0.40
Variance 1			0.05	-0.01	-0.95			0.10	0.24
Variance 2			0.22	-0.01	0.71			0.07	0.62

Notes

Pre-purged 2L

Grab Samples

GWA-55

Metals

GWA-55

Inorganics

Product Name: Low-Flow System

Date: 2018-09-07 10:55:44

Project Information:		Pump Information:	
Operator Name	Audrey Crafton	Pump Model/Type	QED Dedicated
Company Name	Resolute	Tubing Type	LDPE
Project Name	Cells 3&4	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	106 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	440279		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	100.65 ft

Well Information:		Pumping Information:	
Well ID	GWA-55R	Final Pumping Rate	130 mL/min
Well diameter	2 in	Total System Volume	0.9581228 L
Well Total Depth	105.65 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	0.36 in
Depth to Water	44.81 ft	Total Volume Pumped	10.4 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	10:37:27	3839.94	23.33	7.60	363.88	0.81	44.85	1.48	37.83
Last 5	10:41:27	4079.94	23.16	7.59	364.90	0.68	44.84	1.57	37.66
Last 5	10:45:27	4319.93	23.01	7.60	364.22	0.74	44.84	1.62	37.30
Last 5	10:49:27	4559.93	23.12	7.60	362.46	0.62	44.84	1.67	37.16
Last 5	10:53:27	4799.92	23.31	7.60	363.89	0.71	44.84	1.74	36.54
Variance 0			-0.15	0.00	-0.67			0.05	-0.36
Variance 1			0.10	0.01	-1.76			0.05	-0.14
Variance 2			0.19	-0.00	1.43			0.07	-0.61

Notes

Pre-purged 2L

Grab Samples

GWA-55R

Metals

GWA-55R

Inorganics

Product Name: Low-Flow System

Date: 2018-09-07 10:44:09

Project Information:		Pump Information:	
Operator Name	Veronica Fay	Pump Model/Type	QED Dedicated
Company Name	Resolute	Tubing Type	LDPE
Project Name	Cells 3&4	Tubing Diameter	.17 in
Site Name	Plant Bowen	Tubing Length	86 ft
Latitude	0° 0' 0"		
Longitude	0° 0' 0"		
Sonde SN	463068		
Turbidity Make/Model	LaMotte 2020we	Pump placement from TOC	80.9 ft

Well Information:		Pumping Information:	
Well ID	GWA-56	Final Pumping Rate	120 mL/min
Well diameter	2 in	Total System Volume	0.8688543 L
Well Total Depth	85.9 ft	Calculated Sample Rate	240 sec
Screen Length	10 ft	Stabilization Drawdown	4.8 in
Depth to Water	40.40 ft	Total Volume Pumped	2.88 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	10:23:15	480.03	21.51	8.15	631.74	0.78	40.80	0.87	87.65
Last 5	10:27:15	720.03	21.39	8.15	631.63	0.76	40.80	0.92	86.51
Last 5	10:31:15	960.03	21.39	8.16	628.79	1.05	40.80	0.88	85.27
Last 5	10:35:15	1200.02	21.40	8.15	623.88	0.98	40.80	0.96	84.55
Last 5	10:39:15	1440.02	21.37	8.14	618.58	0.96	40.80	0.97	84.05
Variance 0			0.01	0.00	-2.84			-0.04	-1.25
Variance 1			0.01	-0.01	-4.91			0.08	-0.72
Variance 2			-0.03	-0.01	-5.30			0.02	-0.49

Notes

Prepurged 2L

Grab Samples

GWA-56

Metals

GWA-56

Inorganics

APPENDIX B

STATISTICAL ANALYSES

Table B-1: Summary of March and September 2018 Statistical Exceedances

Cells 1 & 2 Overburden and Bedrock						
Statistical Method	**Parameter**	**Hydraulic Location**	**Well**	**Initial Result**	**Prediction Limit**	**Response**
Interwell March	Barium	Downgradient	GWC-13RZ	0.086 mg/L	0.070 mg/L	Previously Addressed in April 2018 Alternate Source Demonstration
Interwell September	Barium	Downgradient	GWC-13RZ	0.093 mg/L	0.064 mg/L	Previously Addressed in April 2018 Alternate Source Demonstration
Interwell March	Chloride	Downgradient	GWC-13	4.6 mg/L	2.8 mg/L	Previously Addressed in April 2018 Alternate Source Demonstration
Interwell September	Chloride	Downgradient	GWC-13	5.1 mg/L	2.5 mg/L	Previously Addressed in April 2018 Alternate Source Demonstration
Interwell March	**Chloride**	**Downgradient**	**GWC-14Z**	**3.4 mg/L**	**2.8 mg/L**	**Chloride in downgradient wells addressed in April 2018 Alternate Source Demonstration for Chloride in GWC-13 and GWC-13RZ**
Interwell September	**Chloride**	**Downgradient**	**GWC-14Z**	**2.8 mg/L**	**2.5 mg/L**	**Chloride in downgradient wells addressed in April 2018 Alternate Source Demonstration for Chloride in GWC-13 and GWC-13RZ**
Interwell March	Chloride	Downgradient	GWC-13RZ	8.3 mg/L	2.8 mg/L	Previously Addressed in April 2018 Alternate Source Demonstration
Interwell September	Chloride	Downgradient	GWC-13RZ	9.6 mg/L	2.5 mg/L	Previously Addressed in April 2018 Alternate Source Demonstration
Interwell September	**pH**	**Downgradient**	**GWC-10R**	**7.7 su**	**7.6-5.2 su**	**pH in downgradient wells addressed in April 2018 Alternate Source Demonstration for pH in GWC-8RR, GWC-11R, and GWC-15Z**
Interwell March	pH	Downgradient	GWC-11R	7.7 su	7.6-5.2 su	Previously Addressed in April 2018 Alternate Source Demonstration
Interwell September	pH	Downgradient	GWC-11R	7.9 su	7.6-5.2 su	Previously Addressed in April 2018 Alternate Source Demonstration
Interwell September	**pH**	**Downgradient**	**GWC-15R**	**7.7 su**	**7.6-5.2 su**	**pH in downgradient wells addressed in April 2018 Alternate Source Demonstration for pH in GWC-8RR, GWC-11R, and GWC-15Z**

Table B-1: Summary of March and September 2018 Statistical Exceedances

Cells 1 & 2 Overburden and Bedrock						
Statistical Method	**Parameter**	**Hydraulic Location**	**Well**	**Initial Result**	**Prediction Limit**	**Response**
Interwell March	pH	Downgradient	GWC-15Z	7.9 su	7.6-5.2 su	Previously Addressed in April 2018 Alternate Source Demonstration
Interwell September	pH	Downgradient	GWC-15Z	7.8 su	7.6-5.2 su	Previously Addressed in April 2018 Alternate Source Demonstration
Interwell March	pH	Downgradient	GWC-8RR	7.9 su	7.6-5.2 su	Previously Addressed in April 2018 Alternate Source Demonstration
Interwell September	pH	Downgradient	GWC-8RR	7.9 su	7.6-5.2 su	Previously Addressed in April 2018 Alternate Source Demonstration
Interwell March	**pH**	**Downgradient**	**GWC-9**	**4.9 su**	**7.6-5.2 su**	**pH in downgradient wells addressed in April 2018 Alternate Source Demonstration for pH in GWC-8RR, GWC-11R, and GWC-15Z**
Interwell September	**pH**	**Downgradient**	**GWC-9**	**5.4 su**	**7.6-5.2 su**	**September 2018 result confirms no exceedance**
Intrawell March	Calcium	Upgradient	GWA-2	63.0 mg/L	53.8 mg/L	Upgradient well not indicative of a release, continue detection monitoring
Intrawell September	Calcium	Upgradient	GWA-2	2.4 mg/L	61 mg/L	September 2018 result confirms no exceedance
Intrawell March	Sulfate	Upgradient	GWA-2	147 mg/L	115.6 mg/L	Upgradient well not indicative of a release, continue detection monitoring
Intrawell September	Sulfate	Upgradient	GWA-2	7.7 mg/L	130 mg/L	September 2018 result confirms no exceedance
Intrawell March	TDS	Upgradient	GWA-2	295 mg/L	278.1 mg/L	Upgradient well not indicative of a release, continue detection monitoring
Intrawell September	TDS	Upgradient	GWA-2	30.0 mg/L	310 mg/L	September 2018 result confirms no exceedance

Table B-1: Summary of March and September 2018 Statistical Exceedances

Cells 3 & 4 Overburden and Bedrock						
Statistical Method	**Parameter**	**Hydraulic Location**	**Well**	**Initial Result**	**Prediction Limit**	**Response**
Interwell March	Antimony	Downgradient	GWC-16R	0.015 mg/L	0.0052 mg/L	Previously Addressed in August 2017 Alternate Source Demonstration
Interwell September	Antimony	Downgradient	GWC-16R	0.0026 J mg/L	0.0052 mg/L	September 2018 shows no exceedance
Interwell March	Antimony	Downgradient	GWC-21R	0.0063 mg/L	0.0052 mg/L	Previously Addressed in August 2017 Alternate Source Demonstration
Interwell September	Antimony	Downgradient	GWC-21R	0.0033 mg/L	0.0052 mg/L	September 2018 shows no exceedance
Interwell March	Calcium	Downgradient	GWC-16R	60.6 mg/L	48.7 mg/L	Previously Addressed in April 2018 Alternate Source Demonstration
Interwell September	Calcium	Downgradient	GWC-16R	62.4 mg/L	49 mg/L	Previously Addressed in April 2018 Alternate Source Demonstration
Interwell March	Calcium	Downgradient	GWC-17R	65.6 mg/L	48.7 mg/L	Previously Addressed in April 2018 Alternate Source Demonstration
Interwell September	Calcium	Downgradient	GWC-17R	63.2 mg/L	49 mg/L	Previously Addressed in April 2018 Alternate Source Demonstration
Interwell March	Calcium	Downgradient	GWC-21R	65.6 mg/L	48.7 mg/L	Previously Addressed in April 2018 Alternate Source Demonstration
Interwell September	Calcium	Downgradient	GWC-21R	61.7 mg/L	49 mg/L	Previously Addressed in April 2018 Alternate Source Demonstration
Interwell March	Calcium	Downgradient	GWC-23R	59.9 mg/L	48.7 mg/L	Previously Addressed in April 2018 Alternate Source Demonstration
Interwell September	Calcium	Downgradient	GWC-23R	60.2 mg/L	49 mg/L	Previously Addressed in April 2018 Alternate Source Demonstration
Intrawell September	**pH**	**Downgradient**	**GWC-23R**	**7.8 su**	**7.7-7.0 su**	**pH in downgradient well addressed in April 2018 Alternate Source Demonstration for pH in GWC-22R**
Intrawell March	pH	Upgradient	GWA-36	6.6 su	7.3-6.7 su	Upgradient well not indicative of a release, continue detection monitoring
Intrawell September	pH	Upgradient	GWA-36	6.8 su	7.4-6.7su	September 2018 result confirms no exceedance
Intrawell March	pH	Upgradient	GWA-52	7.3 su	7.7-7.4 su	Upgradient well not indicative of a release, continue detection monitoring

Table B-1: Summary of March and September 2018 Statistical Exceedances

Cells 3 & 4 Overburden and Bedrock						
Statistical Method	**Parameter**	**Hydraulic Location**	**Well**	**Initial Result**	**Prediction Limit**	**Response**
Intrawell September	pH	Upgradient	GWA-52	7.5 su	7.7-7.4 su	September 2018 result confirms no exceedance
Intrawell March	pH	Upgradient	GWA-54	7.4 su	7.9-7.4 su	Upgradient well not indicative of a release, continue detection monitoring
Intrawell September	pH	Upgradient	GWA-54	7.7 su	7.9-7.3 su	September 2018 result confirms no exceedance
Intrawell March	pH	Upgradient	GWA-55R	7.1 su	7.9-7.5 su	Upgradient well not indicative of a release, continue detection monitoring
Intrawell September	pH	Upgradient	GWA-55R	7.6 su	8.0-7.4 su	September 2018 result confirms no exceedance
Intrawell March	**pH**	**Downgradient**	**GWC-18R**	**7.5 su**	**8.0-7.6 su**	**pH in downgradient well addressed in April 2018 Alternate Source Demonstration for pH in GWC-22R**
Intrawell September	**pH**	**Downgradient**	**GWC-18R**	**7.7 su**	**8.0-7.5 su**	**September 2018 result confirms no exceedance**
Intrawell March	Chloride	Upgradient	GWA-55	3.6 mg/L	3.3 mg/L	Upgradient well not indicative of a release, continue detection monitoring. Chloride in upgradient well addressed in April 2018 Alternate Source Demonstration for Chloride in GWA-40
Intrawell September	Chloride	Upgradient	GWA-55	3.8 mg/L	3.4 mg/L	Upgradient well not indicative of a release, continue detection monitoring. Chloride in upgradient well addressed in April 2018 Alternate Source Demonstration for Chloride in GWA-40
Intrawell March	Chloride	Upgradient	GWA-52	3.0 mg/L	2.8 mg/L	Upgradient well not indicative of a release, continue detection monitoring
Intrawell September	Chloride	Upgradient	GWA-52	1.9 mg/L	3.0 mg/L	September 2018 result confirms no exceedance

Table B-1: Summary of March and September 2018 Statistical Exceedances

Cells 3 & 4 Overburden and Bedrock						
Statistical Method	**Parameter**	**Hydraulic Location**	**Well**	**Initial Result**	**Prediction Limit**	**Response**
Intrawell March	Sulfate	Upgradient	GWA-51RZ	27.3 mg/L	24.1 mg/L	Upgradient well not indicative of a release, continue detection monitoring. Sulfate in upgradient wells addressed in April 2018 Alternate Source Demonstration for Sulfate in GWA-4RZ and GWA-40
Intrawell September	Sulfate	Upgradient	GWA-51RZ	26.9 mg/L	25 mg/L	Upgradient well not indicative of a release, continue detection monitoring. Sulfate in upgradient wells addressed in April 2018 Alternate Source Demonstration for Sulfate in GWA-4RZ and GWA-40
Intrawell March	Sulfate	Upgradient	GWA-36R	8.2 mg/L	6.1 mg/L	Upgradient well not indicative of a release, continue detection monitoring
Intrawell September	Sulfate	Upgradient	GWA-36R	1.5 mg/L	7.2 mg/L	September 2018 result confirms no exceedance
Intrawell March	Sulfate	Upgradient	GWA-52	8.5 mg/L	8.0 mg/L	Upgradient well not indicative of a release, continue detection monitoring
Intrawell September	Sulfate	Upgradient	GWA-52	7.2 mg/L	8.8 mg/L	September 2018 result confirms no exceedance
Intrawell March	TDS	Upgradient	GWA-55	212 mg/L	209.1 mg/L	Upgradient well not indicative of a release, continue detection monitoring. TDS in upgradient well addressed in April 2018 Alternate Source Demonstration for TDS in GWA-53 and GWA-39Z
Intrawell September	TDS	Upgradient	GWA-55	240 mg/L	220 mg/L	Upgradient well not indicative of a release, continue detection monitoring. TDS in upgradient well addressed in April 2018 Alternate Source Demonstration for TDS in GWA-53 and GWA-39Z

Table B-1: Summary of March and September 2018 Statistical Exceedances

Cells 9 & 10 Overburden and Bedrock						
Statistical Method	**Parameter**	**Hydraulic Location**	**Well**	**Initial Result**	**Prediction Limit**	**Response**
Interwell September	Zinc	Downgradient	GWC-47	0.031 su	0.016 mg/L	Previously Addressed in April 2018 Alternate Source Demonstration
Interwell March	pH	Downgradient	GWC-44	4.3 su	7.9-5.8 su	Previously Addressed in April 2018 Alternate Source Demonstration
Interwell September	pH	Downgradient	GWC-44	4.5 su	7.9-5.6 su	Previously Addressed in April 2018 Alternate Source Demonstration
Interwell March	pH	Downgradient	GWC-45	4.6 su	7.9-5.8 su	Previously Addressed in April 2018 Alternate Source Demonstration
Interwell September	pH	Downgradient	GWC-45	5.3 su	7.9-5.6 su	Previously Addressed in April 2018 Alternate Source Demonstration
Interwell March	pH	Downgradient	GWC-48	5.1 su	7.9-5.8 su	Previously Addressed in April 2018 Alternate Source Demonstration
Interwell September	pH	Downgradient	GWC-48	5.0 su	7.9-5.6 su	Previously Addressed in April 2018 Alternate Source Demonstration
Interwell September	**pH**	**Downgradient**	**GWC-49R**	**8.0 su**	**7.9-5.6 su**	**pH in downgradient wells addressed in April 2018 Alternate Source Demonstration for pH in GWC-44, GWC-45, GWC-48, and GWC-49Z**
Interwell March	pH	Downgradient	GWC-49Z	5.1 su	7.9-5.8 su	Previously .Addressed in April 2018 Alternate Source Demonstration
Interwell September	pH	Downgradient	GWC-49Z	5.4 su	7.9-5.6 su	Previously .Addressed in April 2018 Alternate Source Demonstration
Intrawell March	Calcium	Upgradient	GWA-39Z	26.4 mg/L	25.4 mg/L	Upgradient well not indicative of a release, continue detection monitoring.
Intrawell September	Calcium	Upgradient	GWA-39Z	25.1 mg/L	24 mg/L	Upgradient well not indicative of a release, continue detection monitoring.
Intrawell March	Calcium	Upgradient	GWA-41	39.6 mg/L	28.9 mg/L	Upgradient well not indicative of a release, continue detection monitoring
Intrawell September	Calcium	Upgradient	GWA-41	14.2 J mg/L	32.0 mg/L	September 2018 result confirms no exceedance

Table B-1: Summary of March and September 2018 Statistical Exceedances

Cells 9 & 10 Overburden and Bedrock						
Statistical Method	**Parameter**	**Hydraulic Location**	**Well**	**Initial Result**	**Prediction Limit**	**Response**
Intrawell March	**Sulfate**	**Downgradient**	**GWC-47R**	**13.4 mg/L**	**9.9 mg/L**	**Sulfate in downgradient well addressed in April 2018 Alternate Source Demonstration for Sulfate in GWC-49R**
Intrawell September	**Sulfate**	**Downgradient**	**GWC-47R**	**11.6 mg/L**	**11 mg/L**	**Sulfate in downgradient well addressed in April 2018 Alternate Source Demonstration for Sulfate in GWC-49R**
Intrawell March	Sulfate	Upgradient	GWA-41	11.5 mg/L	4.7 mg/L	Upgradient well not indicative of a release, continue detection monitoring
Intrawell September	Sulfate	Upgradient	GWA-41	1.8 mg/L	5.4 mg/L	September 2018 result confirms no exceedance
Intrawell March	TDS	Upgradient	GWA-39Z	126 mg/L	117.1 mg/L	Previously Addressed in April 2018 Alternate Source Demonstration
Intrawell September	TDS	Upgradient	GWA-39Z	134 mg/L	110 mg/L	Previously Addressed in April 2018 Alternate Source Demonstration
Intrawell March	TDS	Upgradient	GWA-41	192 mg/L	138 mg/L	Upgradient well not indicative of a release, continue detection monitoring
Intrawell September	TDS	Upgradient	GWA-41	82.0 mg/L	150 mg/L	September 2018 result confirms no exceedance

su – standard units
mg/L – milligrams per liter
TDS – Total Dissolved Solids
Bolded indicates 2018 data in downgradient wells with concentrations above prediction limits not specifically identified in an ASD, but are the same parameters and hydraulic locations as those statistical exceedances addressed in an ASD. The analysis and explanations provided in the ASDs would also apply to these wells.

Interwell Prediction Limit

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR Printed 6/25/2018, 1:46 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Barium (mg/L)	**GWC-13R_13RZ**	**0.06966**	**n/a**	**3/23/2018**	**0.086**	**Yes**	**179**	**1.117**	**ln(x)**	**0.01**	Param

Interwell Prediction Limit

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR Printed 6/25/2018, 1:46 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Antimony (mg/L)	GWC-10	0.021	n/a	3/20/2018	0.0015ND	No	184	75.54	n/a	0.005185	NP (NDs)
Antimony (mg/L)	GWC-10R	0.021	n/a	3/21/2018	0.0015ND	No	184	75.54	n/a	0.005185	NP (NDs)
Antimony (mg/L)	GWC-11	0.021	n/a	3/21/2018	0.0015ND	No	184	75.54	n/a	0.005185	NP (NDs)
Antimony (mg/L)	GWC-11R	0.021	n/a	3/22/2018	0.0015ND	No	184	75.54	n/a	0.005185	NP (NDs)
Antimony (mg/L)	GWC-12	0.021	n/a	3/22/2018	0.0015ND	No	184	75.54	n/a	0.005185	NP (NDs)
Antimony (mg/L)	GWC-13	0.021	n/a	3/21/2018	0.0015ND	No	184	75.54	n/a	0.005185	NP (NDs)
Antimony (mg/L)	GWC-14_14Z	0.021	n/a	3/22/2018	0.0015ND	No	184	75.54	n/a	0.005185	NP (NDs)
Antimony (mg/L)	GWC-15R	0.021	n/a	3/23/2018	0.001	No	184	75.54	n/a	0.005185	NP (NDs)
Antimony (mg/L)	GWC-15_15Z	0.021	n/a	3/23/2018	0.00089	No	184	75.54	n/a	0.005185	NP (NDs)
Antimony (mg/L)	GWC-5	0.021	n/a	3/19/2018	0.0015ND	No	184	75.54	n/a	0.005185	NP (NDs)
Antimony (mg/L)	GWC-6	0.021	n/a	3/19/2018	0.0015ND	No	184	75.54	n/a	0.005185	NP (NDs)
Antimony (mg/L)	GWC-6RZ	0.021	n/a	3/20/2018	0.0015ND	No	184	75.54	n/a	0.005185	NP (NDs)
Antimony (mg/L)	GWC-7Z	0.021	n/a	3/20/2018	0.0015ND	No	184	75.54	n/a	0.005185	NP (NDs)
Antimony (mg/L)	GWC-8RR	0.021	n/a	3/21/2018	0.0015ND	No	184	75.54	n/a	0.005185	NP (NDs)
Antimony (mg/L)	GWC-8Z	0.021	n/a	3/20/2018	0.0015ND	No	184	75.54	n/a	0.005185	NP (NDs)
Antimony (mg/L)	GWC-9	0.021	n/a	3/20/2018	0.001	No	184	75.54	n/a	0.005185	NP (NDs)
Antimony (mg/L)	GWC-13R_13RZ	0.021	n/a	3/23/2018	0.0015	No	184	75.54	n/a	0.005185	NP (NDs)
Arsenic (mg/L)	GWC-10	0.01217	n/a	3/20/2018	0.0008993	No	184	89.67	n/a	0.005185	NP (NDs) Deseas
Arsenic (mg/L)	GWC-10R	0.01217	n/a	3/21/2018	0.00260...	No	184	89.67	n/a	0.005185	NP (NDs) Deseas
Arsenic (mg/L)	GWC-11	0.01217	n/a	3/21/2018	0.0006893	No	184	89.67	n/a	0.005185	NP (NDs) Deseas
Arsenic (mg/L)	GWC-11R	0.01217	n/a	3/22/2018	0.002309	No	184	89.67	n/a	0.005185	NP (NDs) Deseas
Arsenic (mg/L)	GWC-12	0.01217	n/a	3/22/2018	0.005609	No	184	89.67	n/a	0.005185	NP (NDs) Deseas
Arsenic (mg/L)	GWC-13	0.01217	n/a	3/21/2018	0.001409	No	184	89.67	n/a	0.005185	NP (NDs) Deseas
Arsenic (mg/L)	GWC-14_14Z	0.01217	n/a	3/22/2018	0.001069	No	184	89.67	n/a	0.005185	NP (NDs) Deseas
Arsenic (mg/L)	GWC-15R	0.01217	n/a	3/23/2018	0.00260...	No	184	89.67	n/a	0.005185	NP (NDs) Deseas
Arsenic (mg/L)	GWC-15_15Z	0.01217	n/a	3/23/2018	0.00260...	No	184	89.67	n/a	0.005185	NP (NDs) Deseas
Arsenic (mg/L)	GWC-5	0.01217	n/a	3/19/2018	0.00260...	No	184	89.67	n/a	0.005185	NP (NDs) Deseas
Arsenic (mg/L)	GWC-6	0.01217	n/a	3/19/2018	0.0009993	No	184	89.67	n/a	0.005185	NP (NDs) Deseas
Arsenic (mg/L)	GWC-6RZ	0.01217	n/a	3/20/2018	0.00260...	No	184	89.67	n/a	0.005185	NP (NDs) Deseas
Arsenic (mg/L)	GWC-7Z	0.01217	n/a	3/20/2018	0.002509	No	184	89.67	n/a	0.005185	NP (NDs) Deseas
Arsenic (mg/L)	GWC-8RR	0.01217	n/a	3/21/2018	0.0008793	No	184	89.67	n/a	0.005185	NP (NDs) Deseas
Arsenic (mg/L)	GWC-8Z	0.01217	n/a	3/20/2018	0.0007093	No	184	89.67	n/a	0.005185	NP (NDs) Deseas
Arsenic (mg/L)	GWC-9	0.01217	n/a	3/20/2018	0.00260...	No	184	89.67	n/a	0.005185	NP (NDs) Deseas
Arsenic (mg/L)	GWC-13R_13RZ	0.01217	n/a	3/23/2018	0.00260...	No	184	89.67	n/a	0.005185	NP (NDs) Deseas
Barium (mg/L)	GWC-10	0.06966	n/a	3/20/2018	0.021	No	179	1.117	ln(x)	0.01	Param
Barium (mg/L)	GWC-10R	0.06966	n/a	3/21/2018	0.022	No	179	1.117	ln(x)	0.01	Param
Barium (mg/L)	GWC-11	0.06966	n/a	3/21/2018	0.012	No	179	1.117	ln(x)	0.01	Param
Barium (mg/L)	GWC-11R	0.06966	n/a	3/22/2018	0.017	No	179	1.117	ln(x)	0.01	Param
Barium (mg/L)	GWC-12	0.06966	n/a	3/22/2018	0.024	No	179	1.117	ln(x)	0.01	Param
Barium (mg/L)	GWC-13	0.06966	n/a	3/21/2018	0.032	No	179	1.117	ln(x)	0.01	Param
Barium (mg/L)	GWC-14_14Z	0.06966	n/a	3/22/2018	0.011	No	179	1.117	ln(x)	0.01	Param
Barium (mg/L)	GWC-15R	0.06966	n/a	3/23/2018	0.021	No	179	1.117	ln(x)	0.01	Param
Barium (mg/L)	GWC-15_15Z	0.06966	n/a	3/23/2018	0.013	No	179	1.117	ln(x)	0.01	Param
Barium (mg/L)	GWC-5	0.06966	n/a	3/19/2018	0.013	No	179	1.117	ln(x)	0.01	Param
Barium (mg/L)	GWC-6	0.06966	n/a	3/19/2018	0.0079	No	179	1.117	ln(x)	0.01	Param
Barium (mg/L)	GWC-6RZ	0.06966	n/a	3/20/2018	0.0088	No	179	1.117	ln(x)	0.01	Param
Barium (mg/L)	GWC-7Z	0.06966	n/a	3/20/2018	0.024	No	179	1.117	ln(x)	0.01	Param
Barium (mg/L)	GWC-8RR	0.06966	n/a	3/21/2018	0.015	No	179	1.117	ln(x)	0.01	Param
Beryllium (mg/L)	GWC-8RR	0.01169	n/a	3/21/2018	0.01158...	No	88	97.73	n/a	0.01034	NP (NDs) Deseas
Beryllium (mg/L)	GWC-8Z	0.01169	n/a	3/20/2018	0.01158...	No	88	97.73	n/a	0.01034	NP (NDs) Deseas

Interwell Prediction Limit

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR Printed 6/25/2018, 1:46 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Beryllium (mg/L)	GWC-9	0.01169	n/a	3/20/2018	0.0103	No	88	97.73	n/a	0.01034	NP (NDs) Deseas
Beryllium (mg/L)	GWC-13R_13RZ	0.01169	n/a	3/23/2018	0.01158...	No	88	97.73	n/a	0.01034	NP (NDs) Deseas
Cadmium (mg/L)	GWC-10	0.0007274	n/a	3/20/2018	0.00046...	No	184	98.91	n/a	0.005185	NP (NDs) Deseas
Cadmium (mg/L)	GWC-10R	0.0007274	n/a	3/21/2018	0.00046...	No	184	98.91	n/a	0.005185	NP (NDs) Deseas
Cadmium (mg/L)	GWC-11	0.0007274	n/a	3/21/2018	0.00046...	No	184	98.91	n/a	0.005185	NP (NDs) Deseas
Cadmium (mg/L)	GWC-11R	0.0007274	n/a	3/22/2018	0.00046...	No	184	98.91	n/a	0.005185	NP (NDs) Deseas
Cadmium (mg/L)	GWC-12	0.0007274	n/a	3/22/2018	0.0002855	No	184	98.91	n/a	0.005185	NP (NDs) Deseas
Cadmium (mg/L)	GWC-13	0.0007274	n/a	3/21/2018	0.00046...	No	184	98.91	n/a	0.005185	NP (NDs) Deseas
Cadmium (mg/L)	GWC-14_14Z	0.0007274	n/a	3/22/2018	0.00046...	No	184	98.91	n/a	0.005185	NP (NDs) Deseas
Cadmium (mg/L)	GWC-15R	0.0007274	n/a	3/23/2018	0.00046...	No	184	98.91	n/a	0.005185	NP (NDs) Deseas
Cadmium (mg/L)	GWC-15_15Z	0.0007274	n/a	3/23/2018	0.00046...	No	184	98.91	n/a	0.005185	NP (NDs) Deseas
Cadmium (mg/L)	GWC-5	0.0007274	n/a	3/19/2018	0.00046...	No	184	98.91	n/a	0.005185	NP (NDs) Deseas
Cadmium (mg/L)	GWC-6	0.0007274	n/a	3/19/2018	0.00046...	No	184	98.91	n/a	0.005185	NP (NDs) Deseas
Cadmium (mg/L)	GWC-6RZ	0.0007274	n/a	3/20/2018	0.00046...	No	184	98.91	n/a	0.005185	NP (NDs) Deseas
Chromium (mg/L)	GWC-6RZ	0.1793	n/a	3/20/2018	0.02314	No	183	73.22	n/a	0.005212	NP (NDs) Deseas
Chromium (mg/L)	GWC-7Z	0.1793	n/a	3/20/2018	0.02644...	No	183	73.22	n/a	0.005212	NP (NDs) Deseas
Chromium (mg/L)	GWC-8RR	0.1793	n/a	3/21/2018	0.02644...	No	183	73.22	n/a	0.005212	NP (NDs) Deseas
Chromium (mg/L)	GWC-8Z	0.1793	n/a	3/20/2018	0.02314	No	183	73.22	n/a	0.005212	NP (NDs) Deseas
Chromium (mg/L)	GWC-9	0.1793	n/a	3/20/2018	0.02644...	No	183	73.22	n/a	0.005212	NP (NDs) Deseas
Chromium (mg/L)	GWC-13R_13RZ	0.1793	n/a	3/23/2018	0.02644...	No	183	73.22	n/a	0.005212	NP (NDs) Deseas
Cobalt (mg/L)	GWC-10	0.02863	n/a	3/20/2018	0.01185	No	183	77.6	n/a	0.005212	NP (NDs) Deseas
Cobalt (mg/L)	GWC-10R	0.02863	n/a	3/21/2018	0.01474...	No	183	77.6	n/a	0.005212	NP (NDs) Deseas
Cobalt (mg/L)	GWC-11	0.02863	n/a	3/21/2018	0.01474...	No	183	77.6	n/a	0.005212	NP (NDs) Deseas
Cobalt (mg/L)	GWC-11R	0.02863	n/a	3/22/2018	0.01474...	No	183	77.6	n/a	0.005212	NP (NDs) Deseas
Cobalt (mg/L)	GWC-12	0.02863	n/a	3/22/2018	0.01305	No	183	77.6	n/a	0.005212	NP (NDs) Deseas
Cobalt (mg/L)	GWC-13	0.02863	n/a	3/21/2018	0.01474...	No	183	77.6	n/a	0.005212	NP (NDs) Deseas
Cobalt (mg/L)	GWC-14_14Z	0.02863	n/a	3/22/2018	0.01474...	No	183	77.6	n/a	0.005212	NP (NDs) Deseas
Cobalt (mg/L)	GWC-15R	0.02863	n/a	3/23/2018	0.01474...	No	183	77.6	n/a	0.005212	NP (NDs) Deseas
Cobalt (mg/L)	GWC-15_15Z	0.02863	n/a	3/23/2018	0.01474...	No	183	77.6	n/a	0.005212	NP (NDs) Deseas
Cobalt (mg/L)	GWC-5	0.02863	n/a	3/19/2018	0.01474...	No	183	77.6	n/a	0.005212	NP (NDs) Deseas
Copper (mg/L)	GWC-5	0.051	n/a	3/19/2018	0.021	No	145	38.62	n/a	0.0065	NP (normality)
Copper (mg/L)	GWC-6	0.051	n/a	3/19/2018	0.0125ND	No	145	38.62	n/a	0.0065	NP (normality)
Copper (mg/L)	GWC-6RZ	0.051	n/a	3/20/2018	0.0125ND	No	145	38.62	n/a	0.0065	NP (normality)
Copper (mg/L)	GWC-7Z	0.051	n/a	3/20/2018	0.0125ND	No	145	38.62	n/a	0.0065	NP (normality)
Copper (mg/L)	GWC-8RR	0.051	n/a	3/21/2018	0.0125ND	No	145	38.62	n/a	0.0065	NP (normality)
Copper (mg/L)	GWC-8Z	0.051	n/a	3/20/2018	0.0125ND	No	145	38.62	n/a	0.0065	NP (normality)
Copper (mg/L)	GWC-9	0.051	n/a	3/20/2018	0.0125ND	No	145	38.62	n/a	0.0065	NP (normality)
Copper (mg/L)	GWC-13R_13RZ	0.051	n/a	3/23/2018	0.0125ND	No	145	38.62	n/a	0.0065	NP (normality)
Lead (mg/L)	GWC-10	0.01826	n/a	3/20/2018	0.01361...	No	184	94.02	n/a	0.005185	NP (NDs) Deseas
Lead (mg/L)	GWC-10R	0.01826	n/a	3/21/2018	0.01361...	No	184	94.02	n/a	0.005185	NP (NDs) Deseas
Lead (mg/L)	GWC-11	0.01826	n/a	3/21/2018	0.01361...	No	184	94.02	n/a	0.005185	NP (NDs) Deseas
Lead (mg/L)	GWC-11R	0.01826	n/a	3/22/2018	0.01361...	No	184	94.02	n/a	0.005185	NP (NDs) Deseas
Lead (mg/L)	GWC-12	0.01826	n/a	3/22/2018	0.01361...	No	184	94.02	n/a	0.005185	NP (NDs) Deseas
Lead (mg/L)	GWC-13	0.01826	n/a	3/21/2018	0.01361...	No	184	94.02	n/a	0.005185	NP (NDs) Deseas
Lead (mg/L)	GWC-14_14Z	0.01826	n/a	3/22/2018	0.01361...	No	184	94.02	n/a	0.005185	NP (NDs) Deseas
Lead (mg/L)	GWC-15R	0.01826	n/a	3/23/2018	0.0114	No	184	94.02	n/a	0.005185	NP (NDs) Deseas
Mercury (mg/L)	GWC-15R	0.0002991	n/a	3/23/2018	0.00024...	No	184	98.91	n/a	0.005185	NP (NDs) Deseas
Mercury (mg/L)	GWC-15_15Z	0.0002991	n/a	3/23/2018	0.00024...	No	184	98.91	n/a	0.005185	NP (NDs) Deseas
Mercury (mg/L)	GWC-5	0.0002991	n/a	3/19/2018	0.00024...	No	184	98.91	n/a	0.005185	NP (NDs) Deseas
Mercury (mg/L)	GWC-6	0.0002991	n/a	3/19/2018	0.00024...	No	184	98.91	n/a	0.005185	NP (NDs) Deseas

Interwell Prediction Limit

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR Printed 6/25/2018, 1:46 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Mercury (mg/L)	GWC-6RZ	0.0002991	n/a	3/20/2018	0.00024...	No	184	98.91	n/a	0.005185	NP (NDs) Deseas
Mercury (mg/L)	GWC-7Z	0.0002991	n/a	3/20/2018	0.00024...	No	184	98.91	n/a	0.005185	NP (NDs) Deseas
Mercury (mg/L)	GWC-8RR	0.0002991	n/a	3/21/2018	0.00024...	No	184	98.91	n/a	0.005185	NP (NDs) Deseas
Mercury (mg/L)	GWC-8Z	0.0002991	n/a	3/20/2018	0.00024...	No	184	98.91	n/a	0.005185	NP (NDs) Deseas
Mercury (mg/L)	GWC-9	0.0002991	n/a	3/20/2018	0.00024...	No	184	98.91	n/a	0.005185	NP (NDs) Deseas
Mercury (mg/L)	GWC-13R_13RZ	0.0002991	n/a	3/23/2018	0.00024...	No	184	98.91	n/a	0.005185	NP (NDs) Deseas
Nickel (mg/L)	GWC-10	0.1488	n/a	3/20/2018	0.02232	No	147	46.94	n/a	0.006417	NP (normality) Deseas
Nickel (mg/L)	GWC-10R	0.1488	n/a	3/21/2018	0.02572...	No	147	46.94	n/a	0.006417	NP (normality) Deseas
Nickel (mg/L)	GWC-11	0.1488	n/a	3/21/2018	0.02572...	No	147	46.94	n/a	0.006417	NP (normality) Deseas
Nickel (mg/L)	GWC-11R	0.1488	n/a	3/22/2018	0.02572...	No	147	46.94	n/a	0.006417	NP (normality) Deseas
Nickel (mg/L)	GWC-12	0.1488	n/a	3/22/2018	0.02322	No	147	46.94	n/a	0.006417	NP (normality) Deseas
Nickel (mg/L)	GWC-13	0.1488	n/a	3/21/2018	0.02572...	No	147	46.94	n/a	0.006417	NP (normality) Deseas
Selenium (mg/L)	GWC-13	0.006777	n/a	3/21/2018	0.002377	No	184	98.37	n/a	0.005185	NP (NDs) Deseas
Selenium (mg/L)	GWC-14_14Z	0.006777	n/a	3/22/2018	0.00527...	No	184	98.37	n/a	0.005185	NP (NDs) Deseas
Selenium (mg/L)	GWC-15R	0.006777	n/a	3/23/2018	0.00527...	No	184	98.37	n/a	0.005185	NP (NDs) Deseas
Selenium (mg/L)	GWC-15_15Z	0.006777	n/a	3/23/2018	0.00527...	No	184	98.37	n/a	0.005185	NP (NDs) Deseas
Selenium (mg/L)	GWC-5	0.006777	n/a	3/19/2018	0.00527...	No	184	98.37	n/a	0.005185	NP (NDs) Deseas
Selenium (mg/L)	GWC-6	0.006777	n/a	3/19/2018	0.00527...	No	184	98.37	n/a	0.005185	NP (NDs) Deseas
Selenium (mg/L)	GWC-6RZ	0.006777	n/a	3/20/2018	0.00527...	No	184	98.37	n/a	0.005185	NP (NDs) Deseas
Selenium (mg/L)	GWC-7Z	0.006777	n/a	3/20/2018	0.00527...	No	184	98.37	n/a	0.005185	NP (NDs) Deseas
Selenium (mg/L)	GWC-8RR	0.006777	n/a	3/21/2018	0.00527...	No	184	98.37	n/a	0.005185	NP (NDs) Deseas
Selenium (mg/L)	GWC-8Z	0.006777	n/a	3/20/2018	0.00527...	No	184	98.37	n/a	0.005185	NP (NDs) Deseas
Selenium (mg/L)	GWC-9	0.006777	n/a	3/20/2018	0.00527...	No	184	98.37	n/a	0.005185	NP (NDs) Deseas
Selenium (mg/L)	GWC-13R_13RZ	0.006777	n/a	3/23/2018	0.00527...	No	184	98.37	n/a	0.005185	NP (NDs) Deseas
Silver (mg/L)	GWC-10	0.01538	n/a	3/20/2018	0.01474...	No	147	89.12	n/a	0.006417	NP (NDs) Deseas
Silver (mg/L)	GWC-10R	0.01538	n/a	3/21/2018	0.01474...	No	147	89.12	n/a	0.006417	NP (NDs) Deseas
Silver (mg/L)	GWC-11	0.01538	n/a	3/21/2018	0.01474...	No	147	89.12	n/a	0.006417	NP (NDs) Deseas
Silver (mg/L)	GWC-11R	0.01538	n/a	3/22/2018	0.01474...	No	147	89.12	n/a	0.006417	NP (NDs) Deseas
Thallium (mg/L)	GWC-11R	0.0005	n/a	3/22/2018	0.0005ND	No	77	98.7	n/a	0.01167	NP (NDs)
Thallium (mg/L)	GWC-12	0.0005	n/a	3/22/2018	0.0005ND	No	77	98.7	n/a	0.01167	NP (NDs)
Thallium (mg/L)	GWC-13	0.0005	n/a	3/21/2018	0.0005ND	No	77	98.7	n/a	0.01167	NP (NDs)
Thallium (mg/L)	GWC-14_14Z	0.0005	n/a	3/22/2018	0.0005ND	No	77	98.7	n/a	0.01167	NP (NDs)
Thallium (mg/L)	GWC-15R	0.0005	n/a	3/23/2018	0.0005ND	No	77	98.7	n/a	0.01167	NP (NDs)
Thallium (mg/L)	GWC-15_15Z	0.0005	n/a	3/23/2018	0.0005ND	No	77	98.7	n/a	0.01167	NP (NDs)
Thallium (mg/L)	GWC-5	0.0005	n/a	3/19/2018	0.0005ND	No	77	98.7	n/a	0.01167	NP (NDs)
Thallium (mg/L)	GWC-6	0.0005	n/a	3/19/2018	0.0005ND	No	77	98.7	n/a	0.01167	NP (NDs)
Thallium (mg/L)	GWC-6RZ	0.0005	n/a	3/20/2018	0.0005ND	No	77	98.7	n/a	0.01167	NP (NDs)
Thallium (mg/L)	GWC-7Z	0.0005	n/a	3/20/2018	0.0005ND	No	77	98.7	n/a	0.01167	NP (NDs)
Thallium (mg/L)	GWC-8RR	0.0005	n/a	3/21/2018	0.0005ND	No	77	98.7	n/a	0.01167	NP (NDs)
Thallium (mg/L)	GWC-8Z	0.0005	n/a	3/20/2018	0.0005ND	No	77	98.7	n/a	0.01167	NP (NDs)
Thallium (mg/L)	GWC-9	0.0005	n/a	3/20/2018	0.0005ND	No	77	98.7	n/a	0.01167	NP (NDs)
Thallium (mg/L)	GWC-13R_13RZ	0.0005	n/a	3/23/2018	0.0005ND	No	77	98.7	n/a	0.01167	NP (NDs)
Vanadium (mg/L)	GWC-10	0.016	n/a	3/20/2018	0.005ND	No	147	85.71	n/a	0.006417	NP (NDs)
Vanadium (mg/L)	GWC-10R	0.016	n/a	3/21/2018	0.005ND	No	147	85.71	n/a	0.006417	NP (NDs)
Vanadium (mg/L)	GWC-11	0.016	n/a	3/21/2018	0.005ND	No	147	85.71	n/a	0.006417	NP (NDs)
Zinc (mg/L)	GWC-11	0.1473	n/a	3/21/2018	0.03232...	No	146	26.71	n/a	0.006458	NP (normality) Deseas
Zinc (mg/L)	GWC-11R	0.1473	n/a	3/22/2018	0.03232...	No	146	26.71	n/a	0.006458	NP (normality) Deseas
Zinc (mg/L)	GWC-12	0.1473	n/a	3/22/2018	0.04133	No	146	26.71	n/a	0.006458	NP (normality) Deseas
Zinc (mg/L)	GWC-13	0.1473	n/a	3/21/2018	0.03232...	No	146	26.71	n/a	0.006458	NP (normality) Deseas
Zinc (mg/L)	GWC-14_14Z	0.1473	n/a	3/22/2018	0.03232...	No	146	26.71	n/a	0.006458	NP (normality) Deseas

Interwell Prediction Limit

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR Printed 6/25/2018, 1:46 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Zinc (mg/L)	GWC-15R	0.1473	n/a	3/23/2018	0.03232...	No	146	26.71	n/a	0.006458	NP (normality) Deseas
Zinc (mg/L)	GWC-15_15Z	0.1473	n/a	3/23/2018	0.03232...	No	146	26.71	n/a	0.006458	NP (normality) Deseas
Zinc (mg/L)	GWC-5	0.1473	n/a	3/19/2018	0.04432...	No	146	26.71	n/a	0.006458	NP (normality) Deseas
Zinc (mg/L)	GWC-6	0.1473	n/a	3/19/2018	0.03232...	No	146	26.71	n/a	0.006458	NP (normality) Deseas
Zinc (mg/L)	GWC-6RZ	0.1473	n/a	3/20/2018	0.03232...	No	146	26.71	n/a	0.006458	NP (normality) Deseas
Zinc (mg/L)	GWC-7Z	0.1473	n/a	3/20/2018	0.03232...	No	146	26.71	n/a	0.006458	NP (normality) Deseas
Zinc (mg/L)	GWC-8RR	0.1473	n/a	3/21/2018	0.03232...	No	146	26.71	n/a	0.006458	NP (normality) Deseas
Zinc (mg/L)	GWC-8Z	0.1473	n/a	3/20/2018	0.03232...	No	146	26.71	n/a	0.006458	NP (normality) Deseas
Zinc (mg/L)	GWC-9	0.1473	n/a	3/20/2018	0.03232...	No	146	26.71	n/a	0.006458	NP (normality) Deseas
Zinc (mg/L)	GWC-13R_13RZ	0.1473	n/a	3/23/2018	0.03232...	No	146	26.71	n/a	0.006458	NP (normality) Deseas
Barium (mg/L)	GWC-8Z	0.06966	n/a	3/20/2018	0.029	No	179	1.117	ln(x)	0.01	Param
Barium (mg/L)	GWC-9	0.06966	n/a	3/20/2018	0.039	No	179	1.117	ln(x)	0.01	Param
Barium (mg/L)	**GWC-13R_13RZ**	**0.06966**	**n/a**	**3/23/2018**	**0.086**	**Yes**	**179**	**1.117**	**ln(x)**	**0.01**	Param
Beryllium (mg/L)	GWC-10	0.01169	n/a	3/20/2018	0.01027	No	88	97.73	n/a	0.01034	NP (NDs) Deseas
Beryllium (mg/L)	GWC-10R	0.01169	n/a	3/21/2018	0.01158...	No	88	97.73	n/a	0.01034	NP (NDs) Deseas
Beryllium (mg/L)	GWC-11	0.01169	n/a	3/21/2018	0.01158...	No	88	97.73	n/a	0.01034	NP (NDs) Deseas
Beryllium (mg/L)	GWC-11R	0.01169	n/a	3/22/2018	0.01158...	No	88	97.73	n/a	0.01034	NP (NDs) Deseas
Beryllium (mg/L)	GWC-12	0.01169	n/a	3/22/2018	0.01158...	No	88	97.73	n/a	0.01034	NP (NDs) Deseas
Beryllium (mg/L)	GWC-13	0.01169	n/a	3/21/2018	0.01158...	No	88	97.73	n/a	0.01034	NP (NDs) Deseas
Beryllium (mg/L)	GWC-14_14Z	0.01169	n/a	3/22/2018	0.01111	No	88	97.73	n/a	0.01034	NP (NDs) Deseas
Beryllium (mg/L)	GWC-15R	0.01169	n/a	3/23/2018	0.01158...	No	88	97.73	n/a	0.01034	NP (NDs) Deseas
Beryllium (mg/L)	GWC-15_15Z	0.01169	n/a	3/23/2018	0.01158...	No	88	97.73	n/a	0.01034	NP (NDs) Deseas
Beryllium (mg/L)	GWC-5	0.01169	n/a	3/19/2018	0.01058	No	88	97.73	n/a	0.01034	NP (NDs) Deseas
Beryllium (mg/L)	GWC-6	0.01169	n/a	3/19/2018	0.01015	No	88	97.73	n/a	0.01034	NP (NDs) Deseas
Beryllium (mg/L)	GWC-6RZ	0.01169	n/a	3/20/2018	0.01015	No	88	97.73	n/a	0.01034	NP (NDs) Deseas
Beryllium (mg/L)	GWC-7Z	0.01169	n/a	3/20/2018	0.01158...	No	88	97.73	n/a	0.01034	NP (NDs) Deseas
Cadmium (mg/L)	GWC-7Z	0.0007274	n/a	3/20/2018	0.00046...	No	184	98.91	n/a	0.005185	NP (NDs) Deseas
Cadmium (mg/L)	GWC-8RR	0.0007274	n/a	3/21/2018	0.00046...	No	184	98.91	n/a	0.005185	NP (NDs) Deseas
Cadmium (mg/L)	GWC-8Z	0.0007274	n/a	3/20/2018	0.00046...	No	184	98.91	n/a	0.005185	NP (NDs) Deseas
Cadmium (mg/L)	GWC-9	0.0007274	n/a	3/20/2018	0.00046...	No	184	98.91	n/a	0.005185	NP (NDs) Deseas
Cadmium (mg/L)	GWC-13R_13RZ	0.0007274	n/a	3/23/2018	0.00046...	No	184	98.91	n/a	0.005185	NP (NDs) Deseas
Chromium (mg/L)	GWC-10	0.1793	n/a	3/20/2018	0.02644...	No	183	73.22	n/a	0.005212	NP (NDs) Deseas
Chromium (mg/L)	GWC-10R	0.1793	n/a	3/21/2018	0.02644...	No	183	73.22	n/a	0.005212	NP (NDs) Deseas
Chromium (mg/L)	GWC-11	0.1793	n/a	3/21/2018	0.02934	No	183	73.22	n/a	0.005212	NP (NDs) Deseas
Chromium (mg/L)	GWC-11R	0.1793	n/a	3/22/2018	0.02764	No	183	73.22	n/a	0.005212	NP (NDs) Deseas
Chromium (mg/L)	GWC-12	0.1793	n/a	3/22/2018	0.02644...	No	183	73.22	n/a	0.005212	NP (NDs) Deseas
Chromium (mg/L)	GWC-13	0.1793	n/a	3/21/2018	0.02694	No	183	73.22	n/a	0.005212	NP (NDs) Deseas
Chromium (mg/L)	GWC-14_14Z	0.1793	n/a	3/22/2018	0.02644...	No	183	73.22	n/a	0.005212	NP (NDs) Deseas
Chromium (mg/L)	GWC-15R	0.1793	n/a	3/23/2018	0.02644...	No	183	73.22	n/a	0.005212	NP (NDs) Deseas
Chromium (mg/L)	GWC-15_15Z	0.1793	n/a	3/23/2018	0.02644...	No	183	73.22	n/a	0.005212	NP (NDs) Deseas
Chromium (mg/L)	GWC-5	0.1793	n/a	3/19/2018	0.02644...	No	183	73.22	n/a	0.005212	NP (NDs) Deseas
Chromium (mg/L)	GWC-6	0.1793	n/a	3/19/2018	0.02494	No	183	73.22	n/a	0.005212	NP (NDs) Deseas
Cobalt (mg/L)	GWC-6	0.02863	n/a	3/19/2018	0.01474...	No	183	77.6	n/a	0.005212	NP (NDs) Deseas
Cobalt (mg/L)	GWC-6RZ	0.02863	n/a	3/20/2018	0.01474...	No	183	77.6	n/a	0.005212	NP (NDs) Deseas
Cobalt (mg/L)	GWC-7Z	0.02863	n/a	3/20/2018	0.01051	No	183	77.6	n/a	0.005212	NP (NDs) Deseas
Cobalt (mg/L)	GWC-8RR	0.02863	n/a	3/21/2018	0.01474...	No	183	77.6	n/a	0.005212	NP (NDs) Deseas
Cobalt (mg/L)	GWC-8Z	0.02863	n/a	3/20/2018	0.01474...	No	183	77.6	n/a	0.005212	NP (NDs) Deseas
Cobalt (mg/L)	GWC-9	0.02863	n/a	3/20/2018	0.01474...	No	183	77.6	n/a	0.005212	NP (NDs) Deseas
Cobalt (mg/L)	GWC-13R_13RZ	0.02863	n/a	3/23/2018	0.01474...	No	183	77.6	n/a	0.005212	NP (NDs) Deseas
Copper (mg/L)	GWC-10	0.051	n/a	3/20/2018	0.0125ND	No	145	38.62	n/a	0.0065	NP (normality)

Interwell Prediction Limit

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR Printed 6/25/2018, 1:46 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Copper (mg/L)	GWC-10R	0.051	n/a	3/21/2018	0.0125ND	No	145	38.62	n/a	0.0065	NP (normality)
Copper (mg/L)	GWC-11	0.051	n/a	3/21/2018	0.0125ND	No	145	38.62	n/a	0.0065	NP (normality)
Copper (mg/L)	GWC-11R	0.051	n/a	3/22/2018	0.0125ND	No	145	38.62	n/a	0.0065	NP (normality)
Copper (mg/L)	GWC-12	0.051	n/a	3/22/2018	0.0125ND	No	145	38.62	n/a	0.0065	NP (normality)
Copper (mg/L)	GWC-13	0.051	n/a	3/21/2018	0.0125ND	No	145	38.62	n/a	0.0065	NP (normality)
Copper (mg/L)	GWC-14_14Z	0.051	n/a	3/22/2018	0.0125ND	No	145	38.62	n/a	0.0065	NP (normality)
Copper (mg/L)	GWC-15R	0.051	n/a	3/23/2018	0.0125ND	No	145	38.62	n/a	0.0065	NP (normality)
Copper (mg/L)	GWC-15_15Z	0.051	n/a	3/23/2018	0.0125ND	No	145	38.62	n/a	0.0065	NP (normality)
Lead (mg/L)	GWC-15_15Z	0.01826	n/a	3/23/2018	0.01361...	No	184	94.02	n/a	0.005185	NP (NDs) Deseas
Lead (mg/L)	GWC-5	0.01826	n/a	3/19/2018	0.01361...	No	184	94.02	n/a	0.005185	NP (NDs) Deseas
Lead (mg/L)	GWC-6	0.01826	n/a	3/19/2018	0.01361...	No	184	94.02	n/a	0.005185	NP (NDs) Deseas
Lead (mg/L)	GWC-6RZ	0.01826	n/a	3/20/2018	0.01361...	No	184	94.02	n/a	0.005185	NP (NDs) Deseas
Lead (mg/L)	GWC-7Z	0.01826	n/a	3/20/2018	0.01361...	No	184	94.02	n/a	0.005185	NP (NDs) Deseas
Lead (mg/L)	GWC-8RR	0.01826	n/a	3/21/2018	0.01361...	No	184	94.02	n/a	0.005185	NP (NDs) Deseas
Lead (mg/L)	GWC-8Z	0.01826	n/a	3/20/2018	0.01154	No	184	94.02	n/a	0.005185	NP (NDs) Deseas
Lead (mg/L)	GWC-9	0.01826	n/a	3/20/2018	0.01361...	No	184	94.02	n/a	0.005185	NP (NDs) Deseas
Lead (mg/L)	GWC-13R_13RZ	0.01826	n/a	3/23/2018	0.01361...	No	184	94.02	n/a	0.005185	NP (NDs) Deseas
Mercury (mg/L)	GWC-10	0.0002991	n/a	3/20/2018	0.00024...	No	184	98.91	n/a	0.005185	NP (NDs) Deseas
Mercury (mg/L)	GWC-10R	0.0002991	n/a	3/21/2018	0.00024...	No	184	98.91	n/a	0.005185	NP (NDs) Deseas
Mercury (mg/L)	GWC-11	0.0002991	n/a	3/21/2018	0.00024...	No	184	98.91	n/a	0.005185	NP (NDs) Deseas
Mercury (mg/L)	GWC-11R	0.0002991	n/a	3/22/2018	0.00024...	No	184	98.91	n/a	0.005185	NP (NDs) Deseas
Mercury (mg/L)	GWC-12	0.0002991	n/a	3/22/2018	0.00024...	No	184	98.91	n/a	0.005185	NP (NDs) Deseas
Mercury (mg/L)	GWC-13	0.0002991	n/a	3/21/2018	0.00024...	No	184	98.91	n/a	0.005185	NP (NDs) Deseas
Mercury (mg/L)	GWC-14_14Z	0.0002991	n/a	3/22/2018	0.00024...	No	184	98.91	n/a	0.005185	NP (NDs) Deseas
Nickel (mg/L)	GWC-14_14Z	0.1488	n/a	3/22/2018	0.02572...	No	147	46.94	n/a	0.006417	NP (normality) Deseas
Nickel (mg/L)	GWC-15R	0.1488	n/a	3/23/2018	0.02572...	No	147	46.94	n/a	0.006417	NP (normality) Deseas
Nickel (mg/L)	GWC-15_15Z	0.1488	n/a	3/23/2018	0.02572...	No	147	46.94	n/a	0.006417	NP (normality) Deseas
Nickel (mg/L)	GWC-5	0.1488	n/a	3/19/2018	0.02992	No	147	46.94	n/a	0.006417	NP (normality) Deseas
Nickel (mg/L)	GWC-6	0.1488	n/a	3/19/2018	0.02572...	No	147	46.94	n/a	0.006417	NP (normality) Deseas
Nickel (mg/L)	GWC-6RZ	0.1488	n/a	3/20/2018	0.02572...	No	147	46.94	n/a	0.006417	NP (normality) Deseas
Nickel (mg/L)	GWC-7Z	0.1488	n/a	3/20/2018	0.02572...	No	147	46.94	n/a	0.006417	NP (normality) Deseas
Nickel (mg/L)	GWC-8RR	0.1488	n/a	3/21/2018	0.02572...	No	147	46.94	n/a	0.006417	NP (normality) Deseas
Nickel (mg/L)	GWC-8Z	0.1488	n/a	3/20/2018	0.02572...	No	147	46.94	n/a	0.006417	NP (normality) Deseas
Nickel (mg/L)	GWC-9	0.1488	n/a	3/20/2018	0.02169	No	147	46.94	n/a	0.006417	NP (normality) Deseas
Nickel (mg/L)	GWC-13R_13RZ	0.1488	n/a	3/23/2018	0.02572...	No	147	46.94	n/a	0.006417	NP (normality) Deseas
Selenium (mg/L)	GWC-10	0.006777	n/a	3/20/2018	0.00527...	No	184	98.37	n/a	0.005185	NP (NDs) Deseas
Selenium (mg/L)	GWC-10R	0.006777	n/a	3/21/2018	0.00527...	No	184	98.37	n/a	0.005185	NP (NDs) Deseas
Selenium (mg/L)	GWC-11	0.006777	n/a	3/21/2018	0.00527...	No	184	98.37	n/a	0.005185	NP (NDs) Deseas
Selenium (mg/L)	GWC-11R	0.006777	n/a	3/22/2018	0.00527...	No	184	98.37	n/a	0.005185	NP (NDs) Deseas
Selenium (mg/L)	GWC-12	0.006777	n/a	3/22/2018	0.00527...	No	184	98.37	n/a	0.005185	NP (NDs) Deseas
Silver (mg/L)	GWC-12	0.01538	n/a	3/22/2018	0.01474...	No	147	89.12	n/a	0.006417	NP (NDs) Deseas
Silver (mg/L)	GWC-13	0.01538	n/a	3/21/2018	0.01474...	No	147	89.12	n/a	0.006417	NP (NDs) Deseas
Silver (mg/L)	GWC-14_14Z	0.01538	n/a	3/22/2018	0.01474...	No	147	89.12	n/a	0.006417	NP (NDs) Deseas
Silver (mg/L)	GWC-15R	0.01538	n/a	3/23/2018	0.01474...	No	147	89.12	n/a	0.006417	NP (NDs) Deseas
Silver (mg/L)	GWC-15_15Z	0.01538	n/a	3/23/2018	0.01474...	No	147	89.12	n/a	0.006417	NP (NDs) Deseas
Silver (mg/L)	GWC-5	0.01538	n/a	3/19/2018	0.01474...	No	147	89.12	n/a	0.006417	NP (NDs) Deseas
Silver (mg/L)	GWC-6	0.01538	n/a	3/19/2018	0.01474...	No	147	89.12	n/a	0.006417	NP (NDs) Deseas
Silver (mg/L)	GWC-6RZ	0.01538	n/a	3/20/2018	0.01474...	No	147	89.12	n/a	0.006417	NP (NDs) Deseas
Silver (mg/L)	GWC-7Z	0.01538	n/a	3/20/2018	0.01474...	No	147	89.12	n/a	0.006417	NP (NDs) Deseas
Silver (mg/L)	GWC-8RR	0.01538	n/a	3/21/2018	0.01474...	No	147	89.12	n/a	0.006417	NP (NDs) Deseas

Interwell Prediction Limit

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR Printed 6/25/2018, 1:46 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Silver (mg/L)	GWC-8Z	0.01538	n/a	3/20/2018	0.01474...	No	147	89.12	n/a	0.006417	NP (NDs) Deseas
Silver (mg/L)	GWC-9	0.01538	n/a	3/20/2018	0.01474...	No	147	89.12	n/a	0.006417	NP (NDs) Deseas
Silver (mg/L)	GWC-13R_13RZ	0.01538	n/a	3/23/2018	0.01474...	No	147	89.12	n/a	0.006417	NP (NDs) Deseas
Thallium (mg/L)	GWC-10	0.0005	n/a	3/20/2018	0.0005ND	No	77	98.7	n/a	0.01167	NP (NDs)
Thallium (mg/L)	GWC-10R	0.0005	n/a	3/21/2018	0.0005ND	No	77	98.7	n/a	0.01167	NP (NDs)
Thallium (mg/L)	GWC-11	0.0005	n/a	3/21/2018	0.0005ND	No	77	98.7	n/a	0.01167	NP (NDs)
Vanadium (mg/L)	GWC-11R	0.016	n/a	3/22/2018	0.005ND	No	147	85.71	n/a	0.006417	NP (NDs)
Vanadium (mg/L)	GWC-12	0.016	n/a	3/22/2018	0.005ND	No	147	85.71	n/a	0.006417	NP (NDs)
Vanadium (mg/L)	GWC-13	0.016	n/a	3/21/2018	0.005ND	No	147	85.71	n/a	0.006417	NP (NDs)
Vanadium (mg/L)	GWC-14_14Z	0.016	n/a	3/22/2018	0.005ND	No	147	85.71	n/a	0.006417	NP (NDs)
Vanadium (mg/L)	GWC-15R	0.016	n/a	3/23/2018	0.005ND	No	147	85.71	n/a	0.006417	NP (NDs)
Vanadium (mg/L)	GWC-15_15Z	0.016	n/a	3/23/2018	0.005ND	No	147	85.71	n/a	0.006417	NP (NDs)
Vanadium (mg/L)	GWC-5	0.016	n/a	3/19/2018	0.005ND	No	147	85.71	n/a	0.006417	NP (NDs)
Vanadium (mg/L)	GWC-6	0.016	n/a	3/19/2018	0.005ND	No	147	85.71	n/a	0.006417	NP (NDs)
Vanadium (mg/L)	GWC-6RZ	0.016	n/a	3/20/2018	0.005ND	No	147	85.71	n/a	0.006417	NP (NDs)
Vanadium (mg/L)	GWC-7Z	0.016	n/a	3/20/2018	0.005ND	No	147	85.71	n/a	0.006417	NP (NDs)
Vanadium (mg/L)	GWC-8RR	0.016	n/a	3/21/2018	0.005ND	No	147	85.71	n/a	0.006417	NP (NDs)
Vanadium (mg/L)	GWC-8Z	0.016	n/a	3/20/2018	0.005ND	No	147	85.71	n/a	0.006417	NP (NDs)
Vanadium (mg/L)	GWC-9	0.016	n/a	3/20/2018	0.005ND	No	147	85.71	n/a	0.006417	NP (NDs)
Vanadium (mg/L)	GWC-13R_13RZ	0.016	n/a	3/23/2018	0.005ND	No	147	85.71	n/a	0.006417	NP (NDs)
Zinc (mg/L)	GWC-10	0.1473	n/a	3/20/2018	0.03232...	No	146	26.71	n/a	0.006458	NP (normality) Deseas
Zinc (mg/L)	GWC-10R	0.1473	n/a	3/21/2018	0.03232...	No	146	26.71	n/a	0.006458	NP (normality) Deseas

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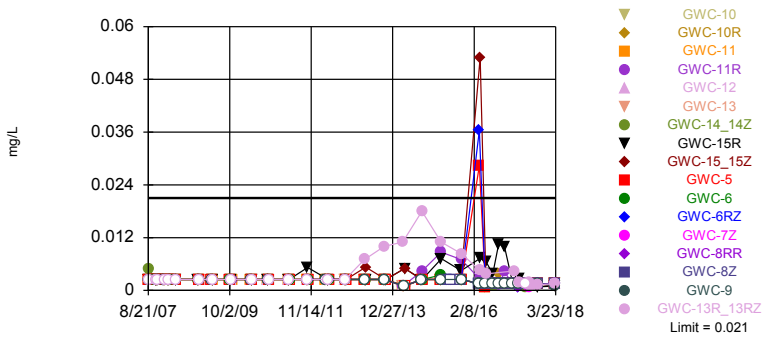
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 184 background values. 75.54% NDs. Report alpha = 0.08458. Individual comparison alpha = 0.005185. Most recent point for each compliance well compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Antimony Analysis Run 6/25/2018 1:26 PM View: Cell1&2_metals_interwell
Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

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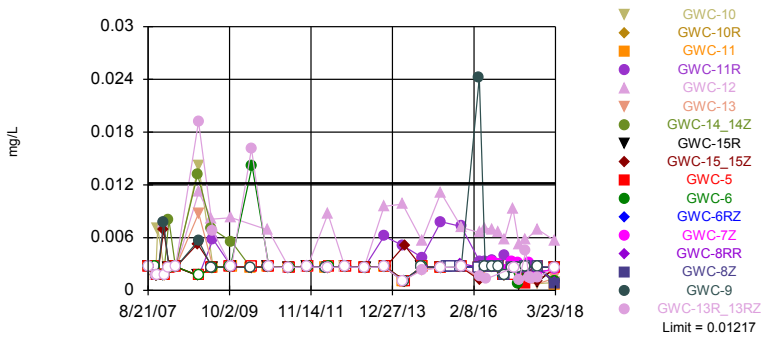
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 184 background values. 89.67% NDs. Report alpha = 0.08458. Individual comparison alpha = 0.005185. Most recent point for each compliance well compared to limit. Data were deseasonalized.

Constituent: Arsenic Analysis Run 6/25/2018 1:27 PM View: Cell1&2_metals_interwell
Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

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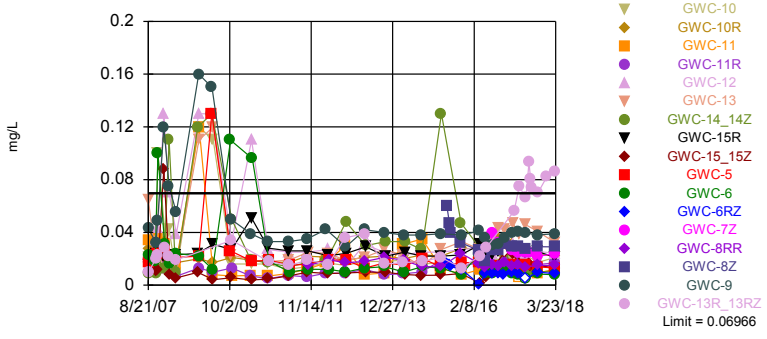
Hollow symbols indicate censored values.

Exceeds Limit: GWC-13R_13RZ

Prediction Limit

Interwell Parametric



Background Data Summary (based on natural log transformation): Mean=-4.291, Std. Dev.=0.6911, n=179, 1.117% NDs. Seasonality was not detected with 95% confidence. Normality test: Chi Squared @alpha = 0.05, calculated = 7.76, critical = 14.07. Report alpha = 0.1571. Individual comparison alpha = 0.01. Most recent point for each compliance well compared to limit.

Constituent: Barium Analysis Run 6/25/2018 1:28 PM View: Cell1&2_metals_interwell
Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

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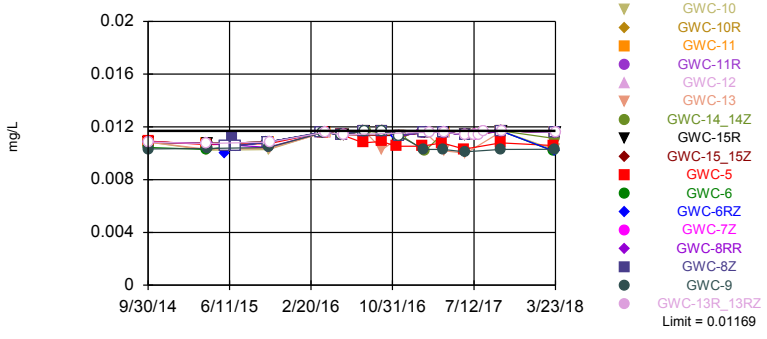
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 88 background values. 97.73% NDs. Report alpha = 0.1619. Individual comparison alpha = 0.01034. Most recent point for each compliance well compared to limit. Data were deseasonalized.

Constituent: Beryllium Analysis Run 6/25/2018 1:28 PM View: Cell1&2_metals_interwell
Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 6/25/2018 1:46 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-10	GWC-11	GWC-11R	GWC-10R	GWC-12	GWC-13	GWC-13R_13RZ	GWC-6	GWA-3 (bg)
8/21/2007	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005		
8/22/2007								<0.005	
8/23/2007									<0.005
8/24/2007									
10/23/2007									
10/24/2007									
10/25/2007								<0.005	
11/1/2007	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005		
11/2/2007									<0.005
11/17/2007									
11/18/2007		<0.005	<0.005						<0.005
11/19/2007					<0.005	<0.005	<0.005		
11/20/2007	<0.005			<0.005				<0.005	
1/15/2008									
1/16/2008					<0.005				
1/23/2008								<0.005	
1/30/2008	<0.005	<0.005	<0.005	<0.005					
1/31/2008						<0.005	<0.005		<0.005
3/5/2008		<0.005			<0.005	<0.005	<0.005		
3/6/2008	<0.005		<0.005	<0.005					
3/10/2008									
3/11/2008								<0.005	<0.005
5/6/2008									
5/7/2008		<0.005	<0.005				<0.005		
5/8/2008				<0.005					
5/12/2008	<0.005					<0.005			
5/13/2008					<0.005				
5/14/2008								<0.005	<0.005
12/2/2008									
12/4/2008									
12/5/2008									<0.005
12/11/2008								<0.005	
12/12/2008							<0.005		
12/13/2008	<0.005				<0.005	<0.005			
12/14/2008		<0.005	<0.005	<0.005					
4/15/2009									<0.005
4/16/2009					<0.005				
4/21/2009									
4/23/2009								<0.005	
4/28/2009						<0.005			
4/29/2009	<0.005	<0.005	<0.005	<0.005			<0.005		
10/6/2009									
10/7/2009									
10/8/2009									<0.005
10/9/2009								<0.005	
10/13/2009									
10/19/2009									
10/20/2009	<0.005								
10/21/2009				<0.005	<0.005	<0.005	<0.005		
10/22/2009		<0.005	<0.005						
4/20/2010									
4/21/2010		<0.005	<0.005	<0.005					

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 6/25/2018 1:46 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-10	GWC-11	GWC-11R	GWC-10R	GWC-12	GWC-13	GWC-13R_13RZ	GWC-6	GWA-3 (bg)
4/26/2010	<0.005								
4/27/2010					<0.005				
4/28/2010						<0.005	<0.005		<0.005
5/3/2010									
5/4/2010								<0.005	
9/28/2010		<0.005		<0.005					
9/29/2010	<0.005		<0.005						
9/30/2010									
10/4/2010									
10/5/2010					<0.005	<0.005			
10/6/2010							<0.005		<0.005
10/11/2010								<0.005	
10/12/2010									
4/12/2011		<0.005		<0.005					
4/13/2011	<0.005		<0.005						
4/14/2011									
4/18/2011									
4/19/2011					<0.005	<0.005			
4/20/2011							<0.005		
4/21/2011									<0.005
4/26/2011								<0.005	
4/27/2011									
4/28/2011									
10/4/2011		<0.005	<0.005	<0.005					
10/5/2011	<0.005								
10/12/2011					<0.005		<0.005		
10/13/2011									<0.005
10/17/2011									
10/18/2011						<0.005		<0.005	
10/19/2011									
4/3/2012		<0.005		<0.005					
4/4/2012	<0.005		<0.005						
4/11/2012									
4/23/2012									
4/24/2012					<0.005				
4/25/2012						<0.005	<0.005		
4/30/2012									
5/1/2012									<0.005
5/2/2012								<0.005	
10/2/2012					<0.005	<0.005	<0.005		
10/3/2012	<0.005	<0.005	<0.005						
10/8/2012				<0.005				<0.005	
10/9/2012									<0.005
10/10/2012									
4/2/2013					<0.005	<0.005	0.007		
4/3/2013	<0.005	<0.005	<0.005	<0.005					
4/8/2013									
4/9/2013									
4/10/2013								<0.005	
4/11/2013									<0.005
4/12/2013									
4/15/2013									

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 6/25/2018 1:46 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-10	GWC-11	GWC-11R	GWC-10R	GWC-12	GWC-13	GWC-13R_13RZ	GWC-6	GWA-3 (bg)
4/16/2013									
10/8/2013						<0.005	0.01	<0.005	
10/9/2013		<0.005	<0.005		<0.005				
10/15/2013	<0.005			<0.005					
10/16/2013									<0.005
10/22/2013									
4/1/2014					<0.002	<0.002	0.011		
4/2/2014		<0.002	<0.002						
4/9/2014	<0.002			<0.002					
4/10/2014									
4/11/2014									
4/14/2014								<0.002	
4/21/2014									
4/22/2014									
4/23/2014									<0.002
9/30/2014									
10/1/2014						<0.005	0.018		
10/2/2014	<0.005	<0.005	0.0044 (J)	<0.005	<0.005				
10/3/2014								<0.005	
10/4/2014									0.0031 (J)
3/30/2015									
3/31/2015							0.011		0.0068
4/1/2015		<0.005	0.0087		<0.005	<0.005		0.0035 (J)	
4/2/2015	<0.005			<0.005					
4/3/2015									
5/26/2015									
6/18/2015									
7/2/2015									
10/6/2015									
10/7/2015									
10/8/2015									
10/9/2015								<0.005	
10/10/2015	<0.005								
10/11/2015		<0.005	0.007						
10/12/2015				<0.005					<0.005
10/13/2015									
10/14/2015					<0.005		0.0083		
10/15/2015						<0.005			
3/22/2016									
3/23/2016									0.0035
3/28/2016									
3/29/2016								<0.003	
3/30/2016									
3/31/2016	<0.003			<0.003					
4/4/2016		<0.003	0.00252 (J)		<0.003	<0.003	0.00447		
4/5/2016									
5/19/2016									
5/20/2016									
5/23/2016									<0.003
5/24/2016								<0.003	
5/25/2016									
5/26/2016	<0.003	0.000722 (J)	0.00351	0.000659 (J)					

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 6/25/2018 1:46 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-10	GWC-11	GWC-11R	GWC-10R	GWC-12	GWC-13	GWC-13R_13RZ	GWC-6	GWA-3 (bg)
5/27/2016					<0.003				
5/31/2016						<0.003			
6/1/2016							0.00377		
7/29/2016									0.0029 (J)
8/1/2016								<0.003	
8/2/2016									
8/3/2016		<0.003 (*)		<0.003 (*)	<0.003 (*)				
8/4/2016			<0.003 (*)			<0.003 (*)			
8/5/2016	<0.003								
8/9/2016									
9/22/2016									0.0041
9/23/2016									
9/26/2016								<0.003	
9/27/2016									
9/28/2016	<0.003	<0.003	0.0012 (J)	0.0037					
9/29/2016						<0.003 (*)			
9/30/2016					<0.003				
11/9/2016									
11/10/2016									0.0048 (J)
11/11/2016									
11/14/2016									
11/18/2016								<0.003	
11/21/2016									
11/22/2016	<0.003	<0.003	0.0042	<0.003	<0.003				
11/23/2016									
11/28/2016						<0.003			
1/30/2017									
1/31/2017									<0.003
2/1/2017								<0.003 (*)	
2/3/2017									
2/6/2017									
2/7/2017	<0.003			<0.003					
2/8/2017		<0.003	<0.003						
2/9/2017						<0.003			
2/10/2017									
2/13/2017					<0.003				
2/22/2017							0.0044		
3/30/2017									0.001 (J)
4/3/2017									
4/6/2017								0.001 (J)	
4/7/2017									
4/10/2017	<0.003	<0.003	<0.003	<0.003					
4/11/2017					<0.003		0.0019 (J)		
4/12/2017						<0.003			
6/9/2017									
6/12/2017									<0.003 (*)
6/13/2017								<0.003 (*)	
6/14/2017	<0.003 (*)			<0.003 (*)	<0.003				
6/15/2017		<0.003 (*)	<0.003						
6/16/2017						<0.003 (*)	<0.003 (*)		
7/12/2017							0.0018 (J)		
7/14/2017									

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 6/25/2018 1:46 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-10	GWC-11	GWC-11R	GWC-10R	GWC-12	GWC-13	GWC-13R_13RZ	GWC-6	GWA-3 (bg)
7/20/2017									
7/26/2017									
7/28/2017							0.0011 (J)		
8/9/2017									
8/10/2017							0.0012 (J)		
8/24/2017									
10/2/2017									
10/3/2017								<0.003	
10/4/2017	<0.003	<0.003	<0.003	<0.003	<0.003				0.0009 (J)
10/5/2017									
10/6/2017							0.0013 (J)		
10/9/2017						<0.003			
3/16/2018									
3/19/2018								<0.003	0.0019 (J)
3/20/2018	<0.003								
3/21/2018		<0.003		<0.003		<0.003			
3/22/2018			<0.003		<0.003				
3/23/2018							0.0015 (J)		

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 6/25/2018 1:46 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-2 (bg)	GWA-1 (bg)	GWA-2R (bg)	GWC-15R	GWC-5	GWC-9	GWC-15_15Z	GWC-14_14Z	GWA-50R (bg)
8/21/2007									
8/22/2007									
8/23/2007	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005			
8/24/2007							<0.005	0.005	
10/23/2007		<0.005							
10/24/2007	<0.005		<0.005						
10/25/2007					<0.005				
11/1/2007						<0.005			
11/2/2007				<0.005			<0.005	<0.005	
11/17/2007				<0.005				<0.005	
11/18/2007	<0.005	<0.005	<0.005				<0.005		
11/19/2007					<0.005	<0.005			
11/20/2007									
1/15/2008				<0.005		<0.005	<0.005	<0.005	
1/16/2008									
1/23/2008					<0.005				
1/30/2008		<0.005							
1/31/2008	<0.005		<0.005						
3/5/2008								<0.005	
3/6/2008				<0.005		<0.005			
3/10/2008		<0.005	<0.005				<0.005		
3/11/2008	<0.005				<0.005				
5/6/2008	<0.005								
5/7/2008				<0.005				<0.005	
5/8/2008									
5/12/2008					<0.005				
5/13/2008		<0.005	<0.005			<0.005	<0.005		
5/14/2008									
12/2/2008				<0.005			<0.005	<0.005	
12/4/2008	<0.005		<0.005						
12/5/2008		<0.005							
12/11/2008					<0.005				
12/12/2008						<0.005			<0.005
12/13/2008									
12/14/2008									
4/15/2009		<0.005			<0.005				
4/16/2009						<0.005		<0.005	
4/21/2009	<0.005		<0.005						
4/23/2009									<0.005
4/28/2009				<0.005			<0.005		
4/29/2009									
10/6/2009									<0.005
10/7/2009	<0.005	<0.005							
10/8/2009			<0.005						
10/9/2009					<0.005				
10/13/2009						<0.005			
10/19/2009				<0.005					
10/20/2009							<0.005	<0.005	
10/21/2009									
10/22/2009									
4/20/2010								<0.005	
4/21/2010			<0.005			<0.005			

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 6/25/2018 1:46 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-2 (bg)	GWA-1 (bg)	GWA-2R (bg)	GWC-15R	GWC-5	GWC-9	GWC-15_15Z	GWC-14_14Z	GWA-50R (bg)
4/26/2010	<0.005								
4/27/2010				<0.005			<0.005		
4/28/2010									
5/3/2010		<0.005							<0.005
5/4/2010					<0.005				
9/28/2010			<0.005						
9/29/2010						<0.005		<0.005	
9/30/2010									
10/4/2010	<0.005			<0.005					
10/5/2010							<0.005		
10/6/2010									
10/11/2010									<0.005
10/12/2010		<0.005			<0.005				
4/12/2011			<0.005					<0.005	
4/13/2011	<0.005					<0.005			
4/14/2011									
4/18/2011				<0.005					
4/19/2011							<0.005		
4/20/2011									
4/21/2011									
4/26/2011									
4/27/2011		<0.005							<0.005
4/28/2011					<0.005				
10/4/2011			<0.005					<0.005	
10/5/2011	<0.005					<0.005			
10/12/2011				0.0052			<0.005		
10/13/2011									
10/17/2011		0.0054							
10/18/2011									
10/19/2011					<0.005				<0.005
4/3/2012			0.0053						
4/4/2012						<0.005		<0.005	
4/11/2012	<0.005								
4/23/2012				<0.005					
4/24/2012									
4/25/2012							<0.005		
4/30/2012									
5/1/2012									<0.005
5/2/2012		<0.005			<0.005				
10/2/2012									<0.005
10/3/2012									
10/8/2012		<0.005				<0.005			
10/9/2012	<0.005		<0.005		<0.005				
10/10/2012				<0.005			<0.005	<0.005	
4/2/2013									
4/3/2013									
4/8/2013						<0.005			
4/9/2013									
4/10/2013									<0.005
4/11/2013			0.0075		<0.005				
4/12/2013		0.0058							
4/15/2013	<0.005			<0.005				<0.005	

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 6/25/2018 1:46 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-2 (bg)	GWA-1 (bg)	GWA-2R (bg)	GWC-15R	GWC-5	GWC-9	GWC-15_15Z	GWC-14_14Z	GWA-50R (bg)
4/16/2013							0.0053		
10/8/2013									
10/9/2013						<0.005			
10/15/2013	<0.005								
10/16/2013		0.01	<0.005		<0.005				<0.005
10/22/2013				<0.005			<0.005	<0.005	
4/1/2014									
4/2/2014									
4/9/2014						<0.002			
4/10/2014			0.0081						
4/11/2014		0.005 (J)							
4/14/2014									
4/21/2014				0.005 (J)			0.005 (J)	<0.002	
4/22/2014	<0.002								<0.002
4/23/2014					<0.002				
9/30/2014	<0.005	0.0068	0.0022 (J)	0.0024 (J)		<0.005	<0.005	<0.005	
10/1/2014									<0.005
10/2/2014									
10/3/2014					<0.005				
10/4/2014									
3/30/2015	<0.005	0.0074	0.011						<0.005
3/31/2015					<0.005				
4/1/2015									
4/2/2015						<0.005			
4/3/2015				0.0072			<0.005	<0.005	
5/26/2015									
6/18/2015									
7/2/2015									
10/6/2015							0.0025 (J)		
10/7/2015				0.0045 (J)				<0.005	
10/8/2015									
10/9/2015									
10/10/2015						<0.005 (D)			
10/11/2015									<0.005
10/12/2015					<0.005				
10/13/2015	<0.005	0.017	0.0045 (J)						
10/14/2015									
10/15/2015									
3/22/2016		0.00567							
3/23/2016	<0.003		0.00281 (J)						
3/28/2016					0.0284 (J)				<0.003
3/29/2016									
3/30/2016						<0.003			
3/31/2016									
4/4/2016									
4/5/2016				0.00727			0.053 (J)	<0.003	
5/19/2016		0.00319	0.00264 (J)						
5/20/2016	<0.003								
5/23/2016									
5/24/2016									
5/25/2016					0.000686 (J)				<0.003
5/26/2016						<0.003			

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 6/25/2018 1:46 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-2 (bg)	GWA-1 (bg)	GWA-2R (bg)	GWC-15R	GWC-5	GWC-9	GWC-15_15Z	GWC-14_14Z	GWA-50R (bg)
5/27/2016									
5/31/2016				0.00649			0.00088 (J)		
6/1/2016								0.000895 (J)	
7/29/2016	<0.003	0.0025 (J)	0.0069						
8/1/2016					<0.003 (*)				<0.003 (*)
8/2/2016									
8/3/2016									
8/4/2016				0.0038					
8/5/2016						<0.003 (*)			
8/9/2016								0.00095 (JD)	
9/22/2016			0.0066						
9/23/2016	<0.003	0.0051							
9/26/2016									<0.003
9/27/2016					<0.003				
9/28/2016						<0.003			
9/29/2016				0.0106					
9/30/2016									
11/9/2016	<0.003 (*)	0.0097 (J)							
11/10/2016			<0.003 (*)						
11/11/2016					<0.003				<0.003
11/14/2016									
11/18/2016									
11/21/2016						<0.003			
11/22/2016									
11/23/2016				0.0098			<0.003		
11/28/2016								<0.003	
1/30/2017		0.0032							<0.003
1/31/2017	<0.003		0.0064		<0.003				
2/1/2017									
2/3/2017									
2/6/2017						<0.003			
2/7/2017									
2/8/2017									
2/9/2017								<0.003	
2/10/2017				0.0014 (J)			<0.003		
2/13/2017									
2/22/2017									
3/30/2017	<0.003	0.0028 (J)							
4/3/2017			0.0049		<0.003				<0.003
4/6/2017						<0.003			
4/7/2017									
4/10/2017									
4/11/2017							<0.003	<0.003	
4/12/2017				0.0026 (J)					
6/9/2017		<0.003 (*)	<0.003 (*)						
6/12/2017	<0.003 (*)				<0.003				<0.003
6/13/2017						<0.003			
6/14/2017								0.0006 (J)	
6/15/2017				<0.003 (*)			<0.003 (*)		
6/16/2017									
7/12/2017							<0.003	<0.003	
7/14/2017									

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 6/25/2018 1:46 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-2 (bg)	GWA-1 (bg)	GWA-2R (bg)	GWC-15R	GWC-5	GWC-9	GWC-15_15Z	GWC-14_14Z	GWA-50R (bg)
7/20/2017									
7/26/2017							<0.003		
7/28/2017									
8/9/2017									
8/10/2017									
8/24/2017									
10/2/2017	<0.003	0.0014 (J)	0.0045						<0.003
10/3/2017					<0.003	<0.003			
10/4/2017									
10/5/2017								<0.003	
10/6/2017				0.0008 (J)			<0.003		
10/9/2017									
3/16/2018		0.0014 (J)	0.021						<0.003
3/19/2018	<0.003				<0.003				
3/20/2018						0.001 (J)			
3/21/2018									
3/22/2018								<0.003	
3/23/2018				0.001 (J)			0.00089 (J)		

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 6/25/2018 1:46 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50 (bg)	GWC-8RR	GWC-8Z	GWC-6RZ	GWC-7Z	GWA-4RZ (bg)
8/21/2007						
8/22/2007						
8/23/2007						
8/24/2007						
10/23/2007						
10/24/2007						
10/25/2007						
11/1/2007						
11/2/2007						
11/17/2007						
11/18/2007						
11/19/2007						
11/20/2007						
1/15/2008						
1/16/2008						
1/23/2008						
1/30/2008						
1/31/2008						
3/5/2008						
3/6/2008						
3/10/2008						
3/11/2008						
5/6/2008						
5/7/2008						
5/8/2008						
5/12/2008						
5/13/2008						
5/14/2008						
12/2/2008						
12/4/2008						
12/5/2008						
12/11/2008						
12/12/2008	<0.005					
12/13/2008						
12/14/2008						
4/15/2009						
4/16/2009						
4/21/2009						
4/23/2009	<0.005					
4/28/2009						
4/29/2009						
10/6/2009	<0.005					
10/7/2009						
10/8/2009						
10/9/2009						
10/13/2009						
10/19/2009						
10/20/2009						
10/21/2009						
10/22/2009						
4/20/2010						
4/21/2010						

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 6/25/2018 1:46 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50 (bg)	GWC-8RR	GWC-8Z	GWC-6RZ	GWC-7Z	GWA-4RZ (bg)
4/26/2010						
4/27/2010	<0.005					
4/28/2010						
5/3/2010						
5/4/2010						
9/28/2010						
9/29/2010						
9/30/2010	<0.005					
10/4/2010						
10/5/2010						
10/6/2010						
10/11/2010						
10/12/2010						
4/12/2011						
4/13/2011						
4/14/2011	<0.005					
4/18/2011						
4/19/2011						
4/20/2011						
4/21/2011						
4/26/2011						
4/27/2011						
4/28/2011						
10/4/2011						
10/5/2011	<0.005					
10/12/2011						
10/13/2011						
10/17/2011						
10/18/2011		<0.005				
10/19/2011						
4/3/2012						
4/4/2012						
4/11/2012	<0.005					
4/23/2012						
4/24/2012						
4/25/2012						
4/30/2012		<0.005				
5/1/2012						
5/2/2012						
10/2/2012	<0.005					
10/3/2012		<0.005				
10/8/2012						
10/9/2012						
10/10/2012						
4/2/2013						
4/3/2013						
4/8/2013		<0.005				
4/9/2013	<0.005					
4/10/2013						
4/11/2013						
4/12/2013						
4/15/2013						

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 6/25/2018 1:46 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50 (bg)	GWC-8RR	GWC-8Z	GWC-6RZ	GWC-7Z	GWA-4RZ (bg)
4/16/2013						
10/8/2013						
10/9/2013		<0.005				
10/15/2013	<0.005					
10/16/2013						
10/22/2013						
4/1/2014						
4/2/2014						
4/9/2014						
4/10/2014	<0.002	<0.002				
4/11/2014						
4/14/2014						
4/21/2014						
4/22/2014						
4/23/2014						
9/30/2014						
10/1/2014	<0.005					
10/2/2014		0.0025 (J)				
10/3/2014						
10/4/2014						
3/30/2015	<0.005					
3/31/2015						
4/1/2015						
4/2/2015						
4/3/2015		<0.005				
5/26/2015			<0.005	<0.005		
6/18/2015			<0.005 (D)	<0.005 (D)		
7/2/2015			<0.005	<0.005		
10/6/2015						
10/7/2015						
10/8/2015		<0.005	<0.005			
10/9/2015				<0.005		
10/10/2015						
10/11/2015	<0.005					
10/12/2015						
10/13/2015						
10/14/2015						
10/15/2015						
3/22/2016			<0.003			
3/23/2016						
3/28/2016	0.00139 (J)					
3/29/2016				0.0364 (J)		
3/30/2016		<0.003				
3/31/2016						
4/4/2016						
4/5/2016						
5/19/2016						
5/20/2016						
5/23/2016	0.000677 (J)					
5/24/2016		<0.003		<0.003		
5/25/2016			<0.003			
5/26/2016						

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 6/25/2018 1:46 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50 (bg)	GWC-8RR	GWC-8Z	GWC-6RZ	GWC-7Z	GWA-4RZ (bg)
5/27/2016						
5/31/2016					<0.003	
6/1/2016						
7/29/2016						
8/1/2016	<0.003 (*)			<0.003 (*)		
8/2/2016		<0.003 (*)	<0.003		<0.003	
8/3/2016						
8/4/2016						
8/5/2016						
8/9/2016						
9/22/2016						
9/23/2016						
9/26/2016	<0.003		<0.003	<0.003		
9/27/2016		<0.003			<0.003	
9/28/2016						
9/29/2016						
9/30/2016						
11/9/2016						
11/10/2016	<0.003 (*)					
11/11/2016						
11/14/2016				<0.003		
11/18/2016						
11/21/2016			<0.003		<0.003	
11/22/2016		<0.003				
11/23/2016						
11/28/2016						
1/30/2017	<0.003					
1/31/2017						
2/1/2017				<0.003	<0.003	
2/3/2017			<0.003			
2/6/2017		0.0015 (J)				
2/7/2017						
2/8/2017						
2/9/2017						
2/10/2017						
2/13/2017						
2/22/2017						0.0018 (J)
3/30/2017						
4/3/2017						
4/6/2017		0.0007 (J)		0.0006 (J)	<0.003	
4/7/2017	<0.003		<0.003			0.0008 (J)
4/10/2017						
4/11/2017						
4/12/2017						
6/9/2017						
6/12/2017	<0.003 (*)					
6/13/2017			<0.003 (*)	<0.003 (*)	<0.003 (*)	
6/14/2017		<0.003 (*)				<0.003 (*)
6/15/2017						
6/16/2017						
7/12/2017						0.0015 (J)
7/14/2017					0.0008 (J)	

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 6/25/2018 1:46 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50 (bg)	GWC-8RR	GWC-8Z	GWC-6RZ	GWC-7Z	GWA-4RZ (bg)
7/20/2017						<0.003
7/26/2017						
7/28/2017						<0.003
8/9/2017						<0.003
8/10/2017						
8/24/2017						0.0007 (J)
10/2/2017	<0.003					
10/3/2017			<0.003	<0.003	<0.003	<0.003
10/4/2017		<0.003				
10/5/2017						
10/6/2017						
10/9/2017						
3/16/2018	<0.003					
3/19/2018						
3/20/2018			<0.003	<0.003	<0.003	
3/21/2018		<0.003				<0.003
3/22/2018						
3/23/2018						

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 6/25/2018 1:46 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-11R	GWC-11	GWC-13	GWC-12	GWC-13R_13RZ	GWC-10	GWC-10R	GWC-6	GWC-15R
8/21/2007	0.002661653..	0.002661653..	0.002661653..	0.002661653..	0.002661653..	0.002661653..	0.002661653..		
8/22/2007								0.002661653..	
8/23/2007									0.002661653..
8/24/2007									
10/23/2007									
10/24/2007									
10/25/2007								0.002661653..	
11/1/2007	0.001675558..	0.001675558..	0.001675558..	0.001675558..	0.001675558..	0.001675558..	0.001675558..		
11/2/2007									0.001675558..
11/17/2007									0.001675558..
11/18/2007	0.001675558..	0.001675558..							
11/19/2007			0.001675558..	0.001675558..	0.001675558..				
11/20/2007						0.007076	0.001675558..	0.001675558..	
1/15/2008									0.001675558..
1/16/2008				0.007776					
1/23/2008								0.001675558..	
1/30/2008	0.001675558..	0.001675558..				0.001675558..	0.001675558..		
1/31/2008			0.001675558..		0.001675558..				
3/5/2008		0.002609348..	0.002609348..	0.002609348..	0.002609348..				
3/6/2008	0.002609348..					0.002609348..	0.002609348..		0.002609348..
3/10/2008									
3/11/2008								0.002609348..	
5/6/2008									
5/7/2008	0.002670697..	0.002670697..			0.002670697..				0.002670697..
5/8/2008							0.002670697..		
5/12/2008			0.002670697..			0.002670697..			
5/13/2008				0.002670697..					
5/14/2008								0.002670697..	
12/2/2008									0.001675558..
12/4/2008									
12/5/2008									
12/11/2008								0.001675558..	
12/12/2008					0.01918				
12/13/2008			0.008776	0.01118		0.01418			
12/14/2008	0.001675558..	0.001675558..					0.001675558..		
4/15/2009									
4/16/2009				0.008109					
4/21/2009									
4/23/2009								0.002609348..	
4/28/2009			0.002609348..						0.002609348..
4/29/2009	0.005809	0.002609348..			0.006709	0.002609348..	0.002609348..		
10/6/2009									
10/7/2009									
10/8/2009									
10/9/2009								0.002661653..	
10/13/2009									
10/19/2009									0.002661653..
10/20/2009						0.002661653..			
10/21/2009			0.002661653..	0.008262	0.002661653..		0.002661653..		
10/22/2009	0.002661653..	0.002661653..							
4/20/2010									
4/21/2010	0.002609348..	0.002609348..					0.002609348..		

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 6/25/2018 1:46 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-11R	GWC-11	GWC-13	GWC-12	GWC-13R_13RZ	GWC-10	GWC-10R	GWC-6	GWC-15R
4/26/2010						0.002609348..			
4/27/2010									0.002609348..
4/28/2010			0.002609348..		0.01611				
5/3/2010									
5/4/2010								0.01417	
9/28/2010		0.002661653..					0.002661653..		
9/29/2010	0.002661653..					0.002661653..			
9/30/2010									
10/4/2010									0.002661653..
10/5/2010			0.002661653..	0.006862					
10/6/2010					0.002661653..				
10/11/2010								0.002661653..	
10/12/2010									
4/12/2011		0.002609348..					0.002609348..		
4/13/2011	0.002609348..					0.002609348..			
4/14/2011									
4/18/2011									0.002609348..
4/19/2011			0.002609348..	0.002609348..					
4/20/2011					0.002609348..				
4/21/2011									
4/26/2011								0.002609348..	
4/27/2011									
4/28/2011									
10/4/2011	0.002661653..	0.002661653..					0.002661653..		
10/5/2011						0.002661653..			
10/12/2011				0.002661653..	0.002661653..				0.002661653..
10/13/2011									
10/17/2011									
10/18/2011			0.002661653..					0.002661653..	
10/19/2011									
4/3/2012		0.002609348..					0.002609348..		
4/4/2012	0.002609348..					0.002609348..			
4/11/2012									
4/23/2012									0.002609348..
4/24/2012				0.008709					
4/25/2012			0.002609348..		0.002609348..				
4/30/2012									
5/1/2012									
5/2/2012								0.002670697..	
10/2/2012			0.002661653..	0.002661653..	0.002661653..				
10/3/2012	0.002661653..	0.002661653..				0.002661653..			
10/8/2012							0.002661653..	0.002661653..	
10/9/2012									
10/10/2012									0.002661653..
4/2/2013			0.002609348..	0.002609348..	0.002609348..				
4/3/2013	0.002609348..	0.002609348..				0.002609348..	0.002609348..		
4/8/2013									
4/9/2013									
4/10/2013								0.002609348..	
4/11/2013									
4/12/2013									
4/15/2013									0.002609348..

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 6/25/2018 1:46 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-11R	GWC-11	GWC-13	GWC-12	GWC-13R_13RZ	GWC-10	GWC-10R	GWC-6	GWC-15R
4/16/2013									
10/8/2013			0.002661653..		0.002661653..			0.002661653..	
10/9/2013	0.006162	0.002661653..		0.009562					
10/15/2013						0.002661653..	0.002661653..		
10/16/2013									
10/22/2013									0.002661653..
4/1/2014			0.001109348..	0.009809	0.001109348..				
4/2/2014	0.005109 (J)	0.001109348..							
4/9/2014						0.001109348..	0.001109348..		
4/10/2014									
4/11/2014									
4/14/2014								0.001109348..	
4/21/2014									0.001109348..
4/22/2014									
4/23/2014									
9/30/2014									0.002661653..
10/1/2014			0.002362 (J)		0.002262 (J)				
10/2/2014	0.003762 (J)	0.002661653..		0.005662		0.002661653..	0.002661653..		
10/3/2014								0.002661653..	
10/4/2014									
3/30/2015									
3/31/2015					0.002609348..				
4/1/2015	0.007809	0.002609348..	0.002609348..	0.01111				0.002609348..	
4/2/2015						0.002609348..	0.002609348..		
4/3/2015									0.002609348..
5/26/2015									
6/18/2015									
7/2/2015									
10/6/2015									
10/7/2015									0.002661653..
10/8/2015									
10/9/2015								0.002661653..	
10/10/2015						0.002661653..			
10/11/2015	0.007262	0.002661653..							
10/12/2015							0.002661653..		
10/13/2015									
10/14/2015				0.007162	0.002661653..				
10/15/2015			0.002661653..						
3/22/2016									
3/23/2016									
3/28/2016									
3/29/2016								0.002609348..	
3/30/2016									
3/31/2016						0.002609348..	0.002609348..		
4/4/2016	0.003259 (J)	0.002609348..	0.001349 (J)	0.006559	0.001549 (JD)				
4/5/2016									0.002609348..
5/19/2016									
5/20/2016									
5/23/2016									
5/24/2016								0.002670697..	
5/25/2016									
5/26/2016	0.003301 (J)	0.002670697..				0.002670697..	0.002670697..		

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 6/25/2018 1:46 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-11R	GWC-11	GWC-13	GWC-12	GWC-13R_13RZ	GWC-10	GWC-10R	GWC-6	GWC-15R
5/27/2016				0.007091					
5/31/2016			0.002670697..						0.002670697..
6/1/2016					0.001271 (JD)				
7/29/2016									
8/1/2016								0.002661653..	
8/2/2016									
8/3/2016		0.002661653..		0.006962			0.002661653..		
8/4/2016	0.003362 (J)		0.002661653..						0.002661653..
8/5/2016						0.002661653..			
8/9/2016									
9/22/2016									
9/23/2016									
9/26/2016								0.002661653..	
9/27/2016									
9/28/2016	0.003062 (J)	0.002661653..				0.002661653..	0.002661653..		
9/29/2016			0.002661653..						0.002661653..
9/30/2016				0.006662					
11/9/2016									
11/10/2016									
11/11/2016									
11/14/2016									
11/18/2016								0.001675558..	
11/21/2016									
11/22/2016	0.003976 (J)	0.001675558..		0.005776		0.001675558..	0.001675558..		
11/23/2016									0.001675558..
11/28/2016			0.001675558..						
1/30/2017									
1/31/2017									
2/1/2017								0.002609348..	
2/3/2017									
2/6/2017									
2/7/2017						0.002609348..	0.002609348..		
2/8/2017	0.002309 (J)	0.002609348..							
2/9/2017			0.002609348..						
2/10/2017									0.002609348..
2/13/2017				0.009309					
2/22/2017					0.002609348..				
3/30/2017									
4/3/2017									
4/6/2017								0.0007093 (J)	
4/7/2017									
4/10/2017	0.002109 (J)	0.002609348..				0.002609348..	0.002609348..		
4/11/2017				0.005209	0.001209 (JD)				
4/12/2017			0.001109 (J)						0.0006093 (J)
6/9/2017									
6/12/2017									
6/13/2017								0.002670697..	
6/14/2017				0.005771		0.002670697..	0.002670697..		
6/15/2017	0.001571 (J)	0.002670697..							0.002670697..
6/16/2017			0.0008707 (J)		0.004471 (JD)				
7/12/2017					0.001471 (JD)				
7/14/2017									

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 6/25/2018 1:46 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-11R	GWC-11	GWC-13	GWC-12	GWC-13R_13RZ	GWC-10	GWC-10R	GWC-6	GWC-15R
7/20/2017									
7/26/2017									
7/28/2017					0.001471 (J)				
8/9/2017									
8/10/2017					0.001262 (J)				
8/24/2017									
10/2/2017									
10/3/2017								0.002661653..	
10/4/2017	0.002162 (J)	0.002661653..		0.006962		0.0007617 (J)	0.002661653..		
10/5/2017									
10/6/2017					0.001462 (JD)				0.0009617 (J)
10/9/2017			0.0007617 (J)						
3/16/2018									
3/19/2018								0.0009993 (J)	
3/20/2018						0.0008993 (J)			
3/21/2018		0.0006893 (J)	0.001409 (J)				0.002609348..		
3/22/2018	0.002309 (J)			0.005609					
3/23/2018					0.002609348..				0.002609348..

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 6/25/2018 1:46 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-2 (bg)	GWA-2R (bg)	GWC-9	GWA-3 (bg)	GWC-5	GWA-1 (bg)	GWC-14_14Z	GWC-15_15Z	GWA-50R (bg)
8/21/2007									
8/22/2007									
8/23/2007	0.002661653..	0.002661653..	0.002661653..	0.002661653..	0.002661653..	0.002661653..			
8/24/2007							0.002661653..	0.002661653..	
10/23/2007						0.002661653..			
10/24/2007	0.002661653..	0.002661653..							
10/25/2007					0.002661653..				
11/1/2007			0.001675558..						
11/2/2007				0.001675558..			0.001675558..	0.001675558..	
11/17/2007							0.001675558..		
11/18/2007	0.001675558..	0.001675558..		0.001675558..		0.001675558..		0.001675558..	
11/19/2007			0.001675558..		0.001675558..				
11/20/2007									
1/15/2008			0.007776				0.001675558..	0.006876	
1/16/2008									
1/23/2008					0.001675558..				
1/30/2008						0.001675558..			
1/31/2008	0.001675558..	0.004176		0.001675558..					
3/5/2008							0.008009		
3/6/2008			0.002609348..						
3/10/2008		0.002609348..				0.002609348..		0.002609348..	
3/11/2008	0.002609348..			0.002609348..	0.002609348..				
5/6/2008	0.002670697..								
5/7/2008							0.002670697..		
5/8/2008									
5/12/2008					0.002670697..				
5/13/2008		0.002670697..	0.002670697..			0.002670697..		0.002670697..	
5/14/2008				0.002670697..					
12/2/2008							0.01318	0.005276	
12/4/2008	0.01118	0.001675558..							
12/5/2008				0.001675558..		0.001675558..			
12/11/2008					0.001675558..				
12/12/2008			0.005676						0.001675558..
12/13/2008									
12/14/2008									
4/15/2009				0.002609348..	0.002609348..	0.002609348..			
4/16/2009			0.002609348..				0.007009		
4/21/2009	0.002609348..	0.002609348..							
4/23/2009									0.002609348..
4/28/2009								0.002609348..	
4/29/2009									
10/6/2009									0.002661653..
10/7/2009	0.002661653..					0.002661653..			
10/8/2009		0.002661653..		0.002661653..					
10/9/2009					0.002661653..				
10/13/2009			0.002661653..						
10/19/2009									
10/20/2009							0.005562	0.002661653..	
10/21/2009									
10/22/2009									
4/20/2010							0.002609348..		
4/21/2010		0.002609348..	0.002609348..						

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 6/25/2018 1:46 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-2 (bg)	GWA-2R (bg)	GWC-9	GWA-3 (bg)	GWC-5	GWA-1 (bg)	GWC-14_14Z	GWC-15_15Z	GWA-50R (bg)
4/26/2010	0.002609348..								
4/27/2010								0.002609348..	
4/28/2010				0.002609348..					
5/3/2010						0.002670697..			0.01217
5/4/2010					0.002670697..				
9/28/2010		0.002661653..							
9/29/2010			0.002661653..				0.002661653..		
9/30/2010									
10/4/2010	0.002661653..								
10/5/2010								0.002661653..	
10/6/2010				0.002661653..					
10/11/2010									0.002661653..
10/12/2010					0.002661653..	0.002661653..			
4/12/2011		0.002609348..					0.002609348..		
4/13/2011	0.002609348..		0.002609348..						
4/14/2011									
4/18/2011									
4/19/2011								0.002609348..	
4/20/2011									
4/21/2011				0.002609348..					
4/26/2011									
4/27/2011						0.002609348..			0.002609348..
4/28/2011					0.002609348..				
10/4/2011		0.002661653..					0.002661653..		
10/5/2011	0.002661653..		0.002661653..						
10/12/2011								0.002661653..	
10/13/2011				0.002661653..					
10/17/2011						0.002661653..			
10/18/2011									
10/19/2011					0.002661653..				0.002661653..
4/3/2012		0.002609348..							
4/4/2012			0.002609348..				0.002609348..		
4/11/2012	0.002609348..								
4/23/2012									
4/24/2012									
4/25/2012								0.002609348..	
4/30/2012									
5/1/2012				0.002670697..					0.002670697..
5/2/2012					0.002670697..	0.002670697..			
10/2/2012									0.002661653..
10/3/2012									
10/8/2012			0.002661653..			0.002661653..			
10/9/2012	0.002661653..	0.002661653..		0.002661653..	0.002661653..				
10/10/2012							0.002661653..	0.002661653..	
4/2/2013									
4/3/2013									
4/8/2013			0.002609348..						
4/9/2013									
4/10/2013									0.002609348..
4/11/2013		0.002609348..		0.002609348..	0.002609348..				
4/12/2013						0.002609348..			
4/15/2013	0.002609348..						0.002609348..		

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 6/25/2018 1:46 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-2 (bg)	GWA-2R (bg)	GWC-9	GWA-3 (bg)	GWC-5	GWA-1 (bg)	GWC-14_14Z	GWC-15_15Z	GWA-50R (bg)
4/16/2013								0.002609348..	
10/8/2013									
10/9/2013			0.002661653..						
10/15/2013	0.002661653..								
10/16/2013		0.005762		0.002661653..	0.002661653..	0.002661653..			0.002661653..
10/22/2013							0.002661653..	0.002661653..	
4/1/2014									
4/2/2014									
4/9/2014			0.001109348..						
4/10/2014		0.001109348..							
4/11/2014						0.001109348..			
4/14/2014									
4/21/2014							0.001109348..	0.005109 (J)	
4/22/2014	0.001109348..								0.001109348..
4/23/2014				0.001109348..	0.001109348..				
9/30/2014	0.002661653..	0.002661653..	0.002661653..			0.002661653..	0.002661653..	0.002662 (J)	
10/1/2014									0.002661653..
10/2/2014									
10/3/2014					0.002661653..				
10/4/2014				0.002661653..					
3/30/2015	0.002609348..	0.002609348..				0.002609348..			0.002609348..
3/31/2015				0.002609348..	0.002609348..				
4/1/2015									
4/2/2015			0.002609348..						
4/3/2015							0.002609348..	0.002609348..	
5/26/2015									
6/18/2015									
7/2/2015									
10/6/2015								0.002661653..	
10/7/2015							0.002661653..		
10/8/2015									
10/9/2015									
10/10/2015			0.002661653.. (D)						
10/11/2015									0.002661653..
10/12/2015				0.002661653..	0.002661653..				
10/13/2015	0.002661653..	0.002661653..				0.002661653..			
10/14/2015									
10/15/2015									
3/22/2016						0.002609348..			
3/23/2016	0.002609348..	0.002609348..		0.002609348..					
3/28/2016					0.002609348..				0.002609348..
3/29/2016									
3/30/2016			0.02421 (J)						
3/31/2016									
4/4/2016									
4/5/2016							0.002609348..	0.001159 (J)	
5/19/2016		0.002670697..				0.002670697..			
5/20/2016	0.002670697..								
5/23/2016				0.002670697..					
5/24/2016									
5/25/2016					0.002670697..				0.002670697..
5/26/2016			0.002670697..						

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 6/25/2018 1:46 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-2 (bg)	GWA-2R (bg)	GWC-9	GWA-3 (bg)	GWC-5	GWA-1 (bg)	GWC-14_14Z	GWC-15_15Z	GWA-50R (bg)
5/27/2016									
5/31/2016								0.002781 (J)	
6/1/2016							0.002670697..		
7/29/2016	0.002670697..	0.0009707 (J)		0.002670697..		0.002670697..			
8/1/2016					0.002661653..				0.002661653..
8/2/2016									
8/3/2016									
8/4/2016									
8/5/2016			0.002661653..						
8/9/2016							0.002661653..		
9/22/2016		0.002661653..		0.002661653..					
9/23/2016	0.002661653..					0.002661653..			
9/26/2016									0.002661653..
9/27/2016					0.002661653..				
9/28/2016			0.002661653..						
9/29/2016									
9/30/2016									
11/9/2016	0.001675558..					0.001675558..			
11/10/2016		0.001675558..		0.001675558..					
11/11/2016					0.001675558..				0.001675558..
11/14/2016									
11/18/2016									
11/21/2016			0.001675558..						
11/22/2016									
11/23/2016								0.001675558..	
11/28/2016							0.001675558..		
1/30/2017						0.001675558..			0.001675558..
1/31/2017	0.001675558..	0.001675558..		0.001675558..	0.001675558..				
2/1/2017									
2/3/2017									
2/6/2017			0.002609348..						
2/7/2017									
2/8/2017									
2/9/2017							0.002609348..		
2/10/2017								0.002609348..	
2/13/2017									
2/22/2017									
3/30/2017	0.002609348..			0.002609348..		0.002609348..			
4/3/2017		0.0008093 (J)			0.002609348..				0.002609348..
4/6/2017			0.002609348..						
4/7/2017									
4/10/2017									
4/11/2017							0.002609348..	0.0008093 (J)	
4/12/2017									
6/9/2017		0.0007707 (J)				0.0006707 (J)			
6/12/2017	0.002670697..			0.002670697..	0.0007707 (J)				0.002670697..
6/13/2017			0.002670697..						
6/14/2017							0.002670697..		
6/15/2017								0.002670697..	
6/16/2017									
7/12/2017							0.002670697..	0.002670697..	
7/14/2017									

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 6/25/2018 1:46 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-2 (bg)	GWA-2R (bg)	GWC-9	GWA-3 (bg)	GWC-5	GWA-1 (bg)	GWC-14_14Z	GWC-15_15Z	GWA-50R (bg)
7/20/2017									
7/26/2017								0.002670697..	
7/28/2017									
8/9/2017									
8/10/2017									
8/24/2017									
10/2/2017	0.002661653..	0.0006617 (J)				0.002661653..			0.002661653..
10/3/2017			0.002661653..		0.002661653..				
10/4/2017				0.002661653..					
10/5/2017							0.002661653..		
10/6/2017								0.001062 (J)	
10/9/2017									
3/16/2018		0.001109 (J)				0.0009593 (J)			0.002609348..
3/19/2018	0.002609348..			0.002609348..	0.002609348..				
3/20/2018			0.002609348..						
3/21/2018									
3/22/2018							0.001069 (J)		
3/23/2018								0.002609348..	

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 6/25/2018 1:46 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50 (bg)	GWC-8RR	GWC-6RZ	GWC-8Z	GWC-7Z	GWA-4RZ (bg)
8/21/2007						
8/22/2007						
8/23/2007						
8/24/2007						
10/23/2007						
10/24/2007						
10/25/2007						
11/1/2007						
11/2/2007						
11/17/2007						
11/18/2007						
11/19/2007						
11/20/2007						
1/15/2008						
1/16/2008						
1/23/2008						
1/30/2008						
1/31/2008						
3/5/2008						
3/6/2008						
3/10/2008						
3/11/2008						
5/6/2008						
5/7/2008						
5/8/2008						
5/12/2008						
5/13/2008						
5/14/2008						
12/2/2008						
12/4/2008						
12/5/2008						
12/11/2008						
12/12/2008	0.001675558..					
12/13/2008						
12/14/2008						
4/15/2009						
4/16/2009						
4/21/2009						
4/23/2009	0.002609348..					
4/28/2009						
4/29/2009						
10/6/2009	0.002661653..					
10/7/2009						
10/8/2009						
10/9/2009						
10/13/2009						
10/19/2009						
10/20/2009						
10/21/2009						
10/22/2009						
4/20/2010						
4/21/2010						

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 6/25/2018 1:46 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50 (bg)	GWC-8RR	GWC-6RZ	GWC-8Z	GWC-7Z	GWA-4RZ (bg)
4/26/2010						
4/27/2010	0.002609348..					
4/28/2010						
5/3/2010						
5/4/2010						
9/28/2010						
9/29/2010						
9/30/2010	0.002661653..					
10/4/2010						
10/5/2010						
10/6/2010						
10/11/2010						
10/12/2010						
4/12/2011						
4/13/2011						
4/14/2011	0.002609348..					
4/18/2011						
4/19/2011						
4/20/2011						
4/21/2011						
4/26/2011						
4/27/2011						
4/28/2011						
10/4/2011						
10/5/2011	0.002661653..					
10/12/2011						
10/13/2011						
10/17/2011						
10/18/2011		0.002661653..				
10/19/2011						
4/3/2012						
4/4/2012						
4/11/2012	0.002609348..					
4/23/2012						
4/24/2012						
4/25/2012						
4/30/2012		0.002609348..				
5/1/2012						
5/2/2012						
10/2/2012	0.002661653..					
10/3/2012		0.002661653..				
10/8/2012						
10/9/2012						
10/10/2012						
4/2/2013						
4/3/2013						
4/8/2013		0.002609348..				
4/9/2013	0.002609348..					
4/10/2013						
4/11/2013						
4/12/2013						
4/15/2013						

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 6/25/2018 1:46 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50 (bg)	GWC-8RR	GWC-6RZ	GWC-8Z	GWC-7Z	GWA-4RZ (bg)
4/16/2013						
10/8/2013						
10/9/2013		0.002661653..				
10/15/2013	0.002661653..					
10/16/2013						
10/22/2013						
4/1/2014						
4/2/2014						
4/9/2014						
4/10/2014	0.001109348..	0.001109348..				
4/11/2014						
4/14/2014						
4/21/2014						
4/22/2014						
4/23/2014						
9/30/2014						
10/1/2014	0.002661653..					
10/2/2014		0.002661653..				
10/3/2014						
10/4/2014						
3/30/2015	0.002609348..					
3/31/2015						
4/1/2015						
4/2/2015						
4/3/2015		0.002609348..				
5/26/2015			0.002670697..	0.002670697..		
6/18/2015			0.002670697.. (D)	0.002670697.. (D)		
7/2/2015			0.002670697..	0.002670697..		
10/6/2015						
10/7/2015						
10/8/2015		0.003062 (J)		0.002661653..		
10/9/2015			0.002661653..			
10/10/2015						
10/11/2015	0.002661653..					
10/12/2015						
10/13/2015						
10/14/2015						
10/15/2015						
3/22/2016				0.002609348..		
3/23/2016						
3/28/2016	0.002609348..					
3/29/2016			0.002609348..			
3/30/2016		0.002609348..				
3/31/2016						
4/4/2016						
4/5/2016						
5/19/2016						
5/20/2016						
5/23/2016	0.002670697..					
5/24/2016		0.002670697..	0.002670697..			
5/25/2016				0.002670697..		
5/26/2016						

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 6/25/2018 1:46 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50 (bg)	GWC-8RR	GWC-6RZ	GWC-8Z	GWC-7Z	GWA-4RZ (bg)
5/27/2016						
5/31/2016					0.002670697..	
6/1/2016						
7/29/2016						
8/1/2016	0.002661653..		0.002661653..			
8/2/2016		0.002661653..		0.002661653..	0.003262 (J)	
8/3/2016						
8/4/2016						
8/5/2016						
8/9/2016						
9/22/2016						
9/23/2016						
9/26/2016	0.002661653..		0.002661653..	0.002661653..		
9/27/2016		0.002661653..			0.002962 (J)	
9/28/2016						
9/29/2016						
9/30/2016						
11/9/2016						
11/10/2016	0.001675558..					
11/11/2016						
11/14/2016			0.001675558..			
11/18/2016						
11/21/2016				0.001675558..	0.002276 (J)	
11/22/2016		0.001675558..				
11/23/2016						
11/28/2016						
1/30/2017	0.001675558..					
1/31/2017						
2/1/2017			0.002609348..		0.003209 (J)	
2/3/2017				0.002609348..		
2/6/2017		0.002609348..				
2/7/2017						
2/8/2017						
2/9/2017						
2/10/2017						
2/13/2017						
2/22/2017						0.002009 (J)
3/30/2017						
4/3/2017						
4/6/2017		0.002609348..	0.002609348..		0.003109 (J)	
4/7/2017	0.002609348..			0.002609348..		0.0009093 (J)
4/10/2017						
4/11/2017						
4/12/2017						
6/9/2017						
6/12/2017	0.002670697..					
6/13/2017			0.002670697..	0.002670697..	0.002571 (J)	
6/14/2017		0.002670697..				0.0007707 (J)
6/15/2017						
6/16/2017						
7/12/2017						0.002670697..
7/14/2017					0.003071 (J)	

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 6/25/2018 1:46 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50 (bg)	GWC-8RR	GWC-6RZ	GWC-8Z	GWC-7Z	GWA-4RZ (bg)
7/20/2017						0.001071 (J)
7/26/2017						
7/28/2017						0.002670697..
8/9/2017						0.001262 (J)
8/10/2017						
8/24/2017						0.0008617 (J)
10/2/2017	0.002661653..					
10/3/2017			0.002661653..	0.002661653..	0.001962 (J)	0.0006617 (J)
10/4/2017		0.002661653..				
10/5/2017						
10/6/2017						
10/9/2017						
3/16/2018	0.002609348..					
3/19/2018						
3/20/2018			0.002609348..	0.0007093 (J)	0.002509 (J)	
3/21/2018		0.0008793 (J)				0.001309 (J)
3/22/2018						
3/23/2018						

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 6/25/2018 1:46 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-1 (bg)	GWA-2 (bg)	GWA-2R (bg)	GWA-3 (bg)	GWA-50 (bg)	GWA-50R (bg)	GWC-10	GWC-10R	GWC-11
8/21/2007							0.021	0.027	0.034
8/22/2007									
8/23/2007	0.02	0.0073	0.0098	0.015					
8/24/2007									
10/23/2007	0.039								
10/24/2007		0.027	0.015						
10/25/2007									
11/1/2007							0.017	0.024	0.036
11/2/2007				0.017					
11/17/2007									
11/18/2007	0.04 (J)	0.13	0.011	0.019					0.036
11/19/2007									
11/20/2007							0.1	0.022	
1/15/2008									
1/16/2008									
1/23/2008									
1/30/2008	0.04						0.035	0.033 (J)	0.031 (J)
1/31/2008		0.0077	0.13 (O)	0.011					
3/5/2008									0.018
3/6/2008							0.042	0.019	
3/10/2008	0.033		0.0078						
3/11/2008		0.015		0.016					
5/6/2008		0.017							
5/7/2008									0.015
5/8/2008								0.017	
5/12/2008							0.0087		
5/13/2008	0.03		0.0077						
5/14/2008				0.013					
12/2/2008									
12/4/2008		0.14	0.0089						
12/5/2008	0.0087			0.021					
12/11/2008									
12/12/2008					0.098	0.016			
12/13/2008							0.12		
12/14/2008								0.02	0.12
4/15/2009	0.023			0.012					
4/16/2009									
4/21/2009		0.018	0.013						
4/23/2009					0.013	0.14 (O)			
4/28/2009									
4/29/2009							0.11	0.017	0.0079
10/6/2009					0.011	0.12 (O)			
10/7/2009	0.15	0.014							
10/8/2009			0.008	0.011					
10/9/2009									
10/13/2009									
10/19/2009									
10/20/2009							0.016		
10/21/2009								0.021	
10/22/2009									0.007
4/20/2010									
4/21/2010			0.01					0.019	0.0074

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 6/25/2018 1:46 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-1 (bg)	GWA-2 (bg)	GWA-2R (bg)	GWA-3 (bg)	GWA-50 (bg)	GWA-50R (bg)	GWC-10	GWC-10R	GWC-11
4/26/2010		0.017					0.016		
4/27/2010					0.016				
4/28/2010				0.0081					
5/3/2010	0.025					0.12 (O)			
5/4/2010									
9/28/2010			0.0036					0.018	0.0068
9/29/2010							0.016		
9/30/2010					0.013				
10/4/2010		0.011							
10/5/2010									
10/6/2010				0.0083					
10/11/2010						0.019			
10/12/2010	0.029								
4/12/2011			0.0084					0.017	0.0089
4/13/2011		0.026					0.012		
4/14/2011					0.011				
4/18/2011									
4/19/2011									
4/20/2011									
4/21/2011				0.0053					
4/26/2011									
4/27/2011	0.026					0.02			
4/28/2011									
10/4/2011			0.0066					0.022	0.012
10/5/2011		0.021			0.015		0.014		
10/12/2011									
10/13/2011				0.0071					
10/17/2011	0.021								
10/18/2011									
10/19/2011						0.014			
4/3/2012			0.0625 (O)					0.0212	0.0169
4/4/2012							0.017		
4/11/2012		0.0311			0.0102				
4/23/2012									
4/24/2012									
4/25/2012									
4/30/2012									
5/1/2012				0.0067		0.0199			
5/2/2012	0.0212								
10/2/2012					0.0091	0.015			
10/3/2012							0.015		0.03
10/8/2012	0.019							0.019	
10/9/2012		0.018	0.01	0.0055					
10/10/2012									
4/2/2013									
4/3/2013							0.018	0.021	0.008
4/8/2013									
4/9/2013					0.01				
4/10/2013						0.016			
4/11/2013			0.021	0.0061					
4/12/2013	0.022								
4/15/2013		0.056							

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 6/25/2018 1:46 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-1 (bg)	GWA-2 (bg)	GWA-2R (bg)	GWA-3 (bg)	GWA-50 (bg)	GWA-50R (bg)	GWC-10	GWC-10R	GWC-11
4/16/2013									
10/8/2013									
10/9/2013									0.0093
10/15/2013		0.018			0.0098		0.018	0.022	
10/16/2013	0.02		0.033	0.0062		0.017			
10/22/2013									
4/1/2014									
4/2/2014									0.031
4/9/2014							0.019	0.02	
4/10/2014			0.021		0.011				
4/11/2014	0.018								
4/14/2014									
4/21/2014									
4/22/2014		0.035				0.017			
4/23/2014				0.0047					
9/30/2014	0.013	0.0041	0.0062						
10/1/2014					0.0033	0.013			
10/2/2014							0.016	0.023	0.035
10/3/2014									
10/4/2014				0.0055					
3/30/2015	0.021	0.036	0.011		0.0043	0.014			
3/31/2015				0.0076					
4/1/2015									0.013
4/2/2015							0.017	0.022	
4/3/2015									
5/26/2015									
6/18/2015									
7/2/2015									
10/6/2015									
10/7/2015									
10/8/2015									
10/9/2015									
10/10/2015							0.014		
10/11/2015					0.0038	0.0093			0.0079
10/12/2015				0.0049				0.028	
10/13/2015	0.012	0.0048	0.0065						
10/14/2015									
10/15/2015									
3/22/2016	0.0182								
3/23/2016		0.0271	0.0206	0.00742 (J)					
3/28/2016					0.0133	0.0155			
3/29/2016									
3/30/2016									
3/31/2016							0.0179	0.0273	
4/4/2016									0.0119
4/5/2016									
5/19/2016	0.0193		0.0109						
5/20/2016		0.0206							
5/23/2016				0.00532 (J)	0.0109				
5/24/2016									
5/25/2016						0.0143			
5/26/2016							0.0186	0.0305	0.0127

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 6/25/2018 1:46 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-1 (bg)	GWA-2 (bg)	GWA-2R (bg)	GWA-3 (bg)	GWA-50 (bg)	GWA-50R (bg)	GWC-10	GWC-10R	GWC-11
5/27/2016									
5/31/2016									
6/1/2016									
7/29/2016	0.0174	0.0275	0.007 (J)	0.0053 (J)					
8/1/2016					0.0058 (J)	0.0129			
8/2/2016									
8/3/2016								0.0284	0.0121
8/4/2016									
8/5/2016							0.0138		
8/9/2016									
9/22/2016			0.0071 (J)	0.0058 (J)					
9/23/2016	0.0168	0.0384							
9/26/2016					0.0092 (J)	0.0177			
9/27/2016									
9/28/2016							0.0153	0.036	0.0112
9/29/2016									
9/30/2016									
11/9/2016	0.0171	0.0266							
11/10/2016			0.0052 (J)	0.0051 (J)	0.0083 (J)				
11/11/2016						0.0117			
11/14/2016									
11/18/2016									
11/21/2016									
11/22/2016							0.0184 (J)	0.0341 (J)	0.0155 (J)
11/23/2016									
11/28/2016									
1/30/2017	0.019				0.0117	0.0113			
1/31/2017		0.0094 (J)	0.0076 (J)	0.0054 (J)					
2/1/2017									
2/3/2017									
2/6/2017									
2/7/2017							0.0215	0.0309	
2/8/2017									0.0115
2/9/2017									
2/10/2017									
2/13/2017									
2/22/2017									
3/30/2017	0.0184	0.0262		0.0049 (J)					
4/3/2017			0.007 (J)			0.0166			
4/6/2017									
4/7/2017					0.0109				
4/10/2017							0.0247	0.0235	<0.0117 (*)
4/11/2017									
4/12/2017									
6/9/2017	0.0174		0.0074 (J)						
6/12/2017		0.0288		<0.01 (*)	<0.01 (*)	0.017			
6/13/2017									
6/14/2017							0.0227	0.0258	
6/15/2017									0.0112
6/16/2017									
7/12/2017									
7/14/2017									

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 6/25/2018 1:46 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-1 (bg)	GWA-2 (bg)	GWA-2R (bg)	GWA-3 (bg)	GWA-50 (bg)	GWA-50R (bg)	GWC-10	GWC-10R	GWC-11
7/20/2017									
7/26/2017									
7/28/2017									
8/9/2017									
8/10/2017									
8/24/2017									
10/2/2017	0.0167	0.0048 (J)	0.0085 (J)		0.0122	0.0157			
10/3/2017									
10/4/2017				0.0047 (J)			0.0172	0.0234	0.0093 (J)
10/5/2017									
10/6/2017									
10/9/2017									
12/28/2017									
3/16/2018	0.016		0.015		0.0084 (J)	0.012			
3/19/2018		0.037		0.0047 (J)					
3/20/2018							0.021		
3/21/2018								0.022	0.012
3/22/2018									
3/23/2018									

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 6/25/2018 1:46 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-11R	GWC-12	GWC-13	GWC-14_14Z	GWC-15R	GWC-15_15Z	GWC-5	GWC-6	GWC-6RZ
8/21/2007	0.01	0.023	0.065						
8/22/2007								0.023	
8/23/2007					0.015		0.017		
8/24/2007				0.0089		0.017			
10/23/2007									
10/24/2007									
10/25/2007							0.023	0.018	
11/1/2007	0.012	0.034	0.019						
11/2/2007				0.0091	0.024	0.011			
11/17/2007				0.021	0.027				
11/18/2007	0.011					0.012 (J)			
11/19/2007		0.043	0.015				0.024		
11/20/2007								0.1	
1/15/2008				0.013	0.022	0.088			
1/16/2008		0.13							
1/23/2008							0.028	0.031	
1/30/2008	0.013								
1/31/2008			0.022						
3/5/2008		0.07	0.012	0.11					
3/6/2008	0.017				0.021				
3/10/2008						0.0077			
3/11/2008							0.022	0.016	
5/6/2008									
5/7/2008	0.0066			0.01	0.023				
5/8/2008									
5/12/2008			0.014				0.021		
5/13/2008		0.039				0.0055			
5/14/2008								0.024	
12/2/2008				0.12	0.024	0.0097			
12/4/2008									
12/5/2008									
12/11/2008							0.022	0.022	
12/12/2008									
12/13/2008		0.13	0.11						
12/14/2008	0.013								
4/15/2009							0.13		
4/16/2009		0.13		0.13					
4/21/2009									
4/23/2009								0.012	
4/28/2009			0.12		0.031	0.0042			
4/29/2009	0.0098								
10/6/2009									
10/7/2009									
10/8/2009									
10/9/2009							0.026	0.11	
10/13/2009									
10/19/2009					0.027				
10/20/2009				0.05		0.0056			
10/21/2009		0.033	0.023						
10/22/2009	0.013								
4/20/2010				0.019					
4/21/2010	0.0069								

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 6/25/2018 1:46 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-11R	GWC-12	GWC-13	GWC-14_14Z	GWC-15R	GWC-15_15Z	GWC-5	GWC-6	GWC-6RZ
4/26/2010									
4/27/2010		0.11			0.051	0.0039			
4/28/2010			0.019						
5/3/2010									
5/4/2010							0.018	0.096	
9/28/2010									
9/29/2010	0.0049			0.017					
9/30/2010									
10/4/2010					0.028				
10/5/2010		0.027	0.018			0.0047			
10/6/2010									
10/11/2010								0.018	
10/12/2010							0.019		
4/12/2011				0.014					
4/13/2011	0.0074								
4/14/2011									
4/18/2011					0.026				
4/19/2011		0.025	0.019			0.0071			
4/20/2011									
4/21/2011									
4/26/2011								0.01	
4/27/2011									
4/28/2011							0.015		
10/4/2011	0.0062			0.017					
10/5/2011									
10/12/2011		0.025			0.026	0.0098			
10/13/2011									
10/17/2011									
10/18/2011			0.025					0.012	
10/19/2011							0.016		
4/3/2012									
4/4/2012	0.0091			0.0182					
4/11/2012									
4/23/2012					0.0224				
4/24/2012		0.027							
4/25/2012			0.024			0.0088			
4/30/2012									
5/1/2012									
5/2/2012							0.0191	0.0119	
10/2/2012		0.013	0.019						
10/3/2012	0.0089								
10/8/2012								0.01	
10/9/2012							0.019		
10/10/2012				0.048	0.024	0.0093			
4/2/2013		0.031	0.021						
4/3/2013	0.012								
4/8/2013									
4/9/2013									
4/10/2013								0.013	
4/11/2013							0.013		
4/12/2013									
4/15/2013				0.03	0.029				

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 6/25/2018 1:46 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-11R	GWC-12	GWC-13	GWC-14_14Z	GWC-15R	GWC-15_15Z	GWC-5	GWC-6	GWC-6RZ
4/16/2013						0.0098			
10/8/2013			0.027					0.014	
10/9/2013	0.0079	0.025							
10/15/2013									
10/16/2013							0.017		
10/22/2013				0.033	0.022	0.0097			
4/1/2014		0.023	0.023						
4/2/2014	0.0086								
4/9/2014									
4/10/2014									
4/11/2014									
4/14/2014								0.01	
4/21/2014				0.033	0.025	0.008			
4/22/2014									
4/23/2014							0.015		
9/30/2014				0.027	0.022	0.0074			
10/1/2014			0.014						
10/2/2014	0.01	0.025							
10/3/2014							0.02	0.014	
10/4/2014									
3/30/2015									
3/31/2015							0.014		
4/1/2015	0.019	0.025	0.027					0.013	
4/2/2015									
4/3/2015				0.13	0.022	0.0076			
5/26/2015									0.016
6/18/2015									0.015 (D)
7/2/2015									0.014
10/6/2015						0.0088			
10/7/2015				0.047	0.023				
10/8/2015									
10/9/2015								0.008	0.012
10/10/2015									
10/11/2015	0.014								
10/12/2015							0.017		
10/13/2015									
10/14/2015		0.027							
10/15/2015			0.033						
3/22/2016									
3/23/2016									
3/28/2016							0.0173		
3/29/2016								0.0239 (J)	0.000768 (J)
3/30/2016									
3/31/2016									
4/4/2016	0.0176	0.0285	0.027						
4/5/2016				0.0279	0.0308	0.00153 (J)			
5/19/2016									
5/20/2016									
5/23/2016									
5/24/2016								0.00902 (J)	0.00847 (J)
5/25/2016							0.0175		
5/26/2016	0.0195								

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 6/25/2018 1:46 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-11R	GWC-12	GWC-13	GWC-14_14Z	GWC-15R	GWC-15_15Z	GWC-5	GWC-6	GWC-6RZ
5/27/2016		0.0257							
5/31/2016			0.0283		0.0255	0.00589 (J)			
6/1/2016				0.0249					
7/29/2016									
8/1/2016							0.0145	0.0091 (J)	0.0086 (J)
8/2/2016									
8/3/2016		0.0237							
8/4/2016	0.0151		0.0358		0.0227				
8/5/2016									
8/9/2016				0.0268					
9/22/2016									
9/23/2016									
9/26/2016								0.0124	0.0086 (J)
9/27/2016							0.0139		
9/28/2016	0.0132								
9/29/2016			0.0437		0.0258				
9/30/2016		0.0279							
11/9/2016									
11/10/2016									
11/11/2016							0.0135		
11/14/2016									0.0083 (J)
11/18/2016								0.0117	
11/21/2016									
11/22/2016	0.0186 (J)	0.0286 (J)							
11/23/2016					0.0263 (J)	<0.05 (*)			
11/28/2016			0.0419 (J)	<0.05 (*)					
1/30/2017									
1/31/2017							0.0153		
2/1/2017								0.0086 (J)	0.0096 (J)
2/3/2017									
2/6/2017									
2/7/2017									
2/8/2017	0.015								
2/9/2017			0.0472	0.0119					
2/10/2017					0.025	0.0233			
2/13/2017		0.0313							
2/22/2017									
3/30/2017									
4/3/2017							0.0135		
4/6/2017								0.0083 (J)	0.0087 (J)
4/7/2017									
4/10/2017	0.0172								
4/11/2017		0.0254		0.0084 (D)		0.0162			
4/12/2017			0.0383		0.026				
6/9/2017									
6/12/2017							0.0154		
6/13/2017								<0.01 (*)	<0.01 (*)
6/14/2017		0.0241		<0.01 (*)					
6/15/2017	0.0167				0.0244	0.0148			
6/16/2017			0.0457						
7/12/2017				0.0105		0.0166			
7/14/2017									

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 6/25/2018 1:46 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-11R	GWC-12	GWC-13	GWC-14_14Z	GWC-15R	GWC-15_15Z	GWC-5	GWC-6	GWC-6RZ
7/20/2017									
7/26/2017						0.0146			
7/28/2017									
8/9/2017									
8/10/2017									
8/24/2017									
10/2/2017									
10/3/2017							0.0138	0.0084 (J)	0.0098 (J)
10/4/2017	0.0156	0.0256							
10/5/2017				0.0099 (J)					
10/6/2017					0.0254	0.015			
10/9/2017			0.0406						
12/28/2017									
3/16/2018									
3/19/2018							0.013	0.0079 (J)	
3/20/2018									0.0088 (J)
3/21/2018			0.032						
3/22/2018	0.017	0.024		0.011					
3/23/2018					0.021	0.013			

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 6/25/2018 1:46 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-7Z	GWC-8RR	GWC-8Z	GWC-9	GWA-4RZ (bg)	GWC-13R_13RZ
8/21/2007						0.0095
8/22/2007						
8/23/2007				0.043		
8/24/2007						
10/23/2007						
10/24/2007						
10/25/2007						
11/1/2007				0.032		0.02
11/2/2007						
11/17/2007						
11/18/2007						
11/19/2007				0.049 (J)		0.023
11/20/2007						
1/15/2008				0.12		
1/16/2008						
1/23/2008						
1/30/2008						
1/31/2008						0.028
3/5/2008						0.022
3/6/2008				0.075		
3/10/2008						
3/11/2008						
5/6/2008						
5/7/2008						0.019
5/8/2008						
5/12/2008						
5/13/2008				0.055		
5/14/2008						
12/2/2008						
12/4/2008						
12/5/2008						
12/11/2008						
12/12/2008				0.16		0.19 (O)
12/13/2008						
12/14/2008						
4/15/2009						
4/16/2009				0.15		
4/21/2009						
4/23/2009						
4/28/2009						
4/29/2009						0.14 (O)
10/6/2009						
10/7/2009						
10/8/2009						
10/9/2009						
10/13/2009				0.05		
10/19/2009						
10/20/2009						
10/21/2009						0.034
10/22/2009						
4/20/2010						
4/21/2010				0.039		

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 6/25/2018 1:47 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-7Z	GWC-8RR	GWC-8Z	GWC-9	GWA-4RZ (bg)	GWC-13R_13RZ
4/26/2010						
4/27/2010						
4/28/2010						0.11 (O)
5/3/2010						
5/4/2010						
9/28/2010						
9/29/2010				0.033		
9/30/2010						
10/4/2010						
10/5/2010						
10/6/2010						0.018
10/11/2010						
10/12/2010						
4/12/2011						
4/13/2011				0.033		
4/14/2011						
4/18/2011						
4/19/2011						
4/20/2011						0.015
4/21/2011						
4/26/2011						
4/27/2011						
4/28/2011						
10/4/2011						
10/5/2011				0.035		
10/12/2011						0.019
10/13/2011						
10/17/2011						
10/18/2011		0.015				
10/19/2011						
4/3/2012						
4/4/2012				0.0422		
4/11/2012						
4/23/2012						
4/24/2012						
4/25/2012						0.0158
4/30/2012		0.0192				
5/1/2012						
5/2/2012						
10/2/2012						0.036
10/3/2012		0.017				
10/8/2012				0.029		
10/9/2012						
10/10/2012						
4/2/2013						0.039
4/3/2013						
4/8/2013		0.018		0.042		
4/9/2013						
4/10/2013						
4/11/2013						
4/12/2013						
4/15/2013						

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 6/25/2018 1:47 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-7Z	GWC-8RR	GWC-8Z	GWC-9	GWA-4RZ (bg)	GWC-13R_13RZ
4/16/2013						
10/8/2013						0.016
10/9/2013		0.021		0.04		
10/15/2013						
10/16/2013						
10/22/2013						
4/1/2014						0.017
4/2/2014						
4/9/2014				0.038		
4/10/2014		0.019				
4/11/2014						
4/14/2014						
4/21/2014						
4/22/2014						
4/23/2014						
9/30/2014				0.038		
10/1/2014						0.018
10/2/2014		0.014				
10/3/2014						
10/4/2014						
3/30/2015						
3/31/2015						0.021
4/1/2015						
4/2/2015				0.039		
4/3/2015		0.014				
5/26/2015			0.06			
6/18/2015			0.047 (D)			
7/2/2015			0.04			
10/6/2015						
10/7/2015						
10/8/2015		0.024	0.032			
10/9/2015						
10/10/2015				0.038 (D)		
10/11/2015						
10/12/2015						
10/13/2015						
10/14/2015						0.013
10/15/2015						
3/22/2016			0.0263			
3/23/2016						
3/28/2016						
3/29/2016						
3/30/2016		0.0163		0.0412		
3/31/2016						
4/4/2016						0.0222
4/5/2016						
5/19/2016						
5/20/2016						
5/23/2016						
5/24/2016		0.0137				
5/25/2016			0.0178			
5/26/2016				0.0357		

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 6/25/2018 1:47 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-7Z	GWC-8RR	GWC-8Z	GWC-9	GWA-4RZ (bg)	GWC-13R_13RZ
5/27/2016						
5/31/2016	0.0178					
6/1/2016						0.0283
7/29/2016						
8/1/2016						
8/2/2016	0.0394	0.0152	0.0265			
8/3/2016						
8/4/2016						
8/5/2016				0.03		
8/9/2016						
9/22/2016						
9/23/2016						
9/26/2016			0.0267			
9/27/2016	0.032	0.0147				
9/28/2016				0.0308		
9/29/2016						
9/30/2016						
11/9/2016						
11/10/2016						
11/11/2016						
11/14/2016						
11/18/2016						
11/21/2016	0.0316 (J)		0.0309 (J)	0.0356 (J)		
11/22/2016		0.0174 (J)				
11/23/2016						
11/28/2016						
1/30/2017						
1/31/2017						
2/1/2017	0.0264					
2/3/2017			0.0289			
2/6/2017		0.0144		0.0391		
2/7/2017						
2/8/2017						
2/9/2017						
2/10/2017						
2/13/2017						
2/22/2017					0.0273	0.0561
3/30/2017						
4/3/2017						
4/6/2017	0.0245	0.0149		0.0402		
4/7/2017			0.029		0.024	
4/10/2017						
4/11/2017						0.0748
4/12/2017						
6/9/2017						
6/12/2017						
6/13/2017	0.0247		0.027	0.0394		
6/14/2017		0.0139			0.027	
6/15/2017						
6/16/2017						0.0661
7/12/2017					0.027	0.0932
7/14/2017	0.0245					

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 6/25/2018 1:47 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-7Z	GWC-8RR	GWC-8Z	GWC-9	GWA-4RZ (bg)	GWC-13R_13RZ
7/20/2017					0.0304	
7/26/2017						
7/28/2017					0.0269	0.0808
8/9/2017					0.0254	
8/10/2017						0.0743
8/24/2017					0.0285	
10/2/2017						
10/3/2017	0.0218		0.0292	0.0381	0.0294	
10/4/2017		0.015				
10/5/2017						
10/6/2017						0.0699
10/9/2017						
12/28/2017						0.082 (Y)
3/16/2018						
3/19/2018						
3/20/2018	0.024		0.029	0.039		
3/21/2018		0.015			0.03	
3/22/2018						
3/23/2018						0.086

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 6/25/2018 1:47 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-15_15Z	GWA-2 (bg)	GWC-15R	GWC-14_14Z	GWA-2R (bg)	GWC-9	GWA-1 (bg)	GWC-13	GWC-13R_13RZ
9/30/2014	0.010842578..	0.010842578..	0.010842578..	0.010842578..	0.010842578..	0.01032 (J)	0.010842578..		
10/1/2014								0.010842578..	0.010842578..
10/2/2014									
10/3/2014									
10/4/2014									
3/30/2015		0.010734461..			0.010734461..		0.01037 (J)		
3/31/2015									0.010734461..
4/1/2015								0.0103 (J)	
4/2/2015						0.01036 (J)			
4/3/2015	0.010734461..		0.010734461..	0.010734461..					
5/26/2015									
6/18/2015									
7/2/2015									
10/6/2015	0.010842578..								
10/7/2015			0.010842578..	0.010842578..					
10/8/2015									
10/9/2015									
10/10/2015						0.01044 (JD)			
10/11/2015									
10/12/2015									
10/13/2015		0.010842578..			0.010842578..		0.010842578..		
10/14/2015									0.010842578..
10/15/2015								0.01037 (J)	
3/22/2016							0.011584461..		
3/23/2016		0.011584461..			0.011584461..				
3/28/2016									
3/29/2016									
3/30/2016						0.011584461..			
3/31/2016									
4/4/2016								0.011584461..	0.011584461.. (D)
4/5/2016	0.011584461..		0.011584461..	0.011584461..					
5/19/2016					0.011412000..		0.011412000..		
5/20/2016		0.011412000..							
5/23/2016									
5/24/2016									
5/25/2016									
5/26/2016						0.011412000..			
5/27/2016									
5/31/2016	0.011412000..		0.011412000..					0.011412000..	
6/1/2016				0.011412000..					0.011412000.. (D)
7/29/2016		0.011412000..			0.011412000..		0.011412000..		
8/1/2016									
8/2/2016									
8/3/2016									
8/4/2016			0.011692578..					0.011692578..	
8/5/2016						0.011692578..			
8/9/2016				0.011692578..					
9/22/2016					0.011692578..				
9/23/2016		0.011692578..					0.011692578..		
9/26/2016									
9/27/2016									
9/28/2016						0.011692578..			

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 6/25/2018 1:47 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-15_15Z	GWA-2 (bg)	GWC-15R	GWC-14_14Z	GWA-2R (bg)	GWC-9	GWA-1 (bg)	GWC-13	GWC-13R_13RZ
9/29/2016			0.011692578..					0.01028 (J)	
9/30/2016									
11/9/2016		0.011333505..					0.011333505.. (*)		
11/10/2016					0.011333505..				
11/11/2016									
11/14/2016									
11/18/2016									
11/21/2016						0.011333505..			
11/22/2016									
11/23/2016	0.011333505..		0.011333505..						
11/28/2016				0.011333505..				0.011333505..	
1/30/2017							0.011333505..		
1/31/2017		0.011333505..			0.011333505..				
2/1/2017									
2/3/2017									
2/6/2017						0.01028 (J)			
2/7/2017									
2/8/2017									
2/9/2017				0.01018 (J)				0.011584461..	
2/10/2017	0.011584461..		0.011584461..						
2/13/2017									
2/22/2017									0.011584461..
3/30/2017		0.011584461..					0.011584461..		
4/3/2017					0.011584461..				
4/6/2017						0.01028 (J)			
4/7/2017									
4/10/2017									
4/11/2017	0.011584461..			0.011584461..					0.011584461..
4/12/2017			0.011584461..					0.01018 (J)	
6/9/2017					0.011412000..		0.011412000..		
6/12/2017		0.011412000..							
6/13/2017						0.010112 (J)			
6/14/2017				0.011412000..					
6/15/2017	0.011412000..		0.011412000..						
6/16/2017								0.010002 (J)	0.011412000..
7/12/2017	0.011412000..			0.011412000..					0.011412000..
7/14/2017									
7/20/2017									
7/26/2017	0.011412000..								
7/28/2017									0.011412000..
8/9/2017									
8/10/2017									0.011692578..
8/24/2017									
10/2/2017		0.011692578..			0.011692578..		0.011692578..		
10/3/2017						0.01029 (J)			
10/4/2017									
10/5/2017				0.011692578..					
10/6/2017	0.011692578..		0.011692578..						0.011692578..
10/9/2017								0.011692578..	
3/16/2018					0.011584461..		0.011584461..		
3/19/2018		0.011584461..							
3/20/2018						0.0103 (J)			

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 6/25/2018 1:47 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-15_15Z	GWA-2 (bg)	GWC-15R	GWC-14_14Z	GWA-2R (bg)	GWC-9	GWA-1 (bg)	GWC-13	GWC-13R_13RZ
3/21/2018								0.011584461..	
3/22/2018				0.01111 (D)					
3/23/2018	0.011584461..		0.011584461..						0.011584461..

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 6/25/2018 1:47 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50R (bg)	GWA-50 (bg)	GWC-11	GWC-12	GWC-11R	GWC-8RR	GWC-10	GWC-10R	GWC-5
9/30/2014									
10/1/2014	0.010842578..	0.010842578..							
10/2/2014			0.010842578..	0.010842578..	0.010842578..	0.010842578..	0.010842578..	0.010842578..	
10/3/2014									0.01092 (J)
10/4/2014									
3/30/2015	0.01028 (J)	0.010734461..							
3/31/2015									0.01065 (J)
4/1/2015			0.010734461..	0.010734461..	0.010734461..				
4/2/2015							0.01023 (J)	0.010734461..	
4/3/2015						0.010734461..			
5/26/2015									
6/18/2015									
7/2/2015									
10/6/2015									
10/7/2015									
10/8/2015						0.01044 (J)			
10/9/2015									
10/10/2015							0.01028 (J)		
10/11/2015	0.010842578..	0.010842578..	0.010842578..		0.010842578..				
10/12/2015								0.010842578..	0.01073 (J)
10/13/2015									
10/14/2015				0.010842578..					
10/15/2015									
3/22/2016									
3/23/2016									
3/28/2016	0.011584461..	0.011584461..							0.011584461..
3/29/2016									
3/30/2016						0.011584461..			
3/31/2016							0.011584461..	0.011584461..	
4/4/2016			0.011584461..	0.011584461..	0.011584461..				
4/5/2016									
5/19/2016									
5/20/2016									
5/23/2016		0.011412000..							
5/24/2016						0.011412000..			
5/25/2016	0.011412000..								0.011412000..
5/26/2016			0.011412000..		0.011412000..		0.011412000..	0.011412000..	
5/27/2016				0.011412000..					
5/31/2016									
6/1/2016									
7/29/2016									
8/1/2016	0.011692578..	0.011692578..							0.01079 (J)
8/2/2016						0.011692578..			
8/3/2016			0.011692578..	0.011692578..				0.011692578..	
8/4/2016					0.011692578..				
8/5/2016							0.011692578..		
8/9/2016									
9/22/2016									
9/23/2016									
9/26/2016	0.011692578..	0.011692578..							
9/27/2016						0.011692578..			0.01089 (J)
9/28/2016			0.011692578..		0.011692578..		0.011692578..	0.011692578..	

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 6/25/2018 1:47 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50R (bg)	GWA-50 (bg)	GWC-11	GWC-12	GWC-11R	GWC-8RR	GWC-10	GWC-10R	GWC-5
9/29/2016									
9/30/2016				0.011692578..					
11/9/2016									
11/10/2016		0.011333505..							
11/11/2016	0.011333505..								0.01053 (J)
11/14/2016									
11/18/2016									
11/21/2016									
11/22/2016			0.011333505..	0.011333505..	0.011333505..	0.011333505..	0.011333505..	0.011333505..	
11/23/2016									
11/28/2016									
1/30/2017	0.011333505..	0.011333505..							
1/31/2017									0.01053 (J)
2/1/2017									
2/3/2017									
2/6/2017						0.011584461..			
2/7/2017							0.011584461..	0.011584461..	
2/8/2017			0.011584461..		0.011584461..				
2/9/2017									
2/10/2017									
2/13/2017				0.011584461..					
2/22/2017									
3/30/2017									
4/3/2017	0.011584461..								0.01078 (J)
4/6/2017						0.011584461..			
4/7/2017		0.011584461..							
4/10/2017			0.011584461..		0.011584461..		0.011584461..	0.011584461..	
4/11/2017				0.011584461..					
4/12/2017									
6/9/2017									
6/12/2017	0.011412000..	0.011412000..							0.010312 (J)
6/13/2017									
6/14/2017				0.011412000..		0.011412000..	0.011412000..	0.011412000..	
6/15/2017			0.011412000..		0.011412000..				
6/16/2017									
7/12/2017									
7/14/2017									
7/20/2017									
7/26/2017									
7/28/2017									
8/9/2017									
8/10/2017									
8/24/2017									
10/2/2017	0.011692578..	0.011692578..							
10/3/2017									0.01079 (J)
10/4/2017			0.011692578..	0.011692578..	0.011692578..	0.011692578..	0.011692578..	0.011692578..	
10/5/2017									
10/6/2017									
10/9/2017									
3/16/2018	0.011584461..	0.011584461..							
3/19/2018									0.01058 (J)
3/20/2018							0.01027 (J)		

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 6/25/2018 1:47 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50R (bg)	GWA-50 (bg)	GWC-11	GWC-12	GWC-11R	GWC-8RR	GWC-10	GWC-10R	GWC-5
3/21/2018			0.011584461..			0.011584461..		0.011584461..	
3/22/2018				0.011584461..	0.011584461..				
3/23/2018									

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 6/25/2018 1:47 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-6	GWA-3 (bg)	GWC-8Z	GWC-6RZ	GWC-7Z	GWA-4RZ (bg)
9/30/2014						
10/1/2014						
10/2/2014						
10/3/2014	0.01043 (J)					
10/4/2014		0.010842578..				
3/30/2015						
3/31/2015		0.010734461..				
4/1/2015	0.01029 (J)					
4/2/2015						
4/3/2015						
5/26/2015			0.010562000..	0.01 (J)		
6/18/2015			0.011212 (D)	0.010562000.. (D)		
7/2/2015			0.010562000..	0.010562000..		
10/6/2015						
10/7/2015						
10/8/2015			0.010842578..			
10/9/2015	0.010842578..			0.010842578..		
10/10/2015						
10/11/2015						
10/12/2015		0.010842578..				
10/13/2015						
10/14/2015						
10/15/2015						
3/22/2016			0.011584461..			
3/23/2016		0.011584461..				
3/28/2016						
3/29/2016	0.011584461..			0.011584461..		
3/30/2016						
3/31/2016						
4/4/2016						
4/5/2016						
5/19/2016						
5/20/2016						
5/23/2016		0.011412000..				
5/24/2016	0.011412000..			0.011412000..		
5/25/2016			0.011412000..			
5/26/2016						
5/27/2016						
5/31/2016					0.011412000..	
6/1/2016						
7/29/2016		0.011412000..				
8/1/2016	0.011692578..			0.011692578..		
8/2/2016			0.011692578..		0.011692578..	
8/3/2016						
8/4/2016						
8/5/2016						
8/9/2016						
9/22/2016		0.011692578..				
9/23/2016						
9/26/2016	0.011692578..		0.011692578..	0.011692578..		
9/27/2016					0.011692578..	
9/28/2016						

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 6/25/2018 1:47 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-6	GWA-3 (bg)	GWC-8Z	GWC-6RZ	GWC-7Z	GWA-4RZ (bg)
9/29/2016						
9/30/2016						
11/9/2016						
11/10/2016		0.011333505..				
11/11/2016						
11/14/2016				0.011333505..		
11/18/2016	0.011333505..					
11/21/2016			0.011333505..		0.011333505..	
11/22/2016						
11/23/2016						
11/28/2016						
1/30/2017						
1/31/2017		0.011333505..				
2/1/2017	0.011584461..			0.011584461..	0.011584461..	
2/3/2017			0.011584461..			
2/6/2017						
2/7/2017						
2/8/2017						
2/9/2017						
2/10/2017						
2/13/2017						
2/22/2017						0.011584461..
3/30/2017		0.011584461..				
4/3/2017						
4/6/2017	0.011584461..			0.011584461..	0.011584461..	
4/7/2017			0.011584461..			0.011584461..
4/10/2017						
4/11/2017						
4/12/2017						
6/9/2017						
6/12/2017		0.011412000..				
6/13/2017	0.011412000..		0.011412000..	0.011412000..	0.011412000..	
6/14/2017						0.011412000..
6/15/2017						
6/16/2017						
7/12/2017						0.011412000..
7/14/2017					0.011412000..	
7/20/2017						0.011412000..
7/26/2017						
7/28/2017						0.011412000..
8/9/2017						0.011692578..
8/10/2017						
8/24/2017						0.011692578..
10/2/2017						
10/3/2017	0.011692578..		0.011692578..	0.011692578..	0.011692578..	0.011692578..
10/4/2017		0.011692578..				
10/5/2017						
10/6/2017						
10/9/2017						
3/16/2018						
3/19/2018	0.01015 (J)	0.011584461..				
3/20/2018			0.011584461..	0.01015 (J)	0.011584461..	

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 6/25/2018 1:47 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

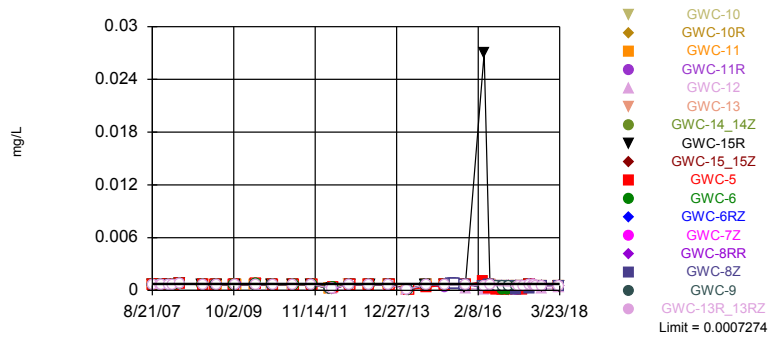
	GWC-6	GWA-3 (bg)	GWC-8Z	GWC-6RZ	GWC-7Z	GWA-4RZ (bg)
3/21/2018						0.011584461..
3/22/2018						
3/23/2018						

Sanitas™ v.9.5.32 Sanitas software licensed to AMEC. EPA
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 184 background values. 98.91% NDs. Report alpha = 0.08458. Individual comparison alpha = 0.005185. Most recent point for each compliance well compared to limit. Data were deseasonalized.

Constituent: Cadmium Analysis Run 6/25/2018 1:29 PM View: Cell1&2_metals_interwell

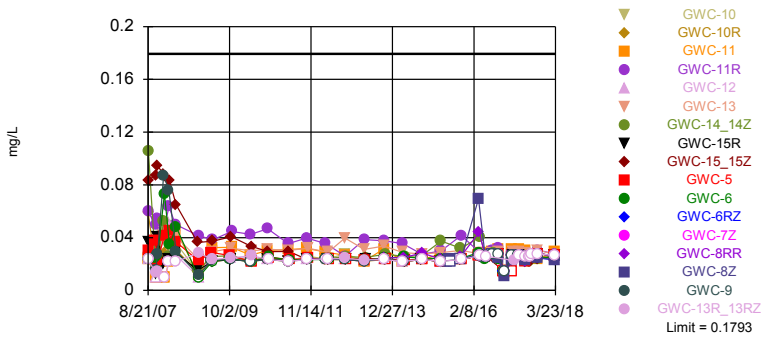
Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

Sanitas™ v.9.5.32 Sanitas software licensed to AMEC. EPA
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 183 background values. 73.22% NDs. Report alpha = 0.085. Individual comparison alpha = 0.005212. Most recent point for each compliance well compared to limit. Data were deseasonalized.

Constituent: Chromium Analysis Run 6/25/2018 1:29 PM View: Cell1&2_metals_interwell

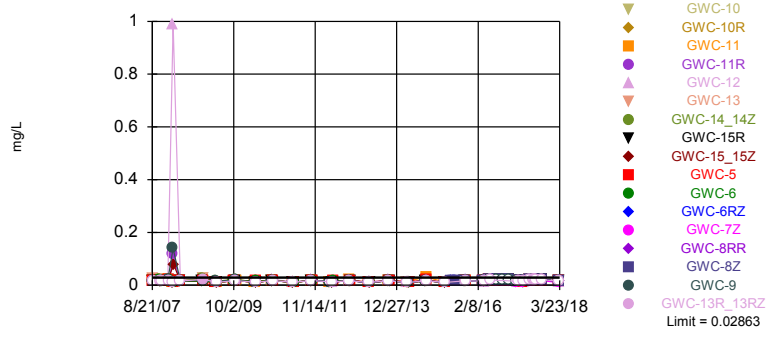
Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

Sanitas™ v.9.5.32 Sanitas software licensed to AMEC. EPA
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 183 background values. 77.6% NDs. Report alpha = 0.085. Individual comparison alpha = 0.005212. Most recent point for each compliance well compared to limit. Data were deseasonalized.

Constituent: Cobalt Analysis Run 6/25/2018 1:30 PM View: Cell1&2_metals_interwell

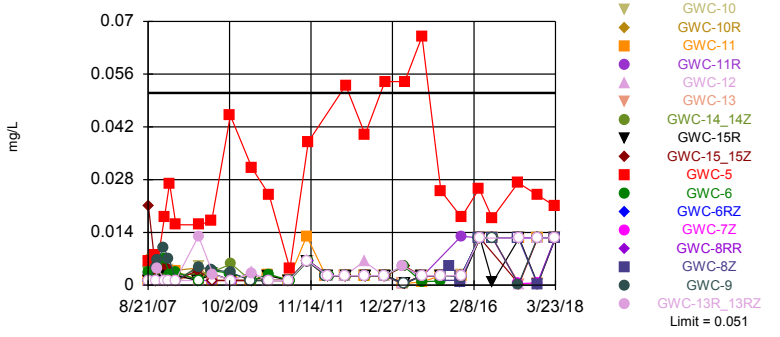
Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

Sanitas™ v.9.5.32 Sanitas software licensed to AMEC. EPA
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.05 alpha level. Limit is highest of 145 background values. 38.62% NDs. Report alpha = 0.1049. Individual comparison alpha = 0.0065. Most recent point for each compliance well compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Copper Analysis Run 6/25/2018 1:30 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 6/25/2018 1:47 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-10	GWC-11	GWC-11R	GWC-10R	GWC-12	GWC-13	GWC-13R_13RZ	GWC-6	GWA-3 (bg)
8/21/2007	0.000653582..	0.000653582..	0.000653582..	0.000653582..	0.000653582..	0.000653582..	0.000653582..		
8/22/2007								0.000653582..	
8/23/2007									0.000653582..
8/24/2007									
10/23/2007									
10/24/2007									
10/25/2007								0.000653582..	
11/1/2007	0.000650776..	0.000650776..	0.000650776..	0.000650776..	0.000650776..	0.000650776..	0.000650776..		
11/2/2007									0.000650776..
11/17/2007									
11/18/2007		0.000650776..	0.000650776..						0.000650776..
11/19/2007					0.000650776..	0.000650776..	0.000650776..		
11/20/2007	0.000650776..			0.000650776..				0.000650776..	
1/15/2008									
1/16/2008					0.000650776..				
1/23/2008								0.000650776..	
1/30/2008	0.000650776..	0.000650776..	0.000650776..	0.000650776..					
1/31/2008						0.000650776..	0.000650776..		0.000650776..
3/5/2008		0.000615483..			0.000615483..	0.000615483..	0.000615483..		
3/6/2008	0.000615483..		0.000615483..	0.000615483..					
3/10/2008									
3/11/2008								0.000615483..	0.000615483..
5/6/2008									
5/7/2008		0.000727447..	0.000727447..				0.000727447..		
5/8/2008				0.000727447..					
5/12/2008	0.000727447..					0.000727447..			
5/13/2008					0.000727447..				
5/14/2008								0.000727447..	0.000727447..
12/2/2008									
12/4/2008									
12/5/2008									0.000650776..
12/11/2008								0.000650776..	
12/12/2008							0.000650776..		
12/13/2008	0.000650776..				0.000650776..	0.000650776..			
12/14/2008		0.000650776..	0.000650776..	0.000650776..					
4/15/2009									0.000615483..
4/16/2009					0.000615483..				
4/21/2009									
4/23/2009								0.000615483..	
4/28/2009						0.000615483..			
4/29/2009	0.000615483..	0.000615483..	0.000615483..	0.000615483..			0.000615483..		
10/6/2009									
10/7/2009									
10/8/2009									0.000653582..
10/9/2009								0.000653582..	
10/13/2009									
10/19/2009									
10/20/2009	0.000653582..								
10/21/2009				0.000653582..	0.000653582..	0.000653582..	0.000653582..		
10/22/2009		0.000653582..	0.000653582..						
4/20/2010									
4/21/2010		0.000615483..	0.000615483..	0.000615483..					

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 6/25/2018 1:47 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-10	GWC-11	GWC-11R	GWC-10R	GWC-12	GWC-13	GWC-13R_13RZ	GWC-6	GWA-3 (bg)
4/26/2010	0.000615483..								
4/27/2010					0.000615483..				
4/28/2010						0.000615483..	0.000615483..		0.000615483..
5/3/2010									
5/4/2010								0.000727447..	
9/28/2010		0.000653582..		0.000653582..					
9/29/2010	0.000653582..		0.000653582..						
9/30/2010									
10/4/2010									
10/5/2010					0.000653582..	0.000653582..			
10/6/2010							0.000653582..		0.000653582..
10/11/2010								0.000653582..	
10/12/2010									
4/12/2011		0.000615483..		0.000615483..					
4/13/2011	0.000615483..		0.000615483..						
4/14/2011									
4/18/2011									
4/19/2011					0.000615483..	0.000615483..			
4/20/2011							0.000615483..		
4/21/2011									0.000615483..
4/26/2011								0.000615483..	
4/27/2011									
4/28/2011									
10/4/2011		0.000653582..	0.000653582..	0.000653582..					
10/5/2011	0.000653582..								
10/12/2011					0.000653582..		0.000653582..		
10/13/2011									0.000653582..
10/17/2011									
10/18/2011						0.000653582..		0.000653582..	
10/19/2011									
4/3/2012		0.000215483..		0.000215483..					
4/4/2012	0.000215483..		0.000215483..						
4/11/2012									
4/23/2012									
4/24/2012					0.000215483..				
4/25/2012						0.000215483..	0.000215483..		
4/30/2012									
5/1/2012									0.000327447..
5/2/2012								0.000327447..	
10/2/2012					0.000653582..	0.000653582..	0.000653582..		
10/3/2012	0.000653582..	0.000653582..	0.000653582..						
10/8/2012				0.000653582..				0.000653582..	
10/9/2012									0.000653582..
10/10/2012									
4/2/2013					0.000615483..	0.000615483..	0.000615483..		
4/3/2013	0.000615483..	0.000615483..	0.000615483..	0.000615483..					
4/8/2013									
4/9/2013									
4/10/2013								0.000615483..	
4/11/2013									0.000615483..
4/12/2013									
4/15/2013									

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 6/25/2018 1:47 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-10	GWC-11	GWC-11R	GWC-10R	GWC-12	GWC-13	GWC-13R_13RZ	GWC-6	GWA-3 (bg)
4/16/2013									
10/8/2013						0.000653582..	0.000653582..	0.000653582..	
10/9/2013		0.000653582..	0.000653582..		0.000653582..				
10/15/2013	0.000653582..			0.000653582..					
10/16/2013									0.000653582..
10/22/2013									
4/1/2014					9.048356719..	9.048356719..	9.048356719..		
4/2/2014		9.048356719..	9.048356719..						
4/9/2014	9.048356719..			9.048356719..					
4/10/2014									
4/11/2014									
4/14/2014								9.048356719..	
4/21/2014									
4/22/2014									
4/23/2014									9.048356719..
9/30/2014									
10/1/2014						0.000653582..	0.000653582..		
10/2/2014	0.000653582..	0.000653582..	0.000653582..	0.000653582..	0.000653582..				
10/3/2014								0.000653582..	
10/4/2014									0.000653582..
3/30/2015									
3/31/2015							0.000615483..		0.000615483..
4/1/2015		0.000615483..	0.0002955 (J)		0.000615483..	0.000615483..		0.000615483..	
4/2/2015	0.000615483..			0.000615483..					
4/3/2015									
5/26/2015									
6/18/2015									
7/2/2015									
10/6/2015									
10/7/2015									
10/8/2015									
10/9/2015								0.000653582..	
10/10/2015	0.000653582..								
10/11/2015		0.000653582..	0.0005636 (J)						
10/12/2015				0.000653582..					0.000653582..
10/13/2015									
10/14/2015					0.0002536 (J)		0.000653582..		
10/15/2015						0.000653582..			
3/22/2016									
3/23/2016									0.000465483..
3/28/2016									
3/29/2016								0.000465483..	
3/30/2016									
3/31/2016	0.000465483..			0.000465483..					
4/4/2016		0.000465483..	0.000465483..		0.0001015 (J)	0.000465483..	0.000465483..		
4/5/2016									
5/19/2016									
5/20/2016									
5/23/2016									0.000577447..
5/24/2016								0.000577447..	
5/25/2016									
5/26/2016	0.000577447..	0.000577447..	0.000577447..	0.000577447..					

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 6/25/2018 1:47 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-10	GWC-11	GWC-11R	GWC-10R	GWC-12	GWC-13	GWC-13R_13RZ	GWC-6	GWA-3 (bg)
5/27/2016					0.0002084 (J)				
5/31/2016						0.000577447..			
6/1/2016							0.000577447..		
7/29/2016									0.000577447..
8/1/2016								0.000503582..	
8/2/2016									
8/3/2016		0.000503582..		0.000503582..	0.000503582..				
8/4/2016			0.000503582..			0.000503582..			
8/5/2016	0.000503582..								
8/9/2016									
9/22/2016									0.000503582..
9/23/2016									
9/26/2016								0.00008358 (J)	
9/27/2016									
9/28/2016	0.000503582..	0.000503582..	0.000503582..	0.0002036 (J)					
9/29/2016						0.000503582..			
9/30/2016					0.00009358 (J)				
11/9/2016									
11/10/2016									0.000500776..
11/11/2016									
11/14/2016									
11/18/2016								0.00008078 (J)	
11/21/2016									
11/22/2016	0.000500776..	0.000500776..	0.000500776..	0.000500776..	0.000500776..				
11/23/2016									
11/28/2016						0.000500776..			
1/30/2017									
1/31/2017									0.000500776..
2/1/2017								0.000465483..	
2/3/2017									
2/6/2017									
2/7/2017	0.000465483..			0.000465483..					
2/8/2017		0.000465483..	0.000465483..						
2/9/2017						0.000465483..			
2/10/2017									
2/13/2017					0.00006548 (J)				
2/22/2017							0.000465483..		
3/30/2017									0.000465483..
4/3/2017									
4/6/2017								0.000465483..	
4/7/2017									
4/10/2017	0.000465483..	0.000465483..	0.000465483..	0.000465483..					
4/11/2017					0.0002655 (J)		0.000465483..		
4/12/2017						0.000465483..			
6/9/2017									
6/12/2017									0.000577447..
6/13/2017								0.000577447..	
6/14/2017	0.000577447..			0.000577447..	0.0003774 (J)				
6/15/2017		0.000577447..	0.000577447..						
6/16/2017						0.000577447..	0.000577447..		
7/12/2017							0.000577447..		
7/14/2017									

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 6/25/2018 1:47 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-10	GWC-11	GWC-11R	GWC-10R	GWC-12	GWC-13	GWC-13R_13RZ	GWC-6	GWA-3 (bg)
7/20/2017									
7/26/2017									
7/28/2017							0.000577447..		
8/9/2017									
8/10/2017							0.000503582..		
8/24/2017									
10/2/2017									
10/3/2017								0.000503582..	
10/4/2017	0.000503582..	0.000503582..	0.000503582..	0.000503582..	0.0002036 (J)				0.000503582..
10/5/2017									
10/6/2017							0.000503582..		
10/9/2017						0.000503582..			
3/16/2018									
3/19/2018								0.000465483..	0.000465483..
3/20/2018	0.000465483..								
3/21/2018		0.000465483..		0.000465483..		0.000465483..			
3/22/2018			0.000465483..		0.0002855 (J)				
3/23/2018							0.000465483..		

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 6/25/2018 1:47 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-2 (bg)	GWA-1 (bg)	GWA-2R (bg)	GWC-15R	GWC-5	GWC-9	GWC-15_15Z	GWC-14_14Z	GWA-50R (bg)
8/21/2007									
8/22/2007									
8/23/2007	0.000653582..	0.000653582..	0.000653582..	0.000653582..	0.000653582..	0.000653582..			
8/24/2007							0.000653582..	0.000653582..	
10/23/2007		0.000653582..							
10/24/2007	0.000653582..		0.000653582..						
10/25/2007					0.000653582..				
11/1/2007						0.000650776..			
11/2/2007				0.000650776..			0.000650776..	0.000650776..	
11/17/2007				0.000650776..				0.000650776..	
11/18/2007	0.000650776..	0.000650776..	0.000650776..				0.000650776..		
11/19/2007					0.000650776..	0.000650776..			
11/20/2007									
1/15/2008				0.000650776..		0.000650776..	0.000650776..	0.000650776..	
1/16/2008									
1/23/2008					0.000650776..				
1/30/2008		0.000650776..							
1/31/2008	0.000650776..		0.000650776..						
3/5/2008								0.000615483..	
3/6/2008				0.000615483..		0.000615483..			
3/10/2008		0.000615483..	0.000615483..				0.000615483..		
3/11/2008	0.000615483..				0.000615483..				
5/6/2008	0.000727447..								
5/7/2008				0.000727447..				0.000727447..	
5/8/2008									
5/12/2008					0.000727447..				
5/13/2008		0.000727447..	0.000727447..			0.000727447..	0.000727447..		
5/14/2008									
12/2/2008				0.000650776..			0.000650776..	0.000650776..	
12/4/2008	0.000650776..		0.000650776..						
12/5/2008		0.000650776..							
12/11/2008					0.000650776..				
12/12/2008						0.000650776..			0.000650776..
12/13/2008									
12/14/2008									
4/15/2009		0.000615483..			0.000615483..				
4/16/2009						0.000615483..		0.000615483..	
4/21/2009	0.000615483..		0.000615483..						
4/23/2009									0.000615483..
4/28/2009				0.000615483..			0.000615483..		
4/29/2009									
10/6/2009									0.000653582..
10/7/2009	0.000653582..	0.000653582..							
10/8/2009			0.000653582..						
10/9/2009					0.000653582..				
10/13/2009						0.000653582..			
10/19/2009				0.000653582..					
10/20/2009							0.000653582..	0.000653582..	
10/21/2009									
10/22/2009									
4/20/2010								0.000615483..	
4/21/2010			0.000615483..			0.000615483..			

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 6/25/2018 1:47 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-2 (bg)	GWA-1 (bg)	GWA-2R (bg)	GWC-15R	GWC-5	GWC-9	GWC-15_15Z	GWC-14_14Z	GWA-50R (bg)
4/26/2010	0.000615483..								
4/27/2010				0.000615483..			0.000615483..		
4/28/2010									
5/3/2010		0.000727447..							0.000727447..
5/4/2010					0.000727447..				
9/28/2010			0.000653582..						
9/29/2010						0.000653582..		0.000653582..	
9/30/2010									
10/4/2010	0.000653582..			0.000653582..					
10/5/2010							0.000653582..		
10/6/2010									
10/11/2010									0.000653582..
10/12/2010		0.000653582..			0.000653582..				
4/12/2011			0.000615483..					0.000615483..	
4/13/2011	0.000615483..					0.000615483..			
4/14/2011									
4/18/2011				0.000615483..					
4/19/2011							0.000615483..		
4/20/2011									
4/21/2011									
4/26/2011									
4/27/2011		0.000615483..							0.000615483..
4/28/2011					0.000615483..				
10/4/2011			0.000653582..					0.000653582..	
10/5/2011	0.000653582..					0.000653582..			
10/12/2011				0.000653582..			0.000653582..		
10/13/2011									
10/17/2011		0.000653582..							
10/18/2011									
10/19/2011					0.000653582..				0.000653582..
4/3/2012			0.000215483..						
4/4/2012						0.000215483..		0.000215483..	
4/11/2012	0.000215483..								
4/23/2012				0.000215483..					
4/24/2012									
4/25/2012							0.000215483..		
4/30/2012									
5/1/2012									0.000327447..
5/2/2012		0.000327447..			0.000327447..				
10/2/2012									0.000653582..
10/3/2012									
10/8/2012		0.000653582..				0.000653582..			
10/9/2012	0.000653582..		0.000653582..		0.000653582..				
10/10/2012				0.000653582..			0.000653582..	0.000653582..	
4/2/2013									
4/3/2013									
4/8/2013						0.000615483..			
4/9/2013									
4/10/2013									0.000615483..
4/11/2013			0.000615483..		0.000615483..				
4/12/2013		0.000615483..							
4/15/2013	0.000615483..			0.000615483..				0.000615483..	

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 6/25/2018 1:47 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-2 (bg)	GWA-1 (bg)	GWA-2R (bg)	GWC-15R	GWC-5	GWC-9	GWC-15_15Z	GWC-14_14Z	GWA-50R (bg)
4/16/2013							0.000615483..		
10/8/2013									
10/9/2013						0.000653582..			
10/15/2013	0.000653582..								
10/16/2013		0.000653582..	0.000653582..		0.000653582..				0.000653582..
10/22/2013				0.000653582..			0.000653582..	0.000653582..	
4/1/2014									
4/2/2014									
4/9/2014						9.048356719..			
4/10/2014			9.048356719..						
4/11/2014		9.048356719..							
4/14/2014									
4/21/2014				9.048356719..			9.048356719..	9.048356719..	
4/22/2014	9.048356719..								9.048356719..
4/23/2014					9.048356719..				
9/30/2014	0.000653582..	0.000653582..	0.000653582..	0.000653582..		0.000653582..	0.000653582..	0.000653582..	
10/1/2014									0.000653582..
10/2/2014									
10/3/2014					0.0003336 (J)				
10/4/2014									
3/30/2015	0.000615483..	0.000615483..	0.000615483..						0.000615483..
3/31/2015					0.000615483..				
4/1/2015									
4/2/2015						0.000615483..			
4/3/2015				0.000615483..			0.000615483..	0.000615483..	
5/26/2015									
6/18/2015									
7/2/2015									
10/6/2015							0.000653582..		
10/7/2015				0.0002836 (J)				0.000653582..	
10/8/2015									
10/9/2015									
10/10/2015						0.000653582.. (D)			
10/11/2015									0.000653582..
10/12/2015					0.000653582..				
10/13/2015	0.000653582..	0.0003036 (J)	0.000653582..						
10/14/2015									
10/15/2015									
3/22/2016		0.000465483..							
3/23/2016	0.000465483..		0.000465483..						
3/28/2016					0.001005 (J)				0.000465483..
3/29/2016									
3/30/2016						0.000465483..			
3/31/2016									
4/4/2016									
4/5/2016				0.02697 (J)			0.000465483..	0.000465483..	
5/19/2016		0.000577447..	0.000577447..						
5/20/2016	0.000577447..								
5/23/2016									
5/24/2016									
5/25/2016					0.0002254 (J)				0.000577447..
5/26/2016						0.000577447..			

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 6/25/2018 1:47 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-2 (bg)	GWA-1 (bg)	GWA-2R (bg)	GWC-15R	GWC-5	GWC-9	GWC-15_15Z	GWC-14_14Z	GWA-50R (bg)
5/27/2016									
5/31/2016				0.0002834 (J)			0.000577447..		
6/1/2016								0.000577447..	
7/29/2016	0.000577447..	0.000577447..	0.000577447..						
8/1/2016					0.0001036 (J)				0.000503582..
8/2/2016									
8/3/2016									
8/4/2016				0.000503582..					
8/5/2016						0.000503582..			
8/9/2016								0.000503582..	
9/22/2016			0.000503582..						
9/23/2016	0.000503582..	0.000503582..							
9/26/2016									0.000503582..
9/27/2016					0.0001036 (J)				
9/28/2016						0.000503582..			
9/29/2016				0.0002036 (J)					
9/30/2016									
11/9/2016	0.000500776..	0.000500776..							
11/10/2016			0.000500776..						
11/11/2016					0.00009078 (J)				0.000500776..
11/14/2016									
11/18/2016									
11/21/2016						0.000500776..			
11/22/2016									
11/23/2016				0.0001008 (J)			0.000500776..		
11/28/2016								0.000500776..	
1/30/2017		0.000500776..							0.000500776..
1/31/2017	0.000500776..		0.000500776..		0.000500776..				
2/1/2017									
2/3/2017									
2/6/2017						0.000465483..			
2/7/2017									
2/8/2017									
2/9/2017								0.00006548 (J)	
2/10/2017				0.000465483..			0.000465483..		
2/13/2017									
2/22/2017									
3/30/2017	0.000465483..	0.000465483..							
4/3/2017			0.000465483..		0.00006548 (J)				0.000465483..
4/6/2017						0.000465483..			
4/7/2017									
4/10/2017									
4/11/2017							0.000465483..	0.000465483..	
4/12/2017				0.000465483..					
6/9/2017		0.000577447..	0.000577447..						
6/12/2017	0.000577447..				0.000577447..				0.000577447..
6/13/2017						0.000577447..			
6/14/2017								0.000577447..	
6/15/2017				0.000577447..			0.000577447..		
6/16/2017									
7/12/2017							0.000577447..	0.000577447..	
7/14/2017									

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 6/25/2018 1:47 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-2 (bg)	GWA-1 (bg)	GWA-2R (bg)	GWC-15R	GWC-5	GWC-9	GWC-15_15Z	GWC-14_14Z	GWA-50R (bg)
7/20/2017									
7/26/2017							0.000577447..		
7/28/2017									
8/9/2017									
8/10/2017									
8/24/2017									
10/2/2017	0.000503582..	0.000503582..	0.000503582..						0.000503582..
10/3/2017					0.000503582..	0.000503582..			
10/4/2017									
10/5/2017								0.000503582..	
10/6/2017				0.000503582..			0.000503582..		
10/9/2017									
3/16/2018		0.000465483..	0.000465483..						0.000465483..
3/19/2018	0.000465483..				0.000465483..				
3/20/2018						0.000465483..			
3/21/2018									
3/22/2018								0.000465483..	
3/23/2018				0.000465483..			0.000465483..		

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 6/25/2018 1:47 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50 (bg)	GWC-8RR	GWC-8Z	GWC-6RZ	GWC-7Z	GWA-4RZ (bg)
8/21/2007						
8/22/2007						
8/23/2007						
8/24/2007						
10/23/2007						
10/24/2007						
10/25/2007						
11/1/2007						
11/2/2007						
11/17/2007						
11/18/2007						
11/19/2007						
11/20/2007						
1/15/2008						
1/16/2008						
1/23/2008						
1/30/2008						
1/31/2008						
3/5/2008						
3/6/2008						
3/10/2008						
3/11/2008						
5/6/2008						
5/7/2008						
5/8/2008						
5/12/2008						
5/13/2008						
5/14/2008						
12/2/2008						
12/4/2008						
12/5/2008						
12/11/2008						
12/12/2008	0.000650776..					
12/13/2008						
12/14/2008						
4/15/2009						
4/16/2009						
4/21/2009						
4/23/2009	0.000615483..					
4/28/2009						
4/29/2009						
10/6/2009	0.000653582..					
10/7/2009						
10/8/2009						
10/9/2009						
10/13/2009						
10/19/2009						
10/20/2009						
10/21/2009						
10/22/2009						
4/20/2010						
4/21/2010						

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 6/25/2018 1:47 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50 (bg)	GWC-8RR	GWC-8Z	GWC-6RZ	GWC-7Z	GWA-4RZ (bg)
4/26/2010						
4/27/2010	0.000615483..					
4/28/2010						
5/3/2010						
5/4/2010						
9/28/2010						
9/29/2010						
9/30/2010	0.000653582..					
10/4/2010						
10/5/2010						
10/6/2010						
10/11/2010						
10/12/2010						
4/12/2011						
4/13/2011						
4/14/2011	0.000615483..					
4/18/2011						
4/19/2011						
4/20/2011						
4/21/2011						
4/26/2011						
4/27/2011						
4/28/2011						
10/4/2011						
10/5/2011	0.000653582..					
10/12/2011						
10/13/2011						
10/17/2011						
10/18/2011		0.000653582..				
10/19/2011						
4/3/2012						
4/4/2012						
4/11/2012	0.000215483..					
4/23/2012						
4/24/2012						
4/25/2012						
4/30/2012		0.000215483..				
5/1/2012						
5/2/2012						
10/2/2012	0.000653582..					
10/3/2012		0.000653582..				
10/8/2012						
10/9/2012						
10/10/2012						
4/2/2013						
4/3/2013						
4/8/2013		0.000615483..				
4/9/2013	0.000615483..					
4/10/2013						
4/11/2013						
4/12/2013						
4/15/2013						

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 6/25/2018 1:47 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50 (bg)	GWC-8RR	GWC-8Z	GWC-6RZ	GWC-7Z	GWA-4RZ (bg)
4/16/2013						
10/8/2013						
10/9/2013		0.000653582..				
10/15/2013	0.000653582..					
10/16/2013						
10/22/2013						
4/1/2014						
4/2/2014						
4/9/2014						
4/10/2014	9.048356719..	9.048356719..				
4/11/2014						
4/14/2014						
4/21/2014						
4/22/2014						
4/23/2014						
9/30/2014						
10/1/2014	0.000653582..					
10/2/2014		0.000653582..				
10/3/2014						
10/4/2014						
3/30/2015	0.000615483..					
3/31/2015						
4/1/2015						
4/2/2015						
4/3/2015		0.000615483..				
5/26/2015			0.000727447..	0.000727447..		
6/18/2015			0.000727447.. (D)	0.000727447.. (D)		
7/2/2015			0.000727447..	0.000727447..		
10/6/2015						
10/7/2015						
10/8/2015		0.000653582..	0.000653582..			
10/9/2015				0.000653582..		
10/10/2015						
10/11/2015	0.0002636 (J)					
10/12/2015						
10/13/2015						
10/14/2015						
10/15/2015						
3/22/2016			0.000465483..			
3/23/2016						
3/28/2016	0.000465483..					
3/29/2016				0.000465483..		
3/30/2016		0.000465483..				
3/31/2016						
4/4/2016						
4/5/2016						
5/19/2016						
5/20/2016						
5/23/2016	0.000577447..					
5/24/2016		0.000577447..		0.000577447..		
5/25/2016			0.000577447..			
5/26/2016						

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 6/25/2018 1:47 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50 (bg)	GWC-8RR	GWC-8Z	GWC-6RZ	GWC-7Z	GWA-4RZ (bg)
5/27/2016						
5/31/2016					0.000577447..	
6/1/2016						
7/29/2016						
8/1/2016	0.000503582..			0.000503582..		
8/2/2016		0.000503582..	0.000503582..		0.000503582..	
8/3/2016						
8/4/2016						
8/5/2016						
8/9/2016						
9/22/2016						
9/23/2016						
9/26/2016	0.000503582..		0.000503582..	0.000503582..		
9/27/2016		0.000503582..			0.000503582..	
9/28/2016						
9/29/2016						
9/30/2016						
11/9/2016						
11/10/2016	0.000500776..					
11/11/2016						
11/14/2016				0.000500776..		
11/18/2016						
11/21/2016			0.000500776..		0.000500776..	
11/22/2016		0.000500776..				
11/23/2016						
11/28/2016						
1/30/2017	0.000500776..					
1/31/2017						
2/1/2017				0.000465483..	0.00005548 (J)	
2/3/2017			0.00006548 (J)			
2/6/2017		0.000465483..				
2/7/2017						
2/8/2017						
2/9/2017						
2/10/2017						
2/13/2017						
2/22/2017						0.000465483..
3/30/2017						
4/3/2017						
4/6/2017		0.000465483..		0.000465483..	0.000465483..	
4/7/2017	0.000465483..		0.000465483..			0.000465483..
4/10/2017						
4/11/2017						
4/12/2017						
6/9/2017						
6/12/2017	0.000577447..					
6/13/2017			0.0002774 (J)	0.000577447..	0.000577447..	
6/14/2017		0.000577447..				0.000577447..
6/15/2017						
6/16/2017						
7/12/2017						0.000577447..
7/14/2017					0.000577447..	

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 6/25/2018 1:48 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50 (bg)	GWC-8RR	GWC-8Z	GWC-6RZ	GWC-7Z	GWA-4RZ (bg)
7/20/2017						0.000577447..
7/26/2017						
7/28/2017						0.000577447..
8/9/2017						0.000503582..
8/10/2017						
8/24/2017						0.000503582..
10/2/2017	0.000503582..					
10/3/2017			0.000503582..	0.000503582..	0.000503582..	0.000503582..
10/4/2017		0.000503582..				
10/5/2017						
10/6/2017						
10/9/2017						
3/16/2018	0.000465483..					
3/19/2018						
3/20/2018			0.000465483..	0.000465483..	0.000465483..	
3/21/2018		0.000465483..				0.000465483..
3/22/2018						
3/23/2018						

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 6/25/2018 1:48 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-11R	GWC-11	GWC-13	GWC-12	GWC-13R_13RZ	GWC-10	GWC-10R	GWC-6	GWC-15R
8/21/2007	0.05969	0.023342469..	0.02459	0.02399	0.023342469..	0.02419	0.05869		
8/22/2007								0.023342469..	
8/23/2007									0.03669
8/24/2007									
10/23/2007									
10/24/2007									
10/25/2007								0.02469	
11/1/2007	0.04935	0.01	0.01935	0.01	0.01355	0.02035	0.01935		
11/2/2007									0.01295
11/17/2007									0.04035
11/18/2007	0.05435	0.01							
11/19/2007			0.03035	0.01495	0.01425				
11/20/2007						0.05135	0.01325	0.02635	
1/15/2008									0.02035
1/16/2008				0.04835					
1/23/2008								0.07335	
1/30/2008	0.05035	0.01				0.04335	0.02835		
1/31/2008			0.04435		0.01				
3/5/2008		0.022091267..	0.03344	0.05144	0.022091267..				
3/6/2008	0.06344					0.04844	0.022091267..		0.02414
3/10/2008									
3/11/2008								0.03444	
5/6/2008									
5/7/2008	0.04996	0.04596			0.021608349..				0.02896
5/8/2008							0.03096		
5/12/2008			0.04096			0.03596			
5/13/2008				0.02666					
5/14/2008								0.04796	
12/2/2008									0.01525
12/4/2008									
12/5/2008									
12/11/2008								0.01	
12/12/2008					0.02835				
12/13/2008			0.02335	0.01		0.01295			
12/14/2008	0.04135	0.01145					0.01315		
4/15/2009									
4/16/2009				0.022941267..					
4/21/2009									
4/23/2009								0.022091267..	
4/28/2009			0.02934						0.022091267..
4/29/2009	0.03844	0.03244			0.02344	0.022091267..	0.022091267..		
10/6/2009									
10/7/2009									
10/8/2009									
10/9/2009								0.02409	
10/13/2009									
10/19/2009									0.023342469..
10/20/2009						0.023342469..			
10/21/2009			0.03189	0.02419	0.02469		0.023342469..		
10/22/2009	0.04469	0.03269							
4/20/2010									
4/21/2010	0.04244	0.02674					0.022091267..		

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 6/25/2018 1:48 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-11R	GWC-11	GWC-13	GWC-12	GWC-13R_13RZ	GWC-10	GWC-10R	GWC-6	GWC-15R
4/26/2010						0.022091267..			
4/27/2010				0.02504					0.022091267..
4/28/2010			0.03004		0.02634				
5/3/2010									
5/4/2010								0.021608349..	
9/28/2010		0.03029					0.023342469..		
9/29/2010	0.04669					0.02609			
9/30/2010									
10/4/2010									0.02399
10/5/2010			0.03119	0.023342469..					
10/6/2010					0.023342469..				
10/11/2010								0.02539	
10/12/2010									
4/12/2011		0.03094					0.022091267..		
4/13/2011	0.03544					0.022091267..			
4/14/2011									
4/18/2011									0.022091267..
4/19/2011			0.03034	0.02444					
4/20/2011					0.022091267..				
4/21/2011									
4/26/2011								0.02294	
4/27/2011									
4/28/2011									
10/4/2011	0.03969	0.03179					0.02459		
10/5/2011						0.02589			
10/12/2011				0.023342469..	0.023342469..				0.02409
10/13/2011									
10/17/2011									
10/18/2011			0.03199					0.023342469..	
10/19/2011									
4/3/2012		0.02904					0.023941267..		
4/4/2012	0.03544					0.023941267..			
4/11/2012									
4/23/2012									0.023941267..
4/24/2012				0.023941267..					
4/25/2012			0.02894		0.023941267..				
4/30/2012									
5/1/2012									
5/2/2012								0.023458349..	
10/2/2012			0.03969	0.023342469..	0.02419				
10/3/2012	0.02599	0.02659				0.02739			
10/8/2012							0.023342469..	0.023342469..	
10/9/2012									
10/10/2012									0.023342469..
4/2/2013			0.03114	0.02324	0.02314				
4/3/2013	0.03844	0.022091267..				0.02284	0.022091267..		
4/8/2013									
4/9/2013									
4/10/2013								0.02274	
4/11/2013									
4/12/2013									
4/15/2013									0.02354

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 6/25/2018 1:48 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-11R	GWC-11	GWC-13	GWC-12	GWC-13R_13RZ	GWC-10	GWC-10R	GWC-6	GWC-15R
4/16/2013									
10/8/2013			0.03369		0.023342469..			0.02439	
10/9/2013	0.03769	0.03159		0.023342469..					
10/15/2013						0.02469	0.023342469..		
10/16/2013									
10/22/2013									0.023342469..
4/1/2014			0.02884	0.021941267..	0.021941267..				
4/2/2014	0.03544	0.021941267..							
4/9/2014						0.021941267..	0.021941267..		
4/10/2014									
4/11/2014									
4/14/2014								0.02544	
4/21/2014									0.02274 (J)
4/22/2014									
4/23/2014									
9/30/2014									0.023342469..
10/1/2014			0.02759		0.023342469..				
10/2/2014	0.02749	0.023342469..		0.023342469..		0.023342469..	0.023342469..		
10/3/2014								0.02439	
10/4/2014									
3/30/2015									
3/31/2015					0.022091267..				
4/1/2015	0.02984	0.02764	0.02864	0.022091267..				0.02414	
4/2/2015						0.022091267..	0.022091267..		
4/3/2015									0.022091267..
5/26/2015									
6/18/2015									
7/2/2015									
10/6/2015									
10/7/2015									0.023342469..
10/8/2015									
10/9/2015								0.02429	
10/10/2015						0.02399			
10/11/2015	0.04169	0.023342469..							
10/12/2015							0.023342469..		
10/13/2015									
10/14/2015				0.023342469..	0.023342469..				
10/15/2015			0.03039						
3/22/2016									
3/23/2016									
3/28/2016									
3/29/2016								0.02882 (J)	
3/30/2016									
3/31/2016						0.026441267..	0.026441267..		
4/4/2016	0.02872 (J)	0.028 (J)	0.02759 (J)	0.026441267..	0.026441267.. (D)				
4/5/2016									0.026441267..
5/19/2016									
5/20/2016									
5/23/2016									
5/24/2016								0.02359 (J)	
5/25/2016									
5/26/2016	0.02649 (J)	0.02848 (J)				0.025958349..	0.025958349..		

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 6/25/2018 1:48 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-11R	GWC-11	GWC-13	GWC-12	GWC-13R_13RZ	GWC-10	GWC-10R	GWC-6	GWC-15R
5/27/2016				0.025958349..					
5/31/2016			0.02684 (J)						0.025958349..
6/1/2016					0.025958349.. (D)				
7/29/2016									
8/1/2016								0.027692469.. (*)	
8/2/2016									
8/3/2016		0.02939 (J)		0.027692469..			0.027692469.. (*)		
8/4/2016	0.02979 (J)		0.02829 (J)						0.027692469.. (*)
8/5/2016						0.027692469.. (*)			
8/9/2016									
9/22/2016									
9/23/2016									
9/26/2016								0.02409 (J)	
9/27/2016									
9/28/2016	0.03199 (J)	0.03089 (J)				0.027692469..	0.027692469..		
9/29/2016			0.02919 (J)						0.027692469..
9/30/2016				0.027692469..					
11/9/2016									
11/10/2016									
11/11/2016									
11/14/2016									
11/18/2016								0.014349999.. (*)	
11/21/2016									
11/22/2016	0.01515 (J)	0.01385 (J)		0.014349999..		0.01175 (J)	0.014349999..		
11/23/2016									0.014349999..
11/28/2016			0.01575 (J)						
1/30/2017									
1/31/2017									
2/1/2017								0.02384 (J)	
2/3/2017									
2/6/2017									
2/7/2017						0.02294 (J)	0.02334 (J)		
2/8/2017	0.02864 (J)	0.03154							
2/9/2017			0.02924 (J)						
2/10/2017									0.026441267..
2/13/2017				0.026441267..					
2/22/2017					0.02264 (J)				
3/30/2017									
4/3/2017									
4/6/2017								0.026441267.. (*)	
4/7/2017									
4/10/2017	0.026441267.. (*)	0.03084 (J)				0.026441267.. (*)	0.026441267.. (*)		
4/11/2017				0.026441267..	0.026441267.. (*)				
4/12/2017			0.02914 (J)						0.026441267.. (*)
6/9/2017									
6/12/2017									
6/13/2017								0.02406 (J)	
6/14/2017				0.025958349..		0.02156 (J)	0.025958349..		
6/15/2017	0.02756 (J)	0.02996 (J)							0.02146 (J)
6/16/2017			0.02816 (J)		0.025958349..				
7/12/2017					0.025958349..				
7/14/2017									

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 6/25/2018 1:48 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-11R	GWC-11	GWC-13	GWC-12	GWC-13R_13RZ	GWC-10	GWC-10R	GWC-6	GWC-15R
7/20/2017									
7/26/2017									
7/28/2017					0.025958349..				
8/9/2017									
8/10/2017					0.027692469..				
8/24/2017									
10/2/2017									
10/3/2017								0.02519 (J)	
10/4/2017	0.03059 (J)	0.02349 (J)		0.027692469..		0.02539 (J)	0.027692469..		
10/5/2017									
10/6/2017					0.027692469..				0.027692469..
10/9/2017			0.03059 (J)						
3/16/2018									
3/19/2018								0.02494 (J)	
3/20/2018						0.026441267..			
3/21/2018		0.02934 (J)	0.02694 (J)				0.026441267..		
3/22/2018	0.02764 (J)			0.026441267..					
3/23/2018					0.026441267..				0.026441267..

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 6/25/2018 1:48 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-2 (bg)	GWA-2R (bg)	GWC-9	GWA-3 (bg)	GWC-5	GWA-1 (bg)	GWC-14_14Z	GWC-15_15Z	GWA-50R (bg)
8/21/2007									
8/22/2007									
8/23/2007	0.02719	0.023342469..	0.023342469..	0.023342469..	0.03029	0.023342469..			
8/24/2007							0.1057	0.08369	
10/23/2007						0.03369			
10/24/2007	0.06169	0.02599							
10/25/2007					0.03769				
11/1/2007			0.01545						
11/2/2007				0.03635			0.01645	0.08735	
11/17/2007							0.02135		
11/18/2007	0.06835	0.02135		0.1793		0.04735 (J)		0.09435	
11/19/2007			0.02735 (J)		0.02235				
11/20/2007									
1/15/2008			0.08735				0.05235	0.08835	
1/16/2008									
1/23/2008					0.04135				
1/30/2008						0.1193 (J)			
1/31/2008	0.01605	0.052 (O)		0.02135					
3/5/2008							0.02584		
3/6/2008			0.07544						
3/10/2008		0.03144				0.05944		0.08344	
3/11/2008	0.05144			0.08444	0.04544				
5/6/2008	0.02716								
5/7/2008							0.02936		
5/8/2008									
5/12/2008					0.03696				
5/13/2008		0.02776	0.02946			0.03296		0.06496	
5/14/2008				0.07796					
12/2/2008							0.01495	0.03635	
12/4/2008	0.01835	0.01105							
12/5/2008				0.01		0.01			
12/11/2008					0.02235				
12/12/2008			0.01165						0.01
12/13/2008									
12/14/2008									
4/15/2009				0.022091267..	0.02874	0.022091267..			
4/16/2009			0.022941267..				0.02564		
4/21/2009	0.02364	0.022091267..							
4/23/2009									0.02454
4/28/2009								0.03744	
4/29/2009									
10/6/2009									0.02509
10/7/2009	0.023342469..					0.02919			
10/8/2009		0.023342469..		0.023342469..					
10/9/2009					0.02639				
10/13/2009			0.023342469..						
10/19/2009									
10/20/2009							0.02639	0.04069	
10/21/2009									
10/22/2009									
4/20/2010							0.022091267..		
4/21/2010		0.022091267..	0.022091267..						

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 6/25/2018 1:48 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-2 (bg)	GWA-2R (bg)	GWC-9	GWA-3 (bg)	GWC-5	GWA-1 (bg)	GWC-14_14Z	GWC-15_15Z	GWA-50R (bg)
4/26/2010	0.022091267..								
4/27/2010								0.03344	
4/28/2010				0.022091267..					
5/3/2010						0.021608349..			0.021608349..
5/4/2010					0.021608349..				
9/28/2010		0.023342469..							
9/29/2010			0.023342469..				0.02549		
9/30/2010									
10/4/2010	0.023342469..								
10/5/2010								0.02939	
10/6/2010				0.023342469..					
10/11/2010									0.02549
10/12/2010					0.02499	0.023342469..			
4/12/2011		0.022091267..					0.022091267..		
4/13/2011	0.022091267..		0.022091267..						
4/14/2011									
4/18/2011									
4/19/2011								0.02954	
4/20/2011									
4/21/2011				0.022091267..					
4/26/2011									
4/27/2011						0.022091267..			0.02554
4/28/2011					0.02344				
10/4/2011		0.023342469..					0.02419		
10/5/2011	0.023342469..		0.023342469..						
10/12/2011								0.023342469..	
10/13/2011				0.023342469..					
10/17/2011						0.023342469..			
10/18/2011									
10/19/2011					0.02419				0.023342469..
4/3/2012		0.023941267..							
4/4/2012			0.023941267..				0.023941267..		
4/11/2012	0.023941267..								
4/23/2012									
4/24/2012									
4/25/2012								0.023941267..	
4/30/2012									
5/1/2012				0.023458349..					0.023458349..
5/2/2012					0.023458349..	0.023458349..			
10/2/2012									0.02459
10/3/2012									
10/8/2012			0.023342469..			0.023342469..			
10/9/2012	0.023342469..	0.023342469..		0.023342469..	0.023342469..				
10/10/2012							0.02559	0.023342469..	
4/2/2013									
4/3/2013									
4/8/2013			0.022091267..						
4/9/2013									
4/10/2013									0.02414
4/11/2013		0.022091267..		0.022091267..	0.02294				
4/12/2013						0.02334			
4/15/2013	0.02274						0.02504		

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 6/25/2018 1:48 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-2 (bg)	GWA-2R (bg)	GWC-9	GWA-3 (bg)	GWC-5	GWA-1 (bg)	GWC-14_14Z	GWC-15_15Z	GWA-50R (bg)
4/16/2013								0.02434	
10/8/2013									
10/9/2013			0.02399						
10/15/2013	0.02499								
10/16/2013		0.023342469..		0.02399	0.023342469..	0.02509			0.02559
10/22/2013							0.02749	0.023342469..	
4/1/2014									
4/2/2014									
4/9/2014			0.021941267..						
4/10/2014		0.021941267..							
4/11/2014						0.02274 (J)			
4/14/2014									
4/21/2014							0.02574	0.021941267..	
4/22/2014	0.021941267..								0.02384
4/23/2014				0.021941267..	0.02274 (J)				
9/30/2014	0.023342469..	0.023342469..	0.023342469..			0.023342469..	0.02639	0.023342469..	
10/1/2014									0.023342469..
10/2/2014									
10/3/2014					0.023342469..				
10/4/2014				0.023342469..					
3/30/2015	0.02254 (J)	0.022091267..				0.02614			0.02364
3/31/2015				0.022091267..	0.022091267..				
4/1/2015									
4/2/2015			0.022091267..						
4/3/2015							0.03744	0.022091267..	
5/26/2015									
6/18/2015									
7/2/2015									
10/6/2015								0.023342469..	
10/7/2015							0.03189		
10/8/2015									
10/9/2015									
10/10/2015			0.02352 (D)						
10/11/2015									0.023342469..
10/12/2015				0.023342469..	0.023342469..				
10/13/2015	0.023342469..	0.023342469..				0.023342469..			
10/14/2015									
10/15/2015									
3/22/2016						0.026441267..			
3/23/2016	0.026441267..	0.026441267..		0.026441267..					
3/28/2016					0.026441267..				0.026441267..
3/29/2016									
3/30/2016			0.026441267..						
3/31/2016									
4/4/2016									
4/5/2016							0.04044 (J)	0.026441267..	
5/19/2016		0.025958349..				0.025958349..			
5/20/2016	0.025958349..								
5/23/2016				0.025958349..					
5/24/2016									
5/25/2016					0.025958349..				0.025958349..
5/26/2016			0.025958349..						

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 6/25/2018 1:48 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-2 (bg)	GWA-2R (bg)	GWC-9	GWA-3 (bg)	GWC-5	GWA-1 (bg)	GWC-14_14Z	GWC-15_15Z	GWA-50R (bg)
5/27/2016									
5/31/2016								0.025958349..	
6/1/2016							0.02696 (J)		
7/29/2016	0.025958349.. (*)	0.025958349.. (*)		0.025958349..		0.025958349..			
8/1/2016					0.027692469..				0.027692469..
8/2/2016									
8/3/2016									
8/4/2016									
8/5/2016			0.027692469.. (*)						
8/9/2016							0.02879 (JD)		
9/22/2016		0.027692469..		0.02399 (J)					
9/23/2016	0.027692469..					0.027692469..			
9/26/2016									0.027692469..
9/27/2016					0.027692469..				
9/28/2016			0.027692469..						
9/29/2016									
9/30/2016									
11/9/2016	0.014349999..					0.01045 (J)			
11/10/2016		0.014349999..		0.014349999..					
11/11/2016					0.014349999.. (*)				0.014349999.. (*)
11/14/2016									
11/18/2016									
11/21/2016			0.014349999..						
11/22/2016									
11/23/2016								0.014349999..	
11/28/2016							0.014349999..		
1/30/2017						0.014349999..			0.014349999..
1/31/2017	0.014349999..	0.014349999..		0.014349999..	0.014349999..				
2/1/2017									
2/3/2017									
2/6/2017			0.026441267..						
2/7/2017									
2/8/2017									
2/9/2017							0.026441267..		
2/10/2017								0.026441267..	
2/13/2017									
2/22/2017									
3/30/2017	0.026441267.. (*)			0.026441267..		0.026441267..			
4/3/2017		0.026441267.. (*)			0.026441267..				0.026441267.. (*)
4/6/2017			0.026441267..						
4/7/2017									
4/10/2017									
4/11/2017							0.026441267.. (*)	0.026441267.. (*)	
4/12/2017									
6/9/2017		0.025958349..				0.025958349..			
6/12/2017	0.02176 (J)			0.025958349..	0.02146 (J)				0.02146 (J)
6/13/2017			0.025958349..						
6/14/2017							0.02156 (J)		
6/15/2017								0.02146 (J)	
6/16/2017									
7/12/2017							0.02146 (J)	0.02176 (J)	
7/14/2017									

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 6/25/2018 1:48 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-2 (bg)	GWA-2R (bg)	GWC-9	GWA-3 (bg)	GWC-5	GWA-1 (bg)	GWC-14_14Z	GWC-15_15Z	GWA-50R (bg)
7/20/2017									
7/26/2017								0.02156 (J)	
7/28/2017									
8/9/2017									
8/10/2017									
8/24/2017									
10/2/2017	0.027692469..	0.027692469..				0.027692469..			0.027692469..
10/3/2017			0.027692469..		0.027692469..				
10/4/2017				0.027692469..					
10/5/2017							0.02329 (J)		
10/6/2017								0.02349 (J)	
10/9/2017									
3/16/2018		0.026441267..				0.026441267..			0.026441267..
3/19/2018	0.02454 (J)			0.026441267..	0.026441267..				
3/20/2018			0.026441267..						
3/21/2018									
3/22/2018							0.026441267..		
3/23/2018								0.026441267..	

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 6/25/2018 1:48 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50 (bg)	GWC-8RR	GWC-8Z	GWC-6RZ	GWC-7Z	GWA-4RZ (bg)
8/21/2007						
8/22/2007						
8/23/2007						
8/24/2007						
10/23/2007						
10/24/2007						
10/25/2007						
11/1/2007						
11/2/2007						
11/17/2007						
11/18/2007						
11/19/2007						
11/20/2007						
1/15/2008						
1/16/2008						
1/23/2008						
1/30/2008						
1/31/2008						
3/5/2008						
3/6/2008						
3/10/2008						
3/11/2008						
5/6/2008						
5/7/2008						
5/8/2008						
5/12/2008						
5/13/2008						
5/14/2008						
12/2/2008						
12/4/2008						
12/5/2008						
12/11/2008						
12/12/2008	0.01					
12/13/2008						
12/14/2008						
4/15/2009						
4/16/2009						
4/21/2009						
4/23/2009	0.022091267..					
4/28/2009						
4/29/2009						
10/6/2009	0.023342469..					
10/7/2009						
10/8/2009						
10/9/2009						
10/13/2009						
10/19/2009						
10/20/2009						
10/21/2009						
10/22/2009						
4/20/2010						
4/21/2010						

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 6/25/2018 1:48 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50 (bg)	GWC-8RR	GWC-8Z	GWC-6RZ	GWC-7Z	GWA-4RZ (bg)
4/26/2010						
4/27/2010	0.022091267..					
4/28/2010						
5/3/2010						
5/4/2010						
9/28/2010						
9/29/2010						
9/30/2010	0.02409					
10/4/2010						
10/5/2010						
10/6/2010						
10/11/2010						
10/12/2010						
4/12/2011						
4/13/2011						
4/14/2011	0.02284					
4/18/2011						
4/19/2011						
4/20/2011						
4/21/2011						
4/26/2011						
4/27/2011						
4/28/2011						
10/4/2011						
10/5/2011	0.023342469..					
10/12/2011						
10/13/2011						
10/17/2011						
10/18/2011		0.023342469..				
10/19/2011						
4/3/2012						
4/4/2012						
4/11/2012	0.023941267..					
4/23/2012						
4/24/2012						
4/25/2012						
4/30/2012		0.023941267..				
5/1/2012						
5/2/2012						
10/2/2012	0.023342469..					
10/3/2012		0.023342469..				
10/8/2012						
10/9/2012						
10/10/2012						
4/2/2013						
4/3/2013						
4/8/2013		0.022091267..				
4/9/2013	0.022091267..					
4/10/2013						
4/11/2013						
4/12/2013						
4/15/2013						

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 6/25/2018 1:48 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50 (bg)	GWC-8RR	GWC-8Z	GWC-6RZ	GWC-7Z	GWA-4RZ (bg)
4/16/2013						
10/8/2013						
10/9/2013		0.02459				
10/15/2013	0.023342469..					
10/16/2013						
10/22/2013						
4/1/2014						
4/2/2014						
4/9/2014						
4/10/2014	0.02274 (J)	0.02484				
4/11/2014						
4/14/2014						
4/21/2014						
4/22/2014						
4/23/2014						
9/30/2014						
10/1/2014	0.023342469..					
10/2/2014		0.02829				
10/3/2014						
10/4/2014						
3/30/2015	0.022091267..					
3/31/2015						
4/1/2015						
4/2/2015						
4/3/2015		0.02364				
5/26/2015			0.021608349..	0.02246		
6/18/2015			0.02336 (D)	0.02226 (D)		
7/2/2015			0.021608349..	0.02236		
10/6/2015						
10/7/2015						
10/8/2015		0.02599	0.023342469..			
10/9/2015				0.02419		
10/10/2015						
10/11/2015	0.023342469..					
10/12/2015						
10/13/2015						
10/14/2015						
10/15/2015						
3/22/2016			0.06944 (J)			
3/23/2016						
3/28/2016	0.026441267..					
3/29/2016				0.026441267..		
3/30/2016		0.04424 (J)				
3/31/2016						
4/4/2016						
4/5/2016						
5/19/2016						
5/20/2016						
5/23/2016	0.025958349..					
5/24/2016		0.025958349..		0.025958349..		
5/25/2016			0.02537 (J)			
5/26/2016						

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 6/25/2018 1:48 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50 (bg)	GWC-8RR	GWC-8Z	GWC-6RZ	GWC-7Z	GWA-4RZ (bg)
5/27/2016						
5/31/2016					0.025958349..	
6/1/2016						
7/29/2016						
8/1/2016	0.027692469.. (*)			0.027692469.. (*)		
8/2/2016		0.027692469.. (*)	0.027692469.. (*)		0.027692469..	
8/3/2016						
8/4/2016						
8/5/2016						
8/9/2016						
9/22/2016						
9/23/2016						
9/26/2016	0.027692469..		0.02469 (J)	0.02469 (J)		
9/27/2016		0.027692469..			0.027692469..	
9/28/2016						
9/29/2016						
9/30/2016						
11/9/2016						
11/10/2016	0.014349999..					
11/11/2016						
11/14/2016				0.014349999.. (*)		
11/18/2016						
11/21/2016			0.01105 (J)		0.014349999..	
11/22/2016		0.014349999..				
11/23/2016						
11/28/2016						
1/30/2017	0.014349999..					
1/31/2017						
2/1/2017				0.02314 (J)	0.026441267..	
2/3/2017			0.02324 (J)			
2/6/2017		0.026441267..				
2/7/2017						
2/8/2017						
2/9/2017						
2/10/2017						
2/13/2017						
2/22/2017						0.026441267..
3/30/2017						
4/3/2017						
4/6/2017		0.026441267.. (*)		0.026441267.. (*)	0.026441267.. (*)	
4/7/2017	0.026441267..		0.026441267.. (*)			0.026441267..
4/10/2017						
4/11/2017						
4/12/2017						
6/9/2017						
6/12/2017	0.025958349..					
6/13/2017			0.02286 (J)	0.02246 (J)	0.025958349..	
6/14/2017		0.02186 (J)				0.025958349..
6/15/2017						
6/16/2017						
7/12/2017						0.025958349..
7/14/2017					0.025958349..	

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 6/25/2018 1:48 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50 (bg)	GWC-8RR	GWC-8Z	GWC-6RZ	GWC-7Z	GWA-4RZ (bg)
7/20/2017						0.025958349..
7/26/2017						
7/28/2017						0.025958349..
8/9/2017						0.027692469..
8/10/2017						
8/24/2017						0.027692469..
10/2/2017	0.027692469..					
10/3/2017			0.02489 (J)	0.02449 (J)	0.027692469..	0.027692469..
10/4/2017		0.027692469..				
10/5/2017						
10/6/2017						
10/9/2017						
3/16/2018	0.026441267..					
3/19/2018						
3/20/2018			0.02314 (J)	0.02314 (J)	0.026441267..	
3/21/2018		0.026441267..				0.026441267..
3/22/2018						
3/23/2018						

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 6/25/2018 1:48 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-11R	GWC-11	GWC-13	GWC-12	GWC-13R_13RZ	GWC-10	GWC-10R	GWC-6	GWC-15R
8/21/2007	0.016878221..	0.01873	0.02563	0.016878221..	0.016878221..	0.016878221..	0.016878221..		
8/22/2007								0.016878221..	
8/23/2007									0.016878221..
8/24/2007									
10/23/2007									
10/24/2007									
10/25/2007								0.01943	
11/1/2007	0.015598636..	0.01775	0.015598636..	0.01845	0.015598636..	0.015598636..	0.015598636..		
11/2/2007									0.015598636..
11/17/2007									0.015598636..
11/18/2007	0.015598636..	0.01885							
11/19/2007			0.015598636..	0.01985	0.015598636..				
11/20/2007						0.01895	0.015598636..	0.015598636..	
1/15/2008									0.015598636..
1/16/2008				0.02235					
1/23/2008								0.01905	
1/30/2008	0.015598636..	0.01705				0.02225	0.015598636..		
1/31/2008			0.01805		0.015598636..				
3/5/2008		0.010999999..	0.010999999..	0.9897	0.010999999..				
3/6/2008	0.1197					0.01345	0.010999999..		0.010999999..
3/10/2008									
3/11/2008								0.010999999..	
5/6/2008									
5/7/2008	0.015535294..	0.015535294..			0.015535294..				0.015535294..
5/8/2008							0.015535294..		
5/12/2008			0.015535294..			0.015535294..			
5/13/2008				0.02429					
5/14/2008								0.015535294..	
12/2/2008									0.015598636..
12/4/2008									
12/5/2008									
12/11/2008								0.015598636..	
12/12/2008					0.02225				
12/13/2008			0.02535	0.02165		0.02735			
12/14/2008	0.015598636..	0.015598636..					0.015598636..		
4/15/2009									
4/16/2009				0.01305					
4/21/2009									
4/23/2009								0.010999999..	
4/28/2009			0.010999999..						0.010999999..
4/29/2009	0.010999999..	0.010999999..			0.010999999..	0.010999999..	0.010999999..		
10/6/2009									
10/7/2009									
10/8/2009									
10/9/2009								0.016878221..	
10/13/2009									
10/19/2009									0.016878221..
10/20/2009						0.016878221..			
10/21/2009			0.016878221..	0.01953	0.016878221..		0.016878221..		
10/22/2009	0.016878221..	0.016878221..							
4/20/2010									
4/21/2010	0.010999999..	0.010999999..					0.010999999..		

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 6/25/2018 1:48 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-11R	GWC-11	GWC-13	GWC-12	GWC-13R_13RZ	GWC-10	GWC-10R	GWC-6	GWC-15R
4/26/2010						0.010999999..			
4/27/2010				0.01415					0.010999999..
4/28/2010			0.010999999..		0.010999999..				
5/3/2010									
5/4/2010								0.015535294..	
9/28/2010		0.016878221..					0.016878221..		
9/29/2010	0.016878221..					0.016878221..			
9/30/2010									
10/4/2010									0.016878221..
10/5/2010			0.016878221..	0.02063					
10/6/2010					0.016878221..				
10/11/2010								0.016878221..	
10/12/2010									
4/12/2011		0.010999999..					0.010999999..		
4/13/2011	0.010999999..					0.010999999..			
4/14/2011									
4/18/2011									0.010999999..
4/19/2011			0.010999999..	0.01365					
4/20/2011					0.010999999..				
4/21/2011									
4/26/2011								0.010999999..	
4/27/2011									
4/28/2011									
10/4/2011	0.016878221..	0.016878221..					0.016878221..		
10/5/2011						0.016878221..			
10/12/2011				0.01883	0.016878221..				0.016878221..
10/13/2011									
10/17/2011									
10/18/2011			0.016878221..					0.016878221..	
10/19/2011									
4/3/2012		0.012249999..					0.012249999..		
4/4/2012	0.012249999..					0.012249999..			
4/11/2012									
4/23/2012									0.012249999..
4/24/2012				0.012249999..					
4/25/2012			0.012249999..		0.012249999..				
4/30/2012									
5/1/2012									
5/2/2012								0.016785294..	
10/2/2012			0.016278221..	0.016278221..	0.016278221..				
10/3/2012	0.016278221..	0.01933				0.01743			
10/8/2012							0.016278221..	0.016278221..	
10/9/2012									
10/10/2012									0.016278221..
4/2/2013			0.010399999..	0.01355	0.010399999..				
4/3/2013	0.010399999..	0.010399999..				0.01115	0.010399999..		
4/8/2013									
4/9/2013									
4/10/2013								0.010399999..	
4/11/2013									
4/12/2013									
4/15/2013									0.010399999..

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 6/25/2018 1:48 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-11R	GWC-11	GWC-13	GWC-12	GWC-13R_13RZ	GWC-10	GWC-10R	GWC-6	GWC-15R
4/16/2013									
10/8/2013			0.016278221..		0.016278221..			0.016278221..	
10/9/2013	0.016278221..	0.016278221..		0.01863					
10/15/2013						0.01743	0.016278221..		
10/16/2013									
10/22/2013									0.016278221..
4/1/2014			0.01	0.01245	0.01				
4/2/2014	0.01	0.01335							
4/9/2014						0.01105 (J)	0.01		
4/10/2014									
4/11/2014									
4/14/2014								0.01105 (J)	
4/21/2014									0.01
4/22/2014									
4/23/2014									
9/30/2014									0.016278221..
10/1/2014			0.016278221..		0.016278221..				
10/2/2014	0.016278221..	0.03163		0.01833		0.016278221..	0.016278221..		
10/3/2014								0.01634 (J)	
10/4/2014									
3/30/2015									
3/31/2015					0.010399999..				
4/1/2015	0.01235	0.010399999..	0.010399999..	0.01255				0.010399999..	
4/2/2015						0.010399999..	0.010399999..		
4/3/2015									0.010399999..
5/26/2015									
6/18/2015									
7/2/2015									
10/6/2015									
10/7/2015									0.016278221..
10/8/2015									
10/9/2015								0.016278221..	
10/10/2015						0.016278221..			
10/11/2015	0.01628 (J)	0.016278221..							
10/12/2015							0.016278221..		
10/13/2015									
10/14/2015				0.01863	0.016278221..				
10/15/2015			0.01614 (J)						
3/22/2016									
3/23/2016									
3/28/2016									
3/29/2016								0.014749999..	
3/30/2016									
3/31/2016						0.014749999..	0.014749999..		
4/4/2016	0.014749999..	0.014749999..	0.014749999..	0.01326 (J)	0.014749999..				
4/5/2016									0.014749999..
5/19/2016									
5/20/2016									
5/23/2016									
5/24/2016								0.019285294..	
5/25/2016									
5/26/2016	0.019285294..	0.019285294..				0.019285294..	0.019285294..		

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 6/25/2018 1:48 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-11R	GWC-11	GWC-13	GWC-12	GWC-13R_13RZ	GWC-10	GWC-10R	GWC-6	GWC-15R
5/27/2016				0.01761 (J)					
5/31/2016			0.019285294..						0.019285294..
6/1/2016					0.019285294..				
7/29/2016									
8/1/2016								0.020628221..	
8/2/2016									
8/3/2016		0.020628221..		0.01863 (J)			0.020628221..		
8/4/2016	0.020628221..		0.020628221..						0.020628221..
8/5/2016						0.020628221..			
8/9/2016									
9/22/2016									
9/23/2016									
9/26/2016								0.020628221..	
9/27/2016									
9/28/2016	0.020628221..	0.020628221..				0.020628221..	0.020628221..		
9/29/2016			0.020628221..						0.020628221..
9/30/2016				0.01913 (J)					
11/9/2016									
11/10/2016									
11/11/2016									
11/14/2016									
11/18/2016								0.019348636..	
11/21/2016									
11/22/2016	0.019348636..	0.019348636..		0.01705 (J)		0.01495 (J)	0.019348636..		
11/23/2016									0.019348636..
11/28/2016			0.019348636..						
1/30/2017									
1/31/2017									
2/1/2017								0.014749999..	
2/3/2017									
2/6/2017									
2/7/2017						0.01145 (J)	0.014749999..		
2/8/2017	0.014749999..	0.014749999..							
2/9/2017			0.014749999..						
2/10/2017									0.014749999..
2/13/2017				0.01275 (J)					
2/22/2017					0.014749999..				
3/30/2017									
4/3/2017									
4/6/2017								0.014749999..	
4/7/2017									
4/10/2017	0.014749999..	0.014749999..				0.014749999..	0.014749999..		
4/11/2017				0.01285 (J)	0.014749999..				
4/12/2017			0.014749999..						0.01035 (J)
6/9/2017									
6/12/2017									
6/13/2017								0.019285294..	
6/14/2017				0.01739 (J)		0.019285294..	0.019285294..		
6/15/2017	0.019285294..	0.019285294..							0.01469 (J)
6/16/2017			0.019285294..		0.019285294..				
7/12/2017					0.019285294..				
7/14/2017									

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 6/25/2018 1:48 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-11R	GWC-11	GWC-13	GWC-12	GWC-13R_13RZ	GWC-10	GWC-10R	GWC-6	GWC-15R
7/20/2017									
7/26/2017									
7/28/2017					0.019285294..				
8/9/2017									
8/10/2017					0.020628221..				
8/24/2017									
10/2/2017									
10/3/2017								0.020628221..	
10/4/2017	0.020628221..	0.020628221..		0.01883 (J)		0.020628221..	0.020628221..		
10/5/2017									
10/6/2017					0.020628221..				0.020628221..
10/9/2017			0.020628221..						
3/16/2018									
3/19/2018								0.014749999..	
3/20/2018						0.01185 (J)			
3/21/2018		0.014749999..	0.014749999..				0.014749999..		
3/22/2018	0.014749999..			0.01305 (J)					
3/23/2018					0.014749999..				0.014749999..

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 6/25/2018 1:48 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-2 (bg)	GWA-2R (bg)	GWC-9	GWA-3 (bg)	GWC-5	GWA-1 (bg)	GWC-14_14Z	GWC-15_15Z	GWA-50R (bg)
8/21/2007									
8/22/2007									
8/23/2007	0.016878221..	0.016878221..	0.016878221..	0.01893	0.016878221..	0.016878221..			
8/24/2007							0.016878221..	0.016878221..	
10/23/2007						0.016878221..			
10/24/2007	0.02863	0.016878221..							
10/25/2007					0.016878221..				
11/1/2007			0.015598636..						
11/2/2007				0.01895			0.015598636..	0.015598636..	
11/17/2007							0.01825		
11/18/2007	0.01845	0.015598636..		0.02005		0.015598636..		0.015598636..	
11/19/2007			0.01775		0.015598636..				
11/20/2007									
1/15/2008			0.02105				0.015598636..	0.01725	
1/16/2008									
1/23/2008					0.02165				
1/30/2008						0.01885			
1/31/2008	0.015598636..	0.0083 (O)		0.01985					
3/5/2008							0.01475		
3/6/2008			0.1397						
3/10/2008		0.010999999..				0.010999999..		0.07875	
3/11/2008	0.010999999..			0.01305	0.01225				
5/6/2008	0.015535294..								
5/7/2008							0.015535294..		
5/8/2008									
5/12/2008					0.015535294..				
5/13/2008		0.015535294..	0.015535294..			0.015535294..		0.015535294..	
5/14/2008				0.01869					
12/2/2008							0.02535	0.01705	
12/4/2008	0.02635	0.015598636..							
12/5/2008				0.01785		0.015598636..			
12/11/2008					0.015598636..				
12/12/2008			0.01855						0.015598636..
12/13/2008									
12/14/2008									
4/15/2009				0.010999999..	0.010999999..	0.010999999..			
4/16/2009			0.01445				0.01475		
4/21/2009	0.010999999..	0.010999999..							
4/23/2009									0.01265
4/28/2009								0.010999999..	
4/29/2009									
10/6/2009									0.016878221..
10/7/2009	0.016878221..					0.01973			
10/8/2009		0.016878221..		0.016878221..					
10/9/2009					0.016878221..				
10/13/2009			0.01933						
10/19/2009									
10/20/2009							0.02303	0.016878221..	
10/21/2009									
10/22/2009									
4/20/2010							0.010999999..		
4/21/2010		0.010999999..	0.010999999..						

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 6/25/2018 1:48 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-2 (bg)	GWA-2R (bg)	GWC-9	GWA-3 (bg)	GWC-5	GWA-1 (bg)	GWC-14_14Z	GWC-15_15Z	GWA-50R (bg)
4/26/2010	0.010999999..								
4/27/2010								0.010999999..	
4/28/2010				0.010999999..					
5/3/2010						0.015535294..			0.015535294..
5/4/2010					0.015535294..				
9/28/2010		0.016878221..							
9/29/2010			0.016878221..				0.016878221..		
9/30/2010									
10/4/2010	0.016878221..								
10/5/2010								0.016878221..	
10/6/2010				0.016878221..					
10/11/2010									0.016878221..
10/12/2010					0.016878221..	0.016878221..			
4/12/2011		0.010999999..					0.010999999..		
4/13/2011	0.010999999..		0.010999999..						
4/14/2011									
4/18/2011									
4/19/2011								0.010999999..	
4/20/2011									
4/21/2011				0.010999999..					
4/26/2011									
4/27/2011						0.010999999..			0.01255
4/28/2011					0.010999999..				
10/4/2011		0.016878221..					0.016878221..		
10/5/2011	0.016878221..		0.016878221..						
10/12/2011								0.016878221..	
10/13/2011				0.016878221..					
10/17/2011						0.016878221..			
10/18/2011									
10/19/2011					0.016878221..				0.016878221..
4/3/2012		0.012249999..							
4/4/2012			0.012249999..				0.012249999..		
4/11/2012	0.012249999..								
4/23/2012									
4/24/2012									
4/25/2012								0.012249999..	
4/30/2012									
5/1/2012				0.016785294..					0.016785294..
5/2/2012					0.016785294..	0.016785294..			
10/2/2012									0.016278221..
10/3/2012									
10/8/2012			0.016278221..			0.016278221..			
10/9/2012	0.016278221..	0.016278221..		0.016278221..	0.01803				
10/10/2012							0.016278221..	0.016278221..	
4/2/2013									
4/3/2013									
4/8/2013			0.010399999..						
4/9/2013									
4/10/2013									0.01115
4/11/2013		0.010399999..		0.010399999..	0.01175				
4/12/2013						0.010399999..			
4/15/2013	0.010399999..						0.010399999..		

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 6/25/2018 1:48 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-2 (bg)	GWA-2R (bg)	GWC-9	GWA-3 (bg)	GWC-5	GWA-1 (bg)	GWC-14_14Z	GWC-15_15Z	GWA-50R (bg)
4/16/2013								0.010399999..	
10/8/2013									
10/9/2013			0.01693						
10/15/2013	0.016278221..								
10/16/2013		0.016278221..		0.016278221..	0.01793	0.016278221..			0.01703
10/22/2013							0.016278221..	0.016278221..	
4/1/2014									
4/2/2014									
4/9/2014			0.01105 (J)						
4/10/2014		0.01							
4/11/2014						0.01			
4/14/2014									
4/21/2014							0.01	0.01	
4/22/2014	0.01								0.01105
4/23/2014				0.01105 (J)	0.01275				
9/30/2014	0.016278221..	0.016278221..	0.016278221..			0.016278221..	0.016278221..	0.016278221..	
10/1/2014									0.016278221..
10/2/2014									
10/3/2014					0.01903				
10/4/2014				0.01644 (J)					
3/30/2015	0.010399999..	0.010399999..				0.01095 (J)			0.01054 (J)
3/31/2015				0.01185	0.01054 (J)				
4/1/2015									
4/2/2015			0.01039 (J)						
4/3/2015							0.010399999..	0.010399999..	
5/26/2015									
6/18/2015									
7/2/2015									
10/6/2015								0.016278221..	
10/7/2015							0.016278221..		
10/8/2015									
10/9/2015									
10/10/2015			0.0168 (D)						
10/11/2015									0.016278221..
10/12/2015				0.01641 (J)	0.01626 (J)				
10/13/2015	0.016278221..	0.016278221..				0.016278221..			
10/14/2015									
10/15/2015									
3/22/2016						0.014749999..			
3/23/2016	0.014749999..	0.014749999..		0.014749999..					
3/28/2016					0.014749999..				0.014749999..
3/29/2016									
3/30/2016			0.014749999..						
3/31/2016									
4/4/2016									
4/5/2016							0.014749999..	0.014749999..	
5/19/2016		0.019285294..				0.019285294..			
5/20/2016	0.019285294..								
5/23/2016				0.019285294..					
5/24/2016									
5/25/2016					0.019285294..				0.019285294..
5/26/2016			0.019285294..						

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 6/25/2018 1:48 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-2 (bg)	GWA-2R (bg)	GWC-9	GWA-3 (bg)	GWC-5	GWA-1 (bg)	GWC-14_14Z	GWC-15_15Z	GWA-50R (bg)
5/27/2016									
5/31/2016								0.019285294..	
6/1/2016							0.019285294..		
7/29/2016	0.019285294..	0.019285294..		0.01499 (J)		0.01469 (J)			
8/1/2016					0.01613 (J)				0.020628221..
8/2/2016									
8/3/2016									
8/4/2016									
8/5/2016			0.020628221..						
8/9/2016							0.01593 (J)		
9/22/2016		0.020628221..		0.01633 (J)					
9/23/2016	0.020628221..					0.020628221..			
9/26/2016									0.020628221..
9/27/2016					0.020628221..				
9/28/2016			0.020628221..						
9/29/2016									
9/30/2016									
11/9/2016	0.019348636..					0.019348636..			
11/10/2016		0.019348636..		0.01505 (J)					
11/11/2016					0.01495 (J)				0.019348636..
11/14/2016									
11/18/2016									
11/21/2016			0.019348636..						
11/22/2016									
11/23/2016								0.019348636..	
11/28/2016							0.019348636..		
1/30/2017						0.019348636..			0.019348636..
1/31/2017	0.019348636..	0.019348636..		0.01505 (J)	0.01505 (J)				
2/1/2017									
2/3/2017									
2/6/2017			0.014749999..						
2/7/2017									
2/8/2017									
2/9/2017							0.014749999..		
2/10/2017								0.014749999..	
2/13/2017									
2/22/2017									
3/30/2017	0.014749999..			0.01045 (J)		0.014749999..			
4/3/2017		0.014749999..			0.01025 (J)				0.014749999..
4/6/2017			0.014749999..						
4/7/2017									
4/10/2017									
4/11/2017							0.014749999..	0.014749999..	
4/12/2017									
6/9/2017		0.019285294..				0.019285294..			
6/12/2017	0.019285294..			0.01499 (J)	0.01469 (J)				0.019285294..
6/13/2017			0.019285294..						
6/14/2017							0.019285294..		
6/15/2017								0.019285294..	
6/16/2017									
7/12/2017							0.019285294..	0.019285294..	
7/14/2017									

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 6/25/2018 1:48 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-2 (bg)	GWA-2R (bg)	GWC-9	GWA-3 (bg)	GWC-5	GWA-1 (bg)	GWC-14_14Z	GWC-15_15Z	GWA-50R (bg)
7/20/2017									
7/26/2017								0.019285294..	
7/28/2017									
8/9/2017									
8/10/2017									
8/24/2017									
10/2/2017	0.020628221..	0.020628221..				0.020628221..			0.020628221..
10/3/2017			0.020628221..		0.01593 (J)				
10/4/2017				0.01623 (J)					
10/5/2017							0.020628221..		
10/6/2017								0.020628221..	
10/9/2017									
3/16/2018		0.014749999..				0.014749999..			0.014749999..
3/19/2018	0.014749999..			0.01034 (J)	0.014749999..				
3/20/2018			0.014749999..						
3/21/2018									
3/22/2018							0.014749999..		
3/23/2018								0.014749999..	

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 6/25/2018 1:48 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50 (bg)	GWC-8RR	GWC-8Z	GWC-6RZ	GWC-7Z	GWA-4RZ (bg)
8/21/2007						
8/22/2007						
8/23/2007						
8/24/2007						
10/23/2007						
10/24/2007						
10/25/2007						
11/1/2007						
11/2/2007						
11/17/2007						
11/18/2007						
11/19/2007						
11/20/2007						
1/15/2008						
1/16/2008						
1/23/2008						
1/30/2008						
1/31/2008						
3/5/2008						
3/6/2008						
3/10/2008						
3/11/2008						
5/6/2008						
5/7/2008						
5/8/2008						
5/12/2008						
5/13/2008						
5/14/2008						
12/2/2008						
12/4/2008						
12/5/2008						
12/11/2008						
12/12/2008	0.015598636..					
12/13/2008						
12/14/2008						
4/15/2009						
4/16/2009						
4/21/2009						
4/23/2009	0.010999999..					
4/28/2009						
4/29/2009						
10/6/2009	0.016878221..					
10/7/2009						
10/8/2009						
10/9/2009						
10/13/2009						
10/19/2009						
10/20/2009						
10/21/2009						
10/22/2009						
4/20/2010						
4/21/2010						

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 6/25/2018 1:48 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50 (bg)	GWC-8RR	GWC-8Z	GWC-6RZ	GWC-7Z	GWA-4RZ (bg)
4/26/2010						
4/27/2010	0.010999999..					
4/28/2010						
5/3/2010						
5/4/2010						
9/28/2010						
9/29/2010						
9/30/2010	0.016878221..					
10/4/2010						
10/5/2010						
10/6/2010						
10/11/2010						
10/12/2010						
4/12/2011						
4/13/2011						
4/14/2011	0.010999999..					
4/18/2011						
4/19/2011						
4/20/2011						
4/21/2011						
4/26/2011						
4/27/2011						
4/28/2011						
10/4/2011						
10/5/2011	0.016878221..					
10/12/2011						
10/13/2011						
10/17/2011						
10/18/2011		0.016878221..				
10/19/2011						
4/3/2012						
4/4/2012						
4/11/2012	0.012249999..					
4/23/2012						
4/24/2012						
4/25/2012						
4/30/2012		0.012249999..				
5/1/2012						
5/2/2012						
10/2/2012	0.016278221..					
10/3/2012		0.016278221..				
10/8/2012						
10/9/2012						
10/10/2012						
4/2/2013						
4/3/2013						
4/8/2013		0.010399999..				
4/9/2013	0.010399999..					
4/10/2013						
4/11/2013						
4/12/2013						
4/15/2013						

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 6/25/2018 1:48 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50 (bg)	GWC-8RR	GWC-8Z	GWC-6RZ	GWC-7Z	GWA-4RZ (bg)
4/16/2013						
10/8/2013						
10/9/2013		0.016278221..				
10/15/2013	0.016278221..					
10/16/2013						
10/22/2013						
4/1/2014						
4/2/2014						
4/9/2014						
4/10/2014	0.01	0.01105 (J)				
4/11/2014						
4/14/2014						
4/21/2014						
4/22/2014						
4/23/2014						
9/30/2014						
10/1/2014	0.016278221..					
10/2/2014		0.016278221..				
10/3/2014						
10/4/2014						
3/30/2015	0.010399999..					
3/31/2015						
4/1/2015						
4/2/2015						
4/3/2015		0.010399999..				
5/26/2015			0.01609	0.014935294..		
6/18/2015			0.01609 (D)	0.014935294.. (D)		
7/2/2015			0.01559	0.014935294..		
10/6/2015						
10/7/2015						
10/8/2015		0.01703	0.016278221..			
10/9/2015				0.016278221..		
10/10/2015						
10/11/2015	0.016278221..					
10/12/2015						
10/13/2015						
10/14/2015						
10/15/2015						
3/22/2016			0.014749999..			
3/23/2016						
3/28/2016	0.014749999..					
3/29/2016				0.014749999..		
3/30/2016		0.014749999..				
3/31/2016						
4/4/2016						
4/5/2016						
5/19/2016						
5/20/2016						
5/23/2016	0.019285294..					
5/24/2016		0.019285294..		0.019285294..		
5/25/2016			0.019285294..			
5/26/2016						

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 6/25/2018 1:49 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50 (bg)	GWC-8RR	GWC-8Z	GWC-6RZ	GWC-7Z	GWA-4RZ (bg)
5/27/2016						
5/31/2016					0.019285294..	
6/1/2016						
7/29/2016						
8/1/2016	0.020628221..			0.020628221..		
8/2/2016		0.020628221..	0.020628221..		0.01743 (J)	
8/3/2016						
8/4/2016						
8/5/2016						
8/9/2016						
9/22/2016						
9/23/2016						
9/26/2016	0.020628221..		0.020628221..	0.020628221..		
9/27/2016		0.020628221..			0.01673 (J)	
9/28/2016						
9/29/2016						
9/30/2016						
11/9/2016						
11/10/2016	0.019348636..					
11/11/2016						
11/14/2016				0.019348636..		
11/18/2016						
11/21/2016			0.019348636..		0.01515 (J)	
11/22/2016		0.019348636..				
11/23/2016						
11/28/2016						
1/30/2017	0.019348636..					
1/31/2017						
2/1/2017				0.014749999..	0.01055 (J)	
2/3/2017			0.014749999..			
2/6/2017		0.014749999..				
2/7/2017						
2/8/2017						
2/9/2017						
2/10/2017						
2/13/2017						
2/22/2017						0.014749999..
3/30/2017						
4/3/2017						
4/6/2017		0.014749999..		0.014749999..	0.01055 (J)	
4/7/2017	0.014749999..		0.014749999..			0.01155 (J)
4/10/2017						
4/11/2017						
4/12/2017						
6/9/2017						
6/12/2017	0.019285294..					
6/13/2017			0.019285294..	0.019285294..	0.01499 (J)	
6/14/2017		0.019285294..				0.01879 (J)
6/15/2017						
6/16/2017						
7/12/2017						0.01889 (J)
7/14/2017					0.01479 (J)	

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 6/25/2018 1:49 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50 (bg)	GWC-8RR	GWC-8Z	GWC-6RZ	GWC-7Z	GWA-4RZ (bg)
7/20/2017						0.02519
7/26/2017						
7/28/2017						0.02469
8/9/2017						0.01783 (J)
8/10/2017						
8/24/2017						0.02323 (J)
10/2/2017	0.020628221..					
10/3/2017			0.020628221..	0.020628221..	0.01633 (J)	0.01843 (J)
10/4/2017		0.020628221..				
10/5/2017						
10/6/2017						
10/9/2017						
3/16/2018	0.014749999..					
3/19/2018						
3/20/2018			0.014749999..	0.014749999..	0.01051 (J)	
3/21/2018		0.014749999..				0.02375
3/22/2018						
3/23/2018						

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 6/25/2018 1:49 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-13	GWC-10	GWC-13R_13RZ	GWC-10R	GWC-11R	GWC-11	GWC-12	GWC-6	GWA-1 (bg)
8/21/2007	<0.0025	0.0058	<0.0025	0.007	0.0032	<0.0025	<0.0025		
8/22/2007								0.0033	
8/23/2007									0.0066
8/24/2007									
10/23/2007									0.0076
10/24/2007									
10/25/2007								<0.0025	
11/1/2007	<0.0025	<0.0025	<0.0025	<0.0025	0.0031	<0.0025	<0.0025		
11/2/2007									
11/17/2007									
11/18/2007					<0.0025	<0.0025			0.0055 (J)
11/19/2007	0.0035		0.0043				0.0029		
11/20/2007		0.006		0.0032				0.0052	
1/15/2008									
1/16/2008							0.0067		
1/23/2008								0.0069	
1/30/2008		0.0037		0.0039	<0.0025	<0.0025			0.0094
1/31/2008	<0.0025		<0.0025						
3/5/2008	<0.0025		<0.0025			<0.0025	0.0058		
3/6/2008		0.004		<0.0025	<0.0025				
3/10/2008									0.0056
3/11/2008								0.0029	
5/6/2008									
5/7/2008			<0.0025		0.0029	0.0037			
5/8/2008				0.0039					
5/12/2008	<0.0025	<0.0025							
5/13/2008							<0.0025		0.0027
5/14/2008								0.0035	
12/2/2008									
12/4/2008									
12/5/2008									<0.0025
12/11/2008								<0.0025	
12/12/2008			0.013						
12/13/2008	0.0028	0.0051					<0.0025		
12/14/2008				0.0046	<0.0025	<0.0025			
4/15/2009									<0.0025
4/16/2009							0.0032		
4/21/2009									
4/23/2009								0.0038	
4/28/2009	<0.0025								
4/29/2009		0.003	0.0029	<0.0025	<0.0025	<0.0025			
10/6/2009									
10/7/2009									0.0076
10/8/2009									
10/9/2009								0.0032	
10/13/2009									
10/19/2009									
10/20/2009		<0.0025							
10/21/2009	<0.0025		<0.0025	<0.0025			<0.0025		
10/22/2009					<0.0025	<0.0025			
4/20/2010									
4/21/2010				<0.0025	<0.0025	<0.0025			

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 6/25/2018 1:49 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-13	GWC-10	GWC-13R_13RZ	GWC-10R	GWC-11R	GWC-11	GWC-12	GWC-6	GWA-1 (bg)
4/26/2010		<0.0025							
4/27/2010							0.0034		
4/28/2010	<0.0025		0.0032						
5/3/2010									<0.0025
5/4/2010								<0.0025	
9/28/2010				<0.0025		0.0028			
9/29/2010		<0.0025			<0.0025				
9/30/2010									
10/4/2010									
10/5/2010	<0.0025						<0.0025		
10/6/2010			<0.0025						
10/11/2010								0.0029	
10/12/2010									<0.0025
4/12/2011				<0.0025		<0.0025			
4/13/2011		<0.0025			<0.0025				
4/14/2011									
4/18/2011									
4/19/2011	<0.0025						<0.0025		
4/20/2011			<0.0025						
4/21/2011									
4/26/2011								<0.0025	
4/27/2011									<0.0025
4/28/2011									
10/4/2011				<0.013	<0.013	0.013			
10/5/2011		<0.013							
10/12/2011			<0.013				<0.013		
10/13/2011									
10/17/2011									<0.013
10/18/2011	<0.013							<0.013	
10/19/2011									
4/3/2012				<0.005		<0.005			
4/4/2012		<0.005			<0.005				
4/11/2012									
4/23/2012									
4/24/2012							<0.005		
4/25/2012	<0.005		<0.005						
4/30/2012									
5/1/2012									
5/2/2012								<0.005	<0.005
10/2/2012	<0.005		<0.005				<0.005		
10/3/2012		<0.005			<0.005	<0.005			
10/8/2012				<0.005				<0.005	<0.005
10/9/2012									
10/10/2012									
4/2/2013	<0.005		<0.005				0.0063		
4/3/2013		<0.005		<0.005	<0.005	<0.005			
4/8/2013									
4/9/2013									
4/10/2013								<0.005	
4/11/2013									
4/12/2013									<0.005
4/15/2013									

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 6/25/2018 1:49 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-13	GWC-10	GWC-13R_13RZ	GWC-10R	GWC-11R	GWC-11	GWC-12	GWC-6	GWA-1 (bg)
4/16/2013									
10/8/2013	<0.005		<0.005					<0.005	
10/9/2013					<0.005	<0.005	<0.005		
10/15/2013		<0.005		<0.005					
10/16/2013									<0.005
10/22/2013									
4/1/2014	<0.000825		0.005 (J)				<0.000825		
4/2/2014					0.005 (J)	<0.000825			
4/9/2014		<0.000825		<0.000825					
4/10/2014									
4/11/2014									0.005 (J)
4/14/2014								0.005 (J)	
4/21/2014									
4/22/2014									
4/23/2014									
9/30/2014									<0.005
10/1/2014	<0.005		<0.005						
10/2/2014		<0.005		<0.005	0.0022 (J)	0.00084 (J)	<0.005		
10/3/2014								0.00091 (J)	
10/4/2014									
3/30/2015									0.0033 (J)
3/31/2015			<0.005						
4/1/2015	<0.005				0.019 (O)	<0.005	<0.005	0.0011 (J)	
4/2/2015		<0.005		<0.005					
4/3/2015									
5/26/2015									
6/18/2015									
7/2/2015									
10/6/2015									
10/7/2015									
10/8/2015									
10/9/2015								<0.005	
10/10/2015		0.0027 (J)							
10/11/2015					0.013	<0.005			
10/12/2015				<0.005					
10/13/2015									0.0013 (J)
10/14/2015			<0.005				0.0017 (J)		
10/15/2015	<0.005								
3/22/2016									<0.025
3/23/2016									
3/28/2016									
3/29/2016								<0.025	
3/30/2016									
3/31/2016		<0.025		<0.025					
4/4/2016	<0.025		<0.025		<0.025	<0.025	<0.025		
4/5/2016									
7/29/2016									<0.025
8/1/2016								<0.025	
8/2/2016									
8/3/2016				<0.025		<0.025	<0.025		
8/4/2016	<0.025				<0.025				
8/5/2016		<0.025							

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 6/25/2018 1:49 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-13	GWC-10	GWC-13R_13RZ	GWC-10R	GWC-11R	GWC-11	GWC-12	GWC-6	GWA-1 (bg)
8/9/2016									
3/30/2017									0.0004 (J)
4/3/2017									
4/6/2017								<0.025	
4/7/2017									
4/10/2017		<0.025		<0.025	<0.025	<0.025			
4/11/2017			<0.025				0.0003 (J)		
4/12/2017	0.0003 (J)								
10/2/2017									0.0003 (J)
10/3/2017								<0.025	
10/4/2017		<0.025		<0.025	<0.025	<0.025	<0.025		
10/5/2017									
10/6/2017			<0.025						
10/9/2017	0.0005 (J)								
3/16/2018									<0.025
3/19/2018								<0.025	
3/20/2018		<0.025							
3/21/2018	<0.025			<0.025		<0.025			
3/22/2018					<0.025		<0.025		
3/23/2018			<0.025						

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 6/25/2018 1:49 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-9	GWA-2 (bg)	GWA-2R (bg)	GWC-15R	GWC-5	GWA-3 (bg)	GWC-14_14Z	GWC-15_15Z	GWA-50 (bg)
8/21/2007									
8/22/2007									
8/23/2007	<0.0025	<0.0025	0.0036	<0.0025	0.0064	0.017			
8/24/2007							0.0048 (J)	0.021	
10/23/2007									
10/24/2007		0.0088	<0.0025						
10/25/2007					0.0081				
11/1/2007	0.0047								
11/2/2007				<0.0025		0.016	<0.0025	0.0037	
11/17/2007				0.02 (O)			0.0031		
11/18/2007		0.0075	0.013 (O)			0.048		0.007 (J)	
11/19/2007	0.0067 (J)				0.0059				
11/20/2007									
1/15/2008	0.01			0.0043			0.0033	0.0055	
1/16/2008									
1/23/2008					0.018				
1/30/2008									
1/31/2008		<0.0025	0.0069			0.039			
3/5/2008							0.0026		
3/6/2008	0.007			<0.0025					
3/10/2008			0.0044					0.0042	
3/11/2008		0.0068			0.027	0.037			
5/6/2008		<0.0025							
5/7/2008				0.0026			0.0028		
5/8/2008									
5/12/2008					0.016				
5/13/2008	<0.0025		0.0033					<0.0025	
5/14/2008						0.051			
12/2/2008				<0.0025			0.0029	0.0039	
12/4/2008		0.013	<0.0025						
12/5/2008						0.038			
12/11/2008					0.016				
12/12/2008	0.0048								0.018
12/13/2008									
12/14/2008									
4/15/2009					0.017	0.033			
4/16/2009	0.0042						0.0035		
4/21/2009		<0.0025	<0.0025						
4/23/2009									0.013
4/28/2009				0.003				<0.0025	
4/29/2009									
10/6/2009									0.012
10/7/2009		<0.0025							
10/8/2009			<0.0025			0.037			
10/9/2009					0.045				
10/13/2009	0.0034								
10/19/2009				<0.0025					
10/20/2009							0.0056	<0.0025	
10/21/2009									
10/22/2009									
4/20/2010							<0.0025		
4/21/2010	<0.0025		<0.0025						

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 6/25/2018 1:49 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-9	GWA-2 (bg)	GWA-2R (bg)	GWC-15R	GWC-5	GWA-3 (bg)	GWC-14_14Z	GWC-15_15Z	GWA-50 (bg)
4/26/2010		<0.0025							
4/27/2010				<0.0025				<0.0025	0.0095
4/28/2010						0.037			
5/3/2010									
5/4/2010					0.031				
9/28/2010			<0.0025						
9/29/2010	<0.0025						<0.0025		
9/30/2010									0.0087
10/4/2010		0.0027		0.0025					
10/5/2010								<0.0025	
10/6/2010						0.041			
10/11/2010									
10/12/2010					0.024				
4/12/2011			<0.0025				<0.0025		
4/13/2011	<0.0025	0.0029							
4/14/2011									0.0061
4/18/2011				<0.0025					
4/19/2011								<0.0025	
4/20/2011									
4/21/2011						0.034			
4/26/2011									
4/27/2011									
4/28/2011					0.0044				
10/4/2011			<0.013				<0.013		
10/5/2011	<0.013	<0.013							<0.013
10/12/2011				<0.013				<0.013	
10/13/2011						0.048			
10/17/2011									
10/18/2011									
10/19/2011					0.038				
4/3/2012			<0.005						
4/4/2012	<0.005						<0.005		
4/11/2012		<0.005							<0.005
4/23/2012				<0.005					
4/24/2012									
4/25/2012								<0.005	
4/30/2012									
5/1/2012						0.0427			
5/2/2012					0.0865 (O)				
10/2/2012									<0.005
10/3/2012									
10/8/2012	<0.005								
10/9/2012		<0.005	<0.005		0.053	0.038			
10/10/2012				<0.005			<0.005	<0.005	
4/2/2013									
4/3/2013									
4/8/2013	<0.005								
4/9/2013									0.0053
4/10/2013									
4/11/2013			<0.005		0.04	0.038			
4/12/2013									
4/15/2013		<0.005		<0.005			<0.005		

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 6/25/2018 1:49 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-9	GWA-2 (bg)	GWA-2R (bg)	GWC-15R	GWC-5	GWA-3 (bg)	GWC-14_14Z	GWC-15_15Z	GWA-50 (bg)
4/16/2013								<0.005	
10/8/2013									
10/9/2013	<0.005								
10/15/2013		<0.005							0.0076
10/16/2013			<0.005		0.054	0.036			
10/22/2013				<0.005			<0.005	<0.005	
4/1/2014									
4/2/2014									
4/9/2014	<0.000825								
4/10/2014			0.005 (J)						0.005
4/11/2014									
4/14/2014									
4/21/2014				<0.000825			<0.000825	0.005 (J)	
4/22/2014		<0.000825							
4/23/2014					0.054	0.03			
9/30/2014	<0.005	<0.005	<0.005	<0.005			<0.005	<0.005	
10/1/2014									0.0047 (J)
10/2/2014									
10/3/2014					0.066				
10/4/2014						0.029			
3/30/2015		<0.005	<0.005						0.0048 (J)
3/31/2015					0.025	0.026			
4/1/2015									
4/2/2015	<0.005								
4/3/2015				<0.005			<0.005	<0.005	
5/26/2015									
6/18/2015									
7/2/2015									
10/6/2015								<0.005	
10/7/2015				0.00093 (J)			0.0012 (J)		
10/8/2015									
10/9/2015									
10/10/2015	0.0022 (D)								
10/11/2015									0.0055
10/12/2015					0.018	0.05			
10/13/2015		<0.005	<0.005						
10/14/2015									
10/15/2015									
3/22/2016									
3/23/2016		<0.025	<0.025			0.0297			
3/28/2016					0.0256				<0.025
3/29/2016									
3/30/2016	<0.025								
3/31/2016									
4/4/2016									
4/5/2016				<0.025			<0.025	<0.025	
7/29/2016		0.0032 (J)	0.0006 (J)			0.0419			
8/1/2016					0.0178 (J)				0.0025 (J)
8/2/2016									
8/3/2016									
8/4/2016				0.0007 (J)					
8/5/2016	<0.025								

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 6/25/2018 1:49 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-9	GWA-2 (bg)	GWA-2R (bg)	GWC-15R	GWC-5	GWA-3 (bg)	GWC-14_14Z	GWC-15_15Z	GWA-50 (bg)
8/9/2016							<0.025		
3/30/2017		<0.025				0.0392			
4/3/2017			0.0004 (J)		0.0272				
4/6/2017	0.0003 (J)								
4/7/2017									0.003 (J)
4/10/2017									
4/11/2017							<0.025	0.0003 (J)	
4/12/2017				<0.025					
10/2/2017		<0.025	0.0003 (J)						0.0031 (J)
10/3/2017	<0.025				0.0239 (J)				
10/4/2017						0.0343			
10/5/2017							<0.025		
10/6/2017				0.0003 (J)				<0.025	
10/9/2017									
3/16/2018			<0.025						0.0037 (J)
3/19/2018		0.0025 (J)			0.021 (J)	0.033			
3/20/2018	<0.025								
3/21/2018									
3/22/2018							<0.025		
3/23/2018				<0.025				<0.025	

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 6/25/2018 1:49 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50R (bg)	GWC-8RR	GWC-8Z	GWC-6RZ	GWC-7Z	GWA-4RZ (bg)
8/21/2007						
8/22/2007						
8/23/2007						
8/24/2007						
10/23/2007						
10/24/2007						
10/25/2007						
11/1/2007						
11/2/2007						
11/17/2007						
11/18/2007						
11/19/2007						
11/20/2007						
1/15/2008						
1/16/2008						
1/23/2008						
1/30/2008						
1/31/2008						
3/5/2008						
3/6/2008						
3/10/2008						
3/11/2008						
5/6/2008						
5/7/2008						
5/8/2008						
5/12/2008						
5/13/2008						
5/14/2008						
12/2/2008						
12/4/2008						
12/5/2008						
12/11/2008						
12/12/2008	0.064 (O)					
12/13/2008						
12/14/2008						
4/15/2009						
4/16/2009						
4/21/2009						
4/23/2009	0.034					
4/28/2009						
4/29/2009						
10/6/2009	0.026					
10/7/2009						
10/8/2009						
10/9/2009						
10/13/2009						
10/19/2009						
10/20/2009						
10/21/2009						
10/22/2009						
4/20/2010						
4/21/2010						

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 6/25/2018 1:49 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50R (bg)	GWC-8RR	GWC-8Z	GWC-6RZ	GWC-7Z	GWA-4RZ (bg)
4/26/2010						
4/27/2010						
4/28/2010						
5/3/2010	0.014					
5/4/2010						
9/28/2010						
9/29/2010						
9/30/2010						
10/4/2010						
10/5/2010						
10/6/2010						
10/11/2010	0.014					
10/12/2010						
4/12/2011						
4/13/2011						
4/14/2011						
4/18/2011						
4/19/2011						
4/20/2011						
4/21/2011						
4/26/2011						
4/27/2011	0.028					
4/28/2011						
10/4/2011						
10/5/2011						
10/12/2011						
10/13/2011						
10/17/2011						
10/18/2011		<0.013				
10/19/2011	<0.013					
4/3/2012						
4/4/2012						
4/11/2012						
4/23/2012						
4/24/2012						
4/25/2012						
4/30/2012		<0.005				
5/1/2012	0.0198					
5/2/2012						
10/2/2012	0.011					
10/3/2012		<0.005				
10/8/2012						
10/9/2012						
10/10/2012						
4/2/2013						
4/3/2013						
4/8/2013		<0.005				
4/9/2013						
4/10/2013	0.018					
4/11/2013						
4/12/2013						
4/15/2013						

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 6/25/2018 1:49 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50R (bg)	GWC-8RR	GWC-8Z	GWC-6RZ	GWC-7Z	GWA-4RZ (bg)
4/16/2013						
10/8/2013						
10/9/2013		<0.005				
10/15/2013						
10/16/2013	0.016					
10/22/2013						
4/1/2014						
4/2/2014						
4/9/2014						
4/10/2014		<0.000825				
4/11/2014						
4/14/2014						
4/21/2014						
4/22/2014	0.014					
4/23/2014						
9/30/2014						
10/1/2014	0.0041 (J)					
10/2/2014		<0.005				
10/3/2014						
10/4/2014						
3/30/2015	0.012					
3/31/2015						
4/1/2015						
4/2/2015						
4/3/2015		<0.005				
5/26/2015			<0.005	<0.005		
6/18/2015			0.005 (D)	<0.005 (D)		
7/2/2015			<0.005	<0.005		
10/6/2015						
10/7/2015						
10/8/2015		0.002 (J)	0.00091 (J)			
10/9/2015				<0.005		
10/10/2015						
10/11/2015	0.0049 (J)					
10/12/2015						
10/13/2015						
10/14/2015						
10/15/2015						
3/22/2016			<0.025			
3/23/2016						
3/28/2016	0.00734 (J)					
3/29/2016				<0.025		
3/30/2016		<0.025				
3/31/2016						
4/4/2016						
4/5/2016						
7/29/2016						
8/1/2016	0.0049 (J)			<0.025		
8/2/2016		<0.025	<0.025		<0.025	
8/3/2016						
8/4/2016						
8/5/2016						

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 6/25/2018 1:49 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50R (bg)	GWC-8RR	GWC-8Z	GWC-6RZ	GWC-7Z	GWA-4RZ (bg)
8/9/2016						
3/30/2017						
4/3/2017	0.0023 (J)					
4/6/2017		<0.025		<0.025	0.0004 (J)	
4/7/2017			<0.025			0.0004 (J)
4/10/2017						
4/11/2017						
4/12/2017						
10/2/2017	0.0023 (J)					
10/3/2017			0.0003 (J)	<0.025	0.0006 (J)	<0.025
10/4/2017		<0.025				
10/5/2017						
10/6/2017						
10/9/2017						
3/16/2018	0.0035 (J)					
3/19/2018						
3/20/2018			<0.025	<0.025	<0.025	
3/21/2018		<0.025				<0.025
3/22/2018						
3/23/2018						

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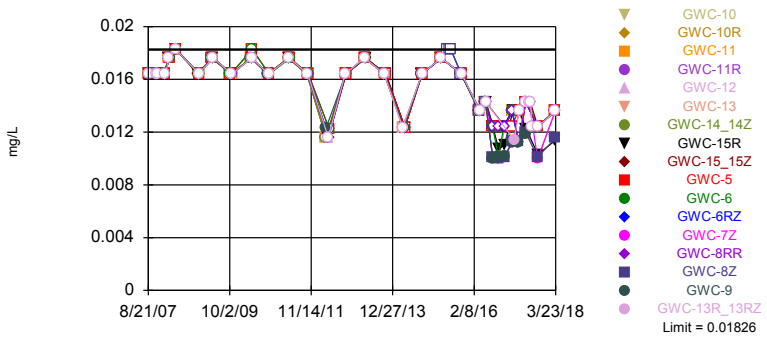
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 184 background values. 94.02% NDs. Report alpha = 0.08458. Individual comparison alpha = 0.005185. Most recent point for each compliance well compared to limit. Data were deseasonalized.

Constituent: Lead Analysis Run 6/25/2018 1:30 PM View: Cell1&2_metals_interwell
Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

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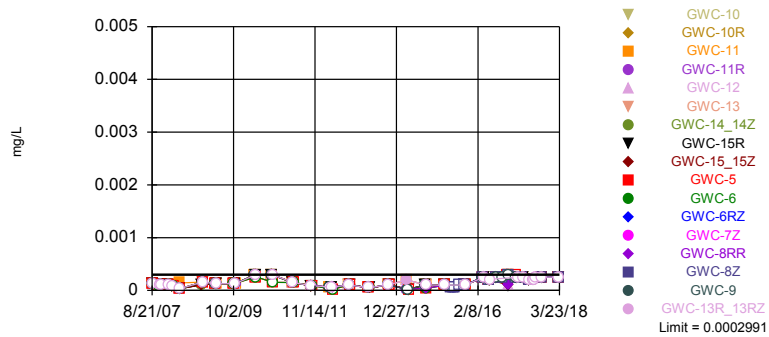
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 184 background values. 98.91% NDs. Report alpha = 0.08458. Individual comparison alpha = 0.005185. Most recent point for each compliance well compared to limit. Data were deseasonalized.

Constituent: Mercury Analysis Run 6/25/2018 1:31 PM View: Cell1&2_metals_interwell
Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

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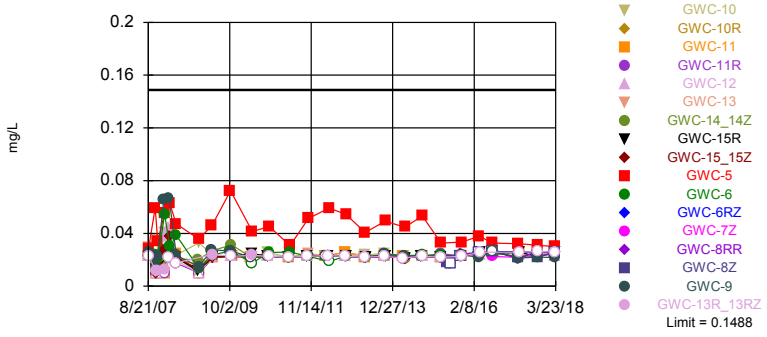
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.05 alpha level. Limit is highest of 147 background values. 46.94% NDs. Report alpha = 0.1037. Individual comparison alpha = 0.006417. Most recent point for each compliance well compared to limit. Data were deseasonalized.

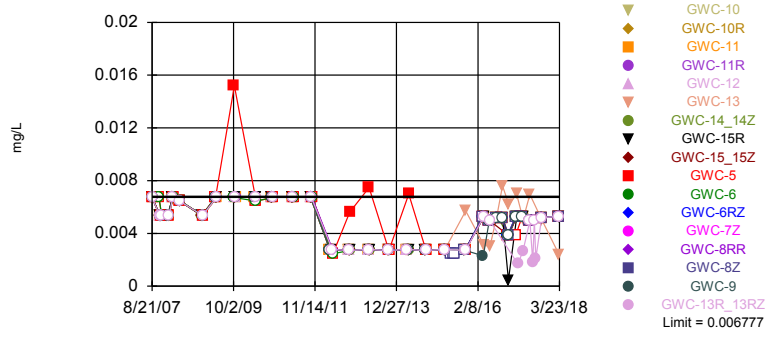
Constituent: Nickel Analysis Run 6/25/2018 1:32 PM View: Cell1&2_metals_interwell
Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

Sanitas™ v.9.5.32 Sanitas software licensed to AMEC. EPA
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 184 background values. 98.37% NDs. Report alpha = 0.08458. Individual comparison alpha = 0.005185. Most recent point for each compliance well compared to limit. Data were deseasonalized.

Constituent: Selenium Analysis Run 6/25/2018 1:32 PM View: Cell1&2_metals_interwell
Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 6/25/2018 1:49 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-10	GWC-11	GWC-11R	GWC-10R	GWC-12	GWC-13	GWC-13R_13RZ	GWC-6	GWA-3 (bg)
8/21/2007	0.016410000..	0.016410000..	0.016410000..	0.016410000..	0.016410000..	0.016410000..	0.016410000..		
8/22/2007								0.016410000..	
8/23/2007									0.016410000..
8/24/2007									
10/23/2007									
10/24/2007									
10/25/2007								0.016410000..	
11/1/2007	0.016451454..	0.016451454..	0.016451454..	0.016451454..	0.016451454..	0.016451454..	0.016451454..		
11/2/2007									0.016451454..
11/17/2007									
11/18/2007		0.016451454..	0.016451454..						0.016451454..
11/19/2007					0.016451454..	0.016451454..	0.016451454..		
11/20/2007	0.016451454..			0.016451454..				0.016451454..	
1/15/2008									
1/16/2008					0.016451454..				
1/23/2008								0.016451454..	
1/30/2008	0.016451454..	0.016451454..	0.016451454..	0.016451454..					
1/31/2008						0.016451454..	0.016451454..		0.016451454..
3/5/2008		0.017618784..			0.017618784..	0.017618784..	0.017618784..		
3/6/2008	0.017618784..		0.017618784..	0.017618784..					
3/10/2008									
3/11/2008								0.017618784..	0.017618784..
5/6/2008									
5/7/2008		0.018259537..	0.018259537..				0.018259537..		
5/8/2008				0.018259537..					
5/12/2008	0.018259537..					0.018259537..			
5/13/2008					0.018259537..				
5/14/2008								0.018259537..	0.018259537..
12/2/2008									
12/4/2008									
12/5/2008									0.016451454..
12/11/2008								0.016451454..	
12/12/2008							0.016451454..		
12/13/2008	0.016451454..				0.016451454..	0.016451454..			
12/14/2008		0.016451454..	0.016451454..	0.016451454..					
4/15/2009									0.017618784..
4/16/2009					0.017618784..				
4/21/2009									
4/23/2009								0.017618784..	
4/28/2009						0.017618784..			
4/29/2009	0.017618784..	0.017618784..	0.017618784..	0.017618784..			0.017618784..		
10/6/2009									
10/7/2009									
10/8/2009									0.016410000..
10/9/2009								0.016410000..	
10/13/2009									
10/19/2009									
10/20/2009	0.016410000..								
10/21/2009				0.016410000..	0.016410000..	0.016410000..	0.016410000..		
10/22/2009		0.016410000..	0.016410000..						
4/20/2010									
4/21/2010		0.017618784..	0.017618784..	0.017618784..					

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 6/25/2018 1:49 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-10	GWC-11	GWC-11R	GWC-10R	GWC-12	GWC-13	GWC-13R_13RZ	GWC-6	GWA-3 (bg)
4/26/2010	0.017618784..								
4/27/2010					0.017618784..				
4/28/2010						0.017618784..	0.017618784..		0.017618784..
5/3/2010									
5/4/2010								0.018259537..	
9/28/2010		0.016410000..		0.016410000..					
9/29/2010	0.016410000..		0.016410000..						
9/30/2010									
10/4/2010									
10/5/2010					0.016410000..	0.016410000..			
10/6/2010							0.016410000..		0.016410000..
10/11/2010								0.016410000..	
10/12/2010									
4/12/2011		0.017618784..		0.017618784..					
4/13/2011	0.017618784..		0.017618784..						
4/14/2011									
4/18/2011									
4/19/2011					0.017618784..	0.017618784..			
4/20/2011							0.017618784..		
4/21/2011									0.017618784..
4/26/2011								0.017618784..	
4/27/2011									
4/28/2011									
10/4/2011		0.016410000..	0.016410000..	0.016410000..					
10/5/2011	0.016410000..								
10/12/2011					0.016410000..		0.016410000..		
10/13/2011									0.016410000..
10/17/2011									
10/18/2011						0.016410000..		0.016410000..	
10/19/2011									
4/3/2012		0.011618784..		0.011618784..					
4/4/2012	0.011618784..		0.011618784..						
4/11/2012									
4/23/2012									
4/24/2012					0.011618784..				
4/25/2012						0.011618784..	0.011618784..		
4/30/2012									
5/1/2012									0.012259537..
5/2/2012								0.012259537..	
10/2/2012					0.016410000..	0.016410000..	0.016410000..		
10/3/2012	0.016410000..	0.016410000..	0.016410000..						
10/8/2012				0.016410000..				0.016410000..	
10/9/2012									0.016410000..
10/10/2012									
4/2/2013					0.017618784..	0.017618784..	0.017618784..		
4/3/2013	0.017618784..	0.017618784..	0.017618784..	0.017618784..					
4/8/2013									
4/9/2013									
4/10/2013								0.017618784..	
4/11/2013									0.017618784..
4/12/2013									
4/15/2013									

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 6/25/2018 1:49 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-10	GWC-11	GWC-11R	GWC-10R	GWC-12	GWC-13	GWC-13R_13RZ	GWC-6	GWA-3 (bg)
4/16/2013									
10/8/2013						0.016410000..	0.016410000..	0.016410000..	
10/9/2013		0.016410000..	0.016410000..		0.016410000..				
10/15/2013	0.016410000..			0.016410000..					
10/16/2013									0.016410000..
10/22/2013									
4/1/2014					0.012368783..	0.012368783..	0.012368783..		
4/2/2014		0.012368783..	0.012368783..						
4/9/2014	0.012368783..			0.012368783..					
4/10/2014									
4/11/2014									
4/14/2014								0.012368783..	
4/21/2014									
4/22/2014									
4/23/2014									0.012368783..
9/30/2014									
10/1/2014						0.016410000..	0.016410000..		
10/2/2014	0.016410000..	0.016410000..	0.016410000..	0.016410000..	0.016410000..				
10/3/2014								0.016410000..	
10/4/2014									0.016410000..
3/30/2015									
3/31/2015							0.017618784..		0.017618784..
4/1/2015		0.017618784..	0.017618784..		0.017618784..	0.017618784..		0.017618784..	
4/2/2015	0.017618784..			0.017618784..					
4/3/2015									
5/26/2015									
6/18/2015									
7/2/2015									
10/6/2015									
10/7/2015									
10/8/2015									
10/9/2015								0.016410000..	
10/10/2015	0.016410000..								
10/11/2015		0.016410000..	0.016410000..						
10/12/2015				0.016410000..					0.016410000..
10/13/2015									
10/14/2015					0.016410000..		0.016410000..		
10/15/2015						0.016410000..			
3/22/2016									
3/23/2016									0.013618783..
3/28/2016									
3/29/2016								0.013618783..	
3/30/2016									
3/31/2016	0.013618783..			0.013618783..					
4/4/2016		0.013618783..	0.013618783..		0.013618783..	0.013618783..	0.013618783..		
4/5/2016									
5/19/2016									
5/20/2016									
5/23/2016									0.014259537..
5/24/2016								0.014259537..	
5/25/2016									
5/26/2016	0.014259537..	0.014259537..	0.014259537..	0.014259537..					

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 6/25/2018 1:50 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-10	GWC-11	GWC-11R	GWC-10R	GWC-12	GWC-13	GWC-13R_13RZ	GWC-6	GWA-3 (bg)
5/27/2016					0.014259537..				
5/31/2016						0.014259537..			
6/1/2016							0.014259537..		
7/29/2016									0.014259537..
8/1/2016								0.012409999..	
8/2/2016									
8/3/2016		0.012409999..		0.012409999..	0.012409999..				
8/4/2016			0.012409999..			0.01001 (J)			
8/5/2016	0.012409999..								
8/9/2016									
9/22/2016									0.012409999.. (*)
9/23/2016									
9/26/2016								0.01021 (J)	
9/27/2016									
9/28/2016	0.012409999..	0.012409999..	0.012409999..	0.012409999..					
9/29/2016						0.01001 (J)			
9/30/2016					0.012409999..				
11/9/2016									
11/10/2016									0.012451454..
11/11/2016									
11/14/2016									
11/18/2016								0.012451454..	
11/21/2016									
11/22/2016	0.012451454..	0.012451454..	0.012451454..	0.012451454..	0.012451454..				
11/23/2016									
11/28/2016						0.012451454..			
1/30/2017									
1/31/2017									0.012451454..
2/1/2017								0.013618783..	
2/3/2017									
2/6/2017									
2/7/2017	0.013618783..			0.013618783..					
2/8/2017		0.013618783..	0.013618783..						
2/9/2017						0.01122 (J)			
2/10/2017									
2/13/2017					0.013618783..				
2/22/2017							0.01142 (J)		
3/30/2017									0.013618783..
4/3/2017									
4/6/2017								0.01119 (J)	
4/7/2017									
4/10/2017	0.013618783..	0.013618783..	0.013618783..	0.013618783..					
4/11/2017					0.013618783.. (*)		0.013618783..		
4/12/2017						0.013618783.. (*)			
6/9/2017									
6/12/2017									0.014259537..
6/13/2017								0.014259537..	
6/14/2017	0.014259537..			0.014259537..	0.014259537..				
6/15/2017		0.01185 (J)	0.014259537..						
6/16/2017						0.01196 (J)	0.014259537..		
7/12/2017							0.014259537..		
7/14/2017									

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 6/25/2018 1:50 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-10	GWC-11	GWC-11R	GWC-10R	GWC-12	GWC-13	GWC-13R_13RZ	GWC-6	GWA-3 (bg)
7/20/2017									
7/26/2017									
7/28/2017							0.014259537..		
8/9/2017									
8/10/2017							0.012409999..		
8/24/2017									
10/2/2017									
10/3/2017								0.012409999..	
10/4/2017	0.012409999..	0.012409999..	0.012409999..	0.012409999..	0.012409999..				0.012409999..
10/5/2017									
10/6/2017							0.012409999..		
10/9/2017						0.01001 (J)			
3/16/2018									
3/19/2018								0.013618783..	0.013618783..
3/20/2018	0.013618783..								
3/21/2018		0.013618783..		0.013618783..		0.013618783..			
3/22/2018			0.013618783..		0.013618783..				
3/23/2018							0.013618783..		

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 6/25/2018 1:50 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-2 (bg)	GWA-1 (bg)	GWA-2R (bg)	GWC-15R	GWC-5	GWC-9	GWC-15_15Z	GWC-14_14Z	GWA-50R (bg)
8/21/2007									
8/22/2007									
8/23/2007	0.016410000..	0.016410000..	0.016410000..	0.016410000..	0.016410000..	0.016410000..			
8/24/2007							0.016410000..	0.016410000..	
10/23/2007		0.016410000..							
10/24/2007	0.016410000..		0.016410000..						
10/25/2007					0.016410000..				
11/1/2007						0.016451454..			
11/2/2007				0.016451454..			0.016451454..	0.016451454..	
11/17/2007				0.016451454..				0.016451454..	
11/18/2007	0.016451454..	0.016451454..	0.016451454..				0.016451454..		
11/19/2007					0.016451454..	0.016451454..			
11/20/2007									
1/15/2008				0.016451454..		0.016451454..	0.016451454..	0.016451454..	
1/16/2008									
1/23/2008					0.016451454..				
1/30/2008		0.016451454..							
1/31/2008	0.016451454..		0.016451454..						
3/5/2008								0.017618784..	
3/6/2008				0.017618784..		0.017618784..			
3/10/2008		0.017618784..	0.017618784..				0.017618784..		
3/11/2008	0.017618784..				0.017618784..				
5/6/2008	0.018259537..								
5/7/2008				0.018259537..				0.018259537..	
5/8/2008									
5/12/2008					0.018259537..				
5/13/2008		0.018259537..	0.018259537..			0.018259537..	0.018259537..		
5/14/2008									
12/2/2008				0.016451454..			0.016451454..	0.016451454..	
12/4/2008	0.016451454..		0.016451454..						
12/5/2008		0.016451454..							
12/11/2008					0.016451454..				
12/12/2008						0.016451454..			0.016451454..
12/13/2008									
12/14/2008									
4/15/2009		0.017618784..			0.017618784..				
4/16/2009						0.017618784..		0.017618784..	
4/21/2009	0.017618784..		0.017618784..						
4/23/2009									0.017618784..
4/28/2009				0.017618784..			0.017618784..		
4/29/2009									
10/6/2009									0.016410000..
10/7/2009	0.016410000..	0.016410000..							
10/8/2009			0.016410000..						
10/9/2009					0.016410000..				
10/13/2009						0.016410000..			
10/19/2009				0.016410000..					
10/20/2009							0.016410000..	0.016410000..	
10/21/2009									
10/22/2009									
4/20/2010								0.017618784..	
4/21/2010			0.017618784..			0.017618784..			

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 6/25/2018 1:50 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-2 (bg)	GWA-1 (bg)	GWA-2R (bg)	GWC-15R	GWC-5	GWC-9	GWC-15_15Z	GWC-14_14Z	GWA-50R (bg)
4/26/2010	0.017618784..								
4/27/2010				0.017618784..			0.017618784..		
4/28/2010									
5/3/2010		0.018259537..							0.018259537..
5/4/2010					0.018259537..				
9/28/2010			0.016410000..						
9/29/2010						0.016410000..		0.016410000..	
9/30/2010									
10/4/2010	0.016410000..			0.016410000..					
10/5/2010							0.016410000..		
10/6/2010									
10/11/2010									0.016410000..
10/12/2010		0.016410000..			0.016410000..				
4/12/2011			0.017618784..					0.017618784..	
4/13/2011	0.017618784..					0.017618784..			
4/14/2011									
4/18/2011				0.017618784..					
4/19/2011							0.017618784..		
4/20/2011									
4/21/2011									
4/26/2011									
4/27/2011		0.017618784..							0.017618784..
4/28/2011					0.017618784..				
10/4/2011			0.016410000..					0.016410000..	
10/5/2011	0.016410000..					0.016410000..			
10/12/2011				0.016410000..			0.016410000..		
10/13/2011									
10/17/2011		0.016410000..							
10/18/2011									
10/19/2011					0.016410000..				0.016410000..
4/3/2012			0.011618784..						
4/4/2012						0.01232		0.011618784..	
4/11/2012	0.011618784..								
4/23/2012				0.011618784..					
4/24/2012									
4/25/2012							0.011618784..		
4/30/2012									
5/1/2012									0.01296
5/2/2012		0.012259537..			0.012259537..				
10/2/2012									0.016410000..
10/3/2012									
10/8/2012		0.016410000..				0.016410000..			
10/9/2012	0.016410000..		0.016410000..		0.016410000..				
10/10/2012				0.016410000..			0.016410000..	0.016410000..	
4/2/2013									
4/3/2013									
4/8/2013						0.017618784..			
4/9/2013									
4/10/2013									0.017618784..
4/11/2013			0.017618784..		0.017618784..				
4/12/2013		0.017618784..							
4/15/2013	0.017618784..			0.017618784..				0.017618784..	

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 6/25/2018 1:50 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-2 (bg)	GWA-1 (bg)	GWA-2R (bg)	GWC-15R	GWC-5	GWC-9	GWC-15_15Z	GWC-14_14Z	GWA-50R (bg)
4/16/2013							0.017618784..		
10/8/2013									
10/9/2013						0.016410000..			
10/15/2013	0.016410000..								
10/16/2013		0.016410000..	0.016410000..		0.016410000..				0.016410000..
10/22/2013				0.016410000..			0.016410000..	0.016410000..	
4/1/2014									
4/2/2014									
4/9/2014						0.012368783..			
4/10/2014			0.012368783..						
4/11/2014		0.012368783..							
4/14/2014									
4/21/2014				0.012368783..			0.012368783..	0.012368783..	
4/22/2014	0.012368783..								0.012368783..
4/23/2014					0.012368783..				
9/30/2014	0.016410000..	0.016410000..	0.016410000..	0.016410000..		0.016410000..	0.016410000..	0.016410000..	
10/1/2014									0.016410000..
10/2/2014									
10/3/2014					0.016410000..				
10/4/2014									
3/30/2015	0.017618784..	0.01392 (J)	0.017618784..						0.017618784..
3/31/2015					0.017618784..				
4/1/2015									
4/2/2015						0.017618784..			
4/3/2015				0.017618784..			0.017618784..	0.017618784..	
5/26/2015									
6/18/2015									
7/2/2015									
10/6/2015							0.016410000..		
10/7/2015				0.016410000..				0.016410000..	
10/8/2015									
10/9/2015									
10/10/2015						0.016410000.. (D)			
10/11/2015									0.016410000..
10/12/2015					0.016410000..				
10/13/2015	0.016410000..	0.016410000..	0.016410000..						
10/14/2015									
10/15/2015									
3/22/2016		0.013618783..							
3/23/2016	0.013618783..		0.013618783..						
3/28/2016					0.013618783..				0.013618783..
3/29/2016									
3/30/2016						0.013618783..			
3/31/2016									
4/4/2016									
4/5/2016				0.013618783..			0.013618783..	0.013618783..	
5/19/2016		0.014259537..	0.014259537..						
5/20/2016	0.014259537..								
5/23/2016									
5/24/2016									
5/25/2016					0.014259537..				0.014259537..
5/26/2016						0.014259537..			

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 6/25/2018 1:50 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-2 (bg)	GWA-1 (bg)	GWA-2R (bg)	GWC-15R	GWC-5	GWC-9	GWC-15_15Z	GWC-14_14Z	GWA-50R (bg)
5/27/2016									
5/31/2016				0.014259537..			0.014259537..		
6/1/2016								0.014259537..	
7/29/2016	0.01186 (J)	0.01196 (J)	0.014259537..						
8/1/2016					0.012409999..				0.012409999..
8/2/2016									
8/3/2016									
8/4/2016				0.012409999..					
8/5/2016						0.01001 (J)			
8/9/2016								0.012409999..	
9/22/2016			0.012409999..						
9/23/2016	0.012409999..	0.012409999.. (*)							
9/26/2016									0.012409999..
9/27/2016					0.012409999..				
9/28/2016						0.01011 (J)			
9/29/2016				0.01071 (J)					
9/30/2016									
11/9/2016	0.012451454..	0.01035 (J)							
11/10/2016			0.012451454..						
11/11/2016					0.012451454..				0.012451454..
11/14/2016									
11/18/2016									
11/21/2016						0.01015 (J)			
11/22/2016									
11/23/2016				0.01105 (J)			0.012451454..		
11/28/2016								0.012451454..	
1/30/2017		0.012451454.. (*)							0.012451454..
1/31/2017	0.012451454.. (*)		0.012451454..		0.012451454..				
2/1/2017									
2/3/2017									
2/6/2017						0.01122 (J)			
2/7/2017									
2/8/2017									
2/9/2017								0.01132 (J)	
2/10/2017				0.013618783..			0.013618783..		
2/13/2017									
2/22/2017									
3/30/2017	0.013618783..	0.0112 (J)							
4/3/2017			0.013618783..		0.013618783..				0.013618783..
4/6/2017						0.01122 (J)			
4/7/2017									
4/10/2017									
4/11/2017							0.013618783.. (*)	0.013618783..	
4/12/2017				0.013618783.. (*)					
6/9/2017		0.01186 (J)	0.014259537..						
6/12/2017	0.014259537..				0.014259537..				0.014259537..
6/13/2017						0.01184 (J)			
6/14/2017								0.014259537..	
6/15/2017				0.01226 (J)			0.014259537..		
6/16/2017									
7/12/2017							0.014259537..	0.014259537..	
7/14/2017									

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 6/25/2018 1:50 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-2 (bg)	GWA-1 (bg)	GWA-2R (bg)	GWC-15R	GWC-5	GWC-9	GWC-15_15Z	GWC-14_14Z	GWA-50R (bg)
7/20/2017									
7/26/2017							0.014259537..		
7/28/2017									
8/9/2017									
8/10/2017									
8/24/2017									
10/2/2017	0.012409999..	0.01011 (J)	0.012409999..						0.012409999..
10/3/2017					0.012409999..	0.012409999..			
10/4/2017									
10/5/2017								0.012409999..	
10/6/2017				0.01031 (J)			0.012409999..		
10/9/2017									
3/16/2018		0.013618783..	0.013618783..						0.013618783..
3/19/2018	0.013618783..				0.013618783..				
3/20/2018						0.013618783..			
3/21/2018									
3/22/2018								0.013618783..	
3/23/2018				0.0114 (J)			0.013618783..		

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 6/25/2018 1:50 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50 (bg)	GWC-8RR	GWC-8Z	GWC-6RZ	GWC-7Z	GWA-4RZ (bg)
8/21/2007						
8/22/2007						
8/23/2007						
8/24/2007						
10/23/2007						
10/24/2007						
10/25/2007						
11/1/2007						
11/2/2007						
11/17/2007						
11/18/2007						
11/19/2007						
11/20/2007						
1/15/2008						
1/16/2008						
1/23/2008						
1/30/2008						
1/31/2008						
3/5/2008						
3/6/2008						
3/10/2008						
3/11/2008						
5/6/2008						
5/7/2008						
5/8/2008						
5/12/2008						
5/13/2008						
5/14/2008						
12/2/2008						
12/4/2008						
12/5/2008						
12/11/2008						
12/12/2008	0.016451454..					
12/13/2008						
12/14/2008						
4/15/2009						
4/16/2009						
4/21/2009						
4/23/2009	0.017618784..					
4/28/2009						
4/29/2009						
10/6/2009	0.016410000..					
10/7/2009						
10/8/2009						
10/9/2009						
10/13/2009						
10/19/2009						
10/20/2009						
10/21/2009						
10/22/2009						
4/20/2010						
4/21/2010						

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 6/25/2018 1:50 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50 (bg)	GWC-8RR	GWC-8Z	GWC-6RZ	GWC-7Z	GWA-4RZ (bg)
4/26/2010						
4/27/2010	0.017618784..					
4/28/2010						
5/3/2010						
5/4/2010						
9/28/2010						
9/29/2010						
9/30/2010	0.016410000..					
10/4/2010						
10/5/2010						
10/6/2010						
10/11/2010						
10/12/2010						
4/12/2011						
4/13/2011						
4/14/2011	0.017618784..					
4/18/2011						
4/19/2011						
4/20/2011						
4/21/2011						
4/26/2011						
4/27/2011						
4/28/2011						
10/4/2011						
10/5/2011	0.016410000..					
10/12/2011						
10/13/2011						
10/17/2011						
10/18/2011		0.016410000..				
10/19/2011						
4/3/2012						
4/4/2012						
4/11/2012	0.011618784..					
4/23/2012						
4/24/2012						
4/25/2012						
4/30/2012		0.011618784..				
5/1/2012						
5/2/2012						
10/2/2012	0.016410000..					
10/3/2012		0.016410000..				
10/8/2012						
10/9/2012						
10/10/2012						
4/2/2013						
4/3/2013						
4/8/2013		0.017618784..				
4/9/2013	0.017618784..					
4/10/2013						
4/11/2013						
4/12/2013						
4/15/2013						

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 6/25/2018 1:50 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50 (bg)	GWC-8RR	GWC-8Z	GWC-6RZ	GWC-7Z	GWA-4RZ (bg)
4/16/2013						
10/8/2013						
10/9/2013		0.016410000..				
10/15/2013	0.016410000..					
10/16/2013						
10/22/2013						
4/1/2014						
4/2/2014						
4/9/2014						
4/10/2014	0.012368783..	0.012368783..				
4/11/2014						
4/14/2014						
4/21/2014						
4/22/2014						
4/23/2014						
9/30/2014						
10/1/2014	0.016410000..					
10/2/2014		0.016410000..				
10/3/2014						
10/4/2014						
3/30/2015	0.017618784..					
3/31/2015						
4/1/2015						
4/2/2015						
4/3/2015		0.017618784..				
5/26/2015			0.018259537..	0.018259537..		
6/18/2015			0.018259537.. (D)	0.018259537.. (D)		
7/2/2015			0.018259537..	0.018259537..		
10/6/2015						
10/7/2015						
10/8/2015		0.016410000..	0.016410000..			
10/9/2015				0.016410000..		
10/10/2015						
10/11/2015	0.016410000..					
10/12/2015						
10/13/2015						
10/14/2015						
10/15/2015						
3/22/2016			0.013618783..			
3/23/2016						
3/28/2016	0.013618783..					
3/29/2016				0.013618783..		
3/30/2016		0.013618783..				
3/31/2016						
4/4/2016						
4/5/2016						
5/19/2016						
5/20/2016						
5/23/2016	0.014259537..					
5/24/2016		0.014259537..		0.014259537..		
5/25/2016			0.014259537..			
5/26/2016						

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 6/25/2018 1:50 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50 (bg)	GWC-8RR	GWC-8Z	GWC-6RZ	GWC-7Z	GWA-4RZ (bg)
5/27/2016						
5/31/2016					0.014259537..	
6/1/2016						
7/29/2016						
8/1/2016	0.012409999..			0.012409999..		
8/2/2016		0.012409999..	0.01011 (J)		0.01001 (J)	
8/3/2016						
8/4/2016						
8/5/2016						
8/9/2016						
9/22/2016						
9/23/2016						
9/26/2016	0.01001 (J)		0.01001 (J)	0.012409999..		
9/27/2016		0.012409999..			0.01001 (J)	
9/28/2016						
9/29/2016						
9/30/2016						
11/9/2016						
11/10/2016	0.012451454..					
11/11/2016						
11/14/2016				0.012451454..		
11/18/2016						
11/21/2016			0.01005 (J)		0.01005 (J)	
11/22/2016		0.012451454..				
11/23/2016						
11/28/2016						
1/30/2017	0.012451454..					
1/31/2017						
2/1/2017				0.013618783..	0.01122 (J)	
2/3/2017			0.01132 (J)			
2/6/2017		0.013618783..				
2/7/2017						
2/8/2017						
2/9/2017						
2/10/2017						
2/13/2017						
2/22/2017						0.01132 (J)
3/30/2017						
4/3/2017						
4/6/2017		0.01122 (J)		0.01119 (J)	0.01132 (J)	
4/7/2017	0.013618783..		0.01132 (J)			0.013618783..
4/10/2017						
4/11/2017						
4/12/2017						
6/9/2017						
6/12/2017	0.014259537..					
6/13/2017			0.01196 (J)	0.01184 (J)	0.014259537..	
6/14/2017		0.014259537..				0.014259537..
6/15/2017						
6/16/2017						
7/12/2017						0.014259537..
7/14/2017					0.014259537..	

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 6/25/2018 1:50 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50 (bg)	GWC-8RR	GWC-8Z	GWC-6RZ	GWC-7Z	GWA-4RZ (bg)
7/20/2017						0.014259537..
7/26/2017						
7/28/2017						0.014259537..
8/9/2017						0.012409999..
8/10/2017						
8/24/2017						0.012409999..
10/2/2017	0.01021 (J)					
10/3/2017			0.01011 (J)	0.012409999..	0.01 (J)	0.012409999..
10/4/2017		0.012409999..				
10/5/2017						
10/6/2017						
10/9/2017						
3/16/2018	0.013618783..					
3/19/2018						
3/20/2018			0.01154 (J)	0.013618783..	0.013618783..	
3/21/2018		0.013618783..				0.013618783..
3/22/2018						
3/23/2018						

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 6/25/2018 1:50 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-13R_13RZ	GWC-11R	GWC-10	GWC-11	GWC-10R	GWC-13	GWC-12	GWC-6	GWA-3 (bg)
8/21/2007	0.000130605..	0.000130605..	0.000130605..	0.000130605..	0.000130605..	0.000130605..	0.000130605..		
8/22/2007								0.000130605..	
8/23/2007									0.000130605..
8/24/2007									
10/23/2007									
10/24/2007									
10/25/2007								7.610513428..	
11/1/2007	0.000106992..	0.000106992..	0.000106992..	0.000106992..	0.000106992..	0.000106992..	0.000106992..		
11/2/2007									0.000106992..
11/17/2007									
11/18/2007		0.000106992..		0.000106992..					0.000106992..
11/19/2007	0.000106992..					0.000106992..	0.000106992..		
11/20/2007			0.000106992..		0.000106992..			0.000106992..	
1/15/2008									
1/16/2008							0.000106992..		
1/23/2008								0.000106992..	
1/30/2008		0.000106992..	0.000106992..	0.000106992..	0.000106992..				
1/31/2008	0.000106992..					0.000106992..			0.000106992..
3/5/2008	7.114323008..			7.114323008..		7.114323008..	7.114323008..		
3/6/2008		7.114323008..	7.114323008..		7.114323008..				
3/10/2008									
3/11/2008								7.114323008..	7.114323008..
5/6/2008									
5/7/2008	3.174412727..	3.174412727..		0.0001402					
5/8/2008					3.174412727..				
5/12/2008			3.174412727..			3.174412727..			
5/13/2008							3.174412727..		
5/14/2008								3.174412727..	3.174412727..
12/2/2008									
12/4/2008									
12/5/2008									0.000106992..
12/11/2008								0.000159492..	
12/12/2008	0.000159492..								
12/13/2008			0.000159492..			0.000159492..	0.000159492..		
12/14/2008		0.000159492..		0.000159492..	0.000159492..				
4/15/2009									0.000123643..
4/16/2009							0.000123643..		
4/21/2009									
4/23/2009								0.000123643..	
4/28/2009						0.000123643..			
4/29/2009	0.000123643..	0.000123643..	0.000123643..	0.000123643..	0.000123643..				
10/6/2009									
10/7/2009									
10/8/2009									0.000128605..
10/9/2009								0.000128605..	
10/13/2009									
10/19/2009									
10/20/2009			0.000128605..						
10/21/2009	0.000128605..				0.000128605..	0.000128605..	0.000128605..		
10/22/2009		0.000128605..		0.000128605..					
4/20/2010									
4/21/2010		0.000294143..		0.000294143..	0.000294143..				

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 6/25/2018 1:50 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-13R_13RZ	GWC-11R	GWC-10	GWC-11	GWC-10R	GWC-13	GWC-12	GWC-6	GWA-3 (bg)
4/26/2010			0.000294143..						
4/27/2010							0.000294143..		
4/28/2010	0.000294143..					0.000294143..			0.000294143..
5/3/2010									
5/4/2010								0.000254744..	
9/28/2010				0.000299105..	0.000299105..				
9/29/2010		0.000299105..	0.000299105..						
9/30/2010									
10/4/2010									
10/5/2010						0.000299105..	0.000299105..		
10/6/2010	0.000299105..								0.000299105..
10/11/2010								0.000153105..	
10/12/2010									
4/12/2011				0.000148143..	0.000148143..				
4/13/2011		0.000148143..	0.000148143..						
4/14/2011									
4/18/2011									
4/19/2011						0.000148143..	0.000148143..		
4/20/2011	0.000148143..								
4/21/2011									0.000148143..
4/26/2011								0.000148143..	
4/27/2011									
4/28/2011									
10/4/2011		8.760513454..		8.760513454..	8.760513454..				
10/5/2011			8.760513454..						
10/12/2011	8.760513454..						8.760513454..		
10/13/2011									8.760513454..
10/17/2011									
10/18/2011						8.760513454..		8.760513454..	
10/19/2011									
4/3/2012				6.014323363..	6.014323363..				
4/4/2012		6.014323363..	6.014323363..						
4/11/2012									
4/23/2012									
4/24/2012							6.014323363..		
4/25/2012	6.014323363..					6.014323363..			
4/30/2012									
5/1/2012									2.074413082..
5/2/2012								2.074413082..	
10/2/2012	0.000103605..					0.000103605..	0.000103605..		
10/3/2012		0.000103605..	0.000103605..	0.000103605..					
10/8/2012					0.000103605..			0.000103605..	
10/9/2012									0.000103605..
10/10/2012									
4/2/2013	4.864322974..					4.864322974..	4.864322974..		
4/3/2013		4.864322974..	4.864322974..	4.864322974..	4.864322974..				
4/8/2013									
4/9/2013									
4/10/2013								4.864322974..	
4/11/2013									4.864322974..
4/12/2013									
4/15/2013									

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 6/25/2018 1:50 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-13R_13RZ	GWC-11R	GWC-10	GWC-11	GWC-10R	GWC-13	GWC-12	GWC-6	GWA-3 (bg)
4/16/2013									
10/8/2013	0.000103605..					0.000103605..		0.000103605..	
10/9/2013		0.000103605..		0.000103605..			0.000103605..		
10/15/2013			0.000103605..		0.000103605..				
10/16/2013									0.000103605..
10/22/2013									
4/1/2014	0.0001986 (J)					0.0001986 (J)	0.0001986 (J)		
4/2/2014		1.874323126..		0.0001986 (J)					
4/9/2014			1.874323126..		1.874323126..				
4/10/2014									
4/11/2014									
4/14/2014								1.874323126..	
4/21/2014									
4/22/2014									
4/23/2014									1.874323126..
9/30/2014									
10/1/2014	0.000103605..					0.000103605..			
10/2/2014		0.000103605..	0.000103605..	0.000103605..	0.000103605..		0.000103605..		
10/3/2014								0.00003651 (J)	
10/4/2014									0.000103605..
3/30/2015									
3/31/2015	9.864322848..								9.864322848..
4/1/2015		9.864322848..		9.864322848..		9.864322848..	9.864322848..	9.864322848..	
4/2/2015			9.864322848..		9.864322848..				
4/3/2015									
5/26/2015									
6/18/2015									
7/2/2015									
8/13/2015									
8/14/2015									
10/6/2015									
10/7/2015									
10/8/2015									
10/9/2015								0.000103605..	
10/10/2015			0.000103605..						
10/11/2015		0.000103605..		0.000103605..					
10/12/2015					0.000103605..				0.000103605..
10/13/2015									
10/14/2015	0.000103605..						0.000103605..		
10/15/2015						0.000103605..			
3/22/2016									
3/23/2016									0.000248643..
3/28/2016									
3/29/2016								0.000248643..	
3/30/2016									
3/31/2016			0.000248643..		0.000248643..				
4/4/2016	0.000248643..	0.000248643..		0.000248643..		0.000248643..	0.000248643..		
4/5/2016									
5/19/2016									
5/20/2016									
5/23/2016									0.000209244..
5/24/2016								0.000209244..	

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 6/25/2018 1:50 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-13R_13RZ	GWC-11R	GWC-10	GWC-11	GWC-10R	GWC-13	GWC-12	GWC-6	GWA-3 (bg)
5/25/2016									
5/26/2016		0.000209244..	0.000209244..	0.000209244..	0.000209244..				
5/27/2016							0.000209244..		
5/31/2016						0.000209244..			
6/1/2016	0.000209244..								
7/29/2016									0.000209244..
8/1/2016								0.000253605..	
8/2/2016									
8/3/2016				0.000253605..	0.000253605..		0.000253605..		
8/4/2016		0.000253605..				0.000253605..			
8/5/2016			0.000253605..						
8/9/2016									
9/22/2016									0.000253605..
9/23/2016									
9/26/2016								0.000253605..	
9/27/2016									
9/28/2016		0.000253605..	0.000253605..	0.000253605..	0.000253605..				
9/29/2016						0.000253605..			
9/30/2016							0.000253605..		
11/9/2016									
11/10/2016									0.000284492..
11/11/2016									
11/14/2016									
11/18/2016								0.000284492..	
11/21/2016									
11/22/2016		0.000284492..	0.000284492..	0.000284492..	0.000284492..		0.0001145 (J)		
11/23/2016									
11/28/2016						0.000284492..			
1/30/2017									
1/31/2017									0.000284492.. (*)
2/1/2017								0.000248643.. (*)	
2/3/2017									
2/6/2017									
2/7/2017			0.000248643..		0.000248643..				
2/8/2017		0.000248643..		0.000248643..					
2/9/2017						0.000248643..			
2/10/2017									
2/13/2017							0.000248643..		
2/22/2017	0.000248643..								
3/30/2017									0.000248643..
4/3/2017									
4/6/2017								0.000248643..	
4/7/2017									
4/10/2017		0.000248643..	0.000248643..	0.000248643..	0.000248643..				
4/11/2017	0.000248643..						0.000248643..		
4/12/2017						0.000248643..			
6/9/2017									
6/12/2017									0.000209244..
6/13/2017								0.000209244.. (*)	
6/14/2017			0.000209244.. (*)		0.000209244.. (*)		0.000209244.. (*)		
6/15/2017		0.000209244.. (*)		0.000209244.. (*)					
6/16/2017	0.000209244.. (*)					0.000209244.. (*)			

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 6/25/2018 1:50 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-13R_13RZ	GWC-11R	GWC-10	GWC-11	GWC-10R	GWC-13	GWC-12	GWC-6	GWA-3 (bg)
7/12/2017	0.000209244..								
7/14/2017									
7/20/2017									
7/26/2017									
7/28/2017	0.000209244..								
8/9/2017									
8/10/2017	0.000253605..								
8/24/2017									
10/2/2017									
10/3/2017								0.000253605..	
10/4/2017		0.000253605..	0.000253605..	0.000253605..	0.000253605..		0.000253605..		0.000253605..
10/5/2017									
10/6/2017	0.000253605..								
10/9/2017						0.000253605..			
3/16/2018									
3/19/2018								0.000248643..	0.000248643..
3/20/2018			0.000248643..						
3/21/2018				0.000248643..	0.000248643..	0.000248643..			
3/22/2018		0.000248643..					0.000248643..		
3/23/2018	0.000248643..								

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 6/25/2018 1:50 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-5	GWA-1 (bg)	GWC-15R	GWC-9	GWA-2 (bg)	GWA-2R (bg)	GWC-15_15Z	GWC-14_14Z	GWA-50R (bg)
8/21/2007									
8/22/2007									
8/23/2007	0.000130605..	0.000130605..	0.000130605..	0.000130605..	0.000130605..	0.000130605..			
8/24/2007							0.000130605..	0.000130605..	
10/23/2007		7.610513428..							
10/24/2007					7.610513428..	7.610513428..			
10/25/2007	7.610513428..								
11/1/2007				0.000106992..					
11/2/2007			0.000106992..				0.000106992..	0.000106992..	
11/17/2007			0.000106992..					0.000106992..	
11/18/2007		0.000106992..			0.000106992..	0.000106992..	0.000106992..		
11/19/2007	0.000106992..			0.000106992..					
11/20/2007									
1/15/2008			0.000106992..	0.000106992..			0.000106992..	0.000106992..	
1/16/2008									
1/23/2008	0.000106992..								
1/30/2008		0.000106992..							
1/31/2008					0.000106992..	0.000106992..			
3/5/2008								7.114323008..	
3/6/2008			7.114323008..	7.114323008..					
3/10/2008		7.114323008..				7.114323008..	7.114323008..		
3/11/2008	7.114323008..				7.114323008..				
5/6/2008					0.0001342				
5/7/2008			3.174412727..					3.174412727..	
5/8/2008									
5/12/2008	3.174412727..								
5/13/2008		3.174412727..		3.174412727..		3.174412727..	3.174412727..		
5/14/2008									
12/2/2008			0.000106992..				0.000106992..	0.000106992..	
12/4/2008					0.000106992..	0.000106992..			
12/5/2008		0.000106992..							
12/11/2008	0.000159492..								
12/12/2008				0.000159492..					0.000159492..
12/13/2008									
12/14/2008									
4/15/2009	0.000123643..	0.000123643..							
4/16/2009				0.000123643..				0.000123643..	
4/21/2009					0.000123643..	0.000123643..			
4/23/2009									0.000123643..
4/28/2009			0.000123643..				0.000123643..		
4/29/2009									
10/6/2009									0.000128605..
10/7/2009		0.000128605..			0.000128605..				
10/8/2009						0.000128605..			
10/9/2009	0.000128605..								
10/13/2009				0.000128605..					
10/19/2009			0.000128605..						
10/20/2009							0.000128605..	0.000128605..	
10/21/2009									
10/22/2009									
4/20/2010								0.000294143..	
4/21/2010				0.000294143..		0.000294143..			

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 6/25/2018 1:50 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-5	GWA-1 (bg)	GWC-15R	GWC-9	GWA-2 (bg)	GWA-2R (bg)	GWC-15_15Z	GWC-14_14Z	GWA-50R (bg)
4/26/2010					0.000294143..				
4/27/2010			0.000294143..				0.000294143..		
4/28/2010									
5/3/2010		0.000254744..							0.000254744..
5/4/2010	0.000254744..								
9/28/2010						0.000299105..			
9/29/2010				0.000299105..				0.000299105..	
9/30/2010									
10/4/2010			0.000299105..		0.000299105..				
10/5/2010							0.000299105..		
10/6/2010									
10/11/2010									0.000153105..
10/12/2010	0.000153105..	0.000153105..							
4/12/2011						0.000148143..		0.000148143..	
4/13/2011				0.000148143..	0.000148143..				
4/14/2011									
4/18/2011			0.000148143..						
4/19/2011							0.000148143..		
4/20/2011									
4/21/2011									
4/26/2011									
4/27/2011		0.000148143..							0.000148143..
4/28/2011	0.000148143..								
10/4/2011						8.760513454..		8.760513454..	
10/5/2011				8.760513454..	8.760513454..				
10/12/2011			8.760513454..				8.760513454..		
10/13/2011									
10/17/2011		8.760513454..							
10/18/2011									
10/19/2011	8.760513454..								8.760513454..
4/3/2012						6.014323363..			
4/4/2012				6.014323363..				6.014323363..	
4/11/2012					6.014323363..				
4/23/2012			6.014323363..						
4/24/2012									
4/25/2012							6.014323363..		
4/30/2012									
5/1/2012									2.074413082..
5/2/2012	2.074413082..	2.074413082..							
10/2/2012									0.000103605..
10/3/2012									
10/8/2012		0.000103605..		0.000103605..					
10/9/2012	0.000103605..				0.000103605..	0.000103605..			
10/10/2012			0.000103605..				0.000103605..	0.000103605..	
4/2/2013									
4/3/2013									
4/8/2013				4.864322974..					
4/9/2013									
4/10/2013									4.864322974..
4/11/2013	4.864322974..					4.864322974..			
4/12/2013		4.864322974..							
4/15/2013			4.864322974..		4.864322974..			4.864322974..	

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 6/25/2018 1:50 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-5	GWA-1 (bg)	GWC-15R	GWC-9	GWA-2 (bg)	GWA-2R (bg)	GWC-15_15Z	GWC-14_14Z	GWA-50R (bg)
4/16/2013							4.864322974..		
10/8/2013									
10/9/2013				0.000103605..					
10/15/2013					0.000103605..				
10/16/2013	0.000103605..	0.000103605..				0.000103605..			0.000103605..
10/22/2013			0.000103605..				0.000103605..	0.000103605..	
4/1/2014									
4/2/2014									
4/9/2014				1.874323126..					
4/10/2014						1.874323126..			
4/11/2014		1.874323126..							
4/14/2014									
4/21/2014			1.874323126..				1.874323126..	1.874323126..	
4/22/2014					1.874323126..				1.874323126..
4/23/2014	1.874323126..								
9/30/2014		0.000103605..	0.000103605..	0.000103605..	0.000103605..	0.000103605..	0.000103605..	0.000103605..	
10/1/2014									0.000103605..
10/2/2014									
10/3/2014	0.00004071 (J)								
10/4/2014									
3/30/2015		9.864322848..			9.864322848..	9.864322848..			9.864322848..
3/31/2015	9.864322848..								
4/1/2015									
4/2/2015				9.864322848..					
4/3/2015			9.864322848..				9.864322848..	9.864322848..	
5/26/2015									
6/18/2015									
7/2/2015									
8/13/2015									
8/14/2015									
10/6/2015							0.000103605..		
10/7/2015			0.000103605..					0.000103605..	
10/8/2015									
10/9/2015									
10/10/2015				0.000103605.. (D)					
10/11/2015									0.000103605..
10/12/2015	0.000103605..								
10/13/2015		0.000103605..			0.000103605..	0.000103605..			
10/14/2015									
10/15/2015									
3/22/2016		0.000248643..							
3/23/2016					0.000248643..	0.000248643..			
3/28/2016	0.000248643..								0.000248643..
3/29/2016									
3/30/2016				0.000248643..					
3/31/2016									
4/4/2016									
4/5/2016			0.000248643..				0.000248643..	0.000248643..	
5/19/2016		0.000209244..				0.000209244..			
5/20/2016					0.000209244..				
5/23/2016									
5/24/2016									

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 6/25/2018 1:50 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-5	GWA-1 (bg)	GWC-15R	GWC-9	GWA-2 (bg)	GWA-2R (bg)	GWC-15_15Z	GWC-14_14Z	GWA-50R (bg)
5/25/2016	0.000209244..								0.000209244..
5/26/2016				0.000209244..					
5/27/2016									
5/31/2016			0.000209244..				0.000209244..		
6/1/2016								0.000209244..	
7/29/2016		0.000209244..			0.000209244..	0.000209244..			
8/1/2016	0.000253605..								0.000253605..
8/2/2016									
8/3/2016									
8/4/2016			0.000253605..						
8/5/2016				0.000253605..					
8/9/2016								0.000253605..	
9/22/2016						0.000253605..			
9/23/2016		0.000253605..			0.000253605..				
9/26/2016									0.000253605..
9/27/2016	0.000253605..								
9/28/2016				0.000253605..					
9/29/2016			0.000253605..						
9/30/2016									
11/9/2016		0.000284492..			0.000284492..				
11/10/2016						0.000284492..			
11/11/2016	0.000284492..								0.000284492..
11/14/2016									
11/18/2016									
11/21/2016				0.000284492..					
11/22/2016									
11/23/2016			0.00008449 (J)				0.00009449 (J)		
11/28/2016								0.000284492..	
1/30/2017		0.000284492..							0.000284492..
1/31/2017	0.000284492.. (*)				0.000284492.. (*)	0.000284492..			
2/1/2017									
2/3/2017									
2/6/2017				0.000248643..					
2/7/2017									
2/8/2017									
2/9/2017								0.000248643..	
2/10/2017			0.000248643..				0.000248643..		
2/13/2017									
2/22/2017									
3/30/2017		0.000248643.. (*)			0.000248643.. (*)				
4/3/2017	0.000248643..					0.000248643..			0.000248643..
4/6/2017				0.000248643..					
4/7/2017									
4/10/2017									
4/11/2017							0.000248643..	0.000248643..	
4/12/2017			0.000248643..						
6/9/2017		0.000209244..				0.000209244..			
6/12/2017	0.000209244..				0.000209244.. (*)				0.000209244.. (*)
6/13/2017				0.000209244.. (*)					
6/14/2017								0.000209244.. (*)	
6/15/2017			0.000209244.. (*)				0.000209244.. (*)		
6/16/2017									

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 6/25/2018 1:50 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-5	GWA-1 (bg)	GWC-15R	GWC-9	GWA-2 (bg)	GWA-2R (bg)	GWC-15_15Z	GWC-14_14Z	GWA-50R (bg)
7/12/2017							0.000209244..	0.000209244..	
7/14/2017									
7/20/2017									
7/26/2017							0.000209244..		
7/28/2017									
8/9/2017									
8/10/2017									
8/24/2017									
10/2/2017		0.000253605..			0.000253605..	0.000253605..			0.000253605..
10/3/2017	0.000253605..			0.000253605..					
10/4/2017									
10/5/2017								0.000253605..	
10/6/2017			0.000253605..				0.000253605..		
10/9/2017									
3/16/2018		0.000248643..				0.000248643..			0.000248643..
3/19/2018	0.000248643..				0.000248643..				
3/20/2018				0.000248643..					
3/21/2018									
3/22/2018								0.000248643..	
3/23/2018			0.000248643..				0.000248643..		

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 6/25/2018 1:50 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50 (bg)	GWC-8RR	GWC-6RZ	GWC-8Z	GWC-7Z	GWA-4RZ (bg)
8/21/2007						
8/22/2007						
8/23/2007						
8/24/2007						
10/23/2007						
10/24/2007						
10/25/2007						
11/1/2007						
11/2/2007						
11/17/2007						
11/18/2007						
11/19/2007						
11/20/2007						
1/15/2008						
1/16/2008						
1/23/2008						
1/30/2008						
1/31/2008						
3/5/2008						
3/6/2008						
3/10/2008						
3/11/2008						
5/6/2008						
5/7/2008						
5/8/2008						
5/12/2008						
5/13/2008						
5/14/2008						
12/2/2008						
12/4/2008						
12/5/2008						
12/11/2008						
12/12/2008	0.000159492..					
12/13/2008						
12/14/2008						
4/15/2009						
4/16/2009						
4/21/2009						
4/23/2009	0.000123643..					
4/28/2009						
4/29/2009						
10/6/2009	0.000128605..					
10/7/2009						
10/8/2009						
10/9/2009						
10/13/2009						
10/19/2009						
10/20/2009						
10/21/2009						
10/22/2009						
4/20/2010						
4/21/2010						

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 6/25/2018 1:50 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50 (bg)	GWC-8RR	GWC-6RZ	GWC-8Z	GWC-7Z	GWA-4RZ (bg)
4/26/2010						
4/27/2010	0.000294143..					
4/28/2010						
5/3/2010						
5/4/2010						
9/28/2010						
9/29/2010						
9/30/2010	0.000299105..					
10/4/2010						
10/5/2010						
10/6/2010						
10/11/2010						
10/12/2010						
4/12/2011						
4/13/2011						
4/14/2011	0.000148143..					
4/18/2011						
4/19/2011						
4/20/2011						
4/21/2011						
4/26/2011						
4/27/2011						
4/28/2011						
10/4/2011						
10/5/2011	8.760513454..					
10/12/2011						
10/13/2011						
10/17/2011						
10/18/2011		8.760513454..				
10/19/2011						
4/3/2012						
4/4/2012						
4/11/2012	6.014323363..					
4/23/2012						
4/24/2012						
4/25/2012						
4/30/2012		6.014323363..				
5/1/2012						
5/2/2012						
10/2/2012	0.000103605..					
10/3/2012		0.000103605..				
10/8/2012						
10/9/2012						
10/10/2012						
4/2/2013						
4/3/2013						
4/8/2013		4.864322974..				
4/9/2013	4.864322974..					
4/10/2013						
4/11/2013						
4/12/2013						
4/15/2013						

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 6/25/2018 1:50 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50 (bg)	GWC-8RR	GWC-6RZ	GWC-8Z	GWC-7Z	GWA-4RZ (bg)
4/16/2013						
10/8/2013						
10/9/2013		0.000103605..				
10/15/2013	0.000103605..					
10/16/2013						
10/22/2013						
4/1/2014						
4/2/2014						
4/9/2014						
4/10/2014	1.874323126..	1.874323126..				
4/11/2014						
4/14/2014						
4/21/2014						
4/22/2014						
4/23/2014						
9/30/2014						
10/1/2014	0.000103605..					
10/2/2014		0.00004191 (J)				
10/3/2014						
10/4/2014						
3/30/2015	0.00001884 (J)					
3/31/2015						
4/1/2015						
4/2/2015						
4/3/2015		9.864322848..				
5/26/2015			5.924412566..	5.924412566..		
6/18/2015			5.924412566.. (D)	5.924412566.. (D)		
7/2/2015			5.924412566..	5.924412566..		
8/13/2015			0.000103605.. (D)			
8/14/2015				0.000103605.. (D)		
10/6/2015						
10/7/2015						
10/8/2015		0.000103605..		0.000103605..		
10/9/2015			0.000103605..			
10/10/2015						
10/11/2015	0.000103605..					
10/12/2015						
10/13/2015						
10/14/2015						
10/15/2015						
3/22/2016				0.000248643..		
3/23/2016						
3/28/2016	0.000248643..					
3/29/2016			0.000248643..			
3/30/2016		0.000248643..				
3/31/2016						
4/4/2016						
4/5/2016						
5/19/2016						
5/20/2016						
5/23/2016	0.000209244..					
5/24/2016		0.000209244..	0.000209244..			

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 6/25/2018 1:50 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50 (bg)	GWC-8RR	GWC-6RZ	GWC-8Z	GWC-7Z	GWA-4RZ (bg)
5/25/2016				0.000209244..		
5/26/2016						
5/27/2016						
5/31/2016					0.000209244..	
6/1/2016						
7/29/2016						
8/1/2016	0.000253605..		0.000253605..			
8/2/2016		0.000253605..		0.000253605..	0.000253605..	
8/3/2016						
8/4/2016						
8/5/2016						
8/9/2016						
9/22/2016						
9/23/2016						
9/26/2016	0.000253605..		0.000253605..	0.000253605..		
9/27/2016		0.000253605..			0.000253605..	
9/28/2016						
9/29/2016						
9/30/2016						
11/9/2016						
11/10/2016	0.000284492..					
11/11/2016						
11/14/2016			0.000284492..			
11/18/2016						
11/21/2016				0.000284492..	0.000284492..	
11/22/2016		0.0001145 (J)				
11/23/2016						
11/28/2016						
1/30/2017	0.000284492..					
1/31/2017						
2/1/2017			0.000248643.. (*)		0.000248643..	
2/3/2017				0.000248643..		
2/6/2017		0.000248643..				
2/7/2017						
2/8/2017						
2/9/2017						
2/10/2017						
2/13/2017						
2/22/2017						0.000248643..
3/30/2017						
4/3/2017						
4/6/2017		0.000248643..	0.000248643..		0.000248643..	
4/7/2017	0.000248643.. (*)			0.000248643.. (*)		0.000248643.. (*)
4/10/2017						
4/11/2017						
4/12/2017						
6/9/2017						
6/12/2017	0.000209244.. (*)					
6/13/2017			0.000209244.. (*)	0.000209244.. (*)	0.000209244.. (*)	
6/14/2017		0.000209244.. (*)				0.000209244.. (*)
6/15/2017						
6/16/2017						

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 6/25/2018 1:50 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50 (bg)	GWC-8RR	GWC-6RZ	GWC-8Z	GWC-7Z	GWA-4RZ (bg)
7/12/2017						0.000209244..
7/14/2017					0.000209244..	
7/20/2017						0.000209244..
7/26/2017						
7/28/2017						0.000209244..
8/9/2017						0.000253605..
8/10/2017						
8/24/2017						0.000253605..
10/2/2017	0.000253605..					
10/3/2017			0.000253605..	0.000253605..	0.000253605..	0.000253605..
10/4/2017		0.000253605..				
10/5/2017						
10/6/2017						
10/9/2017						
3/16/2018	0.000248643..					
3/19/2018						
3/20/2018			0.000248643..	0.000248643..	0.000248643..	
3/21/2018		0.000248643..				0.000248643..
3/22/2018						
3/23/2018						

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 6/25/2018 1:50 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-12	GWC-13	GWC-13R_13RZ	GWC-11R	GWC-10R	GWC-11	GWC-10	GWC-6	GWA-1 (bg)
8/21/2007	0.022581482..	0.02893	0.022581482..	0.022581482..	0.022581482..	0.022581482..	0.022581482..		
8/22/2007								0.022581482..	
8/23/2007									0.022581482..
8/24/2007									
10/23/2007									0.03093
10/24/2007									
10/25/2007								0.02413	
11/1/2007	0.01	0.01305	0.01205	0.01	0.01475	0.01	0.01295		
11/2/2007									
11/17/2007									
11/18/2007				0.01		0.01			0.03175
11/19/2007	0.01345	0.01485	0.01165						
11/20/2007					0.01		0.03475	0.02075	
1/15/2008									
1/16/2008	0.03775								
1/23/2008								0.05475	
1/30/2008				0.01	0.029 (O)	0.01	0.04075		0.1188
1/31/2008		0.02375	0.01265						
3/5/2008	0.04372	0.021974552..	0.021974552..			0.021974552..			
3/6/2008				0.02532	0.021974552..		0.03972		
3/10/2008									0.04472
3/11/2008								0.02982	
5/6/2008									
5/7/2008			0.017613069..	0.017613069..		0.02506			
5/8/2008					0.02206				
5/12/2008		0.01986					0.02356		
5/13/2008	0.01956								0.02236
5/14/2008								0.03836	
12/2/2008									
12/4/2008									
12/5/2008									0.011249999..
12/11/2008								0.01375	
12/12/2008			0.022 (O)						
12/13/2008	0.01	0.01665					0.03275		
12/14/2008				0.01	0.01	0.01			
4/15/2009									0.021974552..
4/16/2009	0.021974552..								
4/21/2009									
4/23/2009								0.02382	
4/28/2009		0.021974552..							
4/29/2009			0.02412	0.021974552..	0.021974552..	0.021974552..	0.02332		
10/6/2009									
10/7/2009									0.03093
10/8/2009									
10/9/2009								0.02663	
10/13/2009									
10/19/2009									
10/20/2009							0.022581482..		
10/21/2009	0.022581482..	0.022581482..	0.022581482..		0.022581482..				
10/22/2009				0.022581482..		0.022581482..			
4/20/2010									
4/21/2010				0.021974552..	0.021974552..	0.021974552..			

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 6/25/2018 1:50 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-12	GWC-13	GWC-13R_13RZ	GWC-11R	GWC-10R	GWC-11	GWC-10	GWC-6	GWA-1 (bg)
4/26/2010							0.021974552..		
4/27/2010	0.021974552..								
4/28/2010		0.021974552..	0.02332						
5/3/2010									0.017613069..
5/4/2010								0.017613069..	
9/28/2010					0.022581482..	0.022581482..			
9/29/2010				0.022581482..			0.02553		
9/30/2010									
10/4/2010									
10/5/2010	0.022581482..	0.022581482..							
10/6/2010			0.022581482..						
10/11/2010								0.02553	
10/12/2010									0.022581482..
4/12/2011					0.021974552..	0.021974552..			
4/13/2011				0.021974552..			0.021974552..		
4/14/2011									
4/18/2011									
4/19/2011	0.02322	0.021974552..							
4/20/2011			0.021974552..						
4/21/2011									
4/26/2011								0.02582	
4/27/2011									0.021974552..
4/28/2011									
10/4/2011				0.022581482..	0.022581482..	0.022581482..			
10/5/2011							0.022581482..		
10/12/2011	0.022581482..		0.022581482..						
10/13/2011									
10/17/2011									0.022581482..
10/18/2011		0.02443						0.022581482..	
10/19/2011									
4/3/2012					0.023224552..	0.023224552..			
4/4/2012				0.023224552..			0.023224552..		
4/11/2012									
4/23/2012									
4/24/2012	0.023224552..								
4/25/2012		0.023224552..	0.023224552..						
4/30/2012									
5/1/2012									
5/2/2012								0.018863069..	0.018863069..
10/2/2012	0.022581482..	0.022581482..	0.022581482..						
10/3/2012				0.022581482..		0.02553	0.02533		
10/8/2012					0.022581482..			0.022581482..	0.022581482..
10/9/2012									
10/10/2012									
4/2/2013	0.02372	0.021974552..	0.021974552..						
4/3/2013				0.021974552..	0.021974552..	0.021974552..	0.02352		
4/8/2013									
4/9/2013									
4/10/2013								0.021974552..	
4/11/2013									
4/12/2013									0.021974552..
4/15/2013									

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 6/25/2018 1:50 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-12	GWC-13	GWC-13R_13RZ	GWC-11R	GWC-10R	GWC-11	GWC-10	GWC-6	GWA-1 (bg)
4/16/2013									
10/8/2013		0.022581482..	0.022581482..					0.02383	
10/9/2013	0.022581482..			0.022581482..		0.022581482..			
10/15/2013					0.022581482..		0.02493		
10/16/2013									0.022581482..
10/22/2013									
4/1/2014	0.02322 (J)	0.021349552..	0.021349552..						
4/2/2014				0.021349552..		0.02322 (J)			
4/9/2014					0.021349552..		0.02322 (J)		
4/10/2014									
4/11/2014									0.021349552..
4/14/2014								0.02322 (J)	
4/21/2014									
4/22/2014									
4/23/2014									
9/30/2014									0.022581482..
10/1/2014		0.022581482..	0.022581482..						
10/2/2014	0.022581482..			0.022581482..	0.022581482..	0.02293 (J)	0.022581482..		
10/3/2014								0.02343 (J)	
10/4/2014									
3/30/2015									0.02472
3/31/2015			0.021974552..						
4/1/2015	0.02212 (J)	0.021974552..		0.02482		0.021974552..		0.02332	
4/2/2015					0.021974552..		0.021974552..		
4/3/2015									
5/26/2015									
6/18/2015									
7/2/2015									
10/6/2015									
10/7/2015									
10/8/2015									
10/9/2015								0.022581482..	
10/10/2015							0.022581482..		
10/11/2015				0.022581482..		0.022581482..			
10/12/2015					0.022581482..				
10/13/2015									0.022581482..
10/14/2015	0.02343 (J)		0.022581482..						
10/15/2015		0.022581482..							
3/22/2016									0.025724552..
3/23/2016									
3/28/2016									
3/29/2016								0.025724552..	
3/30/2016									
3/31/2016					0.025724552..		0.025724552..		
4/4/2016	0.02336 (J)	0.025724552..	0.025724552..	0.025724552..		0.025724552..			
4/5/2016									
7/29/2016									0.021363069.. (*)
8/1/2016								0.026331482..	
8/2/2016									
8/3/2016	0.026331482.. (*)				0.026331482.. (*)	0.026331482..			
8/4/2016		0.026331482..		0.026331482..					
8/5/2016							0.026331482.. (*)		

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 6/25/2018 1:50 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-12	GWC-13	GWC-13R_13RZ	GWC-11R	GWC-10R	GWC-11	GWC-10	GWC-6	GWA-1 (bg)
8/9/2016									
3/30/2017									0.02112 (J)
4/3/2017									
4/6/2017								0.02122 (J)	
4/7/2017									
4/10/2017				0.025724552..	0.025724552.. (*)	0.025724552.. (*)	0.025724552.. (*)		
4/11/2017	0.02342 (J)		0.025724552.. (*)						
4/12/2017		0.025724552.. (*)							
10/2/2017									0.026331482..
10/3/2017								0.026331482..	
10/4/2017	0.02353 (J)			0.026331482..	0.02193 (J)	0.026331482..	0.026331482..		
10/5/2017									
10/6/2017			0.026331482..						
10/9/2017		0.026331482..							
3/16/2018									0.025724552..
3/19/2018								0.025724552..	
3/20/2018							0.02232 (J)		
3/21/2018		0.025724552..			0.025724552..	0.025724552..			
3/22/2018	0.02322 (J)			0.025724552..					
3/23/2018			0.025724552..						

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 6/25/2018 1:50 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-9	GWA-2 (bg)	GWA-3 (bg)	GWC-5	GWA-2R (bg)	GWC-14_14Z	GWC-15_15Z	GWC-15R	GWA-50R (bg)
8/21/2007									
8/22/2007									
8/23/2007	0.02593	0.022581482..	0.04933	0.02823	0.022581482..			0.0089 (O)	
8/24/2007						0.022581482..	0.022581482..		
10/23/2007									
10/24/2007		0.04733			0.02383				
10/25/2007				0.05933					
11/1/2007	0.01445								
11/2/2007			0.04975			0.01165	0.01	0.01235	
11/17/2007						0.01735		0.014 (O)	
11/18/2007		0.05175	0.1488		0.01805		0.01755 (J)		
11/19/2007	0.02275 (J)			0.03375					
11/20/2007									
1/15/2008	0.06575					0.01975	0.02775	0.0096 (O)	
1/16/2008									
1/23/2008				0.05575					
1/30/2008									
1/31/2008		0.01625	0.06175		0.06275				
3/5/2008						0.02792			
3/6/2008	0.06672							0.02452	
3/10/2008					0.02612		0.03772		
3/11/2008		0.03972	0.09672	0.06272					
5/6/2008		0.02036							
5/7/2008						0.02086		0.02196	
5/8/2008									
5/12/2008				0.04736					
5/13/2008	0.02326				0.02066		0.02216		
5/14/2008			0.09036						
12/2/2008						0.01975	0.01305	0.01175	
12/4/2008		0.02875			0.01				
12/5/2008			0.04075						
12/11/2008				0.03575					
12/12/2008	0.01485								0.01835
12/13/2008									
12/14/2008									
4/15/2009			0.04872	0.04572					
4/16/2009	0.02742 (J)					0.02682			
4/21/2009		0.021974552..			0.021974552..				
4/23/2009									0.03572
4/28/2009							0.021974552..	0.021974552..	
4/29/2009									
10/6/2009									0.02933
10/7/2009		0.022581482..							
10/8/2009			0.05333		0.022581482..				
10/9/2009				0.07233					
10/13/2009	0.02673								
10/19/2009								0.022581482..	
10/20/2009						0.03133	0.022581482..		
10/21/2009									
10/22/2009									
4/20/2010						0.021974552..			
4/21/2010	0.021974552..				0.021974552..				

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 6/25/2018 1:50 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-9	GWA-2 (bg)	GWA-3 (bg)	GWC-5	GWA-2R (bg)	GWC-14_14Z	GWC-15_15Z	GWC-15R	GWA-50R (bg)
4/26/2010		0.021974552..							
4/27/2010							0.021974552..	0.02472	
4/28/2010			0.04972						
5/3/2010									0.02166
5/4/2010				0.04136					
9/28/2010					0.022581482..				
9/29/2010	0.022581482..					0.022581482..			
9/30/2010									
10/4/2010		0.02383						0.022581482..	
10/5/2010							0.022581482..		
10/6/2010			0.05233						
10/11/2010									0.02743
10/12/2010				0.04533					
4/12/2011					0.021974552..	0.021974552..			
4/13/2011	0.021974552..	0.021974552..							
4/14/2011									
4/18/2011								0.021974552..	
4/19/2011							0.021974552..		
4/20/2011									
4/21/2011			0.03972						
4/26/2011									
4/27/2011									0.02942
4/28/2011				0.03072					
10/4/2011					0.022581482..	0.022581482..			
10/5/2011	0.022581482..	0.022581482..							
10/12/2011							0.022581482..	0.022581482..	
10/13/2011			0.04933						
10/17/2011									
10/18/2011									
10/19/2011				0.05133					0.02523
4/3/2012					0.023224552..				
4/4/2012	0.023224552..					0.023224552..			
4/11/2012		0.023224552..							
4/23/2012								0.023224552..	
4/24/2012									
4/25/2012							0.023224552..		
4/30/2012									
5/1/2012			0.04166						0.02176
5/2/2012				0.05926					
10/2/2012									0.02573
10/3/2012									
10/8/2012	0.022581482..								
10/9/2012		0.022581482..	0.04433	0.05433	0.022581482..				
10/10/2012						0.022581482..	0.022581482..	0.022581482..	
4/2/2013									
4/3/2013									
4/8/2013	0.021974552..								
4/9/2013									
4/10/2013									0.02602
4/11/2013			0.04172	0.04072	0.021974552..				
4/12/2013									
4/15/2013		0.021974552..				0.021974552..		0.021974552..	

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 6/25/2018 1:50 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-9	GWA-2 (bg)	GWA-3 (bg)	GWC-5	GWA-2R (bg)	GWC-14_14Z	GWC-15_15Z	GWC-15R	GWA-50R (bg)
4/16/2013							0.021974552..		
10/8/2013									
10/9/2013	0.02423								
10/15/2013		0.02413							
10/16/2013			0.03933	0.04933	0.022581482..				0.02603
10/22/2013						0.022581482..	0.022581482..	0.022581482..	
4/1/2014									
4/2/2014									
4/9/2014	0.02322 (J)								
4/10/2014					0.021349552..				
4/11/2014									
4/14/2014									
4/21/2014						0.021349552..	0.021349552..	0.021349552..	
4/22/2014		0.021349552..							0.02522
4/23/2014			0.03572	0.04472					
9/30/2014	0.022581482..	0.022581482..			0.022581482..	0.022581482..	0.022581482..	0.022581482..	
10/1/2014									0.02313 (J)
10/2/2014									
10/3/2014				0.05333					
10/4/2014			0.03833						
3/30/2015		0.02252 (J)			0.021974552..				0.02442
3/31/2015			0.06572	0.03272					
4/1/2015									
4/2/2015	0.02232 (J)								
4/3/2015						0.021974552..	0.021974552..	0.021974552..	
5/26/2015									
6/18/2015									
7/2/2015									
10/6/2015							0.022581482..		
10/7/2015						0.022581482..		0.022581482..	
10/8/2015									
10/9/2015									
10/10/2015	0.02366 (D)								
10/11/2015									0.02313 (J)
10/12/2015			0.04033	0.03333					
10/13/2015		0.022581482..			0.022581482..				
10/14/2015									
10/15/2015									
3/22/2016									
3/23/2016		0.025724552..	0.03972		0.025724552..				
3/28/2016				0.03792					0.02352 (J)
3/29/2016									
3/30/2016	0.02188 (J)								
3/31/2016									
4/4/2016									
4/5/2016						0.025724552..	0.025724552..	0.025724552..	
7/29/2016		0.021363069.. (*)	0.03246		0.021363069..				
8/1/2016				0.03263					0.026331482.. (*)
8/2/2016									
8/3/2016									
8/4/2016								0.026331482.. (*)	
8/5/2016	0.026331482..								

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 6/25/2018 1:50 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-9	GWA-2 (bg)	GWA-3 (bg)	GWC-5	GWA-2R (bg)	GWC-14_14Z	GWC-15_15Z	GWC-15R	GWA-50R (bg)
8/9/2016						0.02343 (J)			
3/30/2017		0.02132 (J)	0.03872						
4/3/2017				0.03212	0.025724552..				0.02292 (J)
4/6/2017	0.02172 (J)								
4/7/2017									
4/10/2017									
4/11/2017						0.025724552..	0.025724552.. (*)		
4/12/2017								0.025724552.. (*)	
10/2/2017		0.026331482..			0.026331482..				0.02343 (J)
10/3/2017	0.02203 (J)			0.03113 (J)					
10/4/2017			0.03713						
10/5/2017						0.026331482..			
10/6/2017							0.026331482..	0.02233 (J)	
10/9/2017									
3/16/2018					0.025724552..				0.02212 (J)
3/19/2018		0.025724552..	0.03572	0.02992 (J)					
3/20/2018	0.02169 (J)								
3/21/2018									
3/22/2018						0.025724552..			
3/23/2018							0.025724552..	0.025724552..	

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 6/25/2018 1:51 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50 (bg)	GWC-8RR	GWC-6RZ	GWC-8Z	GWC-7Z	GWA-4RZ (bg)
8/21/2007						
8/22/2007						
8/23/2007						
8/24/2007						
10/23/2007						
10/24/2007						
10/25/2007						
11/1/2007						
11/2/2007						
11/17/2007						
11/18/2007						
11/19/2007						
11/20/2007						
1/15/2008						
1/16/2008						
1/23/2008						
1/30/2008						
1/31/2008						
3/5/2008						
3/6/2008						
3/10/2008						
3/11/2008						
5/6/2008						
5/7/2008						
5/8/2008						
5/12/2008						
5/13/2008						
5/14/2008						
12/2/2008						
12/4/2008						
12/5/2008						
12/11/2008						
12/12/2008	0.01225					
12/13/2008						
12/14/2008						
4/15/2009						
4/16/2009						
4/21/2009						
4/23/2009	0.02392					
4/28/2009						
4/29/2009						
10/6/2009	0.022581482..					
10/7/2009						
10/8/2009						
10/9/2009						
10/13/2009						
10/19/2009						
10/20/2009						
10/21/2009						
10/22/2009						
4/20/2010						
4/21/2010						

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 6/25/2018 1:51 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50 (bg)	GWC-8RR	GWC-6RZ	GWC-8Z	GWC-7Z	GWA-4RZ (bg)
4/26/2010						
4/27/2010	0.021974552..					
4/28/2010						
5/3/2010						
5/4/2010						
9/28/2010						
9/29/2010						
9/30/2010	0.022581482..					
10/4/2010						
10/5/2010						
10/6/2010						
10/11/2010						
10/12/2010						
4/12/2011						
4/13/2011						
4/14/2011	0.02352					
4/18/2011						
4/19/2011						
4/20/2011						
4/21/2011						
4/26/2011						
4/27/2011						
4/28/2011						
10/4/2011						
10/5/2011	0.02413					
10/12/2011						
10/13/2011						
10/17/2011						
10/18/2011		0.022581482..				
10/19/2011						
4/3/2012						
4/4/2012						
4/11/2012	0.023224552..					
4/23/2012						
4/24/2012						
4/25/2012						
4/30/2012		0.023224552..				
5/1/2012						
5/2/2012						
10/2/2012	0.02393					
10/3/2012		0.022581482..				
10/8/2012						
10/9/2012						
10/10/2012						
4/2/2013						
4/3/2013						
4/8/2013		0.021974552..				
4/9/2013	0.021974552..					
4/10/2013						
4/11/2013						
4/12/2013						
4/15/2013						

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 6/25/2018 1:51 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50 (bg)	GWC-8RR	GWC-6RZ	GWC-8Z	GWC-7Z	GWA-4RZ (bg)
4/16/2013						
10/8/2013						
10/9/2013		0.022581482..				
10/15/2013	0.022581482..					
10/16/2013						
10/22/2013						
4/1/2014						
4/2/2014						
4/9/2014						
4/10/2014	0.02322 (J)	0.021349552..				
4/11/2014						
4/14/2014						
4/21/2014						
4/22/2014						
4/23/2014						
9/30/2014						
10/1/2014	0.022581482..					
10/2/2014		0.022581482..				
10/3/2014						
10/4/2014						
3/30/2015	0.02222 (J)					
3/31/2015						
4/1/2015						
4/2/2015						
4/3/2015		0.021974552..				
5/26/2015			0.017613069..	0.01836 (J)		
6/18/2015			0.017613069.. (D)	0.01886 (D)		
7/2/2015			0.017613069..	0.017613069..		
10/6/2015						
10/7/2015						
10/8/2015		0.02433		0.022581482..		
10/9/2015			0.022581482..			
10/10/2015						
10/11/2015	0.02263 (J)					
10/12/2015						
10/13/2015						
10/14/2015						
10/15/2015						
3/22/2016				0.025724552..		
3/23/2016						
3/28/2016	0.025724552..					
3/29/2016			0.025724552..			
3/30/2016		0.025724552..				
3/31/2016						
4/4/2016						
4/5/2016						
7/29/2016						
8/1/2016	0.026331482.. (*)		0.026331482..			
8/2/2016		0.026331482..		0.026331482.. (*)	0.02243 (J)	
8/3/2016						
8/4/2016						
8/5/2016						

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 6/25/2018 1:51 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50 (bg)	GWC-8RR	GWC-6RZ	GWC-8Z	GWC-7Z	GWA-4RZ (bg)
8/9/2016						
3/30/2017						
4/3/2017						
4/6/2017		0.02102 (J)	0.025724552..		0.02182 (J)	
4/7/2017	0.02182 (J)			0.02142 (J)		0.025724552..
4/10/2017						
4/11/2017						
4/12/2017						
10/2/2017	0.02263 (J)					
10/3/2017			0.026331482..	0.02193 (J)	0.02253 (J)	0.026331482..
10/4/2017		0.026331482..				
10/5/2017						
10/6/2017						
10/9/2017						
3/16/2018	0.025724552..					
3/19/2018						
3/20/2018			0.025724552..	0.025724552..	0.025724552..	
3/21/2018		0.025724552..				0.025724552..
3/22/2018						
3/23/2018						

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 6/25/2018 1:51 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-10	GWC-11	GWC-11R	GWC-10R	GWC-12	GWC-13	GWC-13R_13RZ	GWC-6	GWA-3 (bg)
8/21/2007	0.006706542..	0.006706542..	0.006706542..	0.006706542..	0.006706542..	0.006706542..	0.006706542..		
8/22/2007								0.006706542..	
8/23/2007									0.006706542..
8/24/2007									
10/23/2007									
10/24/2007									
10/25/2007								0.006706542..	
11/1/2007	0.005364638..	0.005364638..	0.005364638..	0.005364638..	0.005364638..	0.005364638..	0.005364638..		
11/2/2007									0.005364638..
11/17/2007									
11/18/2007		0.005364638..	0.005364638..						0.005364638..
11/19/2007					0.005364638..	0.005364638..	0.005364638..		
11/20/2007	0.005364638..			0.005364638..				0.005364638..	
1/15/2008									
1/16/2008					0.005364638..				
1/23/2008								0.005364638..	
1/30/2008	0.005364638..	0.005364638..	0.005364638..	0.005364638..					
1/31/2008						0.005364638..	0.005364638..		0.005364638..
3/5/2008		0.006776895..			0.006776895..	0.006776895..	0.006776895..		
3/6/2008	0.006776895..		0.006776895..	0.006776895..					
3/10/2008									
3/11/2008								0.006776895..	0.006776895..
5/6/2008									
5/7/2008		0.006454410..	0.006454410..				0.006454410..		
5/8/2008				0.006454410..					
5/12/2008	0.006454410..					0.006454410..			
5/13/2008					0.006454410..				
5/14/2008								0.006454410..	0.006454410..
12/2/2008									
12/4/2008									
12/5/2008									0.005364638..
12/11/2008								0.005364638..	
12/12/2008							0.005364638..		
12/13/2008	0.005364638..				0.005364638..	0.005364638..			
12/14/2008		0.005364638..	0.005364638..	0.005364638..					
4/15/2009									0.006776895..
4/16/2009					0.006776895..				
4/21/2009									
4/23/2009								0.006776895..	
4/28/2009						0.006776895..			
4/29/2009	0.006776895..	0.006776895..	0.006776895..	0.006776895..			0.006776895..		
10/6/2009									
10/7/2009									
10/8/2009									0.006706542..
10/9/2009								0.006706542..	
10/13/2009									
10/19/2009									
10/20/2009	0.006706542..								
10/21/2009				0.006706542..	0.006706542..	0.006706542..	0.006706542..		
10/22/2009		0.006706542..	0.006706542..						
4/20/2010									
4/21/2010		0.006776895..	0.006776895..	0.006776895..					

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 6/25/2018 1:51 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-10	GWC-11	GWC-11R	GWC-10R	GWC-12	GWC-13	GWC-13R_13RZ	GWC-6	GWA-3 (bg)
4/26/2010	0.006776895..								
4/27/2010					0.006776895..				
4/28/2010						0.006776895..	0.006776895..		0.006776895..
5/3/2010									
5/4/2010								0.006454410..	
9/28/2010		0.006706542..		0.006706542..					
9/29/2010	0.006706542..		0.006706542..						
9/30/2010									
10/4/2010									
10/5/2010					0.006706542..	0.006706542..			
10/6/2010							0.006706542..		0.006706542..
10/11/2010								0.006706542..	
10/12/2010									
4/12/2011		0.006776895..		0.006776895..					
4/13/2011	0.006776895..		0.006776895..						
4/14/2011									
4/18/2011									
4/19/2011					0.006776895..	0.006776895..			
4/20/2011							0.006776895..		
4/21/2011									0.006776895..
4/26/2011								0.006776895..	
4/27/2011									
4/28/2011									
10/4/2011		0.006706542..	0.006706542..	0.006706542..					
10/5/2011	0.006706542..								
10/12/2011					0.006706542..		0.006706542..		
10/13/2011									0.006706542..
10/17/2011									
10/18/2011						0.006706542..		0.006706542..	
10/19/2011									
4/3/2012		0.002776894..		0.002776894..					
4/4/2012	0.002776894..		0.002776894..						
4/11/2012									
4/23/2012									
4/24/2012					0.002776894..				
4/25/2012						0.002776894..	0.002776894..		
4/30/2012									
5/1/2012									0.002454409..
5/2/2012								0.002454409..	
10/2/2012					0.002706542..	0.002706542..	0.002706542..		
10/3/2012	0.002706542..	0.002706542..	0.002706542..						
10/8/2012				0.002706542..				0.002706542..	
10/9/2012									0.002706542..
10/10/2012									
4/2/2013					0.002776894..	0.002776894..	0.002776894..		
4/3/2013	0.002776894..	0.002776894..	0.002776894..	0.002776894..					
4/8/2013									
4/9/2013									
4/10/2013								0.002776894..	
4/11/2013									0.002776894..
4/12/2013									
4/15/2013									

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 6/25/2018 1:51 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-10	GWC-11	GWC-11R	GWC-10R	GWC-12	GWC-13	GWC-13R_13RZ	GWC-6	GWA-3 (bg)
4/16/2013									
10/8/2013						0.002706542..	0.002706542..	0.002706542..	
10/9/2013		0.002706542..	0.002706542..		0.002706542..				
10/15/2013	0.002706542..			0.002706542..					
10/16/2013									0.002706542..
10/22/2013									
4/1/2014					0.002776894..	0.002776894..	0.002776894..		
4/2/2014		0.002776894..	0.002776894..						
4/9/2014	0.002776894..			0.002776894..					
4/10/2014									
4/11/2014									
4/14/2014								0.002776894..	
4/21/2014									
4/22/2014									
4/23/2014									0.002776894..
9/30/2014									
10/1/2014						0.002706542..	0.002706542..		
10/2/2014	0.002706542..	0.002706542..	0.002706542..	0.002706542..	0.002706542..				
10/3/2014								0.002706542..	
10/4/2014									0.002706542..
3/30/2015									
3/31/2015							0.002776894..		0.002776894..
4/1/2015		0.002776894..	0.002776894..		0.002776894..	0.002776894..		0.002776894..	
4/2/2015	0.002776894..			0.002776894..					
4/3/2015									
5/26/2015									
6/18/2015									
7/2/2015									
10/6/2015									
10/7/2015									
10/8/2015									
10/9/2015								0.002706542..	
10/10/2015	0.002706542..								
10/11/2015		0.002706542..	0.002706542..						
10/12/2015				0.002706542..					0.002706542..
10/13/2015									
10/14/2015					0.002706542..		0.002706542..		
10/15/2015						0.005707			
3/22/2016									
3/23/2016									0.005276894..
3/28/2016									
3/29/2016								0.005276894..	
3/30/2016									
3/31/2016	0.005276894..			0.005276894..					
4/4/2016		0.005276894..	0.005276894..		0.005276894..	0.003137 (J)	0.005276894..		
4/5/2016									
5/19/2016									
5/20/2016									
5/23/2016									0.004954409..
5/24/2016								0.004954409..	
5/25/2016									
5/26/2016	0.004954409..	0.004954409..	0.004954409..	0.004954409..					

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 6/25/2018 1:51 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-10	GWC-11	GWC-11R	GWC-10R	GWC-12	GWC-13	GWC-13R_13RZ	GWC-6	GWA-3 (bg)
5/27/2016					0.004954409..				
5/31/2016						0.002984 (J)			
6/1/2016							0.004954409..		
7/29/2016									0.004954409..
8/1/2016								0.005206542..	
8/2/2016									
8/3/2016		0.005206542..		0.005206542..	0.005206542..				
8/4/2016			0.005206542..			0.005207 (J)			
8/5/2016	0.005206542..								
8/9/2016									
9/22/2016									0.005206542..
9/23/2016									
9/26/2016								0.005206542..	
9/27/2016									
9/28/2016	0.005206542..	0.005206542..	0.005206542..	0.005206542..					
9/29/2016						0.007607 (J)			
9/30/2016					0.005206542..				
11/9/2016									
11/10/2016									0.003864638..
11/11/2016									
11/14/2016									
11/18/2016								0.003864638..	
11/21/2016									
11/22/2016	0.003864638..	0.003864638..	0.003864638..	0.003864638..	0.003864638..				
11/23/2016									
11/28/2016						0.006165 (J)			
1/30/2017									
1/31/2017									0.003864638..
2/1/2017								0.005276894..	
2/3/2017									
2/6/2017									
2/7/2017	0.005276894..			0.005276894..					
2/8/2017		0.005276894..	0.005276894..						
2/9/2017						0.006977 (J)			
2/10/2017									
2/13/2017					0.005276894..				
2/22/2017							0.001677 (J)		
3/30/2017									0.005276894..
4/3/2017									
4/6/2017								0.005276894..	
4/7/2017									
4/10/2017	0.005276894..	0.005276894..	0.005276894..	0.005276894..					
4/11/2017					0.005276894..		0.002677 (J)		
4/12/2017						0.005077 (J)			
6/9/2017									
6/12/2017									0.004954409..
6/13/2017								0.004954409..	
6/14/2017	0.004954409..			0.004954409..	0.004954409..				
6/15/2017		0.004954409..	0.004954409..						
6/16/2017						0.006954 (J)	0.004954409..		
7/12/2017							0.001854 (J)		
7/14/2017									

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 6/25/2018 1:51 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-10	GWC-11	GWC-11R	GWC-10R	GWC-12	GWC-13	GWC-13R_13RZ	GWC-6	GWA-3 (bg)
7/20/2017									
7/26/2017									
7/28/2017							0.004954409..		
8/9/2017									
8/10/2017							0.002107 (J)		
8/24/2017									
10/2/2017									
10/3/2017								0.005206542..	
10/4/2017	0.005206542..	0.005206542..	0.005206542..	0.005206542..	0.005206542..				0.005206542..
10/5/2017									
10/6/2017							0.005206542..		
10/9/2017						0.005007 (J)			
3/16/2018									
3/19/2018								0.005276894..	0.005276894..
3/20/2018	0.005276894..								
3/21/2018		0.005276894..		0.005276894..		0.002377 (J)			
3/22/2018			0.005276894..		0.005276894..				
3/23/2018							0.005276894..		

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 6/25/2018 1:51 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-2 (bg)	GWA-1 (bg)	GWA-2R (bg)	GWC-15R	GWC-5	GWC-9	GWC-15_15Z	GWC-14_14Z	GWA-50R (bg)
8/21/2007									
8/22/2007									
8/23/2007	0.006706542..	0.006706542..	0.006706542..	0.006706542..	0.006706542..	0.006706542..			
8/24/2007							0.006706542..	0.006706542..	
10/23/2007		0.006706542..							
10/24/2007	0.006706542..		0.006706542..						
10/25/2007					0.006706542..				
11/1/2007						0.005364638..			
11/2/2007				0.005364638..			0.005364638..	0.005364638..	
11/17/2007				0.005364638..				0.005364638..	
11/18/2007	0.005364638..	0.005364638..	0.005364638..				0.005364638..		
11/19/2007					0.005364638..	0.005364638..			
11/20/2007									
1/15/2008				0.005364638..		0.005364638..	0.005364638..	0.005364638..	
1/16/2008									
1/23/2008					0.005364638..				
1/30/2008		0.005364638..							
1/31/2008	0.005364638..		0.005364638..						
3/5/2008								0.006776895..	
3/6/2008				0.006776895..		0.006776895..			
3/10/2008		0.006776895..	0.006776895..				0.006776895..		
3/11/2008	0.006776895..				0.006776895..				
5/6/2008	0.006454410..								
5/7/2008				0.006454410..				0.006454410..	
5/8/2008									
5/12/2008					0.006454410..				
5/13/2008		0.006454410..	0.006454410..			0.006454410..	0.006454410..		
5/14/2008									
12/2/2008				0.005364638..			0.005364638..	0.005364638..	
12/4/2008	0.005364638..		0.005364638..						
12/5/2008		0.005364638..							
12/11/2008					0.005364638..				
12/12/2008						0.005364638..			0.005364638..
12/13/2008									
12/14/2008									
4/15/2009		0.006776895..			0.006776895..				
4/16/2009						0.006776895..		0.006776895..	
4/21/2009	0.006776895..		0.006776895..						
4/23/2009									0.006776895..
4/28/2009				0.006776895..			0.006776895..		
4/29/2009									
10/6/2009									0.006706542..
10/7/2009	0.006706542..	0.006706542..							
10/8/2009			0.006706542..						
10/9/2009					0.01521				
10/13/2009						0.006706542..			
10/19/2009				0.006706542..					
10/20/2009							0.006706542..	0.006706542..	
10/21/2009									
10/22/2009									
4/20/2010								0.006776895..	
4/21/2010			0.006776895..			0.006776895..			

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 6/25/2018 1:51 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-2 (bg)	GWA-1 (bg)	GWA-2R (bg)	GWC-15R	GWC-5	GWC-9	GWC-15_15Z	GWC-14_14Z	GWA-50R (bg)
4/26/2010	0.006776895..								
4/27/2010				0.006776895..			0.006776895..		
4/28/2010									
5/3/2010		0.006454410..							0.006454410..
5/4/2010					0.006454410..				
9/28/2010			0.006706542..						
9/29/2010						0.006706542..		0.006706542..	
9/30/2010									
10/4/2010	0.006706542..			0.006706542..					
10/5/2010							0.006706542..		
10/6/2010									
10/11/2010									0.006706542..
10/12/2010		0.006706542..			0.006706542..				
4/12/2011			0.006776895..					0.006776895..	
4/13/2011	0.006776895..					0.006776895..			
4/14/2011									
4/18/2011				0.006776895..					
4/19/2011							0.006776895..		
4/20/2011									
4/21/2011									
4/26/2011									
4/27/2011		0.006776895..							0.006776895..
4/28/2011					0.006776895..				
10/4/2011			0.006706542..					0.006706542..	
10/5/2011	0.006706542..					0.006706542..			
10/12/2011				0.006706542..			0.006706542..		
10/13/2011									
10/17/2011		0.006706542..							
10/18/2011									
10/19/2011					0.006706542..				0.006706542..
4/3/2012			0.002776894..						
4/4/2012						0.002776894..		0.002776894..	
4/11/2012	0.002776894..								
4/23/2012				0.002776894..					
4/24/2012									
4/25/2012							0.002776894..		
4/30/2012									
5/1/2012									0.002454409..
5/2/2012		0.002454409..			0.002454409..				
10/2/2012									0.002706542..
10/3/2012									
10/8/2012		0.002706542..				0.002706542..			
10/9/2012	0.002706542..		0.002706542..		0.005607				
10/10/2012				0.002706542..			0.002706542..	0.002706542..	
4/2/2013									
4/3/2013									
4/8/2013						0.002776894..			
4/9/2013									
4/10/2013									0.002776894..
4/11/2013			0.002776894..		0.007477				
4/12/2013		0.002776894..							
4/15/2013	0.002776894..			0.002776894..				0.002776894..	

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 6/25/2018 1:51 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-2 (bg)	GWA-1 (bg)	GWA-2R (bg)	GWC-15R	GWC-5	GWC-9	GWC-15_15Z	GWC-14_14Z	GWA-50R (bg)
4/16/2013							0.002776894..		
10/8/2013									
10/9/2013						0.002706542..			
10/15/2013	0.002706542..								
10/16/2013		0.002706542..	0.002706542..		0.002706542..				0.002706542..
10/22/2013				0.002706542..			0.002706542..	0.002706542..	
4/1/2014									
4/2/2014									
4/9/2014						0.002776894..			
4/10/2014			0.002776894..						
4/11/2014		0.002776894..							
4/14/2014									
4/21/2014				0.002776894..			0.002776894..	0.002776894..	
4/22/2014	0.002776894..								0.002776894..
4/23/2014					0.006977				
9/30/2014	0.002706542..	0.002706542..	0.002706542..	0.002706542..		0.002706542..	0.002706542..	0.002706542..	
10/1/2014									0.002706542..
10/2/2014									
10/3/2014					0.002706542..				
10/4/2014									
3/30/2015	0.002776894..	0.002776894..	0.002776894..						0.002776894..
3/31/2015					0.002776894..				
4/1/2015									
4/2/2015						0.002776894..			
4/3/2015				0.002776894..			0.002776894..	0.002776894..	
5/26/2015									
6/18/2015									
7/2/2015									
10/6/2015							0.002706542..		
10/7/2015				0.002706542..				0.002706542..	
10/8/2015									
10/9/2015									
10/10/2015						0.002706542.. (D)			
10/11/2015									0.002706542..
10/12/2015					0.002706542..				
10/13/2015	0.002706542..	0.002706542..	0.002706542..						
10/14/2015									
10/15/2015									
3/22/2016		0.005276894..							
3/23/2016	0.005276894..		0.005276894..						
3/28/2016					0.005276894..				0.005276894..
3/29/2016									
3/30/2016						0.002297 (J)			
3/31/2016									
4/4/2016									
4/5/2016				0.005276894..			0.005276894..	0.005276894..	
5/19/2016		0.004954409..	0.004954409..						
5/20/2016	0.002114 (J)								
5/23/2016									
5/24/2016									
5/25/2016					0.004954409..				0.004954409..
5/26/2016						0.004954409..			

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 6/25/2018 1:51 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-2 (bg)	GWA-1 (bg)	GWA-2R (bg)	GWC-15R	GWC-5	GWC-9	GWC-15_15Z	GWC-14_14Z	GWA-50R (bg)
5/27/2016									
5/31/2016				0.004954409..			0.004954409..		
6/1/2016								0.004954409..	
7/29/2016	0.0009544 (J)	0.004954409..	0.004954409..						
8/1/2016					0.005206542..				0.005206542..
8/2/2016									
8/3/2016									
8/4/2016				0.005206542..					
8/5/2016						0.005206542..			
8/9/2016								0.005206542..	
9/22/2016			0.005206542..						
9/23/2016	0.005206542..	0.005206542..							
9/26/2016									0.005206542..
9/27/2016					0.005206542..				
9/28/2016						0.005206542..			
9/29/2016				0.005206542..					
9/30/2016									
11/9/2016	0.003864638..	0.003864638..							
11/10/2016			0.003864638..						
11/11/2016					0.003864638..				0.003864638..
11/14/2016									
11/18/2016									
11/21/2016						0.003864638..			
11/22/2016									
11/23/2016				0.0004646 (J)			0.003864638..		
11/28/2016								0.003864638..	
1/30/2017		0.003864638..							0.003864638..
1/31/2017	0.003864638..		0.003864638..		0.003864638..				
2/1/2017									
2/3/2017									
2/6/2017						0.005276894..			
2/7/2017									
2/8/2017									
2/9/2017								0.005276894..	
2/10/2017				0.005276894..			0.005276894..		
2/13/2017									
2/22/2017									
3/30/2017	0.005276894..	0.005276894..							
4/3/2017			0.005276894..		0.005276894..				0.005276894..
4/6/2017						0.005276894..			
4/7/2017									
4/10/2017									
4/11/2017							0.005276894..	0.005276894..	
4/12/2017				0.005276894..					
6/9/2017		0.004954409..	0.004954409..						
6/12/2017	0.004954409..				0.004954409..				0.004954409..
6/13/2017						0.004954409..			
6/14/2017								0.004954409..	
6/15/2017				0.004954409..			0.004954409..		
6/16/2017									
7/12/2017							0.004954409..	0.004954409..	
7/14/2017									

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 6/25/2018 1:51 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-2 (bg)	GWA-1 (bg)	GWA-2R (bg)	GWC-15R	GWC-5	GWC-9	GWC-15_15Z	GWC-14_14Z	GWA-50R (bg)
7/20/2017									
7/26/2017							0.004954409..		
7/28/2017									
8/9/2017									
8/10/2017									
8/24/2017									
10/2/2017	0.005206542..	0.005206542..	0.005206542..						0.005206542..
10/3/2017					0.005206542..	0.005206542..			
10/4/2017									
10/5/2017								0.005206542..	
10/6/2017				0.005206542..			0.005206542..		
10/9/2017									
3/16/2018		0.005276894..	0.005276894..						0.005276894..
3/19/2018	0.001877 (J)				0.005276894..				
3/20/2018						0.005276894..			
3/21/2018									
3/22/2018								0.005276894..	
3/23/2018				0.005276894..			0.005276894..		

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 6/25/2018 1:51 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50 (bg)	GWC-8RR	GWC-8Z	GWC-6RZ	GWC-7Z	GWA-4RZ (bg)
8/21/2007						
8/22/2007						
8/23/2007						
8/24/2007						
10/23/2007						
10/24/2007						
10/25/2007						
11/1/2007						
11/2/2007						
11/17/2007						
11/18/2007						
11/19/2007						
11/20/2007						
1/15/2008						
1/16/2008						
1/23/2008						
1/30/2008						
1/31/2008						
3/5/2008						
3/6/2008						
3/10/2008						
3/11/2008						
5/6/2008						
5/7/2008						
5/8/2008						
5/12/2008						
5/13/2008						
5/14/2008						
12/2/2008						
12/4/2008						
12/5/2008						
12/11/2008						
12/12/2008	0.005364638..					
12/13/2008						
12/14/2008						
4/15/2009						
4/16/2009						
4/21/2009						
4/23/2009	0.006776895..					
4/28/2009						
4/29/2009						
10/6/2009	0.006706542..					
10/7/2009						
10/8/2009						
10/9/2009						
10/13/2009						
10/19/2009						
10/20/2009						
10/21/2009						
10/22/2009						
4/20/2010						
4/21/2010						

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 6/25/2018 1:51 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50 (bg)	GWC-8RR	GWC-8Z	GWC-6RZ	GWC-7Z	GWA-4RZ (bg)
4/26/2010						
4/27/2010	0.006776895..					
4/28/2010						
5/3/2010						
5/4/2010						
9/28/2010						
9/29/2010						
9/30/2010	0.006706542..					
10/4/2010						
10/5/2010						
10/6/2010						
10/11/2010						
10/12/2010						
4/12/2011						
4/13/2011						
4/14/2011	0.006776895..					
4/18/2011						
4/19/2011						
4/20/2011						
4/21/2011						
4/26/2011						
4/27/2011						
4/28/2011						
10/4/2011						
10/5/2011	0.006706542..					
10/12/2011						
10/13/2011						
10/17/2011						
10/18/2011		0.006706542..				
10/19/2011						
4/3/2012						
4/4/2012						
4/11/2012	0.002776894..					
4/23/2012						
4/24/2012						
4/25/2012						
4/30/2012		0.002776894..				
5/1/2012						
5/2/2012						
10/2/2012	0.002706542..					
10/3/2012		0.002706542..				
10/8/2012						
10/9/2012						
10/10/2012						
4/2/2013						
4/3/2013						
4/8/2013		0.002776894..				
4/9/2013	0.002776894..					
4/10/2013						
4/11/2013						
4/12/2013						
4/15/2013						

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 6/25/2018 1:51 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50 (bg)	GWC-8RR	GWC-8Z	GWC-6RZ	GWC-7Z	GWA-4RZ (bg)
4/16/2013						
10/8/2013						
10/9/2013		0.002706542..				
10/15/2013	0.002706542..					
10/16/2013						
10/22/2013						
4/1/2014						
4/2/2014						
4/9/2014						
4/10/2014	0.002776894..	0.002776894..				
4/11/2014						
4/14/2014						
4/21/2014						
4/22/2014						
4/23/2014						
9/30/2014						
10/1/2014	0.002706542..					
10/2/2014		0.002706542..				
10/3/2014						
10/4/2014						
3/30/2015	0.002776894..					
3/31/2015						
4/1/2015						
4/2/2015						
4/3/2015		0.002776894..				
5/26/2015			0.002454409..	0.002454409..		
6/18/2015			0.002454409.. (D)	0.002454409.. (D)		
7/2/2015			0.002454409..	0.002454409..		
10/6/2015						
10/7/2015						
10/8/2015		0.002706542..	0.002706542..			
10/9/2015				0.002706542..		
10/10/2015						
10/11/2015	0.002706542..					
10/12/2015						
10/13/2015						
10/14/2015						
10/15/2015						
3/22/2016			0.005276894..			
3/23/2016						
3/28/2016	0.005276894..					
3/29/2016				0.005276894..		
3/30/2016		0.005276894..				
3/31/2016						
4/4/2016						
4/5/2016						
5/19/2016						
5/20/2016						
5/23/2016	0.004954409..					
5/24/2016		0.004954409..		0.004954409..		
5/25/2016			0.004954409..			
5/26/2016						

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 6/25/2018 1:51 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50 (bg)	GWC-8RR	GWC-8Z	GWC-6RZ	GWC-7Z	GWA-4RZ (bg)
5/27/2016						
5/31/2016					0.004954409..	
6/1/2016						
7/29/2016						
8/1/2016	0.005206542..			0.005206542..		
8/2/2016		0.005206542..	0.005206542..		0.005206542..	
8/3/2016						
8/4/2016						
8/5/2016						
8/9/2016						
9/22/2016						
9/23/2016						
9/26/2016	0.005206542..		0.005206542..	0.005206542..		
9/27/2016		0.005206542..			0.005206542..	
9/28/2016						
9/29/2016						
9/30/2016						
11/9/2016						
11/10/2016	0.003864638..					
11/11/2016						
11/14/2016				0.003864638..		
11/18/2016						
11/21/2016			0.003864638..		0.003864638..	
11/22/2016		0.003864638..				
11/23/2016						
11/28/2016						
1/30/2017	0.003864638..					
1/31/2017						
2/1/2017				0.005276894..	0.005276894..	
2/3/2017			0.005276894..			
2/6/2017		0.005276894..				
2/7/2017						
2/8/2017						
2/9/2017						
2/10/2017						
2/13/2017						
2/22/2017						0.005276894..
3/30/2017						
4/3/2017						
4/6/2017		0.005276894..		0.005276894..	0.005276894..	
4/7/2017	0.005276894..		0.005276894..			0.005276894..
4/10/2017						
4/11/2017						
4/12/2017						
6/9/2017						
6/12/2017	0.004954409..					
6/13/2017			0.004954409..	0.004954409..	0.004954409..	
6/14/2017		0.004954409..				0.004954409..
6/15/2017						
6/16/2017						
7/12/2017						0.004954409..
7/14/2017					0.004954409..	

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 6/25/2018 1:51 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50 (bg)	GWC-8RR	GWC-8Z	GWC-6RZ	GWC-7Z	GWA-4RZ (bg)
7/20/2017						0.004954409..
7/26/2017						
7/28/2017						0.004954409..
8/9/2017						0.005206542..
8/10/2017						
8/24/2017						0.005206542..
10/2/2017	0.005206542..					
10/3/2017			0.005206542..	0.005206542..	0.005206542..	0.005206542..
10/4/2017		0.005206542..				
10/5/2017						
10/6/2017						
10/9/2017						
3/16/2018	0.005276894..					
3/19/2018						
3/20/2018			0.005276894..	0.005276894..	0.005276894..	
3/21/2018		0.005276894..				0.005276894..
3/22/2018						
3/23/2018						

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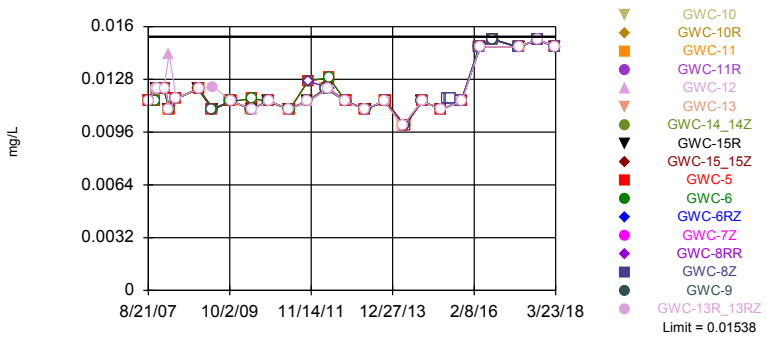
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 147 background values. 89.12% NDs. Report alpha = 0.1037. Individual comparison alpha = 0.006417. Most recent point for each compliance well compared to limit. Data were deseasonalized.

Constituent: Silver Analysis Run 6/25/2018 1:33 PM View: Cell1&2_metals_interwell
Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

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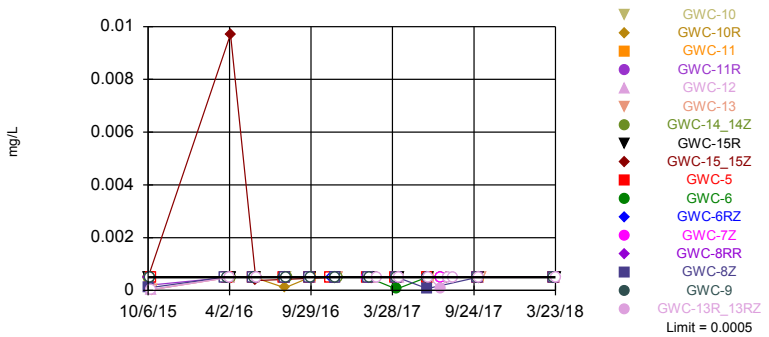
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 77 background values. 98.7% NDs. Report alpha = 0.1809. Individual comparison alpha = 0.01167. Most recent point for each compliance well compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Thallium Analysis Run 6/25/2018 1:33 PM View: Cell1&2_metals_interwell
Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

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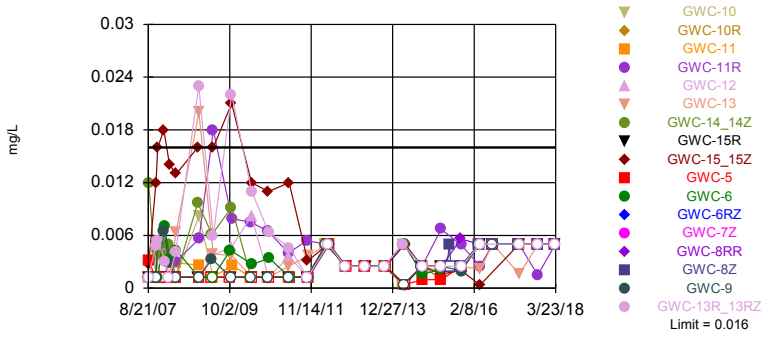
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 147 background values. 85.71% NDs. Report alpha = 0.1037. Individual comparison alpha = 0.006417. Most recent point for each compliance well compared to limit. Seasonality was not detected with 95% confidence.

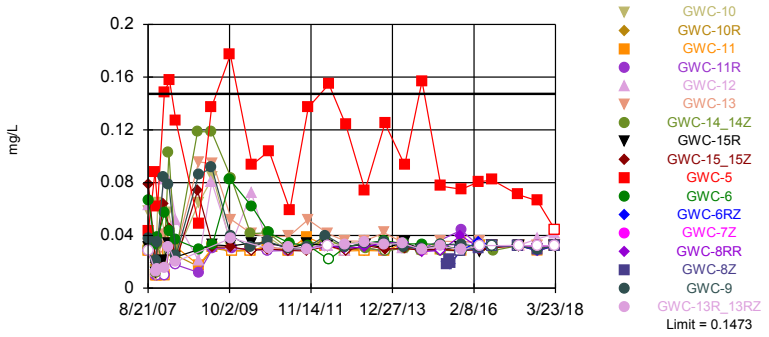
Constituent: Vanadium Analysis Run 6/25/2018 1:33 PM View: Cell1&2_metals_interwell
Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

Sanitas™ v.9.5.32 Sanitas software licensed to AMEC. EPA
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.05 alpha level. Limit is highest of 146 background values. 26.71% NDs. Report alpha = 0.1043. Individual comparison alpha = 0.006458. Most recent point for each compliance well compared to limit. Data were deseasonalized.

Constituent: Zinc Analysis Run 6/25/2018 1:34 PM View: Cell1&2_metals_interwell
Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

Prediction Limit

Constituent: Silver (mg/L) Analysis Run 6/25/2018 1:51 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-13	GWC-10	GWC-13R_13RZ	GWC-10R	GWC-11R	GWC-11	GWC-12	GWC-6	GWA-1 (bg)
8/21/2007	0.011467823..	0.011467823..	0.011467823..	0.011467823..	0.011467823..	0.011467823..	0.011467823..		
8/22/2007								0.011467823..	
8/23/2007									0.011467823..
8/24/2007									
10/23/2007									0.011467823..
10/24/2007									
10/25/2007								0.011467823..	
11/1/2007	0.012223488..	0.012223488..	0.012223488..	0.012223488..	0.012223488..	0.012223488..	0.012223488..		
11/2/2007									
11/17/2007									
11/18/2007					0.012223488..	0.012223488..			0.012223488..
11/19/2007	0.012223488..		0.012223488..				0.012223488..		
11/20/2007		0.012223488..		0.012223488..				0.012223488..	
1/15/2008									
1/16/2008							0.012223488..		
1/23/2008								0.012223488..	
1/30/2008		0.012223488..		0.012223488..	0.012223488..	0.012223488..			0.012223488..
1/31/2008	0.012223488..		0.012223488..						
3/5/2008	0.010999999..		0.010999999..			0.010999999..	0.01435		
3/6/2008		0.010999999..		0.010999999..	0.010999999..				
3/10/2008									0.010999999..
3/11/2008								0.010999999..	
5/6/2008									
5/7/2008			0.011633210..		0.011633210..	0.011633210..			
5/8/2008				0.011633210..					
5/12/2008	0.011633210..	0.011633210..							
5/13/2008							0.011633210..		0.011633210..
5/14/2008								0.011633210..	
12/2/2008									
12/4/2008									
12/5/2008									0.012223488..
12/11/2008								0.012223488..	
12/12/2008			0.012223488..						
12/13/2008	0.012223488..	0.012223488..					0.012223488..		
12/14/2008				0.012223488..	0.012223488..	0.012223488..			
4/15/2009									0.010999999..
4/16/2009							0.010999999..		
4/21/2009									
4/23/2009								0.010999999..	
4/28/2009	0.010999999..								
4/29/2009		0.010999999..	0.01235	0.010999999..	0.010999999..	0.010999999..			
10/6/2009									
10/7/2009									0.011467823..
10/8/2009									
10/9/2009								0.011467823..	
10/13/2009									
10/19/2009									
10/20/2009		0.011467823..							
10/21/2009	0.011467823..		0.011467823..	0.011467823..			0.011467823..		
10/22/2009					0.011467823..	0.011467823..			
4/20/2010									
4/21/2010				0.010999999..	0.010999999..	0.010999999..			

Prediction Limit

Constituent: Silver (mg/L) Analysis Run 6/25/2018 1:51 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-13	GWC-10	GWC-13R_13RZ	GWC-10R	GWC-11R	GWC-11	GWC-12	GWC-6	GWA-1 (bg)
4/26/2010		0.010999999..							
4/27/2010							0.010999999..		
4/28/2010	0.010999999..		0.010999999..						
5/3/2010									0.011633210..
5/4/2010								0.011633210..	
9/28/2010				0.011467823..		0.011467823..			
9/29/2010		0.011467823..			0.011467823..				
9/30/2010									
10/4/2010									
10/5/2010	0.011467823..						0.011467823..		
10/6/2010			0.011467823..						
10/11/2010								0.011467823..	
10/12/2010									0.011467823..
4/12/2011				0.010999999..		0.010999999..			
4/13/2011		0.010999999..			0.010999999..				
4/14/2011									
4/18/2011									
4/19/2011	0.010999999..						0.010999999..		
4/20/2011			0.010999999..						
4/21/2011									
4/26/2011								0.010999999..	
4/27/2011									0.010999999..
4/28/2011									
10/4/2011				0.011467823..	0.011467823..	0.011467823..			
10/5/2011		0.011467823..							
10/12/2011			0.011467823..				0.011467823..		
10/13/2011									
10/17/2011									0.012717823..
10/18/2011	0.012717823..							0.012717823..	
10/19/2011									
4/3/2012				0.012249999..		0.012249999..			
4/4/2012		0.012249999..			0.012249999..				
4/11/2012									
4/23/2012									
4/24/2012							0.012249999..		
4/25/2012	0.012249999..		0.012249999..						
4/30/2012									
5/1/2012									
5/2/2012								0.012883210..	0.012883210..
10/2/2012	0.011467823..		0.011467823..				0.011467823..		
10/3/2012		0.011467823..			0.011467823..	0.011467823..			
10/8/2012				0.011467823..				0.011467823..	0.011467823..
10/9/2012									
10/10/2012									
4/2/2013	0.010999999..		0.010999999..				0.010999999..		
4/3/2013		0.010999999..		0.010999999..	0.010999999..	0.010999999..			
4/8/2013									
4/9/2013									
4/10/2013								0.010999999..	
4/11/2013									
4/12/2013									0.010999999..
4/15/2013									

Prediction Limit

Constituent: Silver (mg/L) Analysis Run 6/25/2018 1:51 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-13	GWC-10	GWC-13R_13RZ	GWC-10R	GWC-11R	GWC-11	GWC-12	GWC-6	GWA-1 (bg)
4/16/2013									
10/8/2013	0.011467823..		0.011467823..					0.011467823..	
10/9/2013					0.011467823..	0.011467823..	0.011467823..		
10/15/2013		0.011467823..		0.011467823..					
10/16/2013									0.011467823..
10/22/2013									
4/1/2014	0.01		0.01				0.01		
4/2/2014					0.01	0.01			
4/9/2014		0.01		0.01					
4/10/2014									
4/11/2014									0.01
4/14/2014								0.01	
4/21/2014									
4/22/2014									
4/23/2014									
9/30/2014									0.012717823..
10/1/2014	0.011467823..		0.011467823..						
10/2/2014		0.011467823..		0.011467823..	0.011467823..	0.011467823..	0.011467823..		
10/3/2014								0.011467823..	
10/4/2014									
3/30/2015									0.010999999..
3/31/2015			0.010999999..						
4/1/2015	0.010999999..				0.010999999..	0.010999999..	0.010999999..	0.010999999..	
4/2/2015		0.010999999..		0.010999999..					
4/3/2015									
5/26/2015									
6/18/2015									
7/2/2015									
10/6/2015									
10/7/2015									
10/8/2015									
10/9/2015								0.011467823..	
10/10/2015		0.011467823..							
10/11/2015					0.011467823..	0.011467823..			
10/12/2015				0.011467823..					
10/13/2015									0.011467823..
10/14/2015			0.011467823..				0.011467823..		
10/15/2015	0.011467823..								
3/22/2016									0.014749999..
3/23/2016									
3/28/2016									
3/29/2016								0.014749999..	
3/30/2016									
3/31/2016		0.014749999..		0.014749999..					
4/4/2016	0.014749999..		0.014749999..		0.014749999..	0.014749999..	0.014749999..		
4/5/2016									
7/29/2016									0.015383210..
8/1/2016								0.015217823..	
8/2/2016									
8/3/2016				0.015217823..		0.015217823..	0.015217823..		
8/4/2016	0.015217823..				0.015217823..				
8/5/2016		0.015217823..							

Prediction Limit

Constituent: Silver (mg/L) Analysis Run 6/25/2018 1:51 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-13	GWC-10	GWC-13R_13RZ	GWC-10R	GWC-11R	GWC-11	GWC-12	GWC-6	GWA-1 (bg)
8/9/2016									
3/30/2017									0.014749999..
4/3/2017									
4/6/2017								0.014749999..	
4/7/2017									
4/10/2017		0.014749999..		0.014749999..	0.014749999..	0.014749999..			
4/11/2017			0.014749999..				0.014749999..		
4/12/2017	0.014749999..								
10/2/2017									0.015217823..
10/3/2017								0.015217823..	
10/4/2017		0.015217823..		0.015217823..	0.015217823..	0.015217823..	0.015217823..		
10/5/2017									
10/6/2017			0.015217823..						
10/9/2017	0.015217823..								
3/16/2018									0.014749999..
3/19/2018								0.014749999..	
3/20/2018		0.014749999..							
3/21/2018	0.014749999..			0.014749999..		0.014749999..			
3/22/2018					0.014749999..		0.014749999..		
3/23/2018			0.014749999..						

Prediction Limit

Constituent: Silver (mg/L) Analysis Run 6/25/2018 1:51 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-9	GWA-2 (bg)	GWA-2R (bg)	GWC-15R	GWC-5	GWA-3 (bg)	GWC-14_14Z	GWC-15_15Z	GWA-50R (bg)
8/21/2007									
8/22/2007									
8/23/2007	0.011467823..	0.011467823..	0.011467823..	0.011467823..	0.011467823..	0.011467823..			
8/24/2007							0.011467823..	0.011467823..	
10/23/2007									
10/24/2007		0.011467823..	0.011467823..						
10/25/2007					0.011467823..				
11/1/2007	0.012223488..								
11/2/2007				0.012223488..		0.012223488..	0.012223488..	0.012223488..	
11/17/2007				0.012223488..			0.012223488..		
11/18/2007		0.012223488..	0.012223488..			0.012223488..		0.012223488..	
11/19/2007	0.012223488..				0.012223488..				
11/20/2007									
1/15/2008	0.012223488..			0.012223488..			0.012223488..	0.012223488..	
1/16/2008									
1/23/2008					0.012223488..				
1/30/2008									
1/31/2008		0.012223488..	0.012223488..			0.012223488..			
3/5/2008							0.010999999..		
3/6/2008	0.010999999..			0.010999999..					
3/10/2008			0.010999999..					0.010999999..	
3/11/2008		0.010999999..			0.010999999..	0.010999999..			
5/6/2008		0.011633210..							
5/7/2008				0.011633210..			0.011633210..		
5/8/2008									
5/12/2008					0.011633210..				
5/13/2008	0.011633210..		0.011633210..					0.011633210..	
5/14/2008						0.011633210..			
12/2/2008				0.012223488..			0.012223488..	0.012223488..	
12/4/2008		0.012223488..	0.012223488..						
12/5/2008						0.012223488..			
12/11/2008					0.012223488..				
12/12/2008	0.012223488..								0.012223488..
12/13/2008									
12/14/2008									
4/15/2009					0.010999999..	0.010999999..			
4/16/2009	0.010999999..						0.010999999..		
4/21/2009		0.010999999..	0.010999999..						
4/23/2009									0.010999999..
4/28/2009				0.010999999..				0.010999999..	
4/29/2009									
10/6/2009									0.01502
10/7/2009		0.011467823..							
10/8/2009			0.011467823..			0.011467823..			
10/9/2009					0.011467823..				
10/13/2009	0.011467823..								
10/19/2009				0.011467823..					
10/20/2009							0.011467823..	0.011467823..	
10/21/2009									
10/22/2009									
4/20/2010							0.010999999..		
4/21/2010	0.010999999..		0.010999999..						

Prediction Limit

Constituent: Silver (mg/L) Analysis Run 6/25/2018 1:51 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-9	GWA-2 (bg)	GWA-2R (bg)	GWC-15R	GWC-5	GWA-3 (bg)	GWC-14_14Z	GWC-15_15Z	GWA-50R (bg)
4/26/2010		0.010999999..							
4/27/2010				0.010999999..				0.010999999..	
4/28/2010						0.010999999..			
5/3/2010									0.011633210..
5/4/2010					0.011633210..				
9/28/2010			0.011467823..						
9/29/2010	0.011467823..						0.011467823..		
9/30/2010									
10/4/2010		0.011467823..		0.011467823..					
10/5/2010								0.011467823..	
10/6/2010						0.011467823..			
10/11/2010									0.011467823..
10/12/2010					0.011467823..				
4/12/2011			0.010999999..				0.010999999..		
4/13/2011	0.010999999..	0.010999999..							
4/14/2011									
4/18/2011				0.010999999..					
4/19/2011								0.010999999..	
4/20/2011									
4/21/2011						0.010999999..			
4/26/2011									
4/27/2011									0.01375
4/28/2011					0.010999999..				
10/4/2011			0.011467823..				0.011467823..		
10/5/2011	0.011467823..	0.011467823..							
10/12/2011				0.011467823..				0.011467823..	
10/13/2011						0.011467823..			
10/17/2011									
10/18/2011									
10/19/2011					0.012717823..				0.012717823..
4/3/2012			0.012249999..						
4/4/2012	0.012249999..						0.012249999..		
4/11/2012		0.012249999..							
4/23/2012				0.012249999..					
4/24/2012									
4/25/2012								0.012249999..	
4/30/2012									
5/1/2012						0.012883210..			0.012883210..
5/2/2012					0.012883210..				
10/2/2012									0.011467823..
10/3/2012									
10/8/2012	0.011467823..								
10/9/2012		0.011467823..	0.011467823..		0.011467823..	0.011467823..			
10/10/2012				0.011467823..			0.011467823..	0.011467823..	
4/2/2013									
4/3/2013									
4/8/2013	0.010999999..								
4/9/2013									
4/10/2013									0.010999999..
4/11/2013			0.010999999..		0.010999999..	0.010999999..			
4/12/2013									
4/15/2013		0.010999999..		0.010999999..			0.010999999..		

Prediction Limit

Constituent: Silver (mg/L) Analysis Run 6/25/2018 1:51 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-9	GWA-2 (bg)	GWA-2R (bg)	GWC-15R	GWC-5	GWA-3 (bg)	GWC-14_14Z	GWC-15_15Z	GWA-50R (bg)
4/16/2013								0.010999999..	
10/8/2013									
10/9/2013	0.011467823..								
10/15/2013		0.011467823..							
10/16/2013			0.011467823..		0.011467823..	0.011467823..			0.01362
10/22/2013				0.011467823..			0.011467823..	0.011467823..	
4/1/2014									
4/2/2014									
4/9/2014	0.01								
4/10/2014			0.01						
4/11/2014									
4/14/2014									
4/21/2014				0.01			0.01	0.01	
4/22/2014		0.01							0.01315
4/23/2014					0.01	0.01			
9/30/2014	0.011467823..	0.011467823..	0.011467823..	0.011467823..			0.011467823..	0.011467823..	
10/1/2014									0.01142 (J)
10/2/2014									
10/3/2014					0.011467823..				
10/4/2014						0.011467823..			
3/30/2015		0.010999999..	0.010999999..						0.01275
3/31/2015					0.010999999..	0.010999999..			
4/1/2015									
4/2/2015	0.010999999..								
4/3/2015				0.010999999..			0.010999999..	0.010999999..	
5/26/2015									
6/18/2015									
7/2/2015									
10/6/2015								0.011467823..	
10/7/2015				0.011467823..			0.011467823..		
10/8/2015									
10/9/2015									
10/10/2015	0.011467823.. (D)								
10/11/2015									0.01202 (J)
10/12/2015					0.011467823..	0.011467823..			
10/13/2015		0.011467823..	0.011467823..						
10/14/2015									
10/15/2015									
3/22/2016									
3/23/2016		0.014749999..	0.014749999..			0.014749999..			
3/28/2016					0.014749999..				0.01195 (J)
3/29/2016									
3/30/2016	0.014749999..								
3/31/2016									
4/4/2016									
4/5/2016				0.014749999..			0.014749999..	0.014749999..	
7/29/2016		0.015383210..	0.015383210..			0.015383210..			
8/1/2016					0.015217823..				0.01182 (J)
8/2/2016									
8/3/2016									
8/4/2016				0.015217823..					
8/5/2016	0.015217823..								

Prediction Limit

Constituent: Silver (mg/L) Analysis Run 6/25/2018 1:51 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-9	GWA-2 (bg)	GWA-2R (bg)	GWC-15R	GWC-5	GWA-3 (bg)	GWC-14_14Z	GWC-15_15Z	GWA-50R (bg)
8/9/2016							0.015217823..		
3/30/2017		0.014749999..				0.014749999..			
4/3/2017			0.014749999..		0.014749999..				0.01195 (J)
4/6/2017	0.014749999..								
4/7/2017									
4/10/2017									
4/11/2017							0.014749999..	0.014749999..	
4/12/2017				0.014749999..					
10/2/2017		0.015217823..	0.015217823..						0.01232 (J)
10/3/2017	0.015217823..				0.015217823..				
10/4/2017						0.015217823..			
10/5/2017							0.015217823..		
10/6/2017				0.015217823..				0.015217823..	
10/9/2017									
3/16/2018			0.014749999..						0.01205 (J)
3/19/2018		0.014749999..			0.014749999..	0.014749999..			
3/20/2018	0.014749999..								
3/21/2018									
3/22/2018							0.014749999..		
3/23/2018				0.014749999..				0.014749999..	

Prediction Limit

Constituent: Silver (mg/L) Analysis Run 6/25/2018 1:51 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50 (bg)	GWC-8RR	GWC-8Z	GWC-6RZ	GWC-7Z	GWA-4RZ (bg)
8/21/2007						
8/22/2007						
8/23/2007						
8/24/2007						
10/23/2007						
10/24/2007						
10/25/2007						
11/1/2007						
11/2/2007						
11/17/2007						
11/18/2007						
11/19/2007						
11/20/2007						
1/15/2008						
1/16/2008						
1/23/2008						
1/30/2008						
1/31/2008						
3/5/2008						
3/6/2008						
3/10/2008						
3/11/2008						
5/6/2008						
5/7/2008						
5/8/2008						
5/12/2008						
5/13/2008						
5/14/2008						
12/2/2008						
12/4/2008						
12/5/2008						
12/11/2008						
12/12/2008	0.012223488..					
12/13/2008						
12/14/2008						
4/15/2009						
4/16/2009						
4/21/2009						
4/23/2009	0.010999999..					
4/28/2009						
4/29/2009						
10/6/2009	0.011467823..					
10/7/2009						
10/8/2009						
10/9/2009						
10/13/2009						
10/19/2009						
10/20/2009						
10/21/2009						
10/22/2009						
4/20/2010						
4/21/2010						

Prediction Limit

Constituent: Silver (mg/L) Analysis Run 6/25/2018 1:51 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50 (bg)	GWC-8RR	GWC-8Z	GWC-6RZ	GWC-7Z	GWA-4RZ (bg)
4/26/2010						
4/27/2010	0.010999999..					
4/28/2010						
5/3/2010						
5/4/2010						
9/28/2010						
9/29/2010						
9/30/2010	0.011467823..					
10/4/2010						
10/5/2010						
10/6/2010						
10/11/2010						
10/12/2010						
4/12/2011						
4/13/2011						
4/14/2011	0.010999999..					
4/18/2011						
4/19/2011						
4/20/2011						
4/21/2011						
4/26/2011						
4/27/2011						
4/28/2011						
10/4/2011						
10/5/2011	0.011467823..					
10/12/2011						
10/13/2011						
10/17/2011						
10/18/2011		0.012717823..				
10/19/2011						
4/3/2012						
4/4/2012						
4/11/2012	0.012249999..					
4/23/2012						
4/24/2012						
4/25/2012						
4/30/2012		0.012249999..				
5/1/2012						
5/2/2012						
10/2/2012	0.011467823..					
10/3/2012		0.011467823..				
10/8/2012						
10/9/2012						
10/10/2012						
4/2/2013						
4/3/2013						
4/8/2013		0.010999999..				
4/9/2013	0.010999999..					
4/10/2013						
4/11/2013						
4/12/2013						
4/15/2013						

Prediction Limit

Constituent: Silver (mg/L) Analysis Run 6/25/2018 1:51 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50 (bg)	GWC-8RR	GWC-8Z	GWC-6RZ	GWC-7Z	GWA-4RZ (bg)
4/16/2013						
10/8/2013						
10/9/2013		0.011467823..				
10/15/2013	0.011467823..					
10/16/2013						
10/22/2013						
4/1/2014						
4/2/2014						
4/9/2014						
4/10/2014	0.01225 (J)	0.01				
4/11/2014						
4/14/2014						
4/21/2014						
4/22/2014						
4/23/2014						
9/30/2014						
10/1/2014	0.011467823..					
10/2/2014		0.011467823..				
10/3/2014						
10/4/2014						
3/30/2015	0.010999999..					
3/31/2015						
4/1/2015						
4/2/2015						
4/3/2015		0.010999999..				
5/26/2015			0.011633210..	0.011633210..		
6/18/2015			0.011633210.. (D)	0.011633210.. (D)		
7/2/2015			0.011633210..	0.011633210..		
10/6/2015						
10/7/2015						
10/8/2015		0.011467823..	0.011467823..			
10/9/2015				0.011467823..		
10/10/2015						
10/11/2015	0.011467823..					
10/12/2015						
10/13/2015						
10/14/2015						
10/15/2015						
3/22/2016			0.014749999..			
3/23/2016						
3/28/2016	0.014749999..					
3/29/2016				0.014749999..		
3/30/2016		0.014749999..				
3/31/2016						
4/4/2016						
4/5/2016						
7/29/2016						
8/1/2016	0.01062 (J)			0.015217823..		
8/2/2016		0.015217823..	0.015217823..		0.015217823..	
8/3/2016						
8/4/2016						
8/5/2016						

Prediction Limit

Constituent: Silver (mg/L) Analysis Run 6/25/2018 1:51 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50 (bg)	GWC-8RR	GWC-8Z	GWC-6RZ	GWC-7Z	GWA-4RZ (bg)
8/9/2016						
3/30/2017						
4/3/2017						
4/6/2017		0.014749999..		0.014749999..	0.014749999..	
4/7/2017	0.01025 (J)		0.014749999..			0.014749999..
4/10/2017						
4/11/2017						
4/12/2017						
10/2/2017	0.01082 (J)					
10/3/2017			0.015217823..	0.015217823..	0.015217823..	0.015217823..
10/4/2017		0.015217823..				
10/5/2017						
10/6/2017						
10/9/2017						
3/16/2018	0.014749999..					
3/19/2018						
3/20/2018			0.014749999..	0.014749999..	0.014749999..	
3/21/2018		0.014749999..				0.014749999..
3/22/2018						
3/23/2018						

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 6/25/2018 1:52 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-2R (bg)	GWC-15_15Z	GWC-15R	GWC-14_14Z	GWC-8Z	GWC-8RR	GWC-6RZ	GWC-6	GWC-10
3/30/2015	7E-05								
10/6/2015		0.0005 (D)							
10/7/2015			<0.001 (D)	<0.001 (D)					
10/8/2015					0.0001 (D)	<0.001 (D)			
10/9/2015							<0.001	<0.001	
10/10/2015									<0.001
10/11/2015									
10/12/2015									
10/13/2015	<6E-05								
10/14/2015									
10/15/2015									
3/22/2016					<0.001				
3/23/2016	<0.001								
3/28/2016									
3/29/2016							<0.001	<0.001	
3/30/2016						<0.001			
3/31/2016									<0.001
4/4/2016									
4/5/2016		0.00971 (J)	<0.001	<0.001					
5/19/2016	<0.001								
5/20/2016									
5/23/2016									
5/24/2016						<0.001	<0.001	<0.001	
5/25/2016					<0.001				
5/26/2016									<0.001
5/27/2016									
5/31/2016		0.000373 (J)	<0.001						
6/1/2016				<0.001					
7/29/2016	<0.001								
8/1/2016							<0.001	<0.001	
8/2/2016					<0.001	<0.001			
8/3/2016									
8/4/2016			<0.001						
8/5/2016									<0.001
8/9/2016				<0.001					
9/22/2016	<0.001								
9/23/2016									
9/26/2016					<0.001		<0.001	<0.001	
9/27/2016						<0.001			
9/28/2016									<0.001
9/29/2016			<0.001						
9/30/2016									
11/9/2016									
11/10/2016	<0.001								
11/11/2016									
11/14/2016							<0.001		
11/18/2016								<0.001	
11/21/2016					<0.001				
11/22/2016						<0.001			<0.001
11/23/2016		<0.001	<0.001						
11/28/2016				<0.001					
1/30/2017									

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 6/25/2018 1:52 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-2R (bg)	GWC-15_15Z	GWC-15R	GWC-14_14Z	GWC-8Z	GWC-8RR	GWC-6RZ	GWC-6	GWC-10
1/31/2017	<0.001								
2/1/2017							<0.001	<0.001	
2/3/2017					<0.001				
2/6/2017						<0.001			
2/7/2017									<0.001
2/8/2017									
2/9/2017				<0.001					
2/10/2017		<0.001	<0.001						
2/13/2017									
2/22/2017									
3/30/2017									
4/3/2017	<0.001								
4/6/2017						<0.001	<0.001	5E-05 (J)	
4/7/2017					<0.001				
4/10/2017									<0.001
4/11/2017		<0.001		<0.001					
4/12/2017			<0.001						
6/9/2017	<0.001								
6/12/2017									
6/13/2017					7E-05 (J)		<0.001	<0.001	
6/14/2017				<0.001		<0.001			<0.001
6/15/2017		<0.001	<0.001						
6/16/2017									
7/12/2017		<0.001		<0.001					
7/14/2017									
7/20/2017									
7/26/2017		<0.001							
7/28/2017									
8/9/2017									
8/10/2017									
8/24/2017									
10/2/2017	<0.001								
10/3/2017					<0.001		<0.001	<0.001	
10/4/2017						<0.001			<0.001
10/5/2017				<0.001					
10/6/2017		<0.001	<0.001						
10/9/2017									
3/16/2018	<0.001								
3/19/2018								<0.001	
3/20/2018					<0.001		<0.001		<0.001
3/21/2018						<0.001			
3/22/2018				<0.001					
3/23/2018		<0.001	<0.001						

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 6/25/2018 1:52 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-9	GWC-11	GWA-50 (bg)	GWC-11R	GWA-50R (bg)	GWC-5	GWA-3 (bg)	GWC-10R	GWA-1 (bg)
3/30/2015									
10/6/2015									
10/7/2015									
10/8/2015									
10/9/2015									
10/10/2015	<0.001								
10/11/2015		<0.001	<0.001	0.0002	<0.001				
10/12/2015						<0.001	<0.001	<0.001	
10/13/2015									<6E-05
10/14/2015									
10/15/2015									
3/22/2016									<0.001
3/23/2016							<0.001		
3/28/2016			<0.001		<0.001	<0.001			
3/29/2016									
3/30/2016	<0.001								
3/31/2016								<0.001	
4/4/2016		<0.001		<0.001					
4/5/2016									
5/19/2016									<0.001
5/20/2016									
5/23/2016			<0.001				<0.001		
5/24/2016									
5/25/2016					<0.001	<0.001			
5/26/2016	<0.001	<0.001		<0.001				<0.001	
5/27/2016									
5/31/2016									
6/1/2016									
7/29/2016							<0.001		<0.001
8/1/2016			<0.001		<0.001	<0.001			
8/2/2016									
8/3/2016		<0.001						0.0001 (J)	
8/4/2016				<0.001					
8/5/2016	<0.001								
8/9/2016									
9/22/2016							<0.001		
9/23/2016									<0.001
9/26/2016			<0.001		<0.001				
9/27/2016						<0.001			
9/28/2016	<0.001	<0.001		<0.001				<0.001	
9/29/2016									
9/30/2016									
11/9/2016									<0.001
11/10/2016			<0.001				<0.001		
11/11/2016					<0.001	<0.001			
11/14/2016									
11/18/2016									
11/21/2016	<0.001								
11/22/2016		<0.001		<0.001				<0.001	
11/23/2016									
11/28/2016									
1/30/2017			<0.001		<0.001				<0.001

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 6/25/2018 1:52 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-9	GWC-11	GWA-50 (bg)	GWC-11R	GWA-50R (bg)	GWC-5	GWA-3 (bg)	GWC-10R	GWA-1 (bg)
1/31/2017						<0.001	<0.001		
2/1/2017									
2/3/2017									
2/6/2017	<0.001								
2/7/2017								<0.001	
2/8/2017		<0.001		<0.001					
2/9/2017									
2/10/2017									
2/13/2017									
2/22/2017									
3/30/2017							<0.001		<0.001
4/3/2017					<0.001	<0.001			
4/6/2017	<0.001								
4/7/2017			<0.001						
4/10/2017		<0.001		<0.001				<0.001	
4/11/2017									
4/12/2017									
6/9/2017									<0.001
6/12/2017			<0.001		<0.001	<0.001	<0.001		
6/13/2017	<0.001								
6/14/2017								<0.001	
6/15/2017		<0.001		<0.001					
6/16/2017									
7/12/2017									
7/14/2017									
7/20/2017									
7/26/2017									
7/28/2017									
8/9/2017									
8/10/2017									
8/24/2017									
10/2/2017			<0.001		<0.001				<0.001
10/3/2017	<0.001					<0.001			
10/4/2017		<0.001		<0.001			<0.001	<0.001	
10/5/2017									
10/6/2017									
10/9/2017									
3/16/2018			<0.001		<0.001				<0.001
3/19/2018						<0.001	<0.001		
3/20/2018	<0.001								
3/21/2018		<0.001						<0.001	
3/22/2018				<0.001					
3/23/2018									

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 6/25/2018 1:52 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-2 (bg)	GWC-12	GWC-13R_13RZ	GWC-13	GWC-7Z	GWA-4RZ (bg)
3/30/2015						
10/6/2015						
10/7/2015						
10/8/2015						
10/9/2015						
10/10/2015						
10/11/2015						
10/12/2015						
10/13/2015	<6E-05					
10/14/2015		<6E-05	<6E-05			
10/15/2015				<6E-05		
3/22/2016						
3/23/2016	<0.001					
3/28/2016						
3/29/2016						
3/30/2016						
3/31/2016						
4/4/2016		<0.001	<0.001	<0.001		
4/5/2016						
5/19/2016						
5/20/2016	<0.001					
5/23/2016						
5/24/2016						
5/25/2016						
5/26/2016						
5/27/2016		<0.001				
5/31/2016				<0.001	<0.001	
6/1/2016			<0.001			
7/29/2016	<0.001					
8/1/2016						
8/2/2016					<0.001	
8/3/2016		<0.001				
8/4/2016				<0.001		
8/5/2016						
8/9/2016						
9/22/2016						
9/23/2016	<0.001					
9/26/2016						
9/27/2016					<0.001	
9/28/2016						
9/29/2016				<0.001		
9/30/2016		<0.001				
11/9/2016	<0.001					
11/10/2016						
11/11/2016						
11/14/2016						
11/18/2016						
11/21/2016					<0.001	
11/22/2016		<0.001				
11/23/2016						
11/28/2016				<0.001		
1/30/2017						

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 6/25/2018 1:52 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-2 (bg)	GWC-12	GWC-13R_13RZ	GWC-13	GWC-7Z	GWA-4RZ (bg)
1/31/2017	<0.001					
2/1/2017					<0.001	
2/3/2017						
2/6/2017						
2/7/2017						
2/8/2017						
2/9/2017				<0.001		
2/10/2017						
2/13/2017		<0.001				
2/22/2017			<0.001			<0.001
3/30/2017	<0.001					
4/3/2017						
4/6/2017					<0.001	
4/7/2017						<0.001
4/10/2017						
4/11/2017		<0.001	<0.001			
4/12/2017				<0.001		
6/9/2017						
6/12/2017	<0.001					
6/13/2017					<0.001	
6/14/2017		<0.001				<0.001
6/15/2017						
6/16/2017			<0.001	<0.001		
7/12/2017			6E-05 (J)			<0.001
7/14/2017					<0.001	
7/20/2017						<0.001
7/26/2017						
7/28/2017			<0.001			<0.001
8/9/2017						<0.001
8/10/2017			<0.001			
8/24/2017						<0.001
10/2/2017	<0.001					
10/3/2017					<0.001	<0.001
10/4/2017		<0.001				
10/5/2017						
10/6/2017			<0.001			
10/9/2017				<0.001		
3/16/2018						
3/19/2018	<0.001					
3/20/2018					<0.001	
3/21/2018				<0.001		<0.001
3/22/2018		<0.001				
3/23/2018			<0.001			

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 6/25/2018 1:52 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-13	GWC-10	GWC-13R_13RZ	GWC-10R	GWC-11R	GWC-11	GWC-12	GWC-6	GWA-1 (bg)
8/21/2007	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025		
8/22/2007								<0.0025	
8/23/2007									<0.0025
8/24/2007									
10/23/2007									<0.0025
10/24/2007									
10/25/2007								<0.0025	
11/1/2007	<0.0025	<0.0025	0.0048	<0.0025	<0.0025	<0.0025	<0.0025		
11/2/2007									
11/17/2007									
11/18/2007					<0.0025	<0.0025			<0.0025
11/19/2007	0.0035		0.0054				<0.0025		
11/20/2007		0.0034		<0.0025				<0.0025	
1/15/2008									
1/16/2008							0.0071		
1/23/2008								0.007	
1/30/2008		0.005		<0.0025	<0.0025	<0.0025			<0.0025
1/31/2008	0.0039		0.003						
3/5/2008	<0.0025		<0.0025			<0.0025	0.0031		
3/6/2008		0.0032		<0.0025	0.0047				
3/10/2008									<0.0025
3/11/2008								0.0033	
5/6/2008									
5/7/2008			0.0041		0.003	0.0029			
5/8/2008				<0.0025					
5/12/2008	0.0064	<0.0025							
5/13/2008							<0.0025		<0.0025
5/14/2008								0.0043	
12/2/2008									
12/4/2008									
12/5/2008									<0.0025
12/11/2008								<0.0025	
12/12/2008			0.023						
12/13/2008	0.02	0.0082					<0.0025		
12/14/2008				<0.0025	0.0056	0.0026			
4/15/2009									<0.0025
4/16/2009							0.0037		
4/21/2009									
4/23/2009								<0.0025	
4/28/2009	0.0039								
4/29/2009		<0.0025	0.006	<0.0025	0.018	<0.0025			
10/6/2009									
10/7/2009									0.0099
10/8/2009									
10/9/2009								0.0043	
10/13/2009									
10/19/2009									
10/20/2009		<0.0025							
10/21/2009	0.0037		0.022	<0.0025			0.0047		
10/22/2009					0.0079	0.0026			
4/20/2010									
4/21/2010				<0.0025	0.0075	<0.0025			

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 6/25/2018 1:52 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-13	GWC-10	GWC-13R_13RZ	GWC-10R	GWC-11R	GWC-11	GWC-12	GWC-6	GWA-1 (bg)
4/26/2010		<0.0025							
4/27/2010							0.0082		
4/28/2010	<0.0025		0.011						
5/3/2010									<0.0025
5/4/2010								0.0027	
9/28/2010				<0.0025		<0.0025			
9/29/2010		<0.0025			0.0065				
9/30/2010									
10/4/2010									
10/5/2010	<0.0025						<0.0025		
10/6/2010			0.0064						
10/11/2010								0.0034	
10/12/2010									<0.0025
4/12/2011				<0.0025		<0.0025			
4/13/2011		<0.0025			0.004				
4/14/2011									
4/18/2011									
4/19/2011	0.0025						0.0036		
4/20/2011			0.0046						
4/21/2011									
4/26/2011								<0.0025	
4/27/2011									<0.0025
4/28/2011									
10/4/2011				<0.0025	0.0054	<0.0025			
10/5/2011		<0.0025							
10/12/2011			<0.0025				<0.0025		
10/13/2011									
10/17/2011									<0.0025
10/18/2011	0.0037							<0.0025	
10/19/2011									
4/3/2012				<0.01		<0.01			
4/4/2012		<0.01			<0.01				
4/11/2012									
4/23/2012									
4/24/2012							<0.01		
4/25/2012	<0.01		<0.01						
4/30/2012									
5/1/2012									
5/2/2012								<0.01	<0.01
10/2/2012	<0.005		<0.005				<0.005		
10/3/2012		<0.005			<0.005	<0.005			
10/8/2012				<0.005				<0.005	<0.005
10/9/2012									
10/10/2012									
4/2/2013	<0.005		<0.005				<0.005		
4/3/2013		<0.005		<0.005	<0.005	<0.005			
4/8/2013									
4/9/2013									
4/10/2013								<0.005	
4/11/2013									
4/12/2013									<0.005
4/15/2013									

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 6/25/2018 1:52 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-13	GWC-10	GWC-13R_13RZ	GWC-10R	GWC-11R	GWC-11	GWC-12	GWC-6	GWA-1 (bg)
4/16/2013									
10/8/2013	<0.005		<0.005					<0.005	
10/9/2013					<0.005	<0.005	<0.005		
10/15/2013		<0.005		<0.005					
10/16/2013									<0.005
10/22/2013									
4/1/2014	0.005 (J)		0.005 (J)				<0.000825		
4/2/2014					0.005 (J)	<0.000825			
4/9/2014		<0.000825		<0.000825					
4/10/2014									
4/11/2014									<0.000825
4/14/2014								0.005 (J)	
4/21/2014									
4/22/2014									
4/23/2014									
9/30/2014									<0.005
10/1/2014	<0.005		<0.005						
10/2/2014		<0.005		<0.005	<0.005	<0.005	<0.005		
10/3/2014								0.0016 (J)	
10/4/2014									
3/30/2015									0.0067
3/31/2015			<0.005						
4/1/2015	0.0019 (J)				0.0067	<0.005	<0.005	0.0021 (J)	
4/2/2015		<0.005		<0.005					
4/3/2015									
5/26/2015									
6/18/2015									
7/2/2015									
10/6/2015									
10/7/2015									
10/8/2015									
10/9/2015								<0.005	
10/10/2015		<0.005							
10/11/2015					0.0049 (J)	<0.005			
10/12/2015				<0.005					
10/13/2015									<0.005
10/14/2015			<0.005				0.0022 (J)		
10/15/2015	<0.005								
3/22/2016									0.00214 (J)
3/23/2016									
3/28/2016									
3/29/2016								<0.01	
3/30/2016									
3/31/2016		<0.01		<0.01					
4/4/2016	0.00211 (J)		<0.01		0.00251 (J)	<0.01	<0.01		
4/5/2016									
7/29/2016									<0.01
8/1/2016								<0.01	
8/2/2016									
8/3/2016				<0.01		<0.01	<0.01		
8/4/2016	<0.01				<0.01				
8/5/2016		<0.01							

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 6/25/2018 1:52 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-13	GWC-10	GWC-13R_13RZ	GWC-10R	GWC-11R	GWC-11	GWC-12	GWC-6	GWA-1 (bg)
8/9/2016									
3/30/2017									<0.01
4/3/2017									
4/6/2017								<0.01	
4/7/2017									
4/10/2017		<0.01		<0.01	<0.01	<0.01			
4/11/2017			<0.01				<0.01		
4/12/2017	0.0016 (J)								
10/2/2017									<0.01
10/3/2017								<0.01	
10/4/2017		<0.01		<0.01	0.0015 (J)	<0.01	<0.01		
10/5/2017									
10/6/2017			<0.01						
10/9/2017	<0.01								
3/16/2018									<0.01
3/19/2018								<0.01	
3/20/2018		<0.01							
3/21/2018	<0.01			<0.01		<0.01			
3/22/2018					<0.01		<0.01		
3/23/2018			<0.01						

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 6/25/2018 1:52 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-9	GWA-2 (bg)	GWA-2R (bg)	GWC-15R	GWC-5	GWA-3 (bg)	GWC-14_14Z	GWC-15_15Z	GWA-50R (bg)
8/21/2007									
8/22/2007									
8/23/2007	<0.0025	<0.0025	<0.0025	<0.0025	0.0032	<0.0025			
8/24/2007							0.012	0.0027	
10/23/2007									
10/24/2007		<0.0025	<0.0025						
10/25/2007					<0.0025				
11/1/2007	<0.0025								
11/2/2007				<0.0025		<0.0025	<0.0025	0.012	
11/17/2007				<0.0025			0.0043		
11/18/2007		0.0051	<0.0025			0.0046		0.016 (J)	
11/19/2007	0.0052				<0.0025				
11/20/2007									
1/15/2008	0.0065			<0.0025			0.0037	0.018	
1/16/2008									
1/23/2008					<0.0025				
1/30/2008									
1/31/2008		<0.0025	0.0078			<0.0025			
3/5/2008							0.0049		
3/6/2008	0.0028			<0.0025					
3/10/2008			<0.0025					0.014	
3/11/2008		0.0032			<0.0025	<0.0025			
5/6/2008		<0.0025							
5/7/2008				<0.0025			<0.0025		
5/8/2008									
5/12/2008					<0.0025				
5/13/2008	<0.0025		<0.0025					0.013	
5/14/2008						<0.0025			
12/2/2008				<0.0025			0.0097	0.016	
12/4/2008		0.016	<0.0025						
12/5/2008						<0.0025			
12/11/2008					<0.0025				
12/12/2008	<0.0025								<0.0025
12/13/2008									
12/14/2008									
4/15/2009					<0.0025	<0.0025			
4/16/2009	0.0033						0.0061		
4/21/2009		0.005	0.0036						
4/23/2009									0.0065
4/28/2009				<0.0025				0.016	
4/29/2009									
10/6/2009									0.0026
10/7/2009		<0.0025							
10/8/2009			<0.0025			<0.0025			
10/9/2009					<0.0025				
10/13/2009	<0.0025								
10/19/2009				<0.0025					
10/20/2009							0.0092	0.021	
10/21/2009									
10/22/2009									
4/20/2010							<0.0025		
4/21/2010	<0.0025		<0.0025						

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 6/25/2018 1:52 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-9	GWA-2 (bg)	GWA-2R (bg)	GWC-15R	GWC-5	GWA-3 (bg)	GWC-14_14Z	GWC-15_15Z	GWA-50R (bg)
4/26/2010		<0.0025							
4/27/2010				<0.0025				0.012	
4/28/2010						<0.0025			
5/3/2010									0.0028
5/4/2010					<0.0025				
9/28/2010			<0.0025						
9/29/2010	<0.0025						<0.0025		
9/30/2010									
10/4/2010		0.0025		<0.0025					
10/5/2010								0.011	
10/6/2010						<0.0025			
10/11/2010									0.0035
10/12/2010					<0.0025				
4/12/2011			<0.0025				<0.0025		
4/13/2011	<0.0025	<0.0025							
4/14/2011									
4/18/2011				<0.0025					
4/19/2011								0.012	
4/20/2011									
4/21/2011						<0.0025			
4/26/2011									
4/27/2011									0.0047
4/28/2011					<0.0025				
10/4/2011			<0.0025				<0.0025		
10/5/2011	<0.0025	<0.0025							
10/12/2011				<0.0025				0.0031	
10/13/2011						<0.0025			
10/17/2011									
10/18/2011									
10/19/2011					<0.0025				<0.0025
4/3/2012			<0.01						
4/4/2012	<0.01						<0.01		
4/11/2012		<0.01							
4/23/2012				<0.01					
4/24/2012									
4/25/2012								<0.01	
4/30/2012									
5/1/2012						<0.01			<0.01
5/2/2012					<0.01				
10/2/2012									<0.005
10/3/2012									
10/8/2012	<0.005								
10/9/2012		<0.005	<0.005		<0.005	<0.005			
10/10/2012				<0.005			<0.005	<0.005	
4/2/2013									
4/3/2013									
4/8/2013	<0.005								
4/9/2013									
4/10/2013									<0.005
4/11/2013			<0.005		<0.005	<0.005			
4/12/2013									
4/15/2013		<0.005		<0.005			<0.005		

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 6/25/2018 1:52 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-9	GWA-2 (bg)	GWA-2R (bg)	GWC-15R	GWC-5	GWA-3 (bg)	GWC-14_14Z	GWC-15_15Z	GWA-50R (bg)
4/16/2013								<0.005	
10/8/2013									
10/9/2013	<0.005								
10/15/2013		<0.005							
10/16/2013			<0.005		<0.005	<0.005			<0.005
10/22/2013				<0.005			<0.005	<0.005	
4/1/2014									
4/2/2014									
4/9/2014	<0.000825								
4/10/2014			0.005 (J)						
4/11/2014									
4/14/2014									
4/21/2014				<0.000825			0.005 (J)	0.005 (J)	
4/22/2014		<0.000825							0.005 (J)
4/23/2014					<0.000825	<0.000825			
9/30/2014	<0.005	<0.005	<0.005	<0.005			<0.005	<0.005	
10/1/2014									<0.005
10/2/2014									
10/3/2014					0.00097 (J)				
10/4/2014						<0.005			
3/30/2015		0.0016 (J)	<0.005						0.0032 (J)
3/31/2015					0.00096 (J)	0.0023 (J)			
4/1/2015									
4/2/2015	<0.005								
4/3/2015				<0.005			0.001 (J)	0.0016 (J)	
5/26/2015									
6/18/2015									
7/2/2015									
10/6/2015								0.002 (J)	
10/7/2015				<0.005			<0.005		
10/8/2015									
10/9/2015									
10/10/2015	0.00195 (D)								
10/11/2015									<0.005
10/12/2015					<0.005	<0.005			
10/13/2015		<0.005	<0.005						
10/14/2015									
10/15/2015									
3/22/2016									
3/23/2016		<0.01	<0.01			<0.01			
3/28/2016					<0.01				<0.01
3/29/2016									
3/30/2016	<0.01								
3/31/2016									
4/4/2016									
4/5/2016				<0.01			<0.01	0.00036 (J)	
7/29/2016		<0.01	<0.01			<0.01			
8/1/2016					<0.01				<0.01
8/2/2016									
8/3/2016									
8/4/2016				<0.01					
8/5/2016	<0.01								

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 6/25/2018 1:52 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-9	GWA-2 (bg)	GWA-2R (bg)	GWC-15R	GWC-5	GWA-3 (bg)	GWC-14_14Z	GWC-15_15Z	GWA-50R (bg)
8/9/2016							<0.01		
3/30/2017		<0.01				<0.01			
4/3/2017			<0.01		<0.01				<0.01
4/6/2017	<0.01								
4/7/2017									
4/10/2017									
4/11/2017							<0.01	<0.01	
4/12/2017				<0.01					
10/2/2017		<0.01	<0.01						<0.01
10/3/2017	<0.01				<0.01				
10/4/2017						<0.01			
10/5/2017							<0.01		
10/6/2017				<0.01				<0.01	
10/9/2017									
3/16/2018			<0.01						<0.01
3/19/2018		<0.01			<0.01	<0.01			
3/20/2018	<0.01								
3/21/2018									
3/22/2018							<0.01		
3/23/2018				<0.01				<0.01	

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 6/25/2018 1:52 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50 (bg)	GWC-8RR	GWC-8Z	GWC-6RZ	GWC-7Z	GWA-4RZ (bg)
8/21/2007						
8/22/2007						
8/23/2007						
8/24/2007						
10/23/2007						
10/24/2007						
10/25/2007						
11/1/2007						
11/2/2007						
11/17/2007						
11/18/2007						
11/19/2007						
11/20/2007						
1/15/2008						
1/16/2008						
1/23/2008						
1/30/2008						
1/31/2008						
3/5/2008						
3/6/2008						
3/10/2008						
3/11/2008						
5/6/2008						
5/7/2008						
5/8/2008						
5/12/2008						
5/13/2008						
5/14/2008						
12/2/2008						
12/4/2008						
12/5/2008						
12/11/2008						
12/12/2008	<0.0025					
12/13/2008						
12/14/2008						
4/15/2009						
4/16/2009						
4/21/2009						
4/23/2009	<0.0025					
4/28/2009						
4/29/2009						
10/6/2009	<0.0025					
10/7/2009						
10/8/2009						
10/9/2009						
10/13/2009						
10/19/2009						
10/20/2009						
10/21/2009						
10/22/2009						
4/20/2010						
4/21/2010						

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 6/25/2018 1:52 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50 (bg)	GWC-8RR	GWC-8Z	GWC-6RZ	GWC-7Z	GWA-4RZ (bg)
4/26/2010						
4/27/2010	<0.0025					
4/28/2010						
5/3/2010						
5/4/2010						
9/28/2010						
9/29/2010						
9/30/2010	<0.0025					
10/4/2010						
10/5/2010						
10/6/2010						
10/11/2010						
10/12/2010						
4/12/2011						
4/13/2011						
4/14/2011	<0.0025					
4/18/2011						
4/19/2011						
4/20/2011						
4/21/2011						
4/26/2011						
4/27/2011						
4/28/2011						
10/4/2011						
10/5/2011	<0.0025					
10/12/2011						
10/13/2011						
10/17/2011						
10/18/2011		<0.0025				
10/19/2011						
4/3/2012						
4/4/2012						
4/11/2012	<0.01					
4/23/2012						
4/24/2012						
4/25/2012						
4/30/2012		<0.01				
5/1/2012						
5/2/2012						
10/2/2012	<0.005					
10/3/2012		<0.005				
10/8/2012						
10/9/2012						
10/10/2012						
4/2/2013						
4/3/2013						
4/8/2013		<0.005				
4/9/2013	<0.005					
4/10/2013						
4/11/2013						
4/12/2013						
4/15/2013						

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 6/25/2018 1:52 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50 (bg)	GWC-8RR	GWC-8Z	GWC-6RZ	GWC-7Z	GWA-4RZ (bg)
4/16/2013						
10/8/2013						
10/9/2013		<0.005				
10/15/2013	<0.005					
10/16/2013						
10/22/2013						
4/1/2014						
4/2/2014						
4/9/2014						
4/10/2014	<0.000825	0.005 (J)				
4/11/2014						
4/14/2014						
4/21/2014						
4/22/2014						
4/23/2014						
9/30/2014						
10/1/2014	<0.005					
10/2/2014		<0.005				
10/3/2014						
10/4/2014						
3/30/2015	<0.005					
3/31/2015						
4/1/2015						
4/2/2015						
4/3/2015		<0.005				
5/26/2015			<0.005	<0.005		
6/18/2015			0.005 (D)	<0.005 (D)		
7/2/2015			<0.005	<0.005		
10/6/2015						
10/7/2015						
10/8/2015		0.0056	<0.005			
10/9/2015				<0.005		
10/10/2015						
10/11/2015	<0.005					
10/12/2015						
10/13/2015						
10/14/2015						
10/15/2015						
3/22/2016			<0.01			
3/23/2016						
3/28/2016	<0.01					
3/29/2016				<0.01		
3/30/2016		<0.01				
3/31/2016						
4/4/2016						
4/5/2016						
7/29/2016						
8/1/2016	<0.01			<0.01		
8/2/2016		<0.01	<0.01		<0.01	
8/3/2016						
8/4/2016						
8/5/2016						

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 6/25/2018 1:52 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50 (bg)	GWC-8RR	GWC-8Z	GWC-6RZ	GWC-7Z	GWA-4RZ (bg)
8/9/2016						
3/30/2017						
4/3/2017						
4/6/2017		<0.01		<0.01	<0.01	
4/7/2017	<0.01		<0.01			<0.01
4/10/2017						
4/11/2017						
4/12/2017						
10/2/2017	<0.01					
10/3/2017			<0.01	<0.01	<0.01	<0.01
10/4/2017		<0.01				
10/5/2017						
10/6/2017						
10/9/2017						
3/16/2018	<0.01					
3/19/2018						
3/20/2018			<0.01	<0.01	<0.01	
3/21/2018		<0.01				<0.01
3/22/2018						
3/23/2018						

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 6/25/2018 1:52 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-12	GWC-13	GWC-13R_13RZ	GWC-11R	GWC-10R	GWC-11	GWC-10	GWC-6	GWA-1 (bg)
8/21/2007	0.06296	0.03336	0.028211630..	0.028211630..	0.03356	0.028211630..	0.05796		
8/22/2007								0.06696	
8/23/2007									0.05896
8/24/2007									
10/23/2007									0.03686
10/24/2007									
10/25/2007								0.03316	
11/1/2007	0.01285	0.01	0.01255	0.01	0.01735	0.01	0.01285		
11/2/2007									
11/17/2007									
11/18/2007				0.01		0.01			0.01825 (J)
11/19/2007	0.02375	0.02375	0.01425						
11/20/2007					0.01375		0.06475	0.03875	
1/15/2008									
1/16/2008	0.08275								
1/23/2008								0.05675	
1/30/2008				0.01	0.01715	0.01	0.04075		0.03075
1/31/2008		0.04075	0.01505						
3/5/2008	0.08233	0.03343	0.03103			0.028577124..			
3/6/2008				0.03113	0.03463		0.05733		
3/10/2008									0.04133
3/11/2008								0.04333	
5/6/2008									
5/7/2008			0.01991	0.017856215..		0.03161			
5/8/2008					0.02501				
5/12/2008		0.02861					0.02461		
5/13/2008	0.05161								0.02411
5/14/2008								0.03661	
12/2/2008									
12/4/2008									
12/5/2008									0.01435 (J)
12/11/2008								0.02975 (J)	
12/12/2008			0.097 (O)						
12/13/2008	0.02075 (J)	0.09575					0.06475		
12/14/2008				0.01185 (J)	0.01625 (J)	0.01735 (J)			
4/15/2009									0.03063
4/16/2009	0.08033								
4/21/2009									
4/23/2009								0.03313 (J)	
4/28/2009		0.09433							
4/29/2009			0.068 (O)	0.03043	0.03013	0.03103	0.08433		
10/6/2009									
10/7/2009									0.08796
10/8/2009									
10/9/2009								0.08196	
10/13/2009									
10/19/2009									
10/20/2009							0.03066		
10/21/2009	0.03326	0.05196	0.03796		0.028211630..				
10/22/2009				0.02986		0.028211630..			
4/20/2010									
4/21/2010				0.03003	0.028577124..	0.028577124..			

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 6/25/2018 1:52 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-12	GWC-13	GWC-13R_13RZ	GWC-11R	GWC-10R	GWC-11	GWC-10	GWC-6	GWA-1 (bg)
4/26/2010							0.028577124..		
4/27/2010	0.07233								
4/28/2010		0.04133	0.048 (O)						
5/3/2010									0.01991
5/4/2010								0.06161	
9/28/2010					0.03196	0.03116			
9/29/2010				0.028211630..			0.03896		
9/30/2010									
10/4/2010									
10/5/2010	0.03166	0.03896							
10/6/2010			0.02996						
10/11/2010								0.04196	
10/12/2010									0.03106
4/12/2011					0.028577124..	0.028577124..			
4/13/2011				0.028577124..			0.028577124..		
4/14/2011									
4/18/2011									
4/19/2011	0.03413	0.03933							
4/20/2011			0.03113						
4/21/2011									
4/26/2011								0.03403	
4/27/2011									0.028577124..
4/28/2011									
10/4/2011				0.02996	0.03576	0.03896			
10/5/2011							0.03006		
10/12/2011	0.03176		0.02966						
10/13/2011									
10/17/2011									0.03156
10/18/2011		0.05196						0.03246	
10/19/2011									
4/3/2012					0.032327124..	0.032327124..			
4/4/2012				0.032327124..			0.032327124..		
4/11/2012									
4/23/2012									
4/24/2012	0.032327124..								
4/25/2012		0.04133	0.032327124..						
4/30/2012									
5/1/2012									
5/2/2012								0.021606215..	0.021606215..
10/2/2012	0.028211630..	0.03586	0.03286						
10/3/2012				0.02986		0.028211630..	0.03546		
10/8/2012					0.03036			0.03126	0.03226
10/9/2012									
10/10/2012									
4/2/2013	0.03543	0.03553	0.03533						
4/3/2013				0.03083	0.028577124..	0.028577124..	0.03343		
4/8/2013									
4/9/2013									
4/10/2013								0.03403	
4/11/2013									
4/12/2013									0.03333
4/15/2013									

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 6/25/2018 1:52 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-12	GWC-13	GWC-13R_13RZ	GWC-11R	GWC-10R	GWC-11	GWC-10	GWC-6	GWA-1 (bg)
4/16/2013									
10/8/2013		0.04196	0.03316					0.03606	
10/9/2013	0.03016			0.028211630..		0.028211630..			
10/15/2013					0.02966		0.03496		
10/16/2013									0.03176
10/22/2013									
4/1/2014	0.02983 (J)	0.03473	0.03403						
4/2/2014				0.03063		0.03363			
4/9/2014					0.02983 (J)		0.03213		
4/10/2014									
4/11/2014									0.03063
4/14/2014								0.03363	
4/21/2014									
4/22/2014									
4/23/2014									
9/30/2014									0.02896 (J)
10/1/2014		0.02773 (J)	0.02936 (J)						
10/2/2014	0.02926 (J)			0.02966	0.02966 (V)	0.02926 (J)	0.02926 (JV)		
10/3/2014								0.03346 (V)	
10/4/2014									
3/30/2015									0.03933
3/31/2015			0.03193						
4/1/2015	0.03083	0.03553		0.013 (O)		0.02903 (J)		0.03323	
4/2/2015					0.02933 (J)		0.02963 (J)		
4/3/2015									
5/26/2015									
6/18/2015									
7/2/2015									
10/6/2015									
10/7/2015									
10/8/2015									
10/9/2015								0.028211630..	
10/10/2015							0.02936 (J)		
10/11/2015				0.04396		0.02856 (J)			
10/12/2015					0.028211630..				
10/13/2015									0.03796
10/14/2015	0.03356		0.02896 (J)						
10/15/2015		0.03516							
3/22/2016									0.03079 (J)
3/23/2016									
3/28/2016									
3/29/2016								0.032327124..	
3/30/2016									
3/31/2016					0.02999 (J)		0.032327124..		
4/4/2016	0.03591 (J)	0.03551 (J)	0.032327124..	0.03152 (J)		0.032327124..			
4/5/2016									
7/29/2016									0.021606215.. (*)
8/1/2016								0.031961630..	
8/2/2016									
8/3/2016	0.032061630.. (*)				0.031961630.. (*)	0.031961630.. (*)			
8/4/2016		0.031961630.. (*)		0.031961630.. (*)					
8/5/2016							0.031961630.. (*)		

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 6/25/2018 1:52 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-12	GWC-13	GWC-13R_13RZ	GWC-11R	GWC-10R	GWC-11	GWC-10	GWC-6	GWA-1 (bg)
8/9/2016									
3/30/2017									0.032327124.. (*)
4/3/2017									
4/6/2017								0.032327124.. (*)	
4/7/2017									
4/10/2017				0.032327124..	0.032327124..	0.032327124..	0.032327124..		
4/11/2017	0.032527124.. (*)		0.032327124.. (*)						
4/12/2017		0.032327124.. (*)							
10/2/2017									0.031961630..
10/3/2017								0.031961630..	
10/4/2017	0.03736			0.02836 (J)	0.031961630..	0.02836 (J)	0.02816 (J)		
10/5/2017									
10/6/2017			0.031961630..						
10/9/2017		0.031961630..							
3/16/2018									0.032327124..
3/19/2018								0.032327124..	
3/20/2018							0.032327124..		
3/21/2018		0.032327124..			0.032327124..	0.032327124..			
3/22/2018	0.04133			0.032327124..					
3/23/2018			0.032327124..						

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 6/25/2018 1:52 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-2 (bg)	GWC-9	GWA-3 (bg)	GWC-15R	GWA-2R (bg)	GWC-5	GWC-14_14Z	GWC-15_15Z	GWA-50 (bg)
8/21/2007									
8/22/2007									
8/23/2007	0.03026	0.03796	0.09296	0.03076	0.03486	0.04296			
8/24/2007							0.03056 (J)	0.07896	
10/23/2007									
10/24/2007	0.06996				0.028211630..				
10/25/2007						0.08796			
11/1/2007		0.02075							
11/2/2007			0.06375	0.01125			0.01135 (J)	0.01875 (J)	
11/17/2007				0.023 (O)			0.03275		
11/18/2007	0.03275		0.1388		0.02375			0.03375 (J)	
11/19/2007		0.03475 (J)				0.06175			
11/20/2007									
1/15/2008		0.08375		0.02075			0.01615	0.06375	
1/16/2008									
1/23/2008						0.1488			
1/30/2008									
1/31/2008	0.02375		0.1388		0.063 (O)				
3/5/2008							0.1023		
3/6/2008		0.07833		0.03423					
3/10/2008					0.04033 (J)			0.04533	
3/11/2008	0.05433		0.09733			0.1573			
5/6/2008	0.01981								
5/7/2008				0.02361			0.02541		
5/8/2008									
5/12/2008						0.1266			
5/13/2008		0.02501			0.02381			0.02101	
5/14/2008			0.1366						
12/2/2008				0.021 (O)			0.1188	0.07375	
12/4/2008	0.08975				0.01975 (J)				
12/5/2008			0.09675						
12/11/2008						0.04875 (J)			
12/12/2008		0.08575							0.05675 (J)
12/13/2008									
12/14/2008									
4/15/2009			0.09533			0.1373			
4/16/2009		0.09133					0.1183		
4/21/2009	0.03303				0.03143				
4/23/2009									0.03483
4/28/2009				0.03283				0.03103 (J)	
4/29/2009									
10/6/2009									0.03446
10/7/2009	0.028211630..								
10/8/2009			0.102		0.028211630..				
10/9/2009						0.177			
10/13/2009		0.03996							
10/19/2009				0.03206					
10/20/2009							0.08296	0.03126	
10/21/2009									
10/22/2009									
4/20/2010							0.04133		
4/21/2010		0.03083			0.028577124..				

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 6/25/2018 1:52 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-2 (bg)	GWC-9	GWA-3 (bg)	GWC-15R	GWA-2R (bg)	GWC-5	GWC-14_14Z	GWC-15_15Z	GWA-50 (bg)
4/26/2010	0.028577124..								
4/27/2010				0.03413				0.028577124..	0.03243
4/28/2010			0.09833						
5/3/2010									
5/4/2010						0.09361			
9/28/2010					0.03506				
9/29/2010		0.03546					0.04196		
9/30/2010									0.03586
10/4/2010	0.03266			0.03436					
10/5/2010								0.02976	
10/6/2010			0.101						
10/11/2010									
10/12/2010						0.104			
4/12/2011					0.02983		0.03013		
4/13/2011	0.028577124..	0.03013							
4/14/2011									0.03163
4/18/2011				0.03043					
4/19/2011								0.028577124..	
4/20/2011									
4/21/2011			0.07433						
4/26/2011									
4/27/2011									
4/28/2011						0.05933			
10/4/2011					0.02966		0.02946		
10/5/2011	0.028211630..	0.03076							0.03206
10/12/2011				0.03366				0.028211630..	
10/13/2011			0.09996						
10/17/2011									
10/18/2011									
10/19/2011						0.137			
4/3/2012					0.032327124..				
4/4/2012		0.03993					0.03783		
4/11/2012	0.032327124..								0.032327124..
4/23/2012				0.032327124..					
4/24/2012									
4/25/2012								0.032327124..	
4/30/2012									
5/1/2012			0.08181						
5/2/2012						0.1546			
10/2/2012									0.03296
10/3/2012									
10/8/2012		0.03126							
10/9/2012	0.028211630..		0.08796		0.03336	0.124			
10/10/2012				0.03156			0.03026	0.028211630..	
4/2/2013									
4/3/2013									
4/8/2013		0.03413							
4/9/2013									0.03073
4/10/2013									
4/11/2013			0.08033		0.028577124..	0.07433			
4/12/2013									
4/15/2013	0.03113			0.03333			0.03043		

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 6/25/2018 1:52 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-2 (bg)	GWC-9	GWA-3 (bg)	GWC-15R	GWA-2R (bg)	GWC-5	GWC-14_14Z	GWC-15_15Z	GWA-50 (bg)
4/16/2013								0.03233	
10/8/2013									
10/9/2013		0.03516							
10/15/2013	0.03136								0.03116
10/16/2013			0.07396		0.028211630..	0.125			
10/22/2013				0.03066			0.028211630..	0.02976	
4/1/2014									
4/2/2014									
4/9/2014		0.03163							
4/10/2014					0.02993				0.03083
4/11/2014									
4/14/2014									
4/21/2014				0.03463			0.03053	0.03013	
4/22/2014	0.02983 (J)								
4/23/2014			0.06833			0.09333			
9/30/2014	0.02772 (J)	0.02986		0.02966	0.02816 (J)		0.02846 (J)	0.02876 (J)	
10/1/2014									0.02886 (J)
10/2/2014									
10/3/2014						0.157 (V)			
10/4/2014			0.07096 (V)						
3/30/2015	0.02973 (J)				0.04033				0.03053
3/31/2015			0.1473			0.07733			
4/1/2015									
4/2/2015		0.03293							
4/3/2015				0.02903 (J)			0.02883 (J)	0.02943 (J)	
5/26/2015									
6/18/2015									
7/2/2015									
10/6/2015								0.028211630..	
10/7/2015				0.03116			0.028211630..		
10/8/2015									
10/9/2015									
10/10/2015		0.03346 (D)							
10/11/2015									0.03176
10/12/2015			0.07996			0.07496			
10/13/2015	0.02866 (J)				0.03126				
10/14/2015									
10/15/2015									
3/22/2016									
3/23/2016	0.032327124..		0.08053		0.032327124..				
3/28/2016						0.08073			0.03015 (J)
3/29/2016									
3/30/2016		0.03121 (J)							
3/31/2016									
4/4/2016									
4/5/2016				0.02752 (J)			0.032327124..	0.02966 (J)	
7/29/2016	0.021606215.. (*)		0.06121		0.021606215.. (*)				
8/1/2016						0.08196			0.031961630.. (*)
8/2/2016									
8/3/2016									
8/4/2016				0.031961630.. (*)					
8/5/2016		0.031961630.. (*)							

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 6/25/2018 1:52 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-2 (bg)	GWC-9	GWA-3 (bg)	GWC-15R	GWA-2R (bg)	GWC-5	GWC-14_14Z	GWC-15_15Z	GWA-50 (bg)
8/9/2016							0.02856 (J)		
3/30/2017	0.032327124.. (*)		0.07523						
4/3/2017					0.032327124.. (*)	0.07093			
4/6/2017		0.032327124.. (*)							
4/7/2017									0.032327124.. (*)
4/10/2017									
4/11/2017							0.032327124.. (*)	0.032327124.. (*)	
4/12/2017				0.032327124.. (*)					
10/2/2017	0.031961630..				0.031961630..				0.02846 (J)
10/3/2017		0.02926 (J)				0.06626			
10/4/2017			0.06986						
10/5/2017							0.02936 (J)		
10/6/2017				0.02936 (J)				0.031961630..	
10/9/2017									
3/16/2018					0.032327124..				0.032327124..
3/19/2018	0.032327124..		0.047327124..			0.044327125..			
3/20/2018		0.032327124..							
3/21/2018									
3/22/2018							0.032327124..		
3/23/2018				0.032327124..				0.032327124..	

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 6/25/2018 1:52 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50R (bg)	GWC-8RR	GWC-6RZ	GWC-8Z	GWC-7Z	GWA-4RZ (bg)
8/21/2007						
8/22/2007						
8/23/2007						
8/24/2007						
10/23/2007						
10/24/2007						
10/25/2007						
11/1/2007						
11/2/2007						
11/17/2007						
11/18/2007						
11/19/2007						
11/20/2007						
1/15/2008						
1/16/2008						
1/23/2008						
1/30/2008						
1/31/2008						
3/5/2008						
3/6/2008						
3/10/2008						
3/11/2008						
5/6/2008						
5/7/2008						
5/8/2008						
5/12/2008						
5/13/2008						
5/14/2008						
12/2/2008						
12/4/2008						
12/5/2008						
12/11/2008						
12/12/2008	0.02175 (J)					
12/13/2008						
12/14/2008						
4/15/2009						
4/16/2009						
4/21/2009						
4/23/2009	0.1023					
4/28/2009						
4/29/2009						
10/6/2009	0.08296					
10/7/2009						
10/8/2009						
10/9/2009						
10/13/2009						
10/19/2009						
10/20/2009						
10/21/2009						
10/22/2009						
4/20/2010						
4/21/2010						

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 6/25/2018 1:52 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50R (bg)	GWC-8RR	GWC-6RZ	GWC-8Z	GWC-7Z	GWA-4RZ (bg)
4/26/2010						
4/27/2010						
4/28/2010						
5/3/2010	0.06761					
5/4/2010						
9/28/2010						
9/29/2010						
9/30/2010						
10/4/2010						
10/5/2010						
10/6/2010						
10/11/2010	0.04296					
10/12/2010						
4/12/2011						
4/13/2011						
4/14/2011						
4/18/2011						
4/19/2011						
4/20/2011						
4/21/2011						
4/26/2011						
4/27/2011	0.05233					
4/28/2011						
10/4/2011						
10/5/2011						
10/12/2011						
10/13/2011						
10/17/2011						
10/18/2011		0.03016				
10/19/2011	0.03476					
4/3/2012						
4/4/2012						
4/11/2012						
4/23/2012						
4/24/2012						
4/25/2012						
4/30/2012		0.032327124..				
5/1/2012	0.03001					
5/2/2012						
10/2/2012	0.03896					
10/3/2012		0.03036				
10/8/2012						
10/9/2012						
10/10/2012						
4/2/2013						
4/3/2013						
4/8/2013		0.03123				
4/9/2013						
4/10/2013	0.04533					
4/11/2013						
4/12/2013						
4/15/2013						

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 6/25/2018 1:52 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50R (bg)	GWC-8RR	GWC-6RZ	GWC-8Z	GWC-7Z	GWA-4RZ (bg)
4/16/2013						
10/8/2013						
10/9/2013		0.03476				
10/15/2013						
10/16/2013	0.04196					
10/22/2013						
4/1/2014						
4/2/2014						
4/9/2014						
4/10/2014		0.03373				
4/11/2014						
4/14/2014						
4/21/2014						
4/22/2014	0.04233					
4/23/2014						
9/30/2014						
10/1/2014	0.03076					
10/2/2014		0.02786 (JV)				
10/3/2014						
10/4/2014						
3/30/2015	0.03703					
3/31/2015						
4/1/2015						
4/2/2015						
4/3/2015		0.028577124..				
5/26/2015			0.02011	0.01831 (J)		
6/18/2015			0.01911 (D)	0.02181 (D)		
7/2/2015			0.01841 (J)	0.01931		
10/6/2015						
10/7/2015						
10/8/2015		0.03996		0.028211630..		
10/9/2015			0.02886 (J)			
10/10/2015						
10/11/2015	0.02936 (J)					
10/12/2015						
10/13/2015						
10/14/2015						
10/15/2015						
3/22/2016				0.03035 (J)		
3/23/2016						
3/28/2016	0.03436 (J)					
3/29/2016			0.03519 (J)			
3/30/2016		0.03041 (J)				
3/31/2016						
4/4/2016						
4/5/2016						
7/29/2016						
8/1/2016	0.031961630.. (*)		0.031961630..			
8/2/2016		0.031961630.. (*)		0.031961630.. (*)	0.031961630.. (*)	
8/3/2016						
8/4/2016						
8/5/2016						

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 6/25/2018 1:52 PM View: Cell1&2_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50R (bg)	GWC-8RR	GWC-6RZ	GWC-8Z	GWC-7Z	GWA-4RZ (bg)
8/9/2016						
3/30/2017						
4/3/2017	0.032327124.. (*)					
4/6/2017		0.032327124.. (*)	0.032327124.. (*)		0.032327124.. (*)	
4/7/2017				0.032327124.. (*)		0.032327124.. (*)
4/10/2017						
4/11/2017						
4/12/2017						
10/2/2017	0.02856 (J)					
10/3/2017			0.02836 (J)	0.02916 (J)	0.031961630..	0.031961630..
10/4/2017		0.031961630..				
10/5/2017						
10/6/2017						
10/9/2017						
3/16/2018	0.032327124..					
3/19/2018						
3/20/2018			0.032327124..	0.032327124..	0.032327124..	
3/21/2018		0.032327124..				0.032327124..
3/22/2018						
3/23/2018						

Interwell Prediction Limit

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR Printed 7/16/2018, 9:48 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Chloride (mg/L)	**GWC-13**	**2.825**	**n/a**	**3/21/2018**	**4.6**	**Yes**	**70**	**1.429**	**x^(1/3)**	**0.000...**	Param 1 of 2
Chloride (mg/L)	**GWC-14_14Z**	**2.825**	**n/a**	**3/22/2018**	**3.4**	**Yes**	**70**	**1.429**	**x^(1/3)**	**0.000...**	Param 1 of 2
Chloride (mg/L)	**GWC-13R_13RZ**	**2.825**	**n/a**	**3/23/2018**	**8.3**	**Yes**	**70**	**1.429**	**x^(1/3)**	**0.000...**	Param 1 of 2
pH (pH units)	**GWC-11R**	**7.65**	**5.23**	**3/22/2018**	**7.72**	**Yes**	**71**	**0**	**n/a**	**0.000...**	NP (normality) 1 of 2
pH (pH units)	**GWC-15_15Z**	**7.65**	**5.23**	**3/23/2018**	**7.89**	**Yes**	**71**	**0**	**n/a**	**0.000...**	NP (normality) 1 of 2
pH (pH units)	**GWC-8RR**	**7.65**	**5.23**	**3/21/2018**	**7.9**	**Yes**	**71**	**0**	**n/a**	**0.000...**	NP (normality) 1 of 2
pH (pH units)	**GWC-9**	**7.65**	**5.23**	**3/20/2018**	**4.88**	**Yes**	**71**	**0**	**n/a**	**0.000...**	NP (normality) 1 of 2

Interwell Prediction Limit

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR Printed 7/16/2018, 9:48 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Boron (mg/L)	GWC-10	0.05	n/a	3/20/2018	0.004	No	70	78.57	n/a	0.000...	NP (NDs) 1 of 2
Boron (mg/L)	GWC-10R	0.05	n/a	3/21/2018	0.02ND	No	70	78.57	n/a	0.000...	NP (NDs) 1 of 2
Boron (mg/L)	GWC-11	0.05	n/a	3/21/2018	0.02ND	No	70	78.57	n/a	0.000...	NP (NDs) 1 of 2
Boron (mg/L)	GWC-11R	0.05	n/a	3/22/2018	0.02ND	No	70	78.57	n/a	0.000...	NP (NDs) 1 of 2
Boron (mg/L)	GWC-12	0.05	n/a	3/22/2018	0.02ND	No	70	78.57	n/a	0.000...	NP (NDs) 1 of 2
Boron (mg/L)	GWC-13	0.05	n/a	3/21/2018	0.021	No	70	78.57	n/a	0.000...	NP (NDs) 1 of 2
Boron (mg/L)	GWC-14_14Z	0.05	n/a	3/22/2018	0.02ND	No	70	78.57	n/a	0.000...	NP (NDs) 1 of 2
Boron (mg/L)	GWC-15R	0.05	n/a	3/23/2018	0.0053	No	70	78.57	n/a	0.000...	NP (NDs) 1 of 2
Boron (mg/L)	GWC-15_15Z	0.05	n/a	3/23/2018	0.0092	No	70	78.57	n/a	0.000...	NP (NDs) 1 of 2
Boron (mg/L)	GWC-5	0.05	n/a	3/19/2018	0.0041	No	70	78.57	n/a	0.000...	NP (NDs) 1 of 2
Boron (mg/L)	GWC-6	0.05	n/a	3/19/2018	0.02ND	No	70	78.57	n/a	0.000...	NP (NDs) 1 of 2
Boron (mg/L)	GWC-6RZ	0.05	n/a	3/20/2018	0.0073	No	70	78.57	n/a	0.000...	NP (NDs) 1 of 2
Boron (mg/L)	GWC-7Z	0.05	n/a	3/20/2018	0.0064	No	70	78.57	n/a	0.000...	NP (NDs) 1 of 2
Boron (mg/L)	GWC-8RR	0.05	n/a	3/21/2018	0.02ND	No	70	78.57	n/a	0.000...	NP (NDs) 1 of 2
Boron (mg/L)	GWC-8Z	0.05	n/a	3/20/2018	0.02ND	No	70	78.57	n/a	0.000...	NP (NDs) 1 of 2
Boron (mg/L)	GWC-9	0.05	n/a	3/20/2018	0.0096	No	70	78.57	n/a	0.000...	NP (NDs) 1 of 2
Boron (mg/L)	GWC-13R_13RZ	0.05	n/a	3/23/2018	0.017	No	70	78.57	n/a	0.000...	NP (NDs) 1 of 2
Chloride (mg/L)	GWC-10	2.825	n/a	3/20/2018	2.2	No	70	1.429	x^(1/3)	0.000...	Param 1 of 2
Chloride (mg/L)	GWC-10R	2.825	n/a	3/21/2018	2.5	No	70	1.429	x^(1/3)	0.000...	Param 1 of 2
Chloride (mg/L)	GWC-11	2.825	n/a	3/21/2018	1.6	No	70	1.429	x^(1/3)	0.000...	Param 1 of 2
Chloride (mg/L)	GWC-11R	2.825	n/a	3/22/2018	2	No	70	1.429	x^(1/3)	0.000...	Param 1 of 2
Chloride (mg/L)	GWC-12	2.825	n/a	3/22/2018	0.65ND	No	70	1.429	x^(1/3)	0.000...	Param 1 of 2
Chloride (mg/L)	**GWC-13**	**2.825**	**n/a**	**3/21/2018**	**4.6**	**Yes**	**70**	**1.429**	**x^(1/3)**	**0.000...**	Param 1 of 2
Chloride (mg/L)	**GWC-14_14Z**	**2.825**	**n/a**	**3/22/2018**	**3.4**	**Yes**	**70**	**1.429**	**x^(1/3)**	**0.000...**	Param 1 of 2
Chloride (mg/L)	GWC-15R	2.825	n/a	3/23/2018	1.5	No	70	1.429	x^(1/3)	0.000...	Param 1 of 2
Chloride (mg/L)	GWC-15_15Z	2.825	n/a	3/23/2018	0.125ND	No	70	1.429	x^(1/3)	0.000...	Param 1 of 2
Chloride (mg/L)	GWC-5	2.825	n/a	3/19/2018	0.82	No	70	1.429	x^(1/3)	0.000...	Param 1 of 2
Chloride (mg/L)	GWC-6	2.825	n/a	3/19/2018	1.2	No	70	1.429	x^(1/3)	0.000...	Param 1 of 2
Chloride (mg/L)	GWC-6RZ	2.825	n/a	3/20/2018	1.7	No	70	1.429	x^(1/3)	0.000...	Param 1 of 2
Chloride (mg/L)	GWC-7Z	2.825	n/a	3/20/2018	1.5	No	70	1.429	x^(1/3)	0.000...	Param 1 of 2
Chloride (mg/L)	GWC-8RR	2.825	n/a	3/21/2018	1.3	No	70	1.429	x^(1/3)	0.000...	Param 1 of 2
Chloride (mg/L)	GWC-8Z	2.825	n/a	3/20/2018	1.8	No	70	1.429	x^(1/3)	0.000...	Param 1 of 2
Chloride (mg/L)	GWC-9	2.825	n/a	3/20/2018	2.4	No	70	1.429	x^(1/3)	0.000...	Param 1 of 2
Chloride (mg/L)	**GWC-13R_13RZ**	**2.825**	**n/a**	**3/23/2018**	**8.3**	**Yes**	**70**	**1.429**	**x^(1/3)**	**0.000...**	Param 1 of 2
Fluoride (mg/L)	GWC-10	1.1	n/a	3/20/2018	0.15ND	No	70	42.86	n/a	0.000...	NP (normality) 1 of 2
Fluoride (mg/L)	GWC-10R	1.1	n/a	3/21/2018	0.15ND	No	70	42.86	n/a	0.000...	NP (normality) 1 of 2
Fluoride (mg/L)	GWC-11	1.1	n/a	3/21/2018	0.15ND	No	70	42.86	n/a	0.000...	NP (normality) 1 of 2
Fluoride (mg/L)	GWC-11R	1.1	n/a	3/22/2018	0.15ND	No	70	42.86	n/a	0.000...	NP (normality) 1 of 2
Fluoride (mg/L)	GWC-12	1.1	n/a	3/22/2018	0.15ND	No	70	42.86	n/a	0.000...	NP (normality) 1 of 2
Fluoride (mg/L)	GWC-13	1.1	n/a	3/21/2018	0.15ND	No	70	42.86	n/a	0.000...	NP (normality) 1 of 2
Fluoride (mg/L)	GWC-14_14Z	1.1	n/a	3/22/2018	0.15ND	No	70	42.86	n/a	0.000...	NP (normality) 1 of 2
Fluoride (mg/L)	GWC-15R	1.1	n/a	3/23/2018	0.15ND	No	70	42.86	n/a	0.000...	NP (normality) 1 of 2
Fluoride (mg/L)	GWC-15_15Z	1.1	n/a	3/23/2018	0.15ND	No	70	42.86	n/a	0.000...	NP (normality) 1 of 2
Fluoride (mg/L)	GWC-5	1.1	n/a	3/19/2018	0.15ND	No	70	42.86	n/a	0.000...	NP (normality) 1 of 2
Fluoride (mg/L)	GWC-6	1.1	n/a	3/19/2018	0.15ND	No	70	42.86	n/a	0.000...	NP (normality) 1 of 2
Fluoride (mg/L)	GWC-6RZ	1.1	n/a	3/20/2018	0.15ND	No	70	42.86	n/a	0.000...	NP (normality) 1 of 2
Fluoride (mg/L)	GWC-7Z	1.1	n/a	3/20/2018	0.15ND	No	70	42.86	n/a	0.000...	NP (normality) 1 of 2
Fluoride (mg/L)	GWC-8RR	1.1	n/a	3/21/2018	0.15ND	No	70	42.86	n/a	0.000...	NP (normality) 1 of 2
Fluoride (mg/L)	GWC-8Z	1.1	n/a	3/20/2018	0.15ND	No	70	42.86	n/a	0.000...	NP (normality) 1 of 2
Fluoride (mg/L)	GWC-9	1.1	n/a	3/20/2018	0.15ND	No	70	42.86	n/a	0.000...	NP (normality) 1 of 2

Interwell Prediction Limit

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR Printed 7/16/2018, 9:48 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Fluoride (mg/L)	GWC-13R_13RZ	1.1	n/a	3/23/2018	0.24	No	70	42.86	n/a	0.000...	NP (normality) 1 of 2
pH (pH units)	GWC-10	7.65	5.23	3/20/2018	6.23	No	71	0	n/a	0.000...	NP (normality) 1 of 2
pH (pH units)	GWC-10R	7.65	5.23	3/21/2018	7.33	No	71	0	n/a	0.000...	NP (normality) 1 of 2
pH (pH units)	GWC-11	7.65	5.23	3/21/2018	7.07	No	71	0	n/a	0.000...	NP (normality) 1 of 2
pH (pH units)	**GWC-11R**	**7.65**	**5.23**	**3/22/2018**	**7.72**	**Yes**	**71**	**0**	**n/a**	**0.000...**	NP (normality) 1 of 2
pH (pH units)	GWC-12	7.65	5.23	3/22/2018	6.45	No	71	0	n/a	0.000...	NP (normality) 1 of 2
pH (pH units)	GWC-13	7.65	5.23	3/21/2018	7.33	No	71	0	n/a	0.000...	NP (normality) 1 of 2
pH (pH units)	GWC-14_14Z	7.65	5.23	3/22/2018	6.93	No	71	0	n/a	0.000...	NP (normality) 1 of 2
pH (pH units)	GWC-15R	7.65	5.23	3/23/2018	7.34	No	71	0	n/a	0.000...	NP (normality) 1 of 2
pH (pH units)	**GWC-15_15Z**	**7.65**	**5.23**	**3/23/2018**	**7.89**	**Yes**	**71**	**0**	**n/a**	**0.000...**	NP (normality) 1 of 2
pH (pH units)	GWC-5	7.65	5.23	3/19/2018	6.06	No	71	0	n/a	0.000...	NP (normality) 1 of 2
pH (pH units)	GWC-6	7.65	5.23	3/19/2018	7.32	No	71	0	n/a	0.000...	NP (normality) 1 of 2
pH (pH units)	GWC-6RZ	7.65	5.23	3/20/2018	6.9	No	71	0	n/a	0.000...	NP (normality) 1 of 2
pH (pH units)	GWC-7Z	7.65	5.23	3/20/2018	6.76	No	71	0	n/a	0.000...	NP (normality) 1 of 2
pH (pH units)	**GWC-8RR**	**7.65**	**5.23**	**3/21/2018**	**7.9**	**Yes**	**71**	**0**	**n/a**	**0.000...**	NP (normality) 1 of 2
pH (pH units)	GWC-8Z	7.65	5.23	3/20/2018	7.27	No	71	0	n/a	0.000...	NP (normality) 1 of 2
pH (pH units)	**GWC-9**	**7.65**	**5.23**	**3/20/2018**	**4.88**	**Yes**	**71**	**0**	**n/a**	**0.000...**	NP (normality) 1 of 2
pH (pH units)	GWC-13R_13RZ	7.65	5.23	3/23/2018	7.58	No	71	0	n/a	0.000...	NP (normality) 1 of 2

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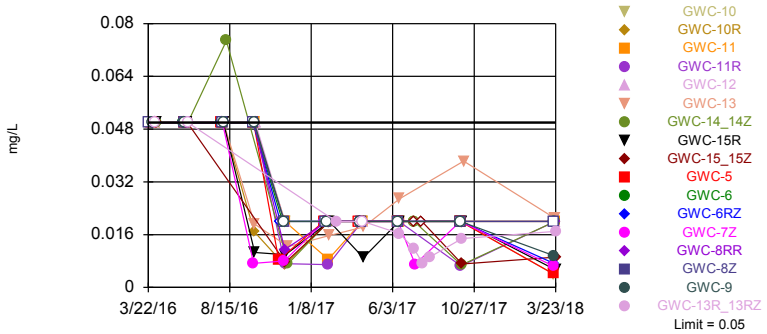
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 70 background values. 78.57% NDs. Annual per-constituent alpha = 0.01284. Individual comparison alpha = 0.0003799 (1 of 2). Comparing 17 points to limit. Seasonality was not detected with 95% confidence.

Constituent: Boron Analysis Run 7/16/2018 9:43 AM View: Cells1&2_AppIII_Interwell
Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

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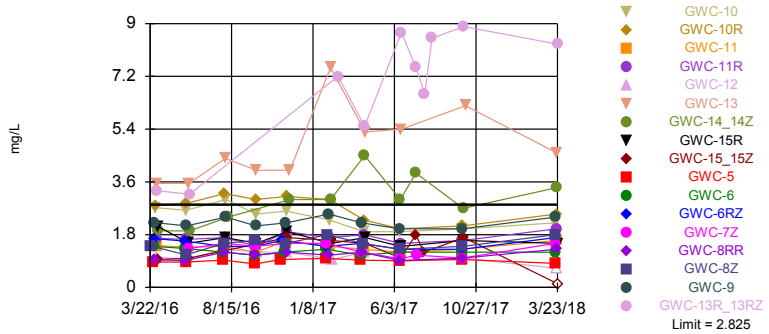
Hollow symbols indicate censored values.

Exceeds Limit: GWC-13, GWC-14_14Z, GWC-13R 13RZ

Prediction Limit

Interwell Parametric



Background Data Summary (based on cube root transformation): Mean=1.133, Std. Dev.=0.1414, n=70, 1.429% NDs. Seasonality was not detected with 95% confidence. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9582, critical = 0.952. Kappa = 1.986 (c=4, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.01308. Individual comparison alpha = 0.0007744. Comparing 17 points to limit.

Constituent: Chloride Analysis Run 7/16/2018 9:44 AM View: Cells1&2_AppIII_Interwell
Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

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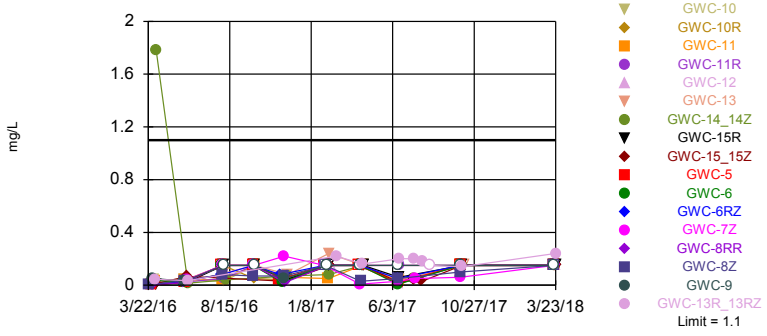
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 70 background values. 42.86% NDs. Annual per-constituent alpha = 0.01284. Individual comparison alpha = 0.0003799 (1 of 2). Comparing 17 points to limit. Seasonality was not detected with 95% confidence.

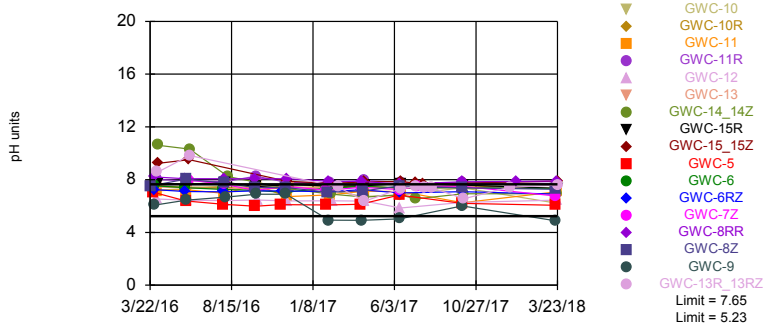
Constituent: Fluoride Analysis Run 7/16/2018 9:44 AM View: Cells1&2_AppIII_Interwell
Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

Sanitas™ v.9.5.32 Sanitas software licensed to AMEC. UG

Exceeds Limits: GWC-11R, GWC-15_15Z, GWC-8RR, GWC-9

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. Limits are highest and lowest of 71 background values. Annual per-constituent alpha = 0.0251. Individual comparison alpha = 0.0007426 (1 of 2). Comparing 17 points to limit. Seasonality was not detected with 95% confidence.

Constituent: pH Analysis Run 7/16/2018 9:45 AM View: Cells1&2_AppIII_Interwell
Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 7/16/2018 9:48 AM View: Cells1&2_AppIII_Interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-8Z	GWA-1 (bg)	GWA-2 (bg)	GWA-3 (bg)	GWA-2R (bg)	GWA-50R (bg)	GWA-50 (bg)	GWC-5	GWC-6RZ
3/22/2016	<0.1	<0.1							
3/23/2016			<0.1	<0.1	<0.1				
3/28/2016						<0.1	<0.1	<0.1	
3/29/2016									<0.1
3/30/2016									
3/31/2016									
4/4/2016									
4/5/2016									
5/19/2016		<0.1			<0.1				
5/20/2016			<0.1						
5/23/2016				<0.1			<0.1		
5/24/2016									<0.1
5/25/2016	<0.1					<0.1		<0.1	
5/26/2016									
5/27/2016									
5/31/2016									
6/1/2016									
7/29/2016		<0.1 (*)	<0.1 (*)	<0.1 (*)	<0.1 (*)				
8/1/2016						<0.1 (*)	<0.1 (*)	<0.1 (*)	<0.1
8/2/2016	<0.1 (*)								
8/3/2016									
8/4/2016									
8/5/2016									
8/9/2016									
9/22/2016				<0.1	<0.1				
9/23/2016		<0.1 (*)	<0.1 (*)						
9/26/2016	<0.1					<0.1	<0.1		<0.1
9/27/2016								<0.1	
9/28/2016									
9/29/2016									
9/30/2016									
11/9/2016		<0.04 (*)	<0.04 (*)						
11/10/2016				<0.04	<0.04		<0.04 (*)		
11/11/2016						0.0193 (J)		0.0083 (J)	
11/14/2016									<0.04
11/18/2016									
11/21/2016	<0.04								
11/22/2016									
11/23/2016									
11/28/2016									
1/30/2017		<0.04				<0.04	<0.04		
1/31/2017			<0.04	<0.04	<0.04			<0.04	
2/1/2017									<0.04
2/3/2017	<0.04								
2/6/2017									
2/7/2017									
2/8/2017									
2/9/2017									
2/10/2017									
2/13/2017									
2/22/2017									
3/30/2017		0.0065 (J)	<0.04	<0.04					

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 7/16/2018 9:48 AM View: Cells1&2_AppIII_Interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-8Z	GWA-1 (bg)	GWA-2 (bg)	GWA-3 (bg)	GWA-2R (bg)	GWA-50R (bg)	GWA-50 (bg)	GWC-5	GWC-6RZ
4/3/2017					<0.04	<0.04		<0.04	
4/6/2017									<0.04
4/7/2017	<0.04						0.008 (J)		
4/10/2017									
4/11/2017									
4/12/2017									
6/9/2017		<0.04			<0.04				
6/12/2017			<0.04	<0.04		<0.04	<0.04	<0.04	
6/13/2017	<0.04								<0.04
6/14/2017									
6/15/2017									
6/16/2017									
7/12/2017									
7/14/2017									
7/20/2017									
7/26/2017									
7/28/2017									
8/9/2017									
8/10/2017									
8/24/2017									
10/2/2017		<0.04	<0.04		<0.04	<0.04	<0.04		
10/3/2017	<0.04							<0.04	<0.04
10/4/2017				<0.04					
10/5/2017									
10/6/2017									
10/9/2017									
3/16/2018		<0.04			0.0077 (J)	<0.04	<0.04		
3/19/2018			0.013 (J)	0.0057 (J)				0.0041 (J)	
3/20/2018	<0.04								0.0073 (J)
3/21/2018									
3/22/2018									
3/23/2018									

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 7/16/2018 9:48 AM View: Cells1&2_AppIII_Interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-6	GWC-8RR	GWC-9	GWC-10R	GWC-10	GWC-11R	GWC-12	GWC-13R_13RZ	GWC-13
3/22/2016									
3/23/2016									
3/28/2016									
3/29/2016	<0.1								
3/30/2016		<0.1	<0.1						
3/31/2016				<0.1	<0.1				
4/4/2016						<0.1	<0.1	<0.1	<0.1
4/5/2016									
5/19/2016									
5/20/2016									
5/23/2016									
5/24/2016	<0.1	<0.1							
5/25/2016									
5/26/2016			<0.1	<0.1	<0.1	<0.1			
5/27/2016							<0.1		
5/31/2016									<0.1
6/1/2016								<0.1	
7/29/2016									
8/1/2016	<0.1								
8/2/2016		<0.1 (*)							
8/3/2016				<0.1 (*)			<0.1		
8/4/2016						<0.1 (*)			<0.1 (*)
8/5/2016			<0.1		<0.1				
8/9/2016									
9/22/2016									
9/23/2016									
9/26/2016	<0.1								
9/27/2016		<0.1							
9/28/2016			<0.1	0.0169 (J)	<0.1	<0.1			
9/29/2016									0.0192 (J)
9/30/2016							<0.1		
11/9/2016									
11/10/2016									
11/11/2016									
11/14/2016									
11/18/2016	<0.04								
11/21/2016			<0.04						
11/22/2016		0.0115 (J)		0.0067 (J)	<0.04	0.0072 (J)	<0.04		
11/23/2016									
11/28/2016									0.0124 (J)
1/30/2017									
1/31/2017									
2/1/2017	<0.04								
2/3/2017									
2/6/2017		<0.04	<0.04						
2/7/2017				<0.04	<0.04				
2/8/2017						0.0069 (J)			
2/9/2017									0.0157 (J)
2/10/2017									
2/13/2017							<0.04		
2/22/2017								0.02 (J)	
3/30/2017									

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 7/16/2018 9:48 AM View: Cells1&2_AppIII_Interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-6	GWC-8RR	GWC-9	GWC-10R	GWC-10	GWC-11R	GWC-12	GWC-13R_13RZ	GWC-13
4/3/2017									
4/6/2017	<0.04	<0.04	<0.04						
4/7/2017									
4/10/2017				<0.04	<0.04	<0.04			
4/11/2017							<0.04	<0.04	
4/12/2017									0.0183 (J)
6/9/2017									
6/12/2017									
6/13/2017	<0.04		<0.04						
6/14/2017		<0.04		<0.04	<0.04		<0.04		
6/15/2017						<0.04			
6/16/2017								0.0163 (J)	0.0269 (J)
7/12/2017								0.0117 (J)	
7/14/2017									
7/20/2017									
7/26/2017									
7/28/2017								0.0071 (J)	
8/9/2017									
8/10/2017								0.0093 (J)	
8/24/2017									
10/2/2017									
10/3/2017	<0.04		<0.04						
10/4/2017		<0.04		<0.04	<0.04	0.0065 (J)	<0.04		
10/5/2017									
10/6/2017								0.0148 (J)	
10/9/2017									0.0383 (J)
3/16/2018									
3/19/2018	<0.04								
3/20/2018			0.0096 (J)		0.004 (J)				
3/21/2018		<0.04		<0.04					0.021 (J)
3/22/2018						<0.04	<0.04		
3/23/2018								0.017 (J)	

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 7/16/2018 9:48 AM View: Cells1&2_AppIII_Interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-11	GWC-15R	GWC-14_14Z	GWC-15_15Z	GWC-7Z	GWA-4RZ (bg)
3/22/2016						
3/23/2016						
3/28/2016						
3/29/2016						
3/30/2016						
3/31/2016						
4/4/2016	<0.1					
4/5/2016		<0.1	<0.1	<0.1		
5/19/2016						
5/20/2016						
5/23/2016						
5/24/2016						
5/25/2016						
5/26/2016	<0.1					
5/27/2016						
5/31/2016		<0.1		<0.1	<0.1	
6/1/2016			<0.1			
7/29/2016						
8/1/2016						
8/2/2016					<0.1 (*)	
8/3/2016	<0.1 (*)					
8/4/2016		<0.1				
8/5/2016						
8/9/2016			0.0748 (D)			
9/22/2016						
9/23/2016						
9/26/2016						
9/27/2016					0.0073 (J)	
9/28/2016	<0.1					
9/29/2016		0.0106 (J)				
9/30/2016						
11/9/2016						
11/10/2016						
11/11/2016						
11/14/2016						
11/18/2016						
11/21/2016					0.008 (J)	
11/22/2016	<0.04					
11/23/2016		0.0099 (J)		0.0076 (J)		
11/28/2016			0.0072 (J)			
1/30/2017						
1/31/2017						
2/1/2017					<0.04	
2/3/2017						
2/6/2017						
2/7/2017						
2/8/2017	0.0085 (J)					
2/9/2017			<0.04			
2/10/2017		<0.04		<0.04		
2/13/2017						
2/22/2017						0.022 (J)
3/30/2017						

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 7/16/2018 9:48 AM View: Cells1&2_AppIII_Interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-11	GWC-15R	GWC-14_14Z	GWC-15_15Z	GWC-7Z	GWA-4RZ (bg)
4/3/2017						
4/6/2017					<0.04	
4/7/2017						0.0082 (J)
4/10/2017	<0.04					
4/11/2017			<0.04	<0.04		
4/12/2017		0.009 (J)				
6/9/2017						
6/12/2017						
6/13/2017					<0.04	
6/14/2017			<0.04			0.008 (J)
6/15/2017	<0.04	<0.04		<0.04		
6/16/2017						
7/12/2017			<0.04	<0.04		0.0082 (J)
7/14/2017					0.007 (J)	
7/20/2017						0.0091 (J)
7/26/2017				<0.04		
7/28/2017						<0.04
8/9/2017						0.0071 (J)
8/10/2017						
8/24/2017						0.0062 (J)
10/2/2017						
10/3/2017					<0.04	0.006 (J)
10/4/2017	<0.04					
10/5/2017			0.0068 (J)			
10/6/2017		<0.04		0.0071 (J)		
10/9/2017						
3/16/2018						
3/19/2018						
3/20/2018					0.0064 (J)	
3/21/2018	<0.04					0.0062 (J)
3/22/2018			<0.04			
3/23/2018		0.0053 (J)		0.0092 (J)		

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 7/16/2018 9:49 AM View: Cells1&2_AppIII_Interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-1 (bg)	GWA-2 (bg)	GWA-2R (bg)	GWA-3 (bg)	GWA-50 (bg)	GWA-50R (bg)	GWC-10	GWC-10R	GWC-11
3/22/2016	1.5101								
3/23/2016		2.4904	0.9079	1.6092					
3/28/2016					1.14	0.9204			
3/29/2016									
3/30/2016									
3/31/2016							2.72	2.79	
4/4/2016									1.42
4/5/2016									
5/19/2016	1.5		0.9136						
5/20/2016		1.71							
5/23/2016				1.52	1.19				
5/24/2016									
5/25/2016						1.04			
5/26/2016							2.63	2.87	1.37
5/27/2016									
5/31/2016									
6/1/2016									
7/29/2016	1.7	2	1.1	1.5					
8/1/2016					1.2	0.85			
8/2/2016									
8/3/2016								3.2	1.4
8/4/2016									
8/5/2016							3		
8/9/2016									
9/22/2016			1	1.4					
9/23/2016	1.8	1.8							
9/26/2016					1.1	0.87			
9/27/2016									
9/28/2016							2.5	3	1.2
9/29/2016									
9/30/2016									
11/9/2016	2	1.6							
11/10/2016			1.2	1.6	1.3				
11/11/2016						0.99			
11/14/2016									
11/18/2016									
11/21/2016									
11/22/2016							2.6	3.1	1.6
11/23/2016									
11/28/2016									
1/30/2017	1.5				1.2	0.95			
1/31/2017		1.3	1.2	1.6					
2/1/2017									
2/3/2017									
2/6/2017									
2/7/2017							2.3	3	
2/8/2017									1.4
2/9/2017									
2/10/2017									
2/13/2017									
2/22/2017									
3/30/2017	1.8	1.6		1.4					

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 7/16/2018 9:49 AM View: Cells1&2_AppIII_Interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-1 (bg)	GWA-2 (bg)	GWA-2R (bg)	GWA-3 (bg)	GWA-50 (bg)	GWA-50R (bg)	GWC-10	GWC-10R	GWC-11
4/3/2017			0.99			0.88			
4/6/2017									
4/7/2017					1.2				
4/10/2017							1.9	2.3	1.3
4/11/2017									
4/12/2017									
6/9/2017	1.6		0.87						
6/12/2017		1.6		1.4	1.1	0.83			
6/13/2017									
6/14/2017							1.9	2	
6/15/2017									1.2
6/16/2017									
7/12/2017									
7/14/2017									
7/20/2017									
7/26/2017									
7/28/2017									
8/9/2017									
8/10/2017									
8/24/2017									
10/2/2017	1.6	0.94	1		1.2	0.94			
10/3/2017									
10/4/2017				1.5			2	2.1	1.3
10/5/2017									
10/6/2017									
10/9/2017									
3/16/2018	1.7		1.6		1.4	<1.1			
3/19/2018		1.9		1.5					
3/20/2018							2.2		
3/21/2018								2.5	1.6
3/22/2018									
3/23/2018									

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 7/16/2018 9:49 AM View: Cells1&2_AppIII_Interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-11R	GWC-12	GWC-13	GWC-14_14Z	GWC-15R	GWC-15_15Z	GWC-5	GWC-6	GWC-6RZ
3/22/2016									
3/23/2016									
3/28/2016							0.8659		
3/29/2016								1.3977	1.6645
3/30/2016									
3/31/2016									
4/4/2016	1.67	1.03	3.55						
4/5/2016				1.93	2.08	0.9439			
5/19/2016									
5/20/2016									
5/23/2016									
5/24/2016								1.33	1.58
5/25/2016							0.8639		
5/26/2016	1.64								
5/27/2016		0.9684							
5/31/2016			3.55		1.51	1			
6/1/2016				1.93					
7/29/2016									
8/1/2016							0.93	1.2	1.4
8/2/2016									
8/3/2016		1.3							
8/4/2016	1.7		4.4		1.7				
8/5/2016									
8/9/2016				2.4					
9/22/2016									
9/23/2016									
9/26/2016								1.1	1.4
9/27/2016							0.8		
9/28/2016	1.4								
9/29/2016			4		1.5				
9/30/2016		1.2							
11/9/2016									
11/10/2016									
11/11/2016							0.95		
11/14/2016									1.6
11/18/2016								1.2	
11/21/2016									
11/22/2016	1.9	1.2							
11/23/2016					1.9	1.7			
11/28/2016			4	3					
1/30/2017									
1/31/2017							0.99		
2/1/2017								1.3	1.4
2/3/2017									
2/6/2017									
2/7/2017									
2/8/2017	1.7								
2/9/2017			7.5	3					
2/10/2017					1.5	1.6			
2/13/2017		0.96							
2/22/2017									
3/30/2017									

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 7/16/2018 9:49 AM View: Cells1&2_AppIII_Interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-11R	GWC-12	GWC-13	GWC-14_14Z	GWC-15R	GWC-15_15Z	GWC-5	GWC-6	GWC-6RZ
4/3/2017							0.93		
4/6/2017								1.1	1.5
4/7/2017									
4/10/2017	1.8								
4/11/2017		1.2		4.5		1.5			
4/12/2017			5.3		1.7				
6/9/2017									
6/12/2017							0.91		
6/13/2017								1.2	1.3
6/14/2017		0.89		3					
6/15/2017	1.5				1.4	1			
6/16/2017			5.4						
7/12/2017				3.9		1.8			
7/14/2017									
7/20/2017									
7/26/2017						1.2			
7/28/2017									
8/9/2017									
8/10/2017									
8/24/2017									
10/2/2017									
10/3/2017							0.95	1.2	1.3
10/4/2017	1.6	1							
10/5/2017				2.7					
10/6/2017					1.6	1.7			
10/9/2017			6.2						
3/16/2018									
3/19/2018							0.82	1.2	
3/20/2018									1.7
3/21/2018			4.6						
3/22/2018	2	<1.3		3.4					
3/23/2018					1.5	<0.25			

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 7/16/2018 9:49 AM View: Cells1&2_AppIII_Interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-7Z	GWC-8RR	GWC-8Z	GWC-9	GWA-4RZ (bg)	GWC-13R_13RZ
3/22/2016			1.4231			
3/23/2016						
3/28/2016						
3/29/2016						
3/30/2016		0.9409		2.21		
3/31/2016						
4/4/2016						3.3
4/5/2016						
5/19/2016						
5/20/2016						
5/23/2016						
5/24/2016		0.92				
5/25/2016			1.11			
5/26/2016				2.1		
5/27/2016						
5/31/2016	1.33					
6/1/2016						3.18
7/29/2016						
8/1/2016						
8/2/2016	1.5	1.2	1.5			
8/3/2016						
8/4/2016						
8/5/2016				2.4		
8/9/2016						
9/22/2016						
9/23/2016						
9/26/2016			1.6			
9/27/2016	1.4	1.1				
9/28/2016				2.1		
9/29/2016						
9/30/2016						
11/9/2016						
11/10/2016						
11/11/2016						
11/14/2016						
11/18/2016						
11/21/2016	1.5		1.5	2.2		
11/22/2016		1.2				
11/23/2016						
11/28/2016						
1/30/2017						
1/31/2017						
2/1/2017	1.5					
2/3/2017			1.8			
2/6/2017		1.1		2.5		
2/7/2017						
2/8/2017						
2/9/2017						
2/10/2017						
2/13/2017						
2/22/2017					3.7	7.2
3/30/2017						

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 7/16/2018 9:49 AM View: Cells1&2_AppIII_Interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-7Z	GWC-8RR	GWC-8Z	GWC-9	GWA-4RZ (bg)	GWC-13R_13RZ
4/3/2017						
4/6/2017	1.2	1.2		2.2		
4/7/2017			1.5		2.5	
4/10/2017						
4/11/2017						5.5
4/12/2017						
6/9/2017						
6/12/2017						
6/13/2017	0.98		1.3	2		
6/14/2017		0.92			2.6	
6/15/2017						
6/16/2017						8.7
7/12/2017					2.8	7.5
7/14/2017	1.1					
7/20/2017					2.3	
7/26/2017						
7/28/2017					2	6.6
8/9/2017					1.8	
8/10/2017						8.5
8/24/2017					2.9	
10/2/2017						
10/3/2017	1		1.4	2	2.8	
10/4/2017		1				
10/5/2017						
10/6/2017						8.9
10/9/2017						
3/16/2018						
3/19/2018						
3/20/2018	1.5		1.8	2.4		
3/21/2018		1.3			2.9	
3/22/2018						
3/23/2018						8.3

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 7/16/2018 9:49 AM View: Cells1&2_AppIII_Interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-8Z	GWA-1 (bg)	GWA-2 (bg)	GWA-3 (bg)	GWA-2R (bg)	GWA-50R (bg)	GWA-50 (bg)	GWC-5	GWC-6RZ
3/22/2016	0.00323 (J)	0.0614 (J)							
3/23/2016			0.0477 (J)	<0.3	0.0826 (J)				
3/28/2016						0.0326 (J)	0.0314 (J)	0.00421 (J)	
3/29/2016									0.00363 (J)
3/30/2016									
3/31/2016									
4/4/2016									
4/5/2016									
5/19/2016		0.064 (J)			0.0409 (J)				
5/20/2016			0.033 (J)						
5/23/2016				<0.3			0.027 (J)		
5/24/2016									0.0286 (J)
5/25/2016	0.0345 (J)					0.0285 (J)		0.0207 (J)	
5/26/2016									
5/27/2016									
5/31/2016									
6/1/2016									
7/29/2016		0.11 (J)	0.16 (J)	<0.3	0.07 (J)				
8/1/2016						<0.3	<0.3	<0.3	0.08 (J)
8/2/2016	0.08 (J)								
8/3/2016									
8/4/2016									
8/5/2016									
8/9/2016									
9/22/2016				<0.3	<0.3				
9/23/2016		0.03 (J)	0.1 (J)						
9/26/2016	0.07 (J)					<0.3	<0.3		<0.3
9/27/2016								<0.3	
9/28/2016									
9/29/2016									
9/30/2016									
11/9/2016		0.1 (J)	0.04 (J)						
11/10/2016				<0.3	0.03 (J)		0.04 (J)		
11/11/2016						<0.3		0.04 (J)	
11/14/2016									0.08 (J)
11/18/2016									
11/21/2016	0.07 (J)								
11/22/2016									
11/23/2016									
11/28/2016									
1/30/2017		<0.3				<0.3	<0.3		
1/31/2017			<0.3	<0.3	<0.3			<0.3	
2/1/2017									<0.3
2/3/2017	<0.3								
2/6/2017									
2/7/2017									
2/8/2017									
2/9/2017									
2/10/2017									
2/13/2017									
2/22/2017									
3/30/2017		0.01 (J)	0.02 (J)	<0.3					

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 7/16/2018 9:49 AM View: Cells1&2_AppIII_Interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-8Z	GWA-1 (bg)	GWA-2 (bg)	GWA-3 (bg)	GWA-2R (bg)	GWA-50R (bg)	GWA-50 (bg)	GWC-5	GWC-6RZ
4/3/2017					0.02 (J)	0.04 (J)		<0.3	
4/6/2017									<0.3
4/7/2017	0.03 (J)						<0.3		
4/10/2017									
4/11/2017									
4/12/2017									
6/9/2017		0.04 (J)			0.06 (J)				
6/12/2017			0.17 (J)	<0.3		0.06 (J)	0.07 (J)	0.02 (J)	
6/13/2017	0.05 (J)								0.05 (J)
6/14/2017									
6/15/2017									
6/16/2017									
7/12/2017									
7/14/2017									
7/20/2017									
7/26/2017									
7/28/2017									
8/9/2017									
8/10/2017									
8/24/2017									
10/2/2017		0.07 (J)	<0.3		<0.3	<0.3	<0.3		
10/3/2017	0.1 (J)							<0.3	<0.3
10/4/2017				<0.3					
10/5/2017									
10/6/2017									
10/9/2017									
3/16/2018		0.029 (J)			<0.3	<0.3	<0.3		
3/19/2018			1.1	<0.3				<0.3	
3/20/2018	<0.3								<0.3
3/21/2018									
3/22/2018									
3/23/2018									

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 7/16/2018 9:49 AM View: Cells1&2_AppIII_Interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-6	GWC-8RR	GWC-9	GWC-10R	GWC-10	GWC-11R	GWC-12	GWC-13R_13RZ	GWC-13
3/22/2016									
3/23/2016									
3/28/2016									
3/29/2016	0.0376 (J)								
3/30/2016		0.00345 (J)	0.0518 (J)						
3/31/2016				0.0209 (J)	0.0389 (J)				
4/4/2016						0.022 (J)	0.035 (J)	0.044 (J)	0.026 (J)
4/5/2016									
5/19/2016									
5/20/2016									
5/23/2016									
5/24/2016	0.023 (J)	0.019 (J)							
5/25/2016									
5/26/2016			0.0307 (J)	0.037 (J)	0.0375 (J)	0.023 (J)			
5/27/2016							0.032 (J)		
5/31/2016									0.0234 (J)
6/1/2016								0.0338 (J)	
7/29/2016									
8/1/2016	<0.3								
8/2/2016		<0.3							
8/3/2016				<0.3			<0.3		
8/4/2016						0.05 (J)			0.09 (J)
8/5/2016			<0.3		0.03 (J)				
8/9/2016									
9/22/2016									
9/23/2016									
9/26/2016	<0.3								
9/27/2016		<0.3							
9/28/2016			<0.3	0.05 (J)	<0.3	<0.3			
9/29/2016									<0.3
9/30/2016							<0.3		
11/9/2016									
11/10/2016									
11/11/2016									
11/14/2016									
11/18/2016	0.02 (J)								
11/21/2016			0.05 (J)						
11/22/2016		0.02 (J)		0.04 (J)	0.04 (J)	0.04 (J)	0.03 (J)		
11/23/2016									
11/28/2016									0.08 (J)
1/30/2017									
1/31/2017									
2/1/2017	<0.3								
2/3/2017									
2/6/2017		<0.3	<0.3						
2/7/2017				<0.3	<0.3				
2/8/2017						<0.3			
2/9/2017									0.24 (J)
2/10/2017									
2/13/2017							<0.3		
2/22/2017								0.22 (J)	
3/30/2017									

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 7/16/2018 9:49 AM View: Cells1&2_AppIII_Interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-6	GWC-8RR	GWC-9	GWC-10R	GWC-10	GWC-11R	GWC-12	GWC-13R_13RZ	GWC-13
4/3/2017									
4/6/2017	<0.3	<0.3	<0.3						
4/7/2017									
4/10/2017				<0.3	<0.3	<0.3			
4/11/2017							<0.3	0.16 (J)	
4/12/2017									<0.3
6/9/2017									
6/12/2017									
6/13/2017	0.006 (J)		<0.3						
6/14/2017		<0.3		<0.3	0.02 (J)		0.01 (J)		
6/15/2017						<0.3			
6/16/2017								0.2 (J)	0.04 (J)
7/12/2017								0.2 (J)	
7/14/2017									
7/20/2017									
7/26/2017									
7/28/2017								0.18 (J)	
8/9/2017									
8/10/2017								<0.3 (*)	
8/24/2017									
10/2/2017									
10/3/2017	<0.3		<0.3						
10/4/2017		<0.3		<0.3	<0.3	<0.3	<0.3		
10/5/2017									
10/6/2017								0.14 (J)	
10/9/2017									<0.3
3/16/2018									
3/19/2018	<0.3								
3/20/2018			<0.3		<0.3				
3/21/2018		<0.3		<0.3					<0.3
3/22/2018						<0.3	<0.3		
3/23/2018								0.24 (J)	

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 7/16/2018 9:49 AM View: Cells1&2_AppIII_Interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-11	GWC-15R	GWC-14_14Z	GWC-15_15Z	GWC-7Z	GWA-4RZ (bg)
3/22/2016						
3/23/2016						
3/28/2016						
3/29/2016						
3/30/2016						
3/31/2016						
4/4/2016	0.0357 (J)					
4/5/2016		0.00288 (J)	1.78243 (J)	0.011 (J)		
5/19/2016						
5/20/2016						
5/23/2016						
5/24/2016						
5/25/2016						
5/26/2016	0.042 (J)					
5/27/2016						
5/31/2016		0.0233 (J)		0.0669 (J)	0.043 (J)	
6/1/2016			0.0148 (J)			
7/29/2016						
8/1/2016						
8/2/2016					<0.3	
8/3/2016	0.04 (J)					
8/4/2016		<0.3				
8/5/2016						
8/9/2016			0.04 (J)			
9/22/2016						
9/23/2016						
9/26/2016						
9/27/2016					<0.3	
9/28/2016	<0.3					
9/29/2016		<0.3				
9/30/2016						
11/9/2016						
11/10/2016						
11/11/2016						
11/14/2016						
11/18/2016						
11/21/2016					0.22 (J)	
11/22/2016	0.06 (J)					
11/23/2016		0.04 (J)		0.03 (J)		
11/28/2016			0.07 (J)			
1/30/2017						
1/31/2017						
2/1/2017					<0.3	
2/3/2017						
2/6/2017						
2/7/2017						
2/8/2017	0.05 (J)					
2/9/2017			0.08 (J)			
2/10/2017		<0.3		<0.3		
2/13/2017						
2/22/2017						0.3
3/30/2017						

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 7/16/2018 9:49 AM View: Cells1&2_AppIII_Interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-11	GWC-15R	GWC-14_14Z	GWC-15_15Z	GWC-7Z	GWA-4RZ (bg)
4/3/2017						
4/6/2017					0.008 (J)	
4/7/2017						0.19 (J)
4/10/2017	<0.3					
4/11/2017			<0.3	<0.3		
4/12/2017		<0.3				
6/9/2017						
6/12/2017						
6/13/2017					0.03 (J)	
6/14/2017			0.01 (J)			0.19 (J)
6/15/2017	0.03 (J)	0.06 (J)		0.02 (J)		
6/16/2017						
7/12/2017			0.05 (J)	0.04 (J)		0.18 (J)
7/14/2017					0.05 (J)	
7/20/2017						0.17 (J)
7/26/2017				0.03 (J)		
7/28/2017						0.13 (J)
8/9/2017						<0.3 (*)
8/10/2017						
8/24/2017						0.16 (J)
10/2/2017						
10/3/2017					0.06 (J)	0.17 (J)
10/4/2017	<0.3					
10/5/2017			<0.3			
10/6/2017		<0.3		<0.3		
10/9/2017						
3/16/2018						
3/19/2018						
3/20/2018					<0.3	
3/21/2018	<0.3					0.24 (J)
3/22/2018			<0.3			
3/23/2018		<0.3		<0.3		

Prediction Limit

Constituent: pH (pH units) Analysis Run 7/16/2018 9:49 AM View: Cells1&2_AppIII_Interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-8Z	GWA-1 (bg)	GWA-2 (bg)	GWA-2R (bg)	GWA-3 (bg)	GWC-5	GWA-50R (bg)	GWA-50 (bg)	GWC-6RZ
3/22/2016	7.53 (D)	7.65							
3/23/2016			6.7	7.45	5.96				
3/28/2016						7.04	6.45 (D)	6.22	
3/29/2016									7.24
3/30/2016									
3/31/2016									
4/4/2016									
4/5/2016									
5/19/2016		7.6		7.5					
5/20/2016			6.36						
5/23/2016					5.73			5.86	
5/24/2016									7.1
5/25/2016	8.04					6.39	6.96		
5/26/2016									
5/27/2016									
5/31/2016									
6/1/2016									
7/29/2016		7.58	6.75	7.59	5.51				
8/1/2016						6.13	5.64	6.39	7.07
8/2/2016	7.74								
8/3/2016									
8/4/2016									
8/5/2016									
8/9/2016									
9/22/2016				7.44	5.45				
9/23/2016		7.57	6.62						
9/26/2016	7.4						6.26	5.74	7.15
9/27/2016						5.98			
9/28/2016									
9/29/2016									
9/30/2016									
11/9/2016		7.45	6.42						
11/10/2016				7.55	5.51			5.78	
11/11/2016						6.11	5.62		
11/14/2016									7.15
11/18/2016									
11/21/2016	7.4								
11/22/2016									
11/23/2016									
11/28/2016									
1/30/2017		7.64					5.49	5.88	
1/31/2017			5.66	7.56	5.42	6.08			
2/1/2017									7.09
2/3/2017	7.05								
2/6/2017									
2/7/2017									
2/8/2017									
2/9/2017									
2/10/2017									
2/13/2017									
2/22/2017									
3/30/2017		7.51	6.33		5.43				

Prediction Limit

Constituent: pH (pH units) Analysis Run 7/16/2018 9:49 AM View: Cells1&2_AppIII_Interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-8Z	GWA-1 (bg)	GWA-2 (bg)	GWA-2R (bg)	GWA-3 (bg)	GWC-5	GWA-50R (bg)	GWA-50 (bg)	GWC-6RZ
4/3/2017				7.46		6.13	6.32		
4/6/2017									7.23
4/7/2017	7.14							5.94	
4/10/2017									
4/11/2017									
4/12/2017									
6/9/2017		7.6		7.24					
6/12/2017			6.6		5.47	6.83	6.48	5.81	
6/13/2017	7.52								6.99
6/14/2017									
6/15/2017									
6/16/2017									
7/12/2017									
7/14/2017									
7/20/2017									
7/26/2017									
7/27/2017									
7/28/2017									
8/9/2017									
8/10/2017									
8/24/2017									
10/2/2017		7.55	5.61	7.35			6.41	5.93	
10/3/2017	7.38					6.2			7.09
10/4/2017					5.23				
10/5/2017									
10/6/2017									
10/9/2017									
12/28/2017									
1/9/2018									
3/16/2018		7.58		7.31			5.46	5.64	
3/19/2018			6.55		5.4	6.06			
3/20/2018	7.27								6.9
3/21/2018									
3/22/2018									
3/23/2018									

Prediction Limit

Constituent: pH (pH units) Analysis Run 7/16/2018 9:49 AM View: Cells1&2_AppIII_Interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-6	GWC-8RR	GWC-9	GWC-10	GWC-10R	GWC-11	GWC-12	GWC-13	GWC-11R
3/22/2016									
3/23/2016									
3/28/2016									
3/29/2016	7.54								
3/30/2016		8.2	6.07						
3/31/2016				7.21	7.54				
4/4/2016						7.16	6.53 (D)	7.44 (D)	8.01
4/5/2016									
5/19/2016									
5/20/2016									
5/23/2016									
5/24/2016	7.39	8.07							
5/25/2016									
5/26/2016			6.44	7.3	7.43	7.23			7.91
5/27/2016							6.45		
5/31/2016								7.37	
6/1/2016									
7/29/2016									
8/1/2016	7.26								
8/2/2016		8.07							
8/3/2016					7.41	6.96	6.41		
8/4/2016								7.32	7.85
8/5/2016			6.67	7.54					
8/9/2016									
9/22/2016									
9/23/2016									
9/26/2016	7.19								
9/27/2016		8.06							
9/28/2016			6.89	7.48	7.26	7.6			8.26
9/29/2016								7.38	
9/30/2016							6.46		
11/9/2016									
11/10/2016									
11/11/2016									
11/14/2016									
11/18/2016	7.04								
11/21/2016			6.89						
11/22/2016		8.07		7.54	7.38	6.71	6.39		7.79
11/23/2016									
11/28/2016								7.43	
1/30/2017									
1/31/2017									
2/1/2017	7.34								
2/3/2017									
2/6/2017		7.88	4.93						
2/7/2017				7.17	7.46				
2/8/2017						6.84			7.77
2/9/2017								7.36	
2/10/2017									
2/13/2017							6.4		
2/22/2017									
3/30/2017									

Prediction Limit

Constituent: pH (pH units) Analysis Run 7/16/2018 9:49 AM View: Cells1&2_AppIII_Interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-6	GWC-8RR	GWC-9	GWC-10	GWC-10R	GWC-11	GWC-12	GWC-13	GWC-11R
4/3/2017									
4/6/2017	7.49	7.86	4.92						
4/7/2017									
4/10/2017				6.72	7.51	7.13			7.95
4/11/2017							6.37		
4/12/2017								7.46	
6/9/2017									
6/12/2017									
6/13/2017	7.38		5.03						
6/14/2017		7.66		6.83	7.34		5.85		
6/15/2017						7.1			7.79
6/16/2017								7.36	
7/12/2017									
7/14/2017									
7/20/2017									
7/26/2017									
7/27/2017									
7/28/2017									
8/9/2017									
8/10/2017									
8/24/2017									
10/2/2017									
10/3/2017	7.39		6.01						
10/4/2017		7.84		7.38	7.54	6.25	6.27		7.74
10/5/2017									
10/6/2017									
10/9/2017								7.38	
12/28/2017									
1/9/2018		7.86 (Y)							
3/16/2018									
3/19/2018	7.32								
3/20/2018			4.88	6.23					
3/21/2018		7.9			7.33	7.07		7.33	
3/22/2018							6.45		7.72
3/23/2018									

Prediction Limit

Constituent: pH (pH units) Analysis Run 7/16/2018 9:49 AM View: Cells1&2_AppIII_Interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-13R_13RZ	GWC-15_15Z	GWC-14_14Z	GWC-15R	GWC-7Z	GWA-4RZ (bg)
3/22/2016						
3/23/2016						
3/28/2016						
3/29/2016						
3/30/2016						
3/31/2016						
4/4/2016	8.56					
4/5/2016		9.23	10.61	7.71		
5/19/2016						
5/20/2016						
5/23/2016						
5/24/2016						
5/25/2016						
5/26/2016						
5/27/2016						
5/31/2016		9.52		7.66	7.98	
6/1/2016	9.83		10.32			
7/29/2016						
8/1/2016						
8/2/2016					7.64	
8/3/2016						
8/4/2016				7.8		
8/5/2016						
8/9/2016			8.23			
9/22/2016						
9/23/2016						
9/26/2016						
9/27/2016					7.18	
9/28/2016						
9/29/2016				7.46		
9/30/2016						
11/9/2016						
11/10/2016						
11/11/2016						
11/14/2016						
11/18/2016						
11/21/2016					7.49	
11/22/2016						
11/23/2016		7.88		7.62		
11/28/2016			7.29			
1/30/2017						
1/31/2017						
2/1/2017					7.2	
2/3/2017						
2/6/2017						
2/7/2017						
2/8/2017						
2/9/2017			6.91			
2/10/2017		7.72		7.51		
2/13/2017						
2/22/2017	7.45					7.38
3/30/2017						

Prediction Limit

Constituent: pH (pH units) Analysis Run 7/16/2018 9:49 AM View: Cells1&2_AppIII_Interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-13R_13RZ	GWC-15_15Z	GWC-14_14Z	GWC-15R	GWC-7Z	GWA-4RZ (bg)
4/3/2017						
4/6/2017					7.42	
4/7/2017						7.35
4/10/2017						
4/11/2017	6.37	7.83	6.68			
4/12/2017				7.54		
6/9/2017						
6/12/2017						
6/13/2017					7.25	
6/14/2017			6.84			7.3
6/15/2017		7.86		7.71		
6/16/2017	7.33					
7/12/2017	7.46	7.73	6.54			7.39
7/14/2017					7.5	
7/20/2017						7.44
7/26/2017		7.71				
7/27/2017	7.37					
7/28/2017	7.37					7.5
8/9/2017	7.38					7.52
8/10/2017	7.38					
8/24/2017						7.5
10/2/2017						
10/3/2017					7.5	7.51
10/4/2017						
10/5/2017			6.93			
10/6/2017	6.55	7.74		7.58		
10/9/2017						
12/28/2017	7.43 (Y)					7.32 (Y)
1/9/2018						
3/16/2018						
3/19/2018						
3/20/2018					6.76	
3/21/2018						7.3
3/22/2018			6.93			
3/23/2018	7.58	7.89		7.34		

Intrawell Prediction Limit

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR Printed 7/16/2018, 11:42 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Calcium (mg/L)	**GWA-2**	**53.79**	**n/a**	**3/19/2018**	**63**	**Yes**	**9**	**0**	**No**	**0.001032**	Param 1 of 3
Sulfate (mg/L)	**GWA-2**	**115.6**	**n/a**	**3/19/2018**	**147**	**Yes**	**9**	**0**	**No**	**0.001032**	Param 1 of 3
Total Dissolved Solids (mg/l)	**GWA-2**	**278.1**	**n/a**	**3/19/2018**	**295**	**Yes**	**9**	**11.11**	**No**	**0.001032**	Param 1 of 3

Intrawell Prediction Limit

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR Printed 7/16/2018, 11:42 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Calcium (mg/L)	GWA-1	34.6	n/a	3/16/2018	28.5	No	9	0	No	0.001032	Param 1 of 3
Calcium (mg/L)	**GWA-2**	**53.79**	**n/a**	**3/19/2018**	**63**	**Yes**	**9**	**0**	**No**	**0.001032**	Param 1 of 3
Calcium (mg/L)	GWA-2R	40.37	n/a	3/16/2018	33	No	9	0	sqrt(x)	0.001032	Param 1 of 3
Calcium (mg/L)	GWA-3	1.943	n/a	3/19/2018	1.2	No	9	0	No	0.001032	Param 1 of 3
Calcium (mg/L)	GWA-50	3.742	n/a	3/16/2018	1.8	No	9	0	No	0.001032	Param 1 of 3
Calcium (mg/L)	GWA-50R	12.89	n/a	3/16/2018	2.6	No	9	0	No	0.001032	Param 1 of 3
Calcium (mg/L)	GWC-10	40.67	n/a	3/20/2018	12	No	9	0	No	0.001032	Param 1 of 3
Calcium (mg/L)	GWC-10R	45.05	n/a	3/21/2018	43.3	No	9	0	No	0.001032	Param 1 of 3
Calcium (mg/L)	GWC-11	27.22	n/a	3/21/2018	19.7	No	9	0	No	0.001032	Param 1 of 3
Calcium (mg/L)	GWC-11R	33.34	n/a	3/22/2018	27.5	No	9	0	No	0.001032	Param 1 of 3
Calcium (mg/L)	GWC-12	9.543	n/a	3/22/2018	7.5	No	9	0	No	0.001032	Param 1 of 3
Calcium (mg/L)	GWC-13	70.33	n/a	3/21/2018	40.9	No	9	0	No	0.001032	Param 1 of 3
Calcium (mg/L)	GWC-14_14Z	42.26	n/a	3/22/2018	18.6	No	9	0	No	0.001032	Param 1 of 3
Calcium (mg/L)	GWC-15R	56.11	n/a	3/23/2018	35.6	No	9	0	ln(x)	0.001032	Param 1 of 3
Calcium (mg/L)	GWC-15_15Z	29.81	n/a	3/23/2018	24.3	No	9	0	x^3	0.001032	Param 1 of 3
Calcium (mg/L)	GWC-5	7.178	n/a	3/19/2018	3.3	No	9	0	No	0.001032	Param 1 of 3
Calcium (mg/L)	GWC-6	15.27	n/a	3/19/2018	14.4	No	8	0	No	0.001032	Param 1 of 3
Calcium (mg/L)	GWC-6RZ	14.52	n/a	3/20/2018	11.5	No	8	0	No	0.001032	Param 1 of 3
Calcium (mg/L)	GWC-7Z	26.14	n/a	3/20/2018	22.9	No	9	0	No	0.001032	Param 1 of 3
Calcium (mg/L)	GWC-8RR	24.96	n/a	3/21/2018	22.5	No	9	0	No	0.001032	Param 1 of 3
Calcium (mg/L)	GWC-8Z	25.5	n/a	3/20/2018	20.3	No	8	0	No	0.001032	Param 1 of 3
Calcium (mg/L)	GWC-9	30.22	n/a	3/20/2018	1.4	No	9	0	No	0.001032	Param 1 of 3
Calcium (mg/L)	GWA-4RZ	56.07	n/a	3/21/2018	47.5	No	9	0	No	0.001032	Param 1 of 3
Calcium (mg/L)	GWC-13R_13RZ	62.85	n/a	3/23/2018	41.4	No	9	0	No	0.001032	Param 1 of 3
Sulfate (mg/L)	GWA-1	2.377	n/a	3/16/2018	1.5	No	9	0	No	0.001032	Param 1 of 3
Sulfate (mg/L)	**GWA-2**	**115.6**	**n/a**	**3/19/2018**	**147**	**Yes**	**9**	**0**	**No**	**0.001032**	Param 1 of 3
Sulfate (mg/L)	GWA-2R	26.82	n/a	3/16/2018	14.8	No	9	0	n/a	0.004675	NP (normality) 1 of 3
Sulfate (mg/L)	GWA-3	1.156	n/a	3/19/2018	0.49	No	9	0	No	0.001032	Param 1 of 3
Sulfate (mg/L)	GWA-50	0.9778	n/a	3/16/2018	0.67	No	9	11.11	No	0.001032	Param 1 of 3
Sulfate (mg/L)	GWA-50R	1.678	n/a	3/16/2018	0.87	No	9	11.11	No	0.001032	Param 1 of 3
Sulfate (mg/L)	GWC-10	2.154	n/a	3/20/2018	1.4	No	9	0	No	0.001032	Param 1 of 3
Sulfate (mg/L)	GWC-10R	1.944	n/a	3/21/2018	1.1	No	9	0	No	0.001032	Param 1 of 3
Sulfate (mg/L)	GWC-11	3.67	n/a	3/21/2018	2.4	No	9	0	No	0.001032	Param 1 of 3
Sulfate (mg/L)	GWC-11R	4.481	n/a	3/22/2018	2.2	No	9	0	No	0.001032	Param 1 of 3
Sulfate (mg/L)	GWC-12	0.722	n/a	3/22/2018	0.3	No	9	11.11	No	0.001032	Param 1 of 3
Sulfate (mg/L)	GWC-13	181.7	n/a	3/21/2018	59.1	No	9	0	No	0.001032	Param 1 of 3
Sulfate (mg/L)	GWC-14_14Z	5.193	n/a	3/22/2018	2.5	No	8	0	No	0.001032	Param 1 of 3
Sulfate (mg/L)	GWC-15R	11	n/a	3/23/2018	10.6	No	9	0	No	0.001032	Param 1 of 3
Sulfate (mg/L)	GWC-15_15Z	12.7	n/a	3/23/2018	1.6	No	9	0	No	0.001032	Param 1 of 3
Sulfate (mg/L)	GWC-5	2.1	n/a	3/19/2018	1.3	No	9	0	No	0.001032	Param 1 of 3
Sulfate (mg/L)	GWC-6	3.778	n/a	3/19/2018	2.6	No	9	11.11	No	0.001032	Param 1 of 3
Sulfate (mg/L)	GWC-6RZ	3.247	n/a	3/20/2018	2.5	No	9	11.11	No	0.001032	Param 1 of 3
Sulfate (mg/L)	GWC-7Z	1.876	n/a	3/20/2018	0.5	No	9	11.11	No	0.001032	Param 1 of 3
Sulfate (mg/L)	GWC-8RR	1.818	n/a	3/21/2018	1.2	No	9	11.11	sqrt(x)	0.001032	Param 1 of 3
Sulfate (mg/L)	GWC-8Z	3.819	n/a	3/20/2018	1.6	No	9	0	No	0.001032	Param 1 of 3
Sulfate (mg/L)	GWC-9	4.376	n/a	3/20/2018	1.2	No	9	11.11	No	0.001032	Param 1 of 3
Sulfate (mg/L)	GWA-4RZ	25.99	n/a	3/21/2018	25.4	No	10	0	No	0.001032	Param 1 of 3
Sulfate (mg/L)	GWC-13R_13RZ	85.41	n/a	3/23/2018	75.8	No	9	0	No	0.001032	Param 1 of 3
Total Dissolved Solids (mg/l)	GWA-1	170.3	n/a	3/16/2018	140	No	9	0	No	0.001032	Param 1 of 3
Total Dissolved Solids (mg/l)	**GWA-2**	**278.1**	**n/a**	**3/19/2018**	**295**	**Yes**	**9**	**11.11**	**No**	**0.001032**	Param 1 of 3

Intrawell Prediction Limit

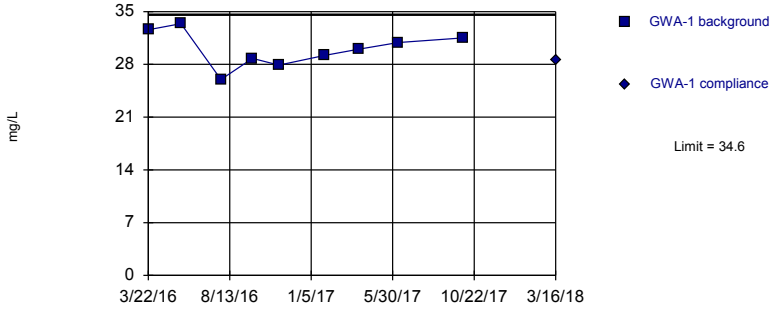
Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR Printed 7/16/2018, 11:42 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Total Dissolved Solids (mg/l)	GWA-2R	203.9	n/a	3/16/2018	130	No	9	0	No	0.001032	Param 1 of 3
Total Dissolved Solids (mg/l)	GWA-3	60.41	n/a	3/19/2018	12.5ND	No	9	44.44	No	0.001032	Param 1 of 3
Total Dissolved Solids (mg/l)	GWA-50	51.43	n/a	3/16/2018	12.5ND	No	9	33.33	No	0.001032	Param 1 of 3
Total Dissolved Solids (mg/l)	GWA-50R	103.2	n/a	3/16/2018	12.5ND	No	9	22.22	No	0.001032	Param 1 of 3
Total Dissolved Solids (mg/l)	GWC-10	174.5	n/a	3/20/2018	93	No	9	0	No	0.001032	Param 1 of 3
Total Dissolved Solids (mg/l)	GWC-10R	207.3	n/a	3/21/2018	192	No	9	0	No	0.001032	Param 1 of 3
Total Dissolved Solids (mg/l)	GWC-11	142.2	n/a	3/21/2018	111	No	9	0	No	0.001032	Param 1 of 3
Total Dissolved Solids (mg/l)	GWC-11R	158.4	n/a	3/22/2018	139	No	9	0	No	0.001032	Param 1 of 3
Total Dissolved Solids (mg/l)	GWC-12	104.8	n/a	3/22/2018	54	No	9	0	No	0.001032	Param 1 of 3
Total Dissolved Solids (mg/l)	GWC-13	391.5	n/a	3/21/2018	211	No	9	0	No	0.001032	Param 1 of 3
Total Dissolved Solids (mg/l)	GWC-14_14Z	269.1	n/a	3/22/2018	115	No	9	0	No	0.001032	Param 1 of 3
Total Dissolved Solids (mg/l)	GWC-15R	231.5	n/a	3/23/2018	170	No	9	0	No	0.001032	Param 1 of 3
Total Dissolved Solids (mg/l)	GWC-15_15Z	219	n/a	3/23/2018	119	No	9	0	No	0.001032	Param 1 of 3
Total Dissolved Solids (mg/l)	GWC-5	113	n/a	3/19/2018	12.5ND	No	9	11.11	No	0.001032	Param 1 of 3
Total Dissolved Solids (mg/l)	GWC-6	155.9	n/a	3/19/2018	70	No	9	0	No	0.001032	Param 1 of 3
Total Dissolved Solids (mg/l)	GWC-6RZ	154.2	n/a	3/20/2018	78	No	9	0	No	0.001032	Param 1 of 3
Total Dissolved Solids (mg/l)	GWC-7Z	166.8	n/a	3/20/2018	136	No	9	0	No	0.001032	Param 1 of 3
Total Dissolved Solids (mg/l)	GWC-8RR	126.4	n/a	3/21/2018	117	No	9	0	No	0.001032	Param 1 of 3
Total Dissolved Solids (mg/l)	GWC-8Z	168.1	n/a	3/20/2018	121	No	9	0	No	0.001032	Param 1 of 3
Total Dissolved Solids (mg/l)	GWC-9	171.2	n/a	3/20/2018	49	No	9	0	No	0.001032	Param 1 of 3
Total Dissolved Solids (mg/l)	GWA-4RZ	394	n/a	3/21/2018	237	No	9	0	No	0.001032	Param 1 of 3
Total Dissolved Solids (mg/l)	GWC-13R_13RZ	391.8	n/a	3/23/2018	281	No	9	0	No	0.001032	Param 1 of 3

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=30.03, Std. Dev.=2.341, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.986, critical = 0.764. Kappa = 1.949 (c=3, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.001032.

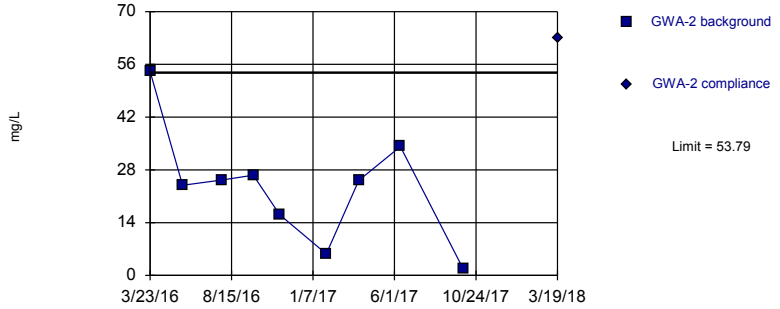
Constituent: Calcium Analysis Run 7/16/2018 10:57 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=23.64, Std. Dev.=15.47, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9354, critical = 0.764. Kappa = 1.949 (c=3, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.001032.

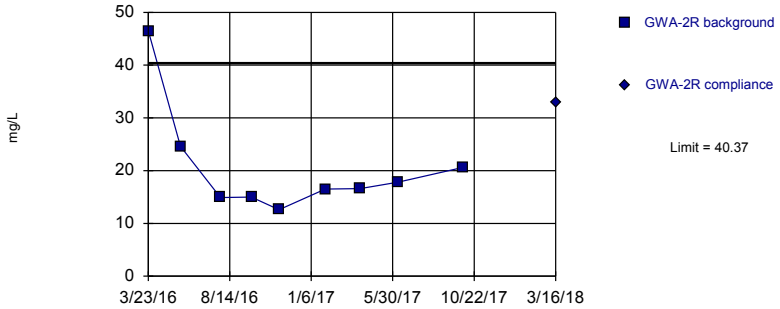
Constituent: Calcium Analysis Run 7/16/2018 10:57 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square root transformation): Mean=4.44, Std. Dev.=0.9821, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7642, critical = 0.764. Kappa = 1.949 (c=3, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.001032.

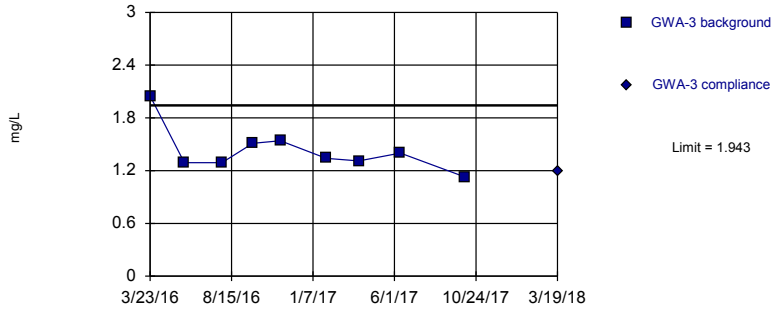
Constituent: Calcium Analysis Run 7/16/2018 10:57 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=1.429, Std. Dev.=0.2635, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8197, critical = 0.764. Kappa = 1.949 (c=3, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.001032.

Constituent: Calcium Analysis Run 7/16/2018 10:57 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 7/16/2018 11:42 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-1	GWA-1
3/22/2016	32.6	
5/19/2016	33.4	
7/29/2016	26	
9/23/2016	28.8	
11/9/2016	27.9	
1/30/2017	29.2	
3/30/2017	30	
6/9/2017	30.9	
10/2/2017	31.5	
3/16/2018		28.5

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 7/16/2018 11:42 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-2	GWA-2
3/23/2016	54.1	
5/20/2016	23.9	
7/29/2016	25.3	
9/23/2016	26.6	
11/9/2016	16.1	
1/31/2017	5.68	
3/30/2017	25.2	
6/12/2017	34.2	
10/2/2017	1.69	
3/19/2018		63

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 7/16/2018 11:42 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-2R	GWA-2R
3/23/2016	46.5	
5/19/2016	24.6	
7/29/2016	14.9	
9/22/2016	15	
11/10/2016	12.6	
1/31/2017	16.5	
4/3/2017	16.6	
6/9/2017	17.8	
10/2/2017	20.6	
3/16/2018		33

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 7/16/2018 11:42 AM View: cells_1&2_AppIII_intrawell

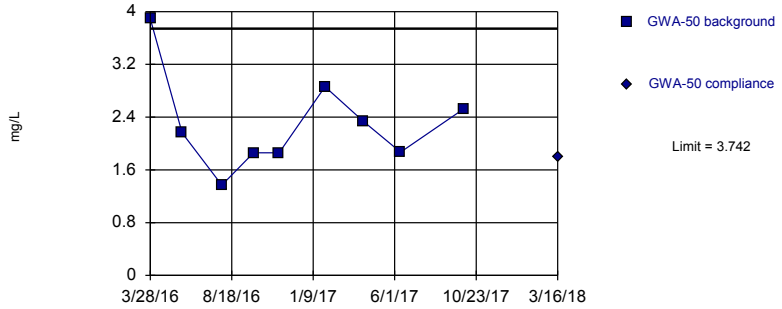
Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-3	GWA-3
3/23/2016	2.05	
5/23/2016	1.29	
7/29/2016	1.29	
9/22/2016	1.51	
11/10/2016	1.54	
1/31/2017	1.34	
3/30/2017	1.31	
6/12/2017	1.4	
10/4/2017	1.13	
3/19/2018		1.2

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=2.304, Std. Dev.=0.7376, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9053, critical = 0.764. Kappa = 1.949 (c=3, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.001032.

Constituent: Calcium Analysis Run 7/16/2018 10:57 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

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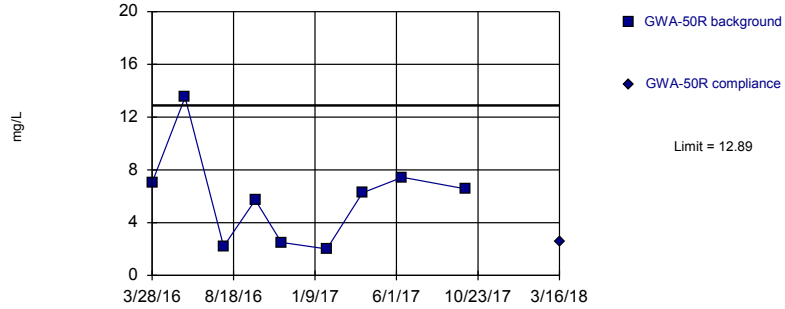
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=5.913, Std. Dev.=3.578, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8704, critical = 0.764. Kappa = 1.949 (c=3, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.001032.

Constituent: Calcium Analysis Run 7/16/2018 10:57 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

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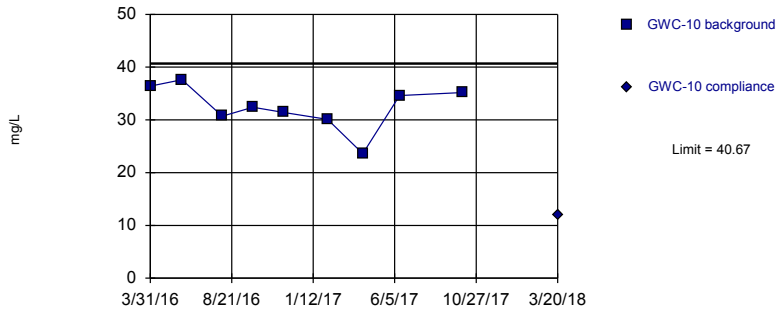
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=32.44, Std. Dev.=4.218, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9259, critical = 0.764. Kappa = 1.949 (c=3, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.001032.

Constituent: Calcium Analysis Run 7/16/2018 10:57 AM View: cells_1&2_AppIII_intrawell

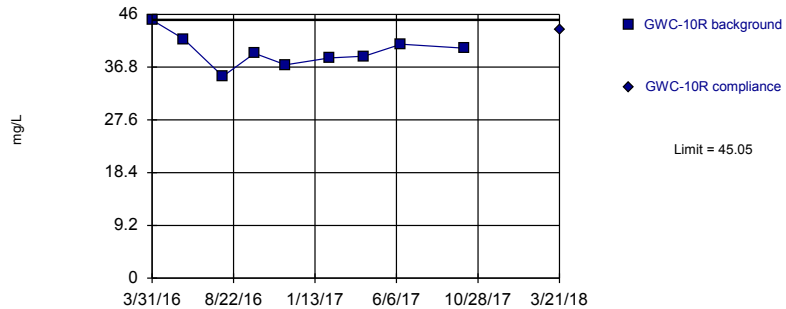
Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

Sanitas™ v.9.5.32 Sanitas software licensed to AMEC. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=39.59, Std. Dev.=2.802, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9781, critical = 0.764. Kappa = 1.949 (c=3, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.001032.

Constituent: Calcium Analysis Run 7/16/2018 10:58 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 7/16/2018 11:42 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50	GWA-50
3/28/2016	3.89	
5/23/2016	2.16	
8/1/2016	1.37	
9/26/2016	1.86	
11/10/2016	1.86	
1/30/2017	2.86	
4/7/2017	2.34	
6/12/2017	1.87	
10/2/2017	2.53	
3/16/2018		1.8

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 7/16/2018 11:42 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50R	GWA-50R
3/28/2016	7.04	
5/25/2016	13.5	
8/1/2016	2.2	
9/26/2016	5.72	
11/11/2016	2.5	
1/30/2017	2.01	
4/3/2017	6.26	
6/12/2017	7.44	
10/2/2017	6.55	
3/16/2018		2.6

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 7/16/2018 11:42 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-10	GWC-10
3/31/2016	36.4	
5/26/2016	37.6	
8/5/2016	30.7	
9/28/2016	32.4	
11/22/2016	31.4	
2/7/2017	30.1	
4/10/2017	23.6	
6/14/2017	34.6	
10/4/2017	35.2	
3/20/2018		12 (J)

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 7/16/2018 11:42 AM View: cells_1&2_AppIII_intrawell

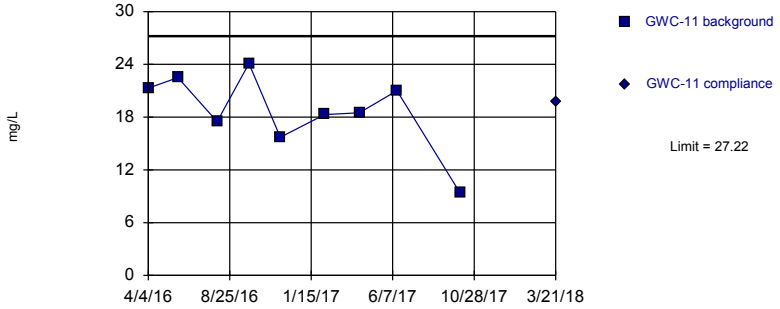
Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-10R	GWC-10R
3/31/2016	45	
5/26/2016	41.7	
8/3/2016	35.2	
9/28/2016	39.2	
11/22/2016	37.2	
2/7/2017	38.4	
4/10/2017	38.7	
6/14/2017	40.8	
10/4/2017	40.1	
3/21/2018		43.3

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=18.7, Std. Dev.=4.37, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9219, critical = 0.764. Kappa = 1.949 (c=3, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.001032.

Constituent: Calcium Analysis Run 7/16/2018 10:58 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

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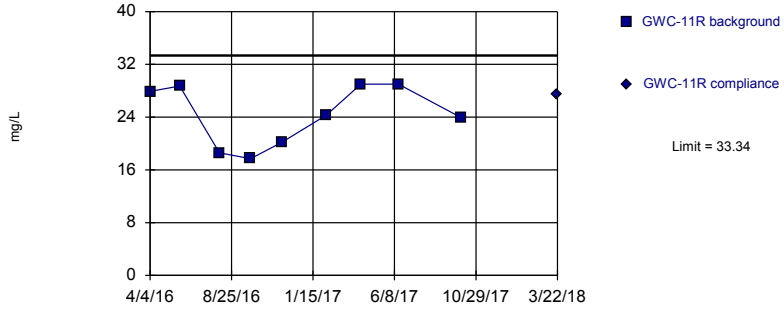
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=24.37, Std. Dev.=4.603, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8618, critical = 0.764. Kappa = 1.949 (c=3, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.001032.

Constituent: Calcium Analysis Run 7/16/2018 10:58 AM View: cells_1&2_AppIII_intrawell

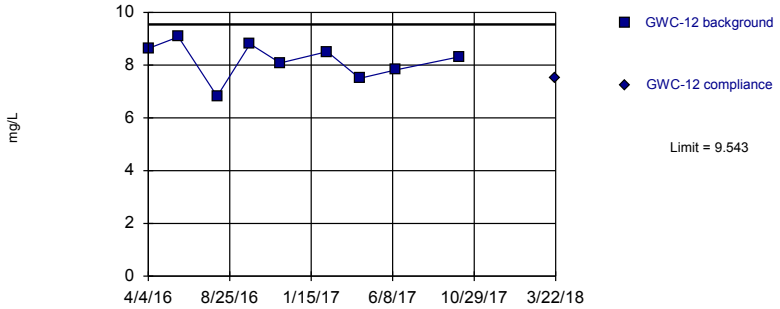
Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

Sanitas™ v.9.5.32 Sanitas software licensed to AMEC. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=8.172, Std. Dev.=0.7034, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9579, critical = 0.764. Kappa = 1.949 (c=3, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.001032.

Constituent: Calcium Analysis Run 7/16/2018 10:58 AM View: cells_1&2_AppIII_intrawell

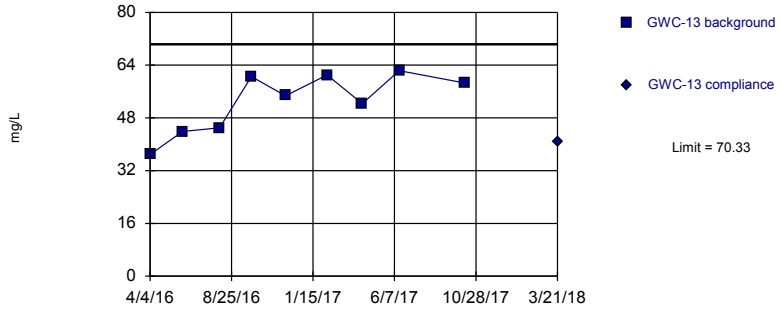
Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

Sanitas™ v.9.5.32 Sanitas software licensed to AMEC. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=52.8, Std. Dev.=8.994, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9021, critical = 0.764. Kappa = 1.949 (c=3, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.001032.

Constituent: Calcium Analysis Run 7/16/2018 10:58 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 7/16/2018 11:42 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-11	GWC-11
4/4/2016	21.3	
5/26/2016	22.5	
8/3/2016	17.5	
9/28/2016	24.1	
11/22/2016	15.7	
2/8/2017	18.3	
4/10/2017	18.5	
6/15/2017	21	
10/4/2017	9.4	
3/21/2018		19.7 (J)

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 7/16/2018 11:42 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-11R	GWC-11R
4/4/2016	27.9	
5/26/2016	28.7	
8/4/2016	18.6	
9/28/2016	17.7	
11/22/2016	20.2	
2/8/2017	24.3	
4/10/2017	29	
6/15/2017	29	
10/4/2017	23.9	
3/22/2018		27.5

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 7/16/2018 11:42 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-12	GWC-12
4/4/2016	8.63	
5/27/2016	9.07	
8/3/2016	6.82	
9/30/2016	8.8	
11/22/2016	8.08	
2/13/2017	8.51	
4/11/2017	7.5	
6/14/2017	7.82	
10/4/2017	8.32	
3/22/2018		7.5

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 7/16/2018 11:42 AM View: cells_1&2_AppIII_intrawell

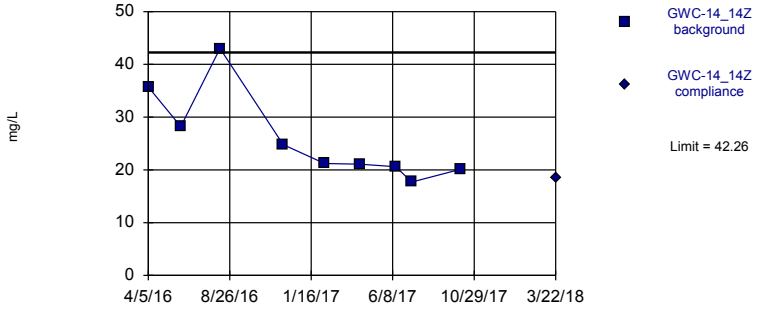
Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-13	GWC-13
4/4/2016	36.9	
5/31/2016	43.9	
8/4/2016	45	
9/29/2016	60.5	
11/28/2016	54.7	
2/9/2017	61	
4/12/2017	52.3	
6/16/2017	62.3	
10/9/2017	58.6	
3/21/2018		40.9

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=25.82, Std. Dev.=8.434, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8359, critical = 0.764. Kappa = 1.949 (c=3, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.001032.

Constituent: Calcium Analysis Run 7/16/2018 10:58 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

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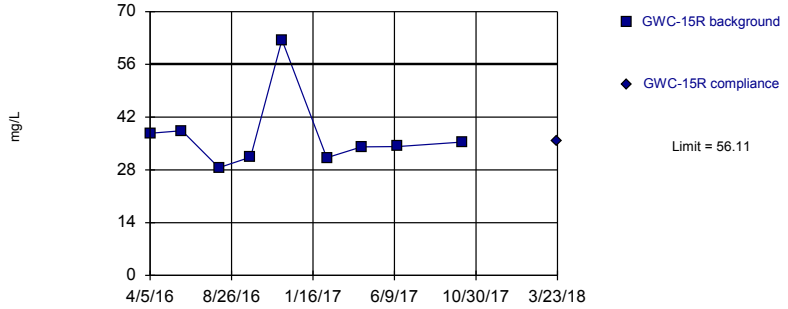
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=3.587, Std. Dev.=0.226, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.788, critical = 0.764. Kappa = 1.949 (c=3, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.001032.

Constituent: Calcium Analysis Run 7/16/2018 10:58 AM View: cells_1&2_AppIII_intrawell

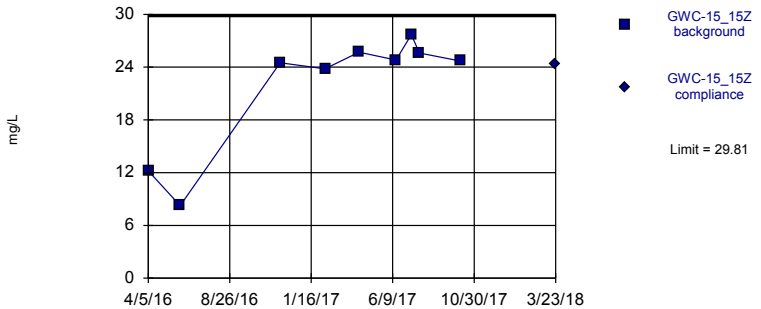
Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

Sanitas™ v.9.5.32 Sanitas software licensed to AMEC. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube transformation): Mean=12877, Std. Dev.=6986, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8121, critical = 0.764. Kappa = 1.949 (c=3, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.001032.

Constituent: Calcium Analysis Run 7/16/2018 10:58 AM View: cells_1&2_AppIII_intrawell

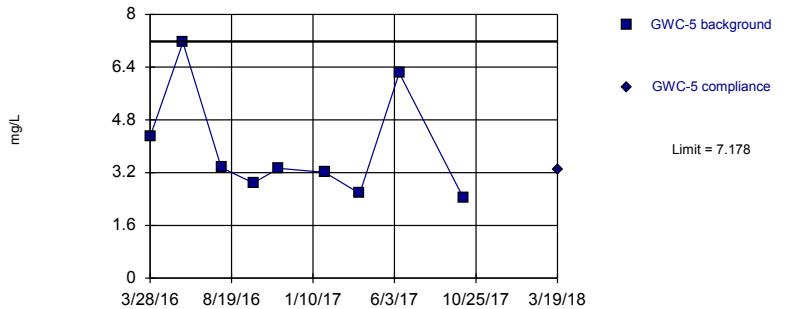
Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

Sanitas™ v.9.5.32 Sanitas software licensed to AMEC. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=3.94, Std. Dev.=1.661, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8148, critical = 0.764. Kappa = 1.949 (c=3, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.001032.

Constituent: Calcium Analysis Run 7/16/2018 10:58 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 7/16/2018 11:42 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-14_14Z	GWC-14_14Z
4/5/2016	35.7	
6/1/2016	28.2	
8/9/2016	43	
11/28/2016	24.8	
2/9/2017	21.2	
4/11/2017	21.1	
6/14/2017	20.6	
7/12/2017	17.7	
10/5/2017	20.1	
3/22/2018		18.6 (J)

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 7/16/2018 11:42 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-15R	GWC-15R
4/5/2016	37.7	
5/31/2016	38.4	
8/4/2016	28.6	
9/29/2016	31.4	
11/23/2016	62.5	
2/10/2017	31.2	
4/12/2017	34.1	
6/15/2017	34.2	
10/6/2017	35.4	
3/23/2018		35.6

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 7/16/2018 11:42 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-15_15Z	GWC-15_15Z
4/5/2016	12.2	
5/31/2016	8.24	
11/23/2016	24.5	
2/10/2017	23.8	
4/11/2017	25.7	
6/15/2017	24.8	
7/12/2017	27.7	
7/26/2017	25.6	
10/6/2017	24.7	
3/23/2018		24.3 (J)

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 7/16/2018 11:42 AM View: cells_1&2_AppIII_intrawell

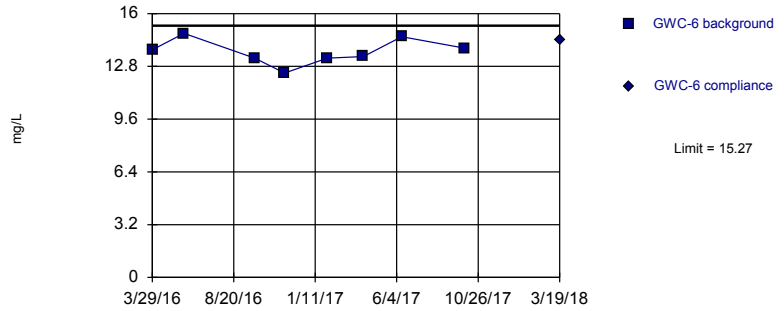
Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-5	GWC-5
3/28/2016	4.29	
5/25/2016	7.15	
8/1/2016	3.35	
9/27/2016	2.89	
11/11/2016	3.33	
1/31/2017	3.21	
4/3/2017	2.57	
6/12/2017	6.22	
10/3/2017	2.45	
3/19/2018		3.3

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=13.69, Std. Dev.=0.7717, n=8. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9507, critical = 0.749. Kappa = 2.055 (c=3, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.001032.

Constituent: Calcium Analysis Run 7/16/2018 10:59 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

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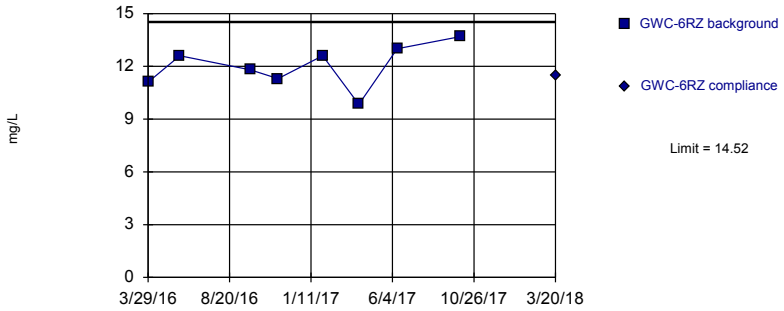
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=11.99, Std. Dev.=1.231, n=8. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9699, critical = 0.749. Kappa = 2.055 (c=3, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.001032.

Constituent: Calcium Analysis Run 7/16/2018 10:59 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

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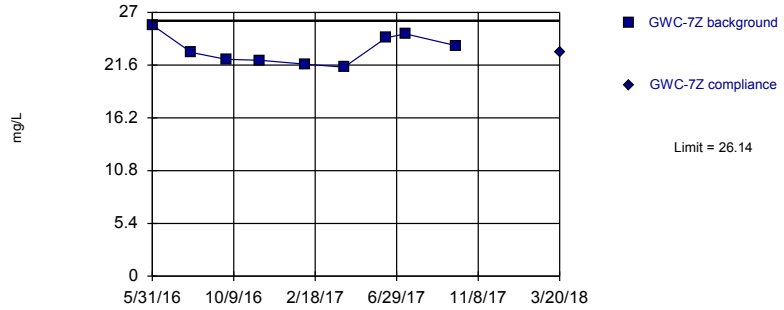
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=23.2, Std. Dev.=1.508, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9347, critical = 0.764. Kappa = 1.949 (c=3, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.001032.

Constituent: Calcium Analysis Run 7/16/2018 10:59 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

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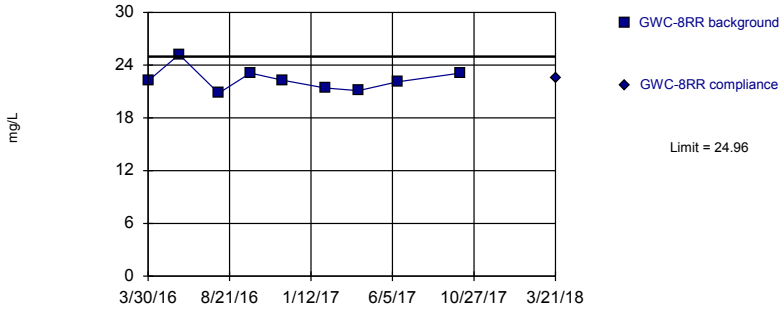
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=22.37, Std. Dev.=1.332, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9098, critical = 0.764. Kappa = 1.949 (c=3, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.001032.

Constituent: Calcium Analysis Run 7/16/2018 10:59 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 7/16/2018 11:42 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-6	GWC-6
3/29/2016	13.8	
5/24/2016	14.8	
9/26/2016	13.3	
11/18/2016	12.4	
2/1/2017	13.3	
4/6/2017	13.4	
6/13/2017	14.6	
10/3/2017	13.9	
3/19/2018		14.4 (J)

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 7/16/2018 11:42 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-6RZ	GWC-6RZ
3/29/2016	11.1	
5/24/2016	12.6	
9/26/2016	11.8	
11/14/2016	11.3	
2/1/2017	12.6	
4/6/2017	9.84	
6/13/2017	13	
10/3/2017	13.7	
3/20/2018		11.5 (J)

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 7/16/2018 11:42 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-7Z	GWC-7Z
5/31/2016	25.7	
8/2/2016	22.9	
9/27/2016	22.2	
11/21/2016	22.1	
2/1/2017	21.7	
4/6/2017	21.4	
6/13/2017	24.4	
7/14/2017	24.8	
10/3/2017	23.6	
3/20/2018		22.9 (J)

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 7/16/2018 11:42 AM View: cells_1&2_AppIII_intrawell

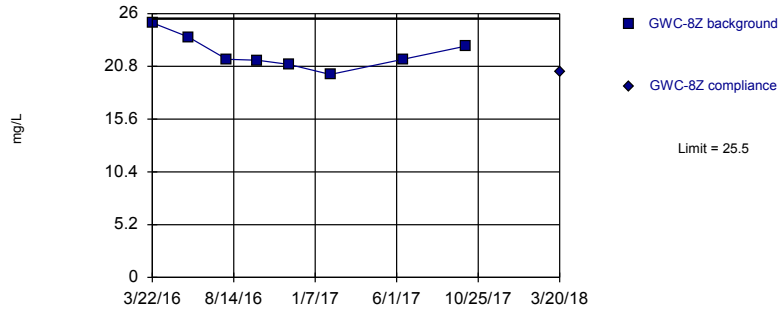
Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-8RR	GWC-8RR
3/30/2016	22.2	
5/24/2016	25.2	
8/2/2016	20.8	
9/27/2016	23.1	
11/22/2016	22.3	
2/6/2017	21.4	
4/6/2017	21.1	
6/14/2017	22.1	
10/4/2017	23.1	
3/21/2018		22.5 (J)

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=22.13, Std. Dev.=1.642, n=8. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9278, critical = 0.749. Kappa = 2.055 (c=3, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.001032.

Constituent: Calcium Analysis Run 7/16/2018 10:59 AM View: cells_1&2_AppIII_intrawell

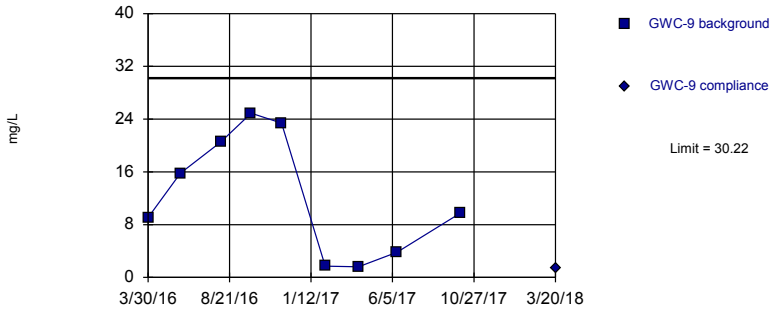
Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

Sanitas™ v.9.5.32 Sanitas software licensed to AMEC. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=12.28, Std. Dev.=9.2, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9005, critical = 0.764. Kappa = 1.949 (c=3, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.001032.

Constituent: Calcium Analysis Run 7/16/2018 10:59 AM View: cells_1&2_AppIII_intrawell

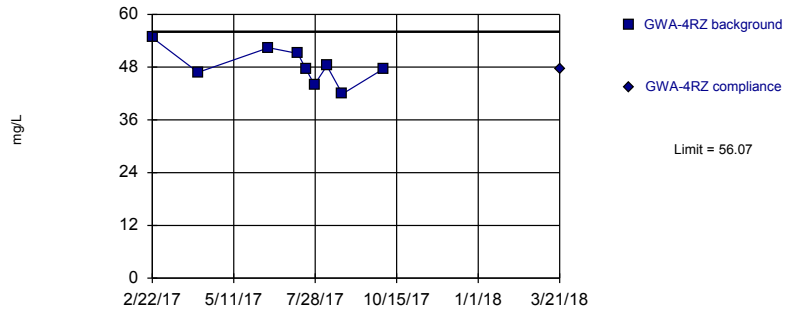
Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

Sanitas™ v.9.5.32 Sanitas software licensed to AMEC. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=48.27, Std. Dev.=4.005, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9754, critical = 0.764. Kappa = 1.949 (c=3, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.001032.

Constituent: Calcium Analysis Run 7/16/2018 10:59 AM View: cells_1&2_AppIII_intrawell

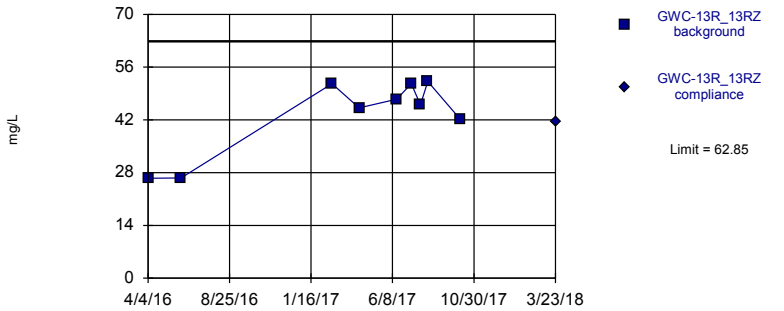
Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

Sanitas™ v.9.5.32 Sanitas software licensed to AMEC. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=43.27, Std. Dev.=10.05, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7934, critical = 0.764. Kappa = 1.949 (c=3, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.001032.

Constituent: Calcium Analysis Run 7/16/2018 10:59 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 7/16/2018 11:42 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-8Z	GWC-8Z
3/22/2016	25.1	
5/25/2016	23.7	
8/2/2016	21.5	
9/26/2016	21.4	
11/21/2016	21	
2/3/2017	20	
6/13/2017	21.5	
10/3/2017	22.8	
3/20/2018		20.3 (J)

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 7/16/2018 11:42 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-9	GWC-9
3/30/2016	9.07	
5/26/2016	15.8	
8/5/2016	20.5	
9/28/2016	24.9	
11/21/2016	23.4	
2/6/2017	1.7	
4/6/2017	1.6	
6/13/2017	3.82	
10/3/2017	9.77	
3/20/2018		1.4

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 7/16/2018 11:42 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-4RZ	GWA-4RZ
2/22/2017	54.7	
4/7/2017	46.8	
6/14/2017	52.4	
7/12/2017	51.1	
7/20/2017	47.5	
7/28/2017	44	
8/9/2017	48.3	
8/24/2017	41.9	
10/3/2017	47.7	
3/21/2018		47.5

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 7/16/2018 11:42 AM View: cells_1&2_AppIII_intrawell

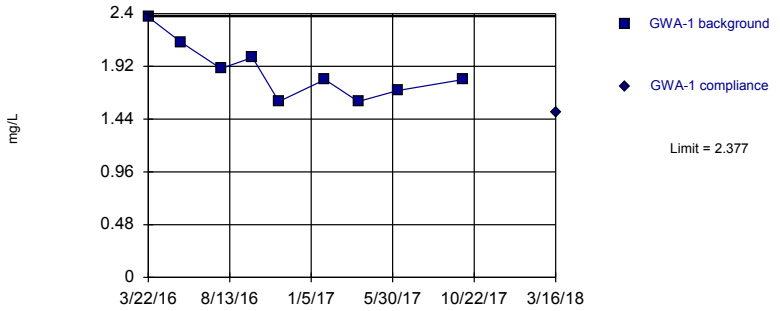
Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-13R_13RZ	GWC-13R_13RZ
4/4/2016	26.5	
6/1/2016	26.6	
2/22/2017	51.6	
4/11/2017	45.2	
6/16/2017	47.5	
7/12/2017	51.6	
7/28/2017	46	
8/10/2017	52.2	
10/6/2017	42.2	
3/23/2018		41.4

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=1.879, Std. Dev.=0.2557, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9273, critical = 0.764. Kappa = 1.949 (c=3, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.001032.

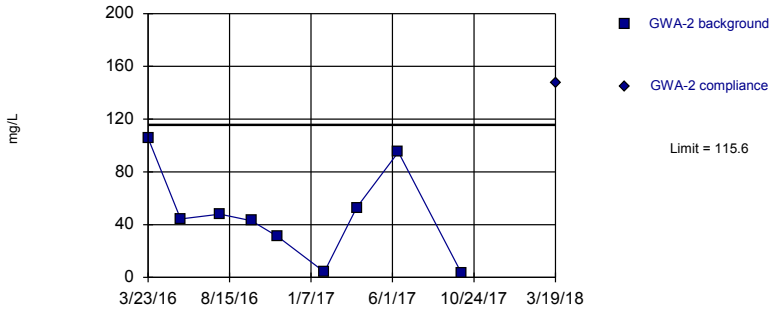
Constituent: Sulfate Analysis Run 7/16/2018 10:59 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=47.51, Std. Dev.=34.95, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9114, critical = 0.764. Kappa = 1.949 (c=3, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.001032.

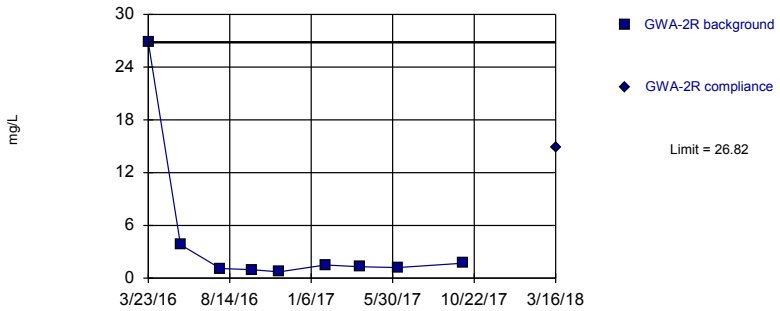
Constituent: Sulfate Analysis Run 7/16/2018 11:00 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

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 9 background values. Well-constituent pair annual alpha = 0.009329. Individual comparison alpha = 0.004675 (1 of 3). Insufficient data to test for seasonality: data were not deseasonalized.

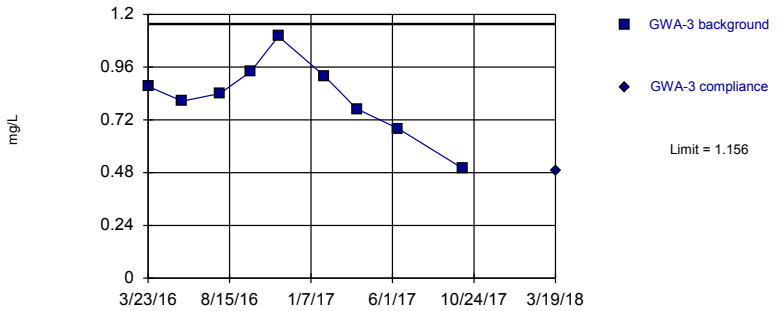
Constituent: Sulfate Analysis Run 7/16/2018 11:00 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.8253, Std. Dev.=0.1697, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9736, critical = 0.764. Kappa = 1.949 (c=3, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.001032.

Constituent: Sulfate Analysis Run 7/16/2018 11:00 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 7/16/2018 11:42 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-1	GWA-1
3/22/2016	2.3685	
5/19/2016	2.14	
7/29/2016	1.9	
9/23/2016	2	
11/9/2016	1.6	
1/30/2017	1.8	
3/30/2017	1.6	
6/9/2017	1.7	
10/2/2017	1.8	
3/16/2018		1.5

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 7/16/2018 11:42 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-2	GWA-2
3/23/2016	105.552	
5/20/2016	44.3	
7/29/2016	48	
9/23/2016	43	
11/9/2016	31	
1/31/2017	4.2	
3/30/2017	53	
6/12/2017	95	
10/2/2017	3.5	
3/19/2018		147

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 7/16/2018 11:42 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-2R	GWA-2R
3/23/2016	26.8249	
5/19/2016	3.81	
7/29/2016	1.1	
9/22/2016	0.96 (J)	
11/10/2016	0.72 (J)	
1/31/2017	1.5	
4/3/2017	1.3	
6/9/2017	1.2	
10/2/2017	1.7	
3/16/2018		14.8 (J)

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 7/16/2018 11:42 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-3	GWA-3
3/23/2016	0.8724 (J)	
5/23/2016	0.805 (J)	
7/29/2016	0.84 (J)	
9/22/2016	0.94 (J)	
11/10/2016	1.1	
1/31/2017	0.92 (J)	
3/30/2017	0.77 (J)	
6/12/2017	0.68 (J)	
10/4/2017	0.5 (J)	
3/19/2018		0.49 (J)

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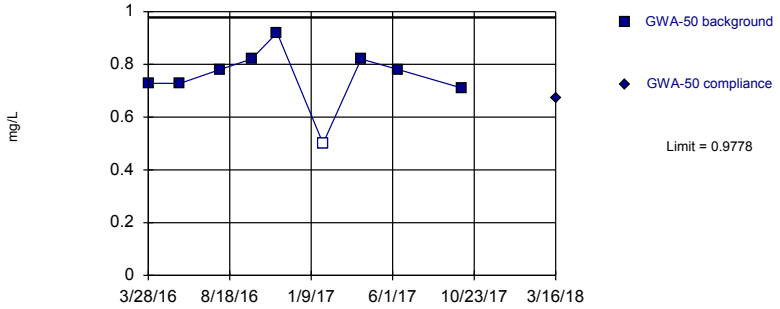
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.754, Std. Dev.=0.1148, n=9, 11.11% NDs. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8886, critical = 0.764. Kappa = 1.949 (c=3, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.001032.

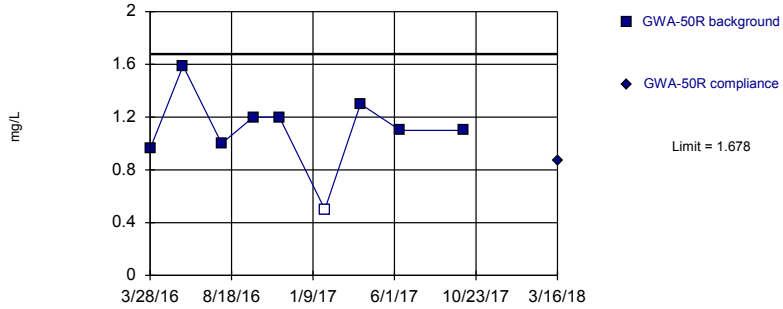
Constituent: Sulfate Analysis Run 7/16/2018 11:00 AM View: cells_1&2_AppIII_intrawell
Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

Sanitas™ v.9.5.32 Sanitas software licensed to AMEC. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=1.105, Std. Dev.=0.2936, n=9, 11.11% NDs. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.931, critical = 0.764. Kappa = 1.949 (c=3, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.001032.

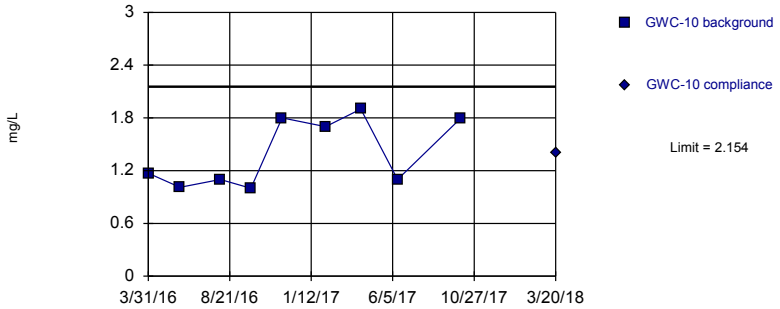
Constituent: Sulfate Analysis Run 7/16/2018 11:00 AM View: cells_1&2_AppIII_intrawell
Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

Sanitas™ v.9.5.32 Sanitas software licensed to AMEC. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=1.398, Std. Dev.=0.3881, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7992, critical = 0.764. Kappa = 1.949 (c=3, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.001032.

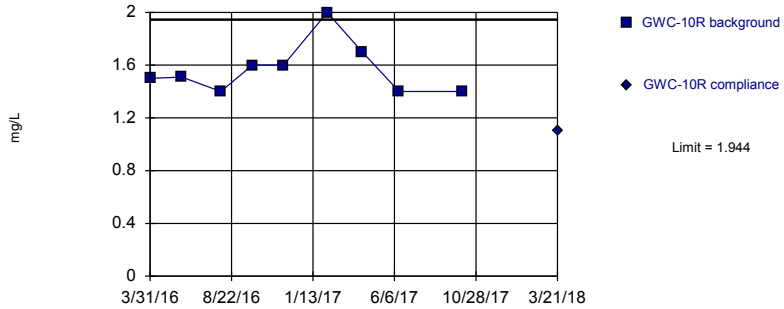
Constituent: Sulfate Analysis Run 7/16/2018 11:00 AM View: cells_1&2_AppIII_intrawell
Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

Sanitas™ v.9.5.32 Sanitas software licensed to AMEC. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=1.568, Std. Dev.=0.1932, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8354, critical = 0.764. Kappa = 1.949 (c=3, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.001032.

Constituent: Sulfate Analysis Run 7/16/2018 11:00 AM View: cells_1&2_AppIII_intrawell
Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 7/16/2018 11:42 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50	GWA-50
3/28/2016	0.7283 (J)	
5/23/2016	0.728 (J)	
8/1/2016	0.78 (J)	
9/26/2016	0.82 (J)	
11/10/2016	0.92 (J)	
1/30/2017	<1 (*)	
4/7/2017	0.82 (J)	
6/12/2017	0.78 (J)	
10/2/2017	0.71 (J)	
3/16/2018		0.67 (J)

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 7/16/2018 11:42 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50R	GWA-50R
3/28/2016	0.9594 (J)	
5/25/2016	1.59	
8/1/2016	1	
9/26/2016	1.2	
11/11/2016	1.2	
1/30/2017	<1 (*)	
4/3/2017	1.3	
6/12/2017	1.1	
10/2/2017	1.1	
3/16/2018		0.87 (J)

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 7/16/2018 11:42 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-10	GWC-10
3/31/2016	1.17	
5/26/2016	1.01	
8/5/2016	1.1	
9/28/2016	1	
11/22/2016	1.8	
2/7/2017	1.7	
4/10/2017	1.9	
6/14/2017	1.1	
10/4/2017	1.8	
3/20/2018		1.4

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 7/16/2018 11:42 AM View: cells_1&2_AppIII_intrawell

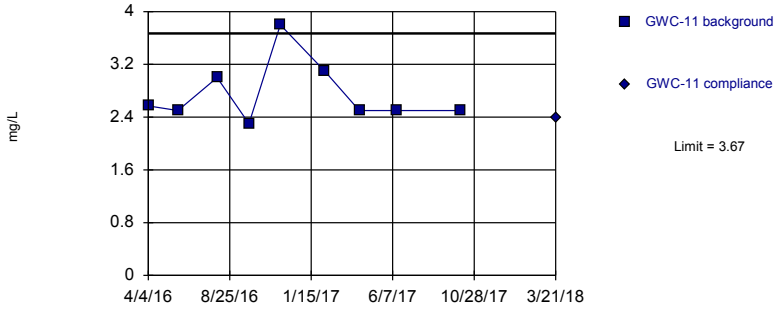
Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-10R	GWC-10R
3/31/2016	1.5	
5/26/2016	1.51	
8/3/2016	1.4	
9/28/2016	1.6	
11/22/2016	1.6	
2/7/2017	2	
4/10/2017	1.7	
6/14/2017	1.4	
10/4/2017	1.4	
3/21/2018		1.1

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=2.752, Std. Dev.=0.4707, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.79, critical = 0.764. Kappa = 1.949 (c=3, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.001032.

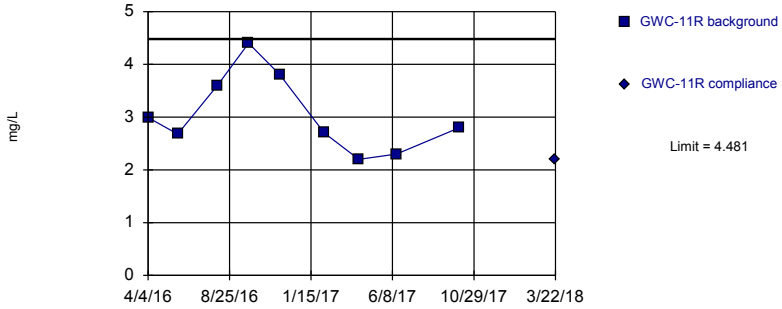
Constituent: Sulfate Analysis Run 7/16/2018 11:00 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=3.052, Std. Dev.=0.733, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9225, critical = 0.764. Kappa = 1.949 (c=3, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.001032.

Constituent: Sulfate Analysis Run 7/16/2018 11:01 AM View: cells_1&2_AppIII_intrawell

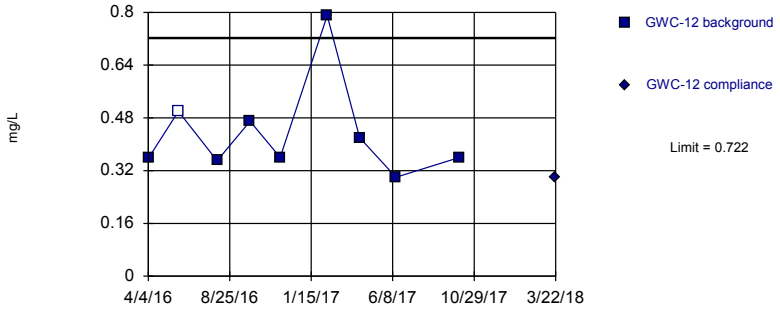
Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.4342, Std. Dev.=0.1477, n=9, 11.11% NDs. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7643, critical = 0.764. Kappa = 1.949 (c=3, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.001032.

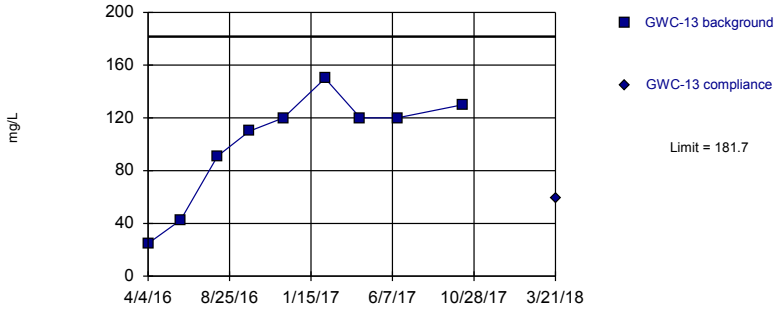
Constituent: Sulfate Analysis Run 7/16/2018 11:01 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=100.9, Std. Dev.=41.43, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8616, critical = 0.764. Kappa = 1.949 (c=3, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.001032.

Constituent: Sulfate Analysis Run 7/16/2018 11:01 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 7/16/2018 11:43 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-11	GWC-11
4/4/2016	2.57	
5/26/2016	2.5	
8/3/2016	3	
9/28/2016	2.3	
11/22/2016	3.8	
2/8/2017	3.1	
4/10/2017	2.5	
6/15/2017	2.5	
10/4/2017	2.5	
3/21/2018		2.4

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 7/16/2018 11:43 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-11R	GWC-11R
4/4/2016	2.99	
5/26/2016	2.68	
8/4/2016	3.6	
9/28/2016	4.4	
11/22/2016	3.8	
2/8/2017	2.7	
4/10/2017	2.2	
6/15/2017	2.3	
10/4/2017	2.8	
3/22/2018		2.2

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 7/16/2018 11:43 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-12	GWC-12
4/4/2016	0.3574 (J)	
5/27/2016	<1	
8/3/2016	0.35 (J)	
9/30/2016	0.47 (J)	
11/22/2016	0.36 (J)	
2/13/2017	0.79 (J)	
4/11/2017	0.42 (J)	
6/14/2017	0.3 (J)	
10/4/2017	0.36 (J)	
3/22/2018		0.3 (J)

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 7/16/2018 11:43 AM View: cells_1&2_AppIII_intrawell

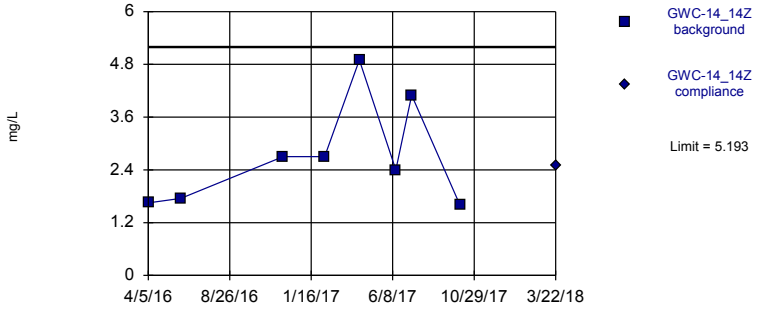
Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-13	GWC-13
4/4/2016	24.8	
5/31/2016	42.5	
8/4/2016	91	
9/29/2016	110	
11/28/2016	120	
2/9/2017	150	
4/12/2017	120	
6/16/2017	120	
10/9/2017	130	
3/21/2018		59.1

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=2.725, Std. Dev.=1.201, n=8. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8644, critical = 0.749. Kappa = 2.055 (c=3, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.001032.

Constituent: Sulfate Analysis Run 7/16/2018 11:01 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

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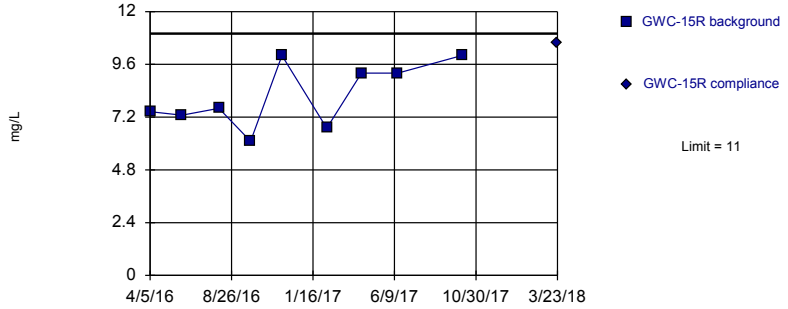
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=8.171, Std. Dev.=1.453, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9055, critical = 0.764. Kappa = 1.949 (c=3, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.001032.

Constituent: Sulfate Analysis Run 7/16/2018 11:01 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

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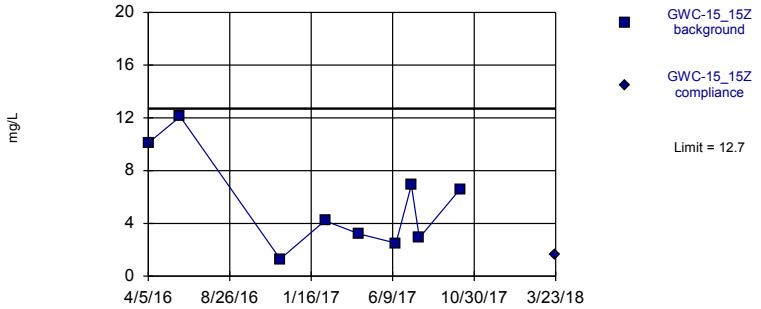
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=5.533, Std. Dev.=3.679, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9121, critical = 0.764. Kappa = 1.949 (c=3, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.001032.

Constituent: Sulfate Analysis Run 7/16/2018 11:01 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

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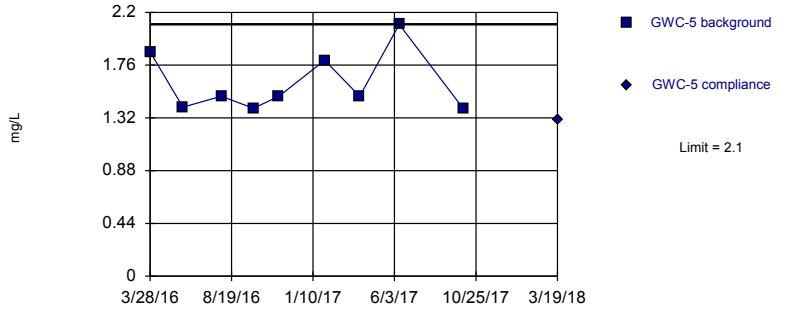
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=1.609, Std. Dev.=0.2521, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8101, critical = 0.764. Kappa = 1.949 (c=3, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.001032.

Constituent: Sulfate Analysis Run 7/16/2018 11:01 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 7/16/2018 11:43 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-14_14Z	GWC-14_14Z
4/5/2016	1.65	
6/1/2016	1.75	
11/28/2016	2.7	
2/9/2017	2.7	
4/11/2017	4.9	
6/14/2017	2.4	
7/12/2017	4.1	
10/5/2017	1.6	
3/22/2018		2.5

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 7/16/2018 11:43 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-15R	GWC-15R
4/5/2016	7.45	
5/31/2016	7.29	
8/4/2016	7.6	
9/29/2016	6.1	
11/23/2016	10	
2/10/2017	6.7	
4/12/2017	9.2	
6/15/2017	9.2	
10/6/2017	10	
3/23/2018		10.6

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 7/16/2018 11:43 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-15_15Z	GWC-15_15Z
4/5/2016	10.1	
5/31/2016	12.1	
11/23/2016	1.3	
2/10/2017	4.2	
4/11/2017	3.2	
6/15/2017	2.5	
7/12/2017	6.9	
7/26/2017	2.9	
10/6/2017	6.6	
3/23/2018		1.6

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 7/16/2018 11:43 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-5	GWC-5
3/28/2016	1.87	
5/25/2016	1.41	
8/1/2016	1.5	
9/27/2016	1.4	
11/11/2016	1.5	
1/31/2017	1.8	
4/3/2017	1.5	
6/12/2017	2.1	
10/3/2017	1.4	
3/19/2018		1.3

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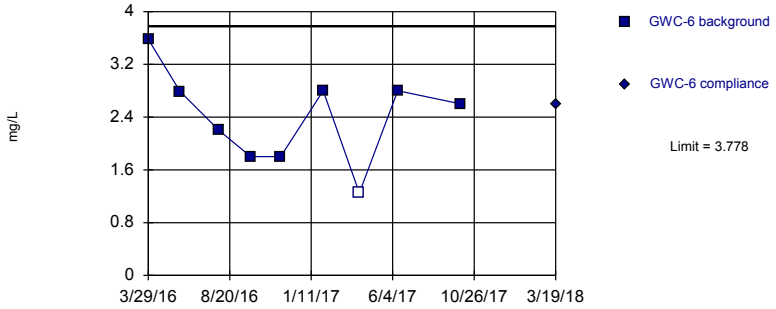
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=2.402, Std. Dev.=0.706, n=9, 11.11% NDs. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9535, critical = 0.764. Kappa = 1.949 (c=3, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.001032.

Constituent: Sulfate Analysis Run 7/16/2018 11:01 AM View: cells_1&2_AppIII_intrawell

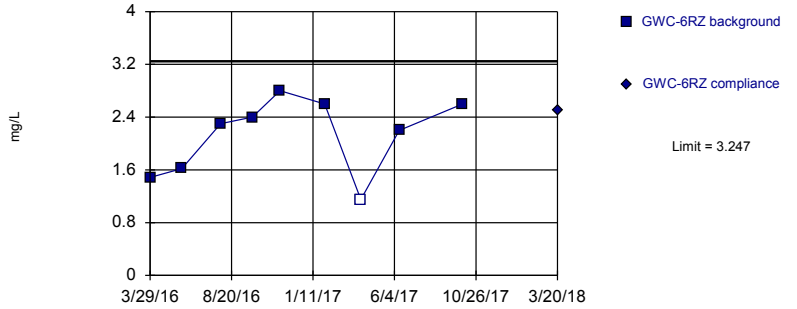
Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

Sanitas™ v.9.5.32 Sanitas software licensed to AMEC. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=2.128, Std. Dev.=0.5736, n=9, 11.11% NDs. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9073, critical = 0.764. Kappa = 1.949 (c=3, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.001032.

Constituent: Sulfate Analysis Run 7/16/2018 11:02 AM View: cells_1&2_AppIII_intrawell

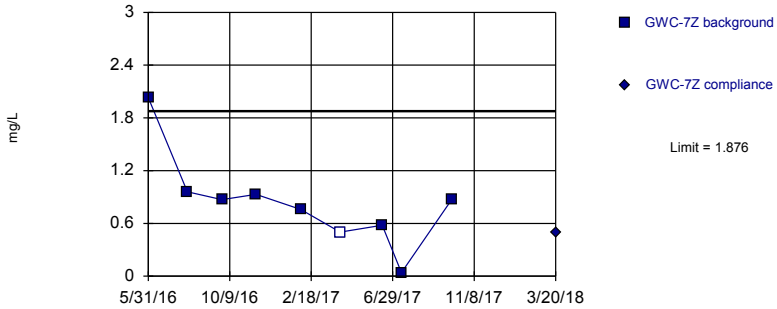
Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

Sanitas™ v.9.5.32 Sanitas software licensed to AMEC. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.8378, Std. Dev.=0.5327, n=9, 11.11% NDs. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8641, critical = 0.764. Kappa = 1.949 (c=3, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.001032.

Constituent: Sulfate Analysis Run 7/16/2018 11:02 AM View: cells_1&2_AppIII_intrawell

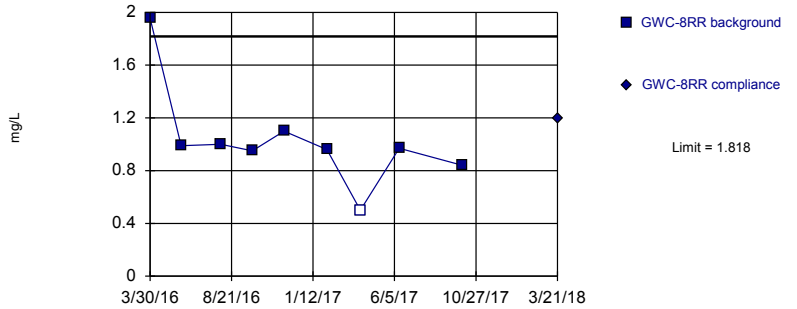
Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

Sanitas™ v.9.5.32 Sanitas software licensed to AMEC. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square root transformation): Mean=1, Std. Dev.=0.1785, n=9, 11.11% NDs. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8163, critical = 0.764. Kappa = 1.949 (c=3, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.001032.

Constituent: Sulfate Analysis Run 7/16/2018 11:02 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 7/16/2018 11:43 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-6	GWC-6
3/29/2016	3.5801	
5/24/2016	2.79	
8/1/2016	2.2	
9/26/2016	1.8	
11/18/2016	1.8	
2/1/2017	2.8	
4/6/2017	<2.5 (*)	
6/13/2017	2.8	
10/3/2017	2.6	
3/19/2018		2.6

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 7/16/2018 11:43 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-6RZ	GWC-6RZ
3/29/2016	1.4863	
5/24/2016	1.62	
8/1/2016	2.3	
9/26/2016	2.4	
11/14/2016	2.8	
2/1/2017	2.6	
4/6/2017	<2.3 (*)	
6/13/2017	2.2	
10/3/2017	2.6	
3/20/2018		2.5

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 7/16/2018 11:43 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-7Z	GWC-7Z
5/31/2016	2.03	
8/2/2016	0.96 (J)	
9/27/2016	0.87 (J)	
11/21/2016	0.93 (J)	
2/1/2017	0.76 (J)	
4/6/2017	<1 (*)	
6/13/2017	0.58 (J)	
7/14/2017	0.04 (J)	
10/3/2017	0.87 (J)	
3/20/2018		0.5 (J)

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 7/16/2018 11:43 AM View: cells_1&2_AppIII_intrawell

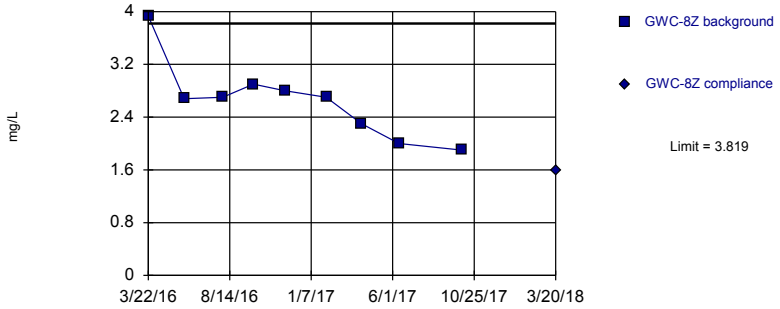
Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-8RR	GWC-8RR
3/30/2016	1.9542	
5/24/2016	0.989 (J)	
8/2/2016	1	
9/27/2016	0.95 (J)	
11/22/2016	1.1	
2/6/2017	0.96 (J)	
4/6/2017	<1 (*)	
6/14/2017	0.97 (J)	
10/4/2017	0.84 (J)	
3/21/2018		1.2

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=2.657, Std. Dev.=0.596, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8887, critical = 0.764. Kappa = 1.949 (c=3, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.001032.

Constituent: Sulfate Analysis Run 7/16/2018 11:02 AM View: cells_1&2_AppIII_intrawell

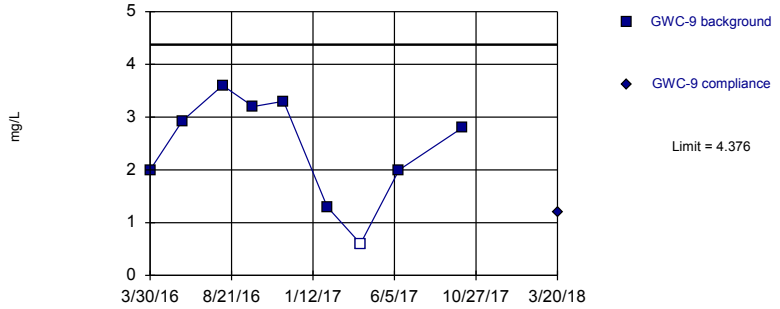
Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=2.414, Std. Dev.=1.006, n=9, 11.11% NDs. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9272, critical = 0.764. Kappa = 1.949 (c=3, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.001032.

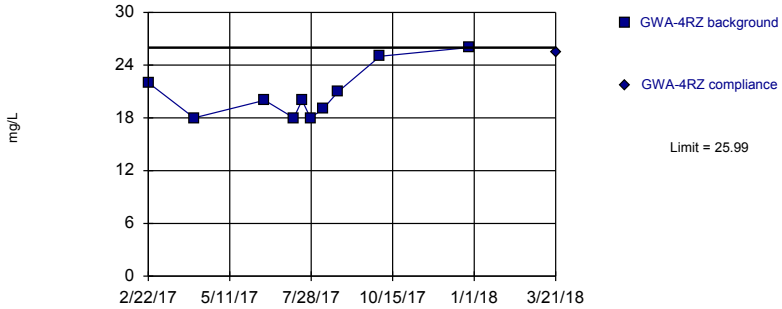
Constituent: Sulfate Analysis Run 7/16/2018 11:02 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=20.7, Std. Dev.=2.869, n=10. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8629, critical = 0.781. Kappa = 1.843 (c=3, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.001032.

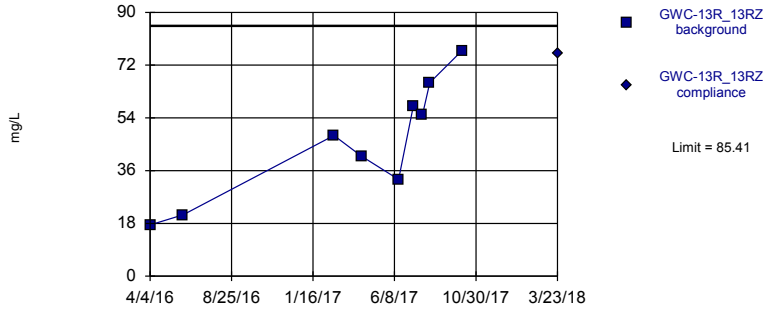
Constituent: Sulfate Analysis Run 7/16/2018 11:02 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=46.27, Std. Dev.=20.08, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9698, critical = 0.764. Kappa = 1.949 (c=3, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.001032.

Constituent: Sulfate Analysis Run 7/16/2018 11:02 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 7/16/2018 11:43 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-8Z	GWC-8Z
3/22/2016	3.9321	
5/25/2016	2.68	
8/2/2016	2.7	
9/26/2016	2.9	
11/21/2016	2.8	
2/3/2017	2.7	
4/7/2017	2.3	
6/13/2017	2	
10/3/2017	1.9	
3/20/2018		1.6

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 7/16/2018 11:43 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-9	GWC-9
3/30/2016	2	
5/26/2016	2.93	
8/5/2016	3.6	
9/28/2016	3.2	
11/21/2016	3.3	
2/6/2017	1.3	
4/6/2017	<1.2 (*)	
6/13/2017	2	
10/3/2017	2.8	
3/20/2018		1.2

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 7/16/2018 11:43 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-4RZ	GWA-4RZ
2/22/2017	22	
4/7/2017	18	
6/14/2017	20	
7/12/2017	18	
7/20/2017	20	
7/28/2017	18	
8/9/2017	19	
8/24/2017	21	
10/3/2017	25	
12/28/2017	26 (Y)	
3/21/2018		25.4

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 7/16/2018 11:43 AM View: cells_1&2_AppIII_intrawell

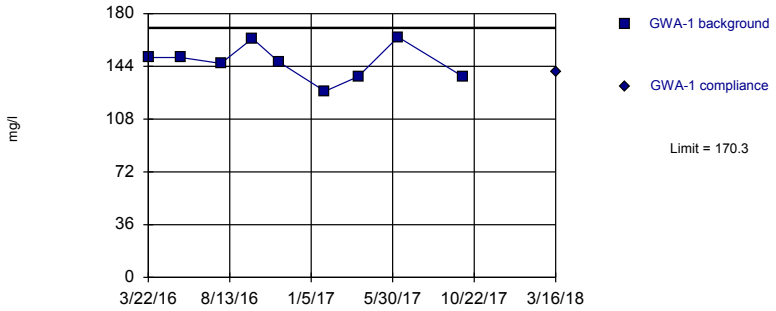
Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-13R_13RZ	GWC-13R_13RZ
4/4/2016	17.5	
6/1/2016	20.9	
2/22/2017	48	
4/11/2017	41	
6/16/2017	33	
7/12/2017	58	
7/28/2017	55	
8/10/2017	66	
10/6/2017	77	
3/23/2018		75.8

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=146.8, Std. Dev.=12.06, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9455, critical = 0.764. Kappa = 1.949 (c=3, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.001032.

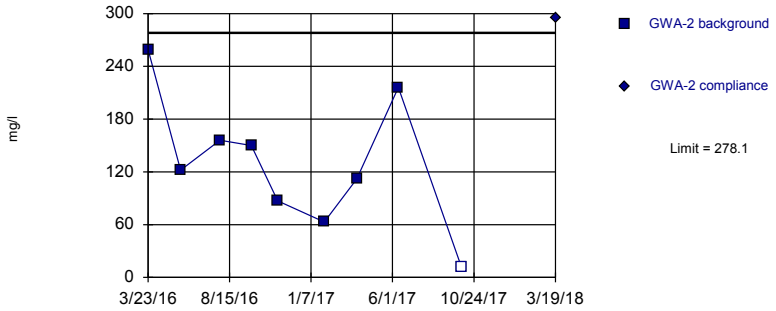
Constituent: Total Dissolved Solids Analysis Run 7/16/2018 11:02 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=130.8, Std. Dev.=75.53, n=9, 11.11% NDs. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9848, critical = 0.764. Kappa = 1.949 (c=3, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.001032.

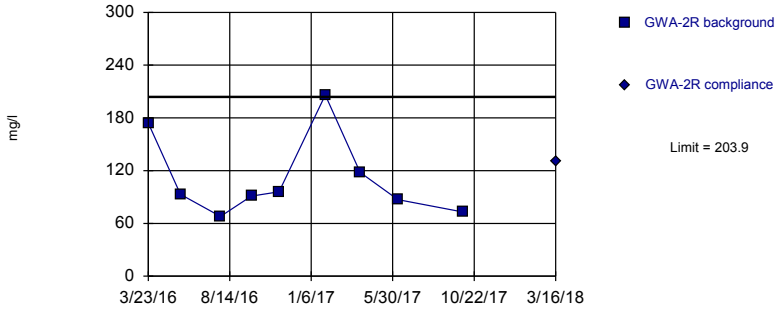
Constituent: Total Dissolved Solids Analysis Run 7/16/2018 11:03 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=111.8, Std. Dev.=47.24, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8148, critical = 0.764. Kappa = 1.949 (c=3, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.001032.

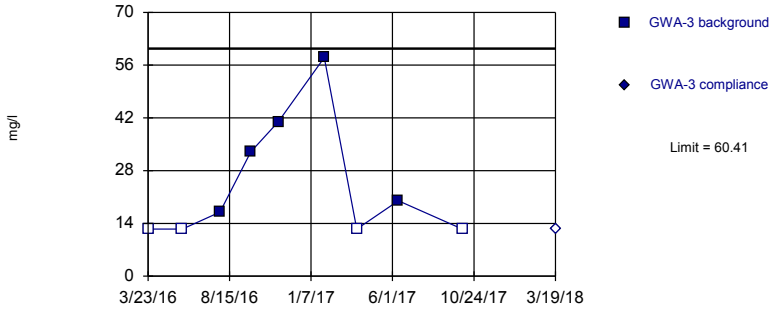
Constituent: Total Dissolved Solids Analysis Run 7/16/2018 11:03 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (after Aitchison`s Adjustment): Mean=18.78, Std. Dev.=21.36, n=9, 44.44% NDs. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7855, critical = 0.764. Kappa = 1.949 (c=3, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.001032.

Constituent: Total Dissolved Solids Analysis Run 7/16/2018 11:03 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 7/16/2018 11:43 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-1	GWA-1
3/22/2016	150	
5/19/2016	150	
7/29/2016	146	
9/23/2016	163	
11/9/2016	147	
1/30/2017	127	
3/30/2017	137	
6/9/2017	164	
10/2/2017	137	
3/16/2018		140

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 7/16/2018 11:43 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-2	GWA-2
3/23/2016	259	
5/20/2016	122	
7/29/2016	156	
9/23/2016	150	
11/9/2016	87	
1/31/2017	63	
3/30/2017	112	
6/12/2017	216	
10/2/2017	<25	
3/19/2018		295

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 7/16/2018 11:43 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-2R	GWA-2R
3/23/2016	174	
5/19/2016	93	
7/29/2016	68	
9/22/2016	91	
11/10/2016	96	
1/31/2017	206	
4/3/2017	118	
6/9/2017	87	
10/2/2017	73	
3/16/2018		130

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 7/16/2018 11:43 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-3	GWA-3
3/23/2016	<25	
5/23/2016	<25	
7/29/2016	17 (J)	
9/22/2016	33	
11/10/2016	41	
1/31/2017	58	
3/30/2017	<25	
6/12/2017	20 (J)	
10/4/2017	<25	
3/19/2018		<25

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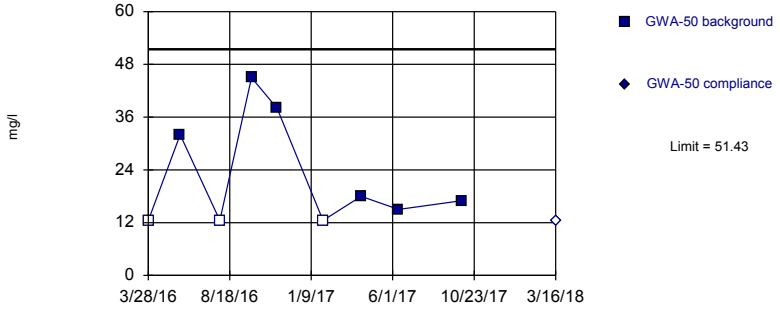
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (after Aitchison`s Adjustment): Mean=18.33, Std. Dev.=16.98, n=9, 33.33% NDs. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8003, critical = 0.764. Kappa = 1.949 (c=3, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.001032.

Constituent: Total Dissolved Solids Analysis Run 7/16/2018 11:03 AM View: cells_1&2_AppIII_intrawell
Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

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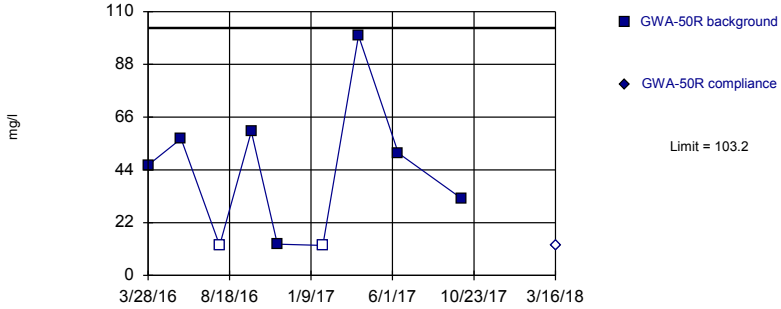
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (after Aitchison`s Adjustment): Mean=39.89, Std. Dev.=32.48, n=9, 22.22% NDs. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8963, critical = 0.764. Kappa = 1.949 (c=3, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.001032.

Constituent: Total Dissolved Solids Analysis Run 7/16/2018 11:03 AM View: cells_1&2_AppIII_intrawell
Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

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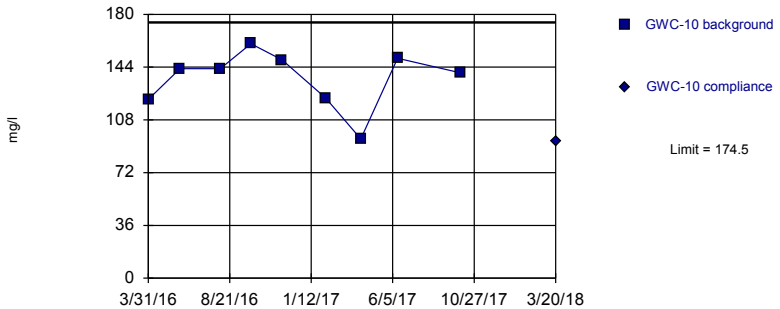
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=136.1, Std. Dev.=19.69, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8983, critical = 0.764. Kappa = 1.949 (c=3, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.001032.

Constituent: Total Dissolved Solids Analysis Run 7/16/2018 11:03 AM View: cells_1&2_AppIII_intrawell
Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

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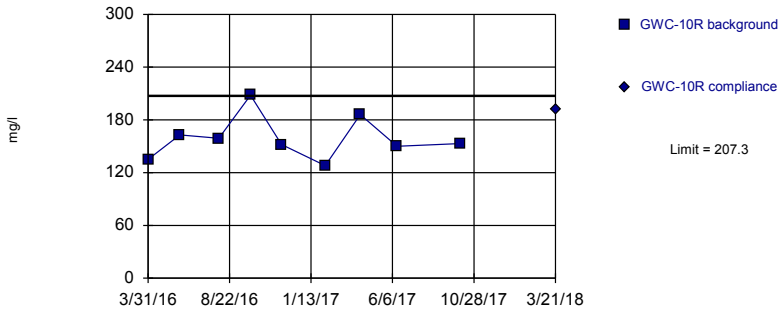
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=159.3, Std. Dev.=24.62, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9226, critical = 0.764. Kappa = 1.949 (c=3, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.001032.

Constituent: Total Dissolved Solids Analysis Run 7/16/2018 11:03 AM View: cells_1&2_AppIII_intrawell
Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 7/16/2018 11:43 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50	GWA-50
3/28/2016	<25	
5/23/2016	32	
8/1/2016	<25	
9/26/2016	45	
11/10/2016	38	
1/30/2017	<25	
4/7/2017	18 (J)	
6/12/2017	15 (J)	
10/2/2017	17 (J)	
3/16/2018		<25

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 7/16/2018 11:43 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50R	GWA-50R
3/28/2016	46	
5/25/2016	57	
8/1/2016	<25	
9/26/2016	60	
11/11/2016	13 (J)	
1/30/2017	<25	
4/3/2017	100	
6/12/2017	51	
10/2/2017	32	
3/16/2018		<25

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 7/16/2018 11:43 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-10	GWC-10
3/31/2016	122	
5/26/2016	143	
8/5/2016	143	
9/28/2016	160	
11/22/2016	149	
2/7/2017	123	
4/10/2017	95	
6/14/2017	150	
10/4/2017	140	
3/20/2018		93

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 7/16/2018 11:43 AM View: cells_1&2_AppIII_intrawell

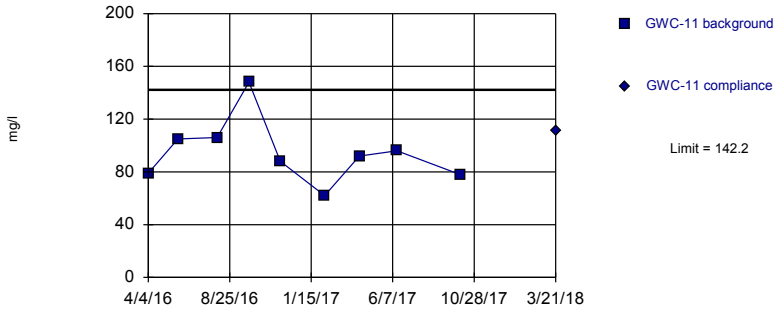
Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-10R	GWC-10R
3/31/2016	135	
5/26/2016	163	
8/3/2016	159	
9/28/2016	208	
11/22/2016	152	
2/7/2017	128	
4/10/2017	186	
6/14/2017	150	
10/4/2017	153	
3/21/2018		192

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=94.89, Std. Dev.=24.3, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9116, critical = 0.764. Kappa = 1.949 (c=3, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.001032.

Constituent: Total Dissolved Solids Analysis Run 7/16/2018 11:03 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

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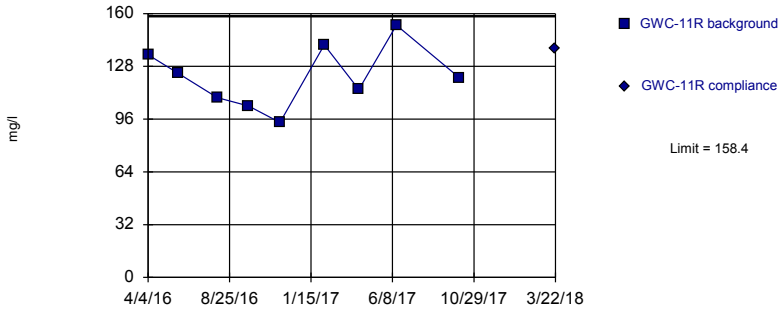
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=121.7, Std. Dev.=18.83, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.984, critical = 0.764. Kappa = 1.949 (c=3, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.001032.

Constituent: Total Dissolved Solids Analysis Run 7/16/2018 11:03 AM View: cells_1&2_AppIII_intrawell

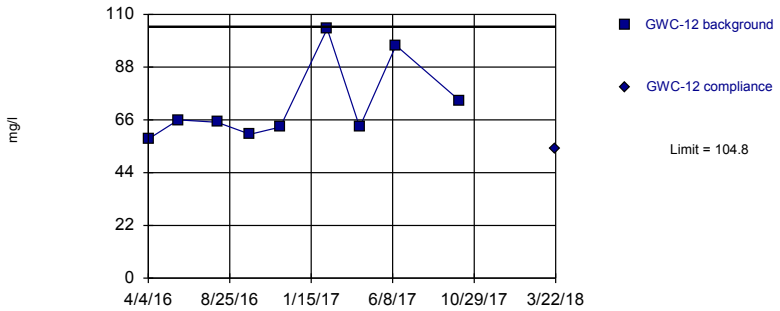
Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

Sanitas™ v.9.5.32 Sanitas software licensed to AMEC. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=72.22, Std. Dev.=16.73, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7707, critical = 0.764. Kappa = 1.949 (c=3, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.001032.

Constituent: Total Dissolved Solids Analysis Run 7/16/2018 11:04 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

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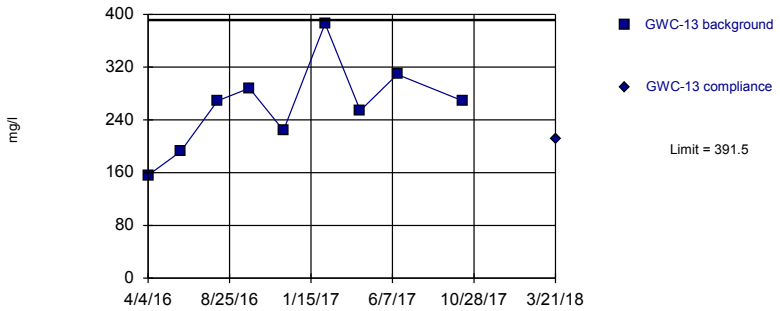
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=260.8, Std. Dev.=67.07, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9763, critical = 0.764. Kappa = 1.949 (c=3, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.001032.

Constituent: Total Dissolved Solids Analysis Run 7/16/2018 11:04 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 7/16/2018 11:43 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-11	GWC-11
4/4/2016	79	
5/26/2016	105	
8/3/2016	106	
9/28/2016	148	
11/22/2016	88	
2/8/2017	62	
4/10/2017	92	
6/15/2017	96	
10/4/2017	78	
3/21/2018		111

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 7/16/2018 11:43 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-11R	GWC-11R
4/4/2016	135	
5/26/2016	124	
8/4/2016	109	
9/28/2016	104	
11/22/2016	94	
2/8/2017	141 (J)	
4/10/2017	114	
6/15/2017	153	
10/4/2017	121	
3/22/2018		139

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 7/16/2018 11:43 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-12	GWC-12
4/4/2016	58	
5/27/2016	66	
8/3/2016	65	
9/30/2016	60	
11/22/2016	63	
2/13/2017	104 (J)	
4/11/2017	63	
6/14/2017	97	
10/4/2017	74	
3/22/2018		54

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 7/16/2018 11:43 AM View: cells_1&2_AppIII_intrawell

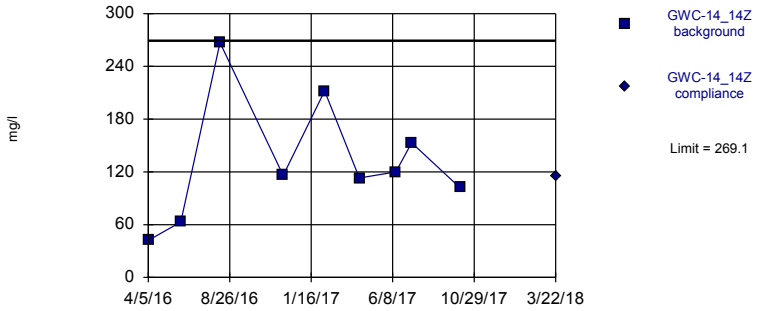
Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-13	GWC-13
4/4/2016	156	
5/31/2016	192	
8/4/2016	269	
9/29/2016	288	
11/28/2016	224	
2/9/2017	386	
4/12/2017	254	
6/16/2017	309	
10/9/2017	269	
3/21/2018		211

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=132, Std. Dev.=70.35, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9269, critical = 0.764. Kappa = 1.949 (c=3, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.001032.

Constituent: Total Dissolved Solids Analysis Run 7/16/2018 11:04 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

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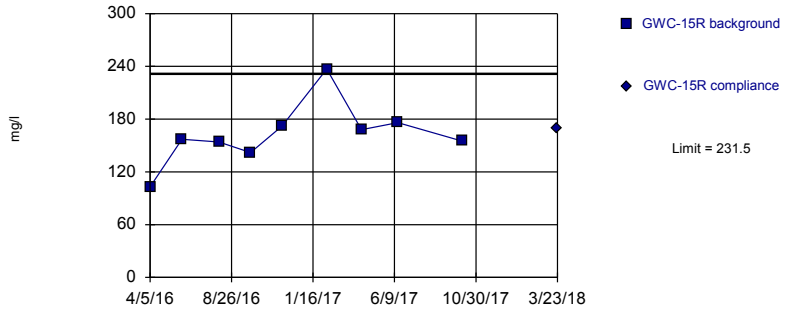
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=162.7, Std. Dev.=35.31, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8996, critical = 0.764. Kappa = 1.949 (c=3, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.001032.

Constituent: Total Dissolved Solids Analysis Run 7/16/2018 11:04 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

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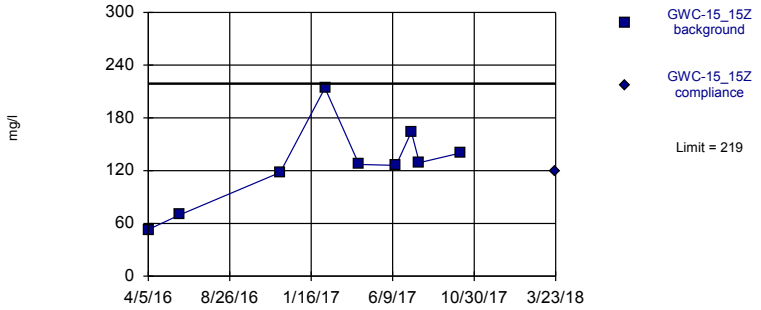
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=126.8, Std. Dev.=47.33, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9421, critical = 0.764. Kappa = 1.949 (c=3, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.001032.

Constituent: Total Dissolved Solids Analysis Run 7/16/2018 11:04 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

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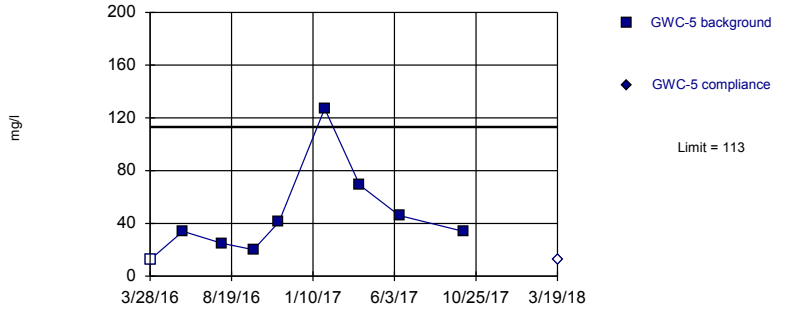
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=45.39, Std. Dev.=34.71, n=9, 11.11% NDs. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8057, critical = 0.764. Kappa = 1.949 (c=3, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.001032.

Constituent: Total Dissolved Solids Analysis Run 7/16/2018 11:04 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 7/16/2018 11:43 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-14_14Z	GWC-14_14Z
4/5/2016	42	
6/1/2016	63	
8/9/2016	267	
11/28/2016	116	
2/9/2017	212 (J)	
4/11/2017	113	
6/14/2017	120	
7/12/2017	153	
10/5/2017	102	
3/22/2018		115

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 7/16/2018 11:43 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-15R	GWC-15R
4/5/2016	103	
5/31/2016	157	
8/4/2016	154	
9/29/2016	142	
11/23/2016	172	
2/10/2017	237	
4/12/2017	168	
6/15/2017	176	
10/6/2017	155	
3/23/2018		170

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 7/16/2018 11:43 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-15_15Z	GWC-15_15Z
4/5/2016	53	
5/31/2016	70	
11/23/2016	118	
2/10/2017	214	
4/11/2017	127	
6/15/2017	126	
7/12/2017	164	
7/26/2017	129	
10/6/2017	140	
3/23/2018		119

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 7/16/2018 11:43 AM View: cells_1&2_AppIII_intrawell

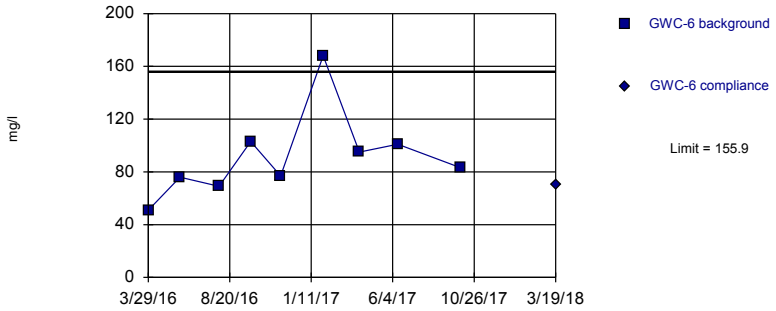
Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-5	GWC-5
3/28/2016	<25	
5/25/2016	34	
8/1/2016	25	
9/27/2016	20 (J)	
11/11/2016	41	
1/31/2017	127	
4/3/2017	69	
6/12/2017	46	
10/3/2017	34	
3/19/2018		<25

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=91.44, Std. Dev.=33.08, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8558, critical = 0.764. Kappa = 1.949 (c=3, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.001032.

Constituent: Total Dissolved Solids Analysis Run 7/16/2018 11:04 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

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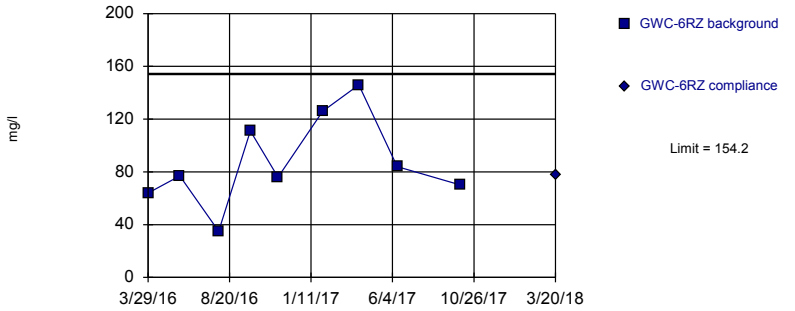
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=87.67, Std. Dev.=34.14, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9541, critical = 0.764. Kappa = 1.949 (c=3, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.001032.

Constituent: Total Dissolved Solids Analysis Run 7/16/2018 11:04 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

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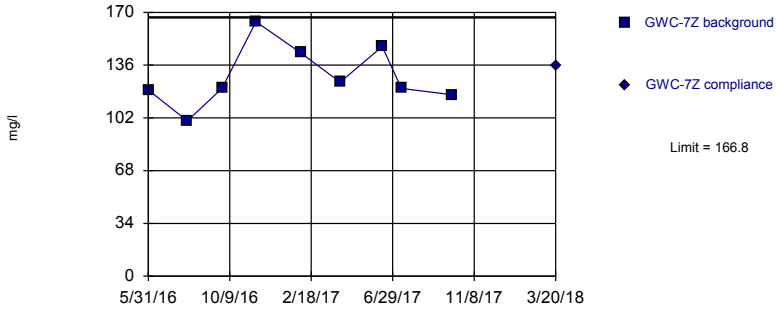
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=128.9, Std. Dev.=19.43, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.925, critical = 0.764. Kappa = 1.949 (c=3, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.001032.

Constituent: Total Dissolved Solids Analysis Run 7/16/2018 11:04 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

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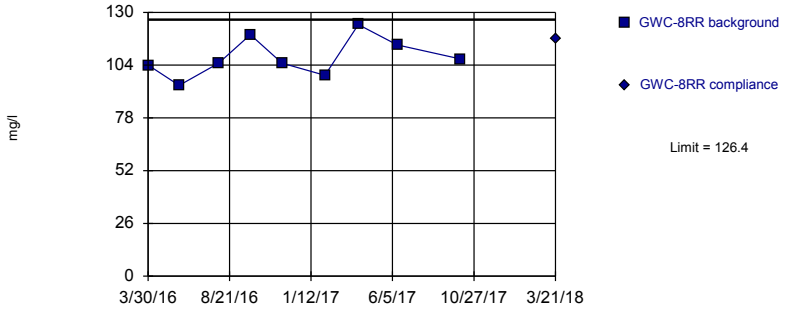
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=107.9, Std. Dev.=9.519, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9555, critical = 0.764. Kappa = 1.949 (c=3, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.001032.

Constituent: Total Dissolved Solids Analysis Run 7/16/2018 11:04 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 7/16/2018 11:43 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-6	GWC-6
3/29/2016	51	
5/24/2016	76	
8/1/2016	69	
9/26/2016	103	
11/18/2016	77	
2/1/2017	168	
4/6/2017	95	
6/13/2017	101	
10/3/2017	83	
3/19/2018		70

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 7/16/2018 11:43 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-6RZ	GWC-6RZ
3/29/2016	64	
5/24/2016	77	
8/1/2016	35	
9/26/2016	111	
11/14/2016	76	
2/1/2017	126	
4/6/2017	146	
6/13/2017	84	
10/3/2017	70	
3/20/2018		78

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 7/16/2018 11:43 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-7Z	GWC-7Z
5/31/2016	120	
8/2/2016	100	
9/27/2016	121	
11/21/2016	164	
2/1/2017	144	
4/6/2017	125	
6/13/2017	148	
7/14/2017	121	
10/3/2017	117	
3/20/2018		136

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 7/16/2018 11:43 AM View: cells_1&2_AppIII_intrawell

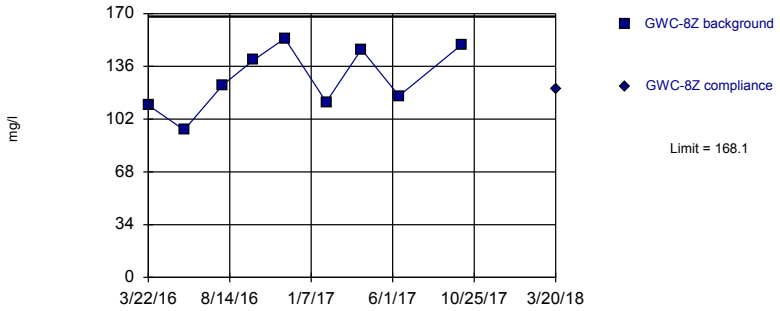
Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-8RR	GWC-8RR
3/30/2016	104	
5/24/2016	94	
8/2/2016	105	
9/27/2016	119	
11/22/2016	105	
2/6/2017	99	
4/6/2017	124	
6/14/2017	114	
10/4/2017	107	
3/21/2018		117

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=127.9, Std. Dev.=20.63, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9305, critical = 0.764. Kappa = 1.949 (c=3, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.001032.

Constituent: Total Dissolved Solids Analysis Run 7/16/2018 11:05 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

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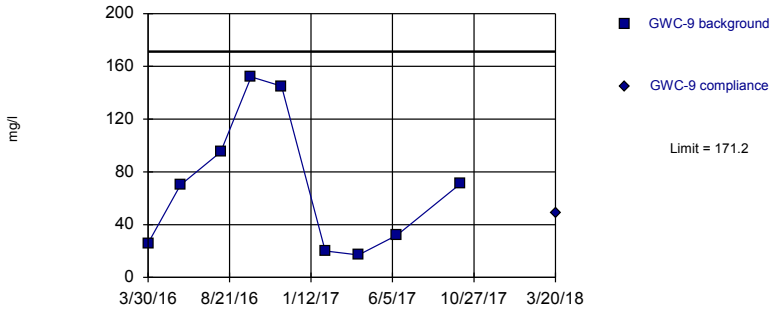
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=69.78, Std. Dev.=52.04, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.871, critical = 0.764. Kappa = 1.949 (c=3, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.001032.

Constituent: Total Dissolved Solids Analysis Run 7/16/2018 11:05 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

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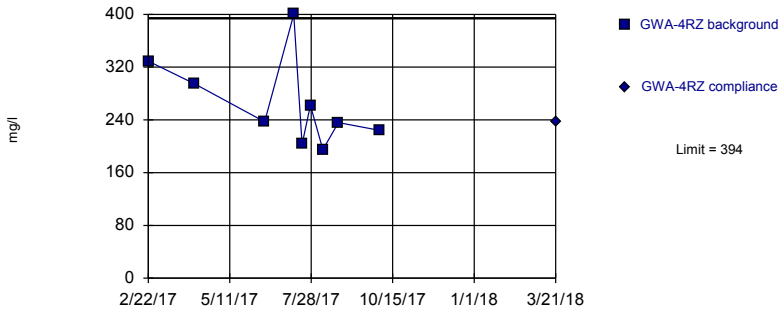
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=264.6, Std. Dev.=66.41, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8988, critical = 0.764. Kappa = 1.949 (c=3, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.001032.

Constituent: Total Dissolved Solids Analysis Run 7/16/2018 11:05 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

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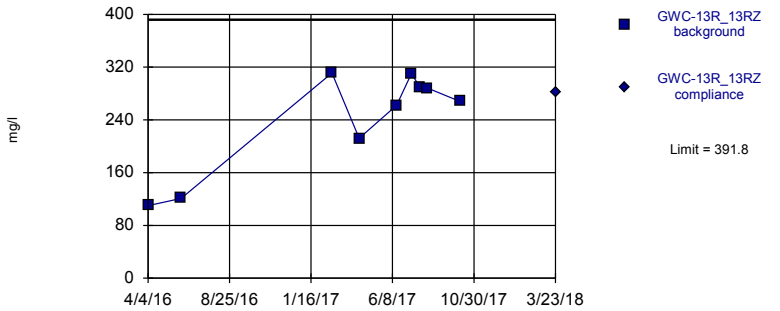
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=241.2, Std. Dev.=77.25, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8156, critical = 0.764. Kappa = 1.949 (c=3, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.001032.

Constituent: Total Dissolved Solids Analysis Run 7/16/2018 11:05 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 7/16/2018 11:43 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-8Z	GWC-8Z
3/22/2016	111	
5/25/2016	95	
8/2/2016	124	
9/26/2016	140	
11/21/2016	154	
2/3/2017	113	
4/7/2017	147	
6/13/2017	117	
10/3/2017	150	
3/20/2018		121

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 7/16/2018 11:44 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-9	GWC-9
3/30/2016	26	
5/26/2016	70	
8/5/2016	95	
9/28/2016	152	
11/21/2016	145	
2/6/2017	20 (J)	
4/6/2017	17 (J)	
6/13/2017	32	
10/3/2017	71	
3/20/2018		49

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 7/16/2018 11:44 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-4RZ	GWA-4RZ
2/22/2017	329	
4/7/2017	295	
6/14/2017	237	
7/12/2017	400	
7/20/2017	203	
7/28/2017	262	
8/9/2017	195	
8/24/2017	236	
10/3/2017	224	
3/21/2018		237

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 7/16/2018 11:44 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-13R_13RZ	GWC-13R_13RZ
4/4/2016	110	
6/1/2016	121	
2/22/2017	311	
4/11/2017	212	
6/16/2017	262	
7/12/2017	310	
7/28/2017	289	
8/10/2017	288	
10/6/2017	268	
3/23/2018		281

Interwell Prediction Limit

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR Printed 6/19/2018, 3:33 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Antimony (mg/L)	**GWC-16R**	**0.0052**	**n/a**	**3/14/2018**	**0.015**	**Yes**	**228**	**83.77**	**n/a**	**0.004274**	NP (NDs)
Antimony (mg/L)	**GWC-21R**	**0.0052**	**n/a**	**3/14/2018**	**0.0063**	**Yes**	**228**	**83.77**	**n/a**	**0.004274**	NP (NDs)

Interwell Prediction Limit

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR Printed 6/19/2018, 3:33 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Antimony (mg/L)	**GWC-16R**	**0.0052**	**n/a**	**3/14/2018**	**0.015**	**Yes**	**228**	**83.77**	**n/a**	**0.004274**	NP (NDs)
Antimony (mg/L)	GWC-17R	0.0052	n/a	3/14/2018	0.0015ND	No	228	83.77	n/a	0.004274	NP (NDs)
Antimony (mg/L)	GWC-18	0.0052	n/a	3/14/2018	0.0015ND	No	228	83.77	n/a	0.004274	NP (NDs)
Antimony (mg/L)	GWC-18R	0.0052	n/a	3/14/2018	0.0015ND	No	228	83.77	n/a	0.004274	NP (NDs)
Antimony (mg/L)	GWC-19R	0.0052	n/a	3/14/2018	0.0015ND	No	228	83.77	n/a	0.004274	NP (NDs)
Antimony (mg/L)	GWC-20R	0.0052	n/a	3/14/2018	0.0015ND	No	228	83.77	n/a	0.004274	NP (NDs)
Antimony (mg/L)	**GWC-21R**	**0.0052**	**n/a**	**3/14/2018**	**0.0063**	**Yes**	**228**	**83.77**	**n/a**	**0.004274**	NP (NDs)
Antimony (mg/L)	GWC-22R	0.0052	n/a	3/13/2018	0.0015ND	No	228	83.77	n/a	0.004274	NP (NDs)
Antimony (mg/L)	GWC-23R	0.0052	n/a	3/14/2018	0.0015ND	No	228	83.77	n/a	0.004274	NP (NDs)
Antimony (mg/L)	GWC-24R	0.0052	n/a	3/13/2018	0.0016	No	228	83.77	n/a	0.004274	NP (NDs)
Antimony (mg/L)	GWC-25R	0.0052	n/a	3/13/2018	0.00093	No	228	83.77	n/a	0.004274	NP (NDs)
Arsenic (mg/L)	GWC-16R	0.01629	n/a	3/14/2018	0.001007	No	228	81.14	n/a	0.004274	NP (NDs) Deseas
Arsenic (mg/L)	GWC-17R	0.01629	n/a	3/14/2018	0.0006265	No	228	81.14	n/a	0.004274	NP (NDs) Deseas
Arsenic (mg/L)	GWC-18	0.01629	n/a	3/14/2018	0.0006165	No	228	81.14	n/a	0.004274	NP (NDs) Deseas
Arsenic (mg/L)	GWC-18R	0.01629	n/a	3/14/2018	0.0002765	No	228	81.14	n/a	0.004274	NP (NDs) Deseas
Arsenic (mg/L)	GWC-19R	0.01629	n/a	3/14/2018	0.0004665	No	228	81.14	n/a	0.004274	NP (NDs) Deseas
Arsenic (mg/L)	GWC-20R	0.01629	n/a	3/14/2018	0.0008065	No	228	81.14	n/a	0.004274	NP (NDs) Deseas
Arsenic (mg/L)	GWC-21R	0.01629	n/a	3/14/2018	0.003007	No	228	81.14	n/a	0.004274	NP (NDs) Deseas
Arsenic (mg/L)	GWC-22R	0.01629	n/a	3/13/2018	0.0005765	No	228	81.14	n/a	0.004274	NP (NDs) Deseas
Arsenic (mg/L)	GWC-23R	0.01629	n/a	3/14/2018	0.001107	No	228	81.14	n/a	0.004274	NP (NDs) Deseas
Arsenic (mg/L)	GWC-24R	0.01629	n/a	3/13/2018	0.001207	No	228	81.14	n/a	0.004274	NP (NDs) Deseas
Arsenic (mg/L)	GWC-25R	0.01629	n/a	3/13/2018	0.0004365	No	228	81.14	n/a	0.004274	NP (NDs) Deseas
Barium (mg/L)	GWC-16R	0.07969	n/a	3/14/2018	0.036	No	228	3.07	ln(x)	0.01	Param
Barium (mg/L)	GWC-17R	0.07969	n/a	3/14/2018	0.02	No	228	3.07	ln(x)	0.01	Param
Barium (mg/L)	GWC-18	0.07969	n/a	3/14/2018	0.025	No	228	3.07	ln(x)	0.01	Param
Barium (mg/L)	GWC-18R	0.07969	n/a	3/14/2018	0.014	No	228	3.07	ln(x)	0.01	Param
Barium (mg/L)	GWC-19R	0.07969	n/a	3/14/2018	0.016	No	228	3.07	ln(x)	0.01	Param
Barium (mg/L)	GWC-20R	0.07969	n/a	3/14/2018	0.03	No	228	3.07	ln(x)	0.01	Param
Barium (mg/L)	GWC-21R	0.07969	n/a	3/14/2018	0.024	No	228	3.07	ln(x)	0.01	Param
Barium (mg/L)	GWC-22R	0.07969	n/a	3/13/2018	0.028	No	228	3.07	ln(x)	0.01	Param
Barium (mg/L)	GWC-23R	0.07969	n/a	3/14/2018	0.024	No	228	3.07	ln(x)	0.01	Param
Barium (mg/L)	GWC-24R	0.07969	n/a	3/13/2018	0.031	No	228	3.07	ln(x)	0.01	Param
Barium (mg/L)	GWC-25R	0.07969	n/a	3/13/2018	0.015	No	228	3.07	ln(x)	0.01	Param
Beryllium (mg/L)	GWC-16R	0.01312	n/a	3/14/2018	0.01147...	No	228	84.21	n/a	0.004274	NP (NDs) Deseas
Beryllium (mg/L)	GWC-17R	0.01312	n/a	3/14/2018	0.01147...	No	228	84.21	n/a	0.004274	NP (NDs) Deseas
Beryllium (mg/L)	GWC-18	0.01312	n/a	3/14/2018	0.01147...	No	228	84.21	n/a	0.004274	NP (NDs) Deseas
Beryllium (mg/L)	GWC-18R	0.01312	n/a	3/14/2018	0.01009	No	228	84.21	n/a	0.004274	NP (NDs) Deseas
Beryllium (mg/L)	GWC-19R	0.01312	n/a	3/14/2018	0.01004	No	228	84.21	n/a	0.004274	NP (NDs) Deseas
Beryllium (mg/L)	GWC-20R	0.01312	n/a	3/14/2018	0.01147...	No	228	84.21	n/a	0.004274	NP (NDs) Deseas
Beryllium (mg/L)	GWC-21R	0.01312	n/a	3/14/2018	0.01147...	No	228	84.21	n/a	0.004274	NP (NDs) Deseas
Beryllium (mg/L)	GWC-22R	0.01312	n/a	3/13/2018	0.01147...	No	228	84.21	n/a	0.004274	NP (NDs) Deseas
Beryllium (mg/L)	GWC-23R	0.01312	n/a	3/14/2018	0.01147...	No	228	84.21	n/a	0.004274	NP (NDs) Deseas
Beryllium (mg/L)	GWC-24R	0.01312	n/a	3/13/2018	0.01147...	No	228	84.21	n/a	0.004274	NP (NDs) Deseas
Beryllium (mg/L)	GWC-25R	0.01312	n/a	3/13/2018	0.01147...	No	228	84.21	n/a	0.004274	NP (NDs) Deseas
Cadmium (mg/L)	GWC-16R	0.0599	n/a	3/14/2018	0.01040...	No	228	83.77	n/a	0.004274	NP (NDs) Deseas
Cadmium (mg/L)	GWC-17R	0.0599	n/a	3/14/2018	0.01040...	No	228	83.77	n/a	0.004274	NP (NDs) Deseas
Cadmium (mg/L)	GWC-18	0.0599	n/a	3/14/2018	0.01040...	No	228	83.77	n/a	0.004274	NP (NDs) Deseas
Cadmium (mg/L)	GWC-18R	0.0599	n/a	3/14/2018	0.01040...	No	228	83.77	n/a	0.004274	NP (NDs) Deseas
Cadmium (mg/L)	GWC-19R	0.0599	n/a	3/14/2018	0.01040...	No	228	83.77	n/a	0.004274	NP (NDs) Deseas
Cadmium (mg/L)	GWC-20R	0.0599	n/a	3/14/2018	0.01040...	No	228	83.77	n/a	0.004274	NP (NDs) Deseas

Interwell Prediction Limit

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR Printed 6/19/2018, 3:33 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Cadmium (mg/L)	GWC-21R	0.0599	n/a	3/14/2018	0.01040...	No	228	83.77	n/a	0.004274	NP (NDs) Deseas
Cadmium (mg/L)	GWC-22R	0.0599	n/a	3/13/2018	0.01040...	No	228	83.77	n/a	0.004274	NP (NDs) Deseas
Cadmium (mg/L)	GWC-23R	0.0599	n/a	3/14/2018	0.01040...	No	228	83.77	n/a	0.004274	NP (NDs) Deseas
Cobalt (mg/L)	GWC-18R	0.00715	n/a	3/14/2018	0.005ND	No	227	77.09	n/a	0.004293	NP (NDs)
Cobalt (mg/L)	GWC-19R	0.00715	n/a	3/14/2018	0.005ND	No	227	77.09	n/a	0.004293	NP (NDs)
Cobalt (mg/L)	GWC-20R	0.00715	n/a	3/14/2018	0.005ND	No	227	77.09	n/a	0.004293	NP (NDs)
Cobalt (mg/L)	GWC-21R	0.00715	n/a	3/14/2018	0.00083	No	227	77.09	n/a	0.004293	NP (NDs)
Cobalt (mg/L)	GWC-22R	0.00715	n/a	3/13/2018	0.005ND	No	227	77.09	n/a	0.004293	NP (NDs)
Cobalt (mg/L)	GWC-23R	0.00715	n/a	3/14/2018	0.005ND	No	227	77.09	n/a	0.004293	NP (NDs)
Cobalt (mg/L)	GWC-24R	0.00715	n/a	3/13/2018	0.005ND	No	227	77.09	n/a	0.004293	NP (NDs)
Cobalt (mg/L)	GWC-25R	0.00715	n/a	3/13/2018	0.005ND	No	227	77.09	n/a	0.004293	NP (NDs)
Copper (mg/L)	GWC-16R	0.034	n/a	3/14/2018	0.0114	No	167	74.85	n/a	0.005782	NP (NDs) Deseas
Copper (mg/L)	GWC-17R	0.034	n/a	3/14/2018	0.02220...	No	167	74.85	n/a	0.005782	NP (NDs) Deseas
Copper (mg/L)	GWC-18	0.034	n/a	3/14/2018	0.02220...	No	167	74.85	n/a	0.005782	NP (NDs) Deseas
Copper (mg/L)	GWC-18R	0.034	n/a	3/14/2018	0.02220...	No	167	74.85	n/a	0.005782	NP (NDs) Deseas
Copper (mg/L)	GWC-19R	0.034	n/a	3/14/2018	0.02220...	No	167	74.85	n/a	0.005782	NP (NDs) Deseas
Copper (mg/L)	GWC-20R	0.034	n/a	3/14/2018	0.02220...	No	167	74.85	n/a	0.005782	NP (NDs) Deseas
Copper (mg/L)	GWC-21R	0.034	n/a	3/14/2018	0.02220...	No	167	74.85	n/a	0.005782	NP (NDs) Deseas
Copper (mg/L)	GWC-22R	0.034	n/a	3/13/2018	0.02220...	No	167	74.85	n/a	0.005782	NP (NDs) Deseas
Mercury (mg/L)	GWC-18	0.025	n/a	3/14/2018	0.00025ND	No	228	91.67	n/a	0.004274	NP (NDs)
Mercury (mg/L)	GWC-18R	0.025	n/a	3/14/2018	0.00025ND	No	228	91.67	n/a	0.004274	NP (NDs)
Mercury (mg/L)	GWC-19R	0.025	n/a	3/14/2018	0.00025ND	No	228	91.67	n/a	0.004274	NP (NDs)
Mercury (mg/L)	GWC-20R	0.025	n/a	3/14/2018	0.00025ND	No	228	91.67	n/a	0.004274	NP (NDs)
Mercury (mg/L)	GWC-21R	0.025	n/a	3/14/2018	0.00025ND	No	228	91.67	n/a	0.004274	NP (NDs)
Mercury (mg/L)	GWC-22R	0.025	n/a	3/13/2018	0.00025ND	No	228	91.67	n/a	0.004274	NP (NDs)
Mercury (mg/L)	GWC-23R	0.025	n/a	3/14/2018	0.00025ND	No	228	91.67	n/a	0.004274	NP (NDs)
Mercury (mg/L)	GWC-24R	0.025	n/a	3/13/2018	0.00025ND	No	228	91.67	n/a	0.004274	NP (NDs)
Mercury (mg/L)	GWC-25R	0.025	n/a	3/13/2018	0.00025ND	No	228	91.67	n/a	0.004274	NP (NDs)
Nickel (mg/L)	GWC-16R	0.03204	n/a	3/14/2018	0.01915	No	167	70.06	n/a	0.005782	NP (NDs) Deseas
Nickel (mg/L)	GWC-17R	0.03204	n/a	3/14/2018	0.01474...	No	167	70.06	n/a	0.005782	NP (NDs) Deseas
Nickel (mg/L)	GWC-18	0.03204	n/a	3/14/2018	0.01474...	No	167	70.06	n/a	0.005782	NP (NDs) Deseas
Nickel (mg/L)	GWC-18R	0.03204	n/a	3/14/2018	0.01474...	No	167	70.06	n/a	0.005782	NP (NDs) Deseas
Nickel (mg/L)	GWC-19R	0.03204	n/a	3/14/2018	0.01474...	No	167	70.06	n/a	0.005782	NP (NDs) Deseas
Nickel (mg/L)	GWC-20R	0.03204	n/a	3/14/2018	0.01474...	No	167	70.06	n/a	0.005782	NP (NDs) Deseas
Nickel (mg/L)	GWC-21R	0.03204	n/a	3/14/2018	0.01115	No	167	70.06	n/a	0.005782	NP (NDs) Deseas
Silver (mg/L)	GWC-17R	0.01562	n/a	3/14/2018	0.01447...	No	167	99.4	n/a	0.005782	NP (NDs) Deseas
Silver (mg/L)	GWC-18	0.01562	n/a	3/14/2018	0.01447...	No	167	99.4	n/a	0.005782	NP (NDs) Deseas
Silver (mg/L)	GWC-18R	0.01562	n/a	3/14/2018	0.01447...	No	167	99.4	n/a	0.005782	NP (NDs) Deseas
Silver (mg/L)	GWC-19R	0.01562	n/a	3/14/2018	0.01447...	No	167	99.4	n/a	0.005782	NP (NDs) Deseas
Silver (mg/L)	GWC-20R	0.01562	n/a	3/14/2018	0.01447...	No	167	99.4	n/a	0.005782	NP (NDs) Deseas
Silver (mg/L)	GWC-21R	0.01562	n/a	3/14/2018	0.01447...	No	167	99.4	n/a	0.005782	NP (NDs) Deseas
Silver (mg/L)	GWC-22R	0.01562	n/a	3/13/2018	0.01447...	No	167	99.4	n/a	0.005782	NP (NDs) Deseas
Silver (mg/L)	GWC-23R	0.01562	n/a	3/14/2018	0.01447...	No	167	99.4	n/a	0.005782	NP (NDs) Deseas
Silver (mg/L)	GWC-24R	0.01562	n/a	3/13/2018	0.01447...	No	167	99.4	n/a	0.005782	NP (NDs) Deseas
Silver (mg/L)	GWC-25R	0.01562	n/a	3/13/2018	0.01447...	No	167	99.4	n/a	0.005782	NP (NDs) Deseas
Thallium (mg/L)	GWC-16R	0.005	n/a	3/14/2018	0.00018	No	226	82.3	n/a	0.004311	NP (NDs)
Thallium (mg/L)	GWC-17R	0.005	n/a	3/14/2018	0.0005ND	No	226	82.3	n/a	0.004311	NP (NDs)
Thallium (mg/L)	GWC-18	0.005	n/a	3/14/2018	0.0005ND	No	226	82.3	n/a	0.004311	NP (NDs)
Thallium (mg/L)	GWC-18R	0.005	n/a	3/14/2018	0.0005ND	No	226	82.3	n/a	0.004311	NP (NDs)
Thallium (mg/L)	GWC-19R	0.005	n/a	3/14/2018	0.0005ND	No	226	82.3	n/a	0.004311	NP (NDs)

Interwell Prediction Limit

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR Printed 6/19/2018, 3:33 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Thallium (mg/L)	GWC-20R	0.005	n/a	3/14/2018	0.0005ND	No	226	82.3	n/a	0.004311	NP (NDs)
Zinc (mg/L)	GWC-16R	0.5088	n/a	3/14/2018	0.03975	No	167	30.54	n/a	0.005782	NP (normality) Deseas
Zinc (mg/L)	GWC-17R	0.5088	n/a	3/14/2018	0.01085	No	167	30.54	n/a	0.005782	NP (normality) Deseas
Zinc (mg/L)	GWC-18	0.5088	n/a	3/14/2018	0.01235	No	167	30.54	n/a	0.005782	NP (normality) Deseas
Zinc (mg/L)	GWC-18R	0.5088	n/a	3/14/2018	0.01374...	No	167	30.54	n/a	0.005782	NP (normality) Deseas
Zinc (mg/L)	GWC-19R	0.5088	n/a	3/14/2018	0.01374...	No	167	30.54	n/a	0.005782	NP (normality) Deseas
Zinc (mg/L)	GWC-20R	0.5088	n/a	3/14/2018	0.01374...	No	167	30.54	n/a	0.005782	NP (normality) Deseas
Zinc (mg/L)	GWC-21R	0.5088	n/a	3/14/2018	0.01365	No	167	30.54	n/a	0.005782	NP (normality) Deseas
Zinc (mg/L)	GWC-22R	0.5088	n/a	3/13/2018	0.01374...	No	167	30.54	n/a	0.005782	NP (normality) Deseas
Zinc (mg/L)	GWC-23R	0.5088	n/a	3/14/2018	0.01374...	No	167	30.54	n/a	0.005782	NP (normality) Deseas
Zinc (mg/L)	GWC-24R	0.5088	n/a	3/13/2018	0.01555	No	167	30.54	n/a	0.005782	NP (normality) Deseas
Zinc (mg/L)	GWC-25R	0.5088	n/a	3/13/2018	0.01374...	No	167	30.54	n/a	0.005782	NP (normality) Deseas
Cadmium (mg/L)	GWC-24R	0.0599	n/a	3/13/2018	0.01040...	No	228	83.77	n/a	0.004274	NP (NDs) Deseas
Cadmium (mg/L)	GWC-25R	0.0599	n/a	3/13/2018	0.01040...	No	228	83.77	n/a	0.004274	NP (NDs) Deseas
Chromium (mg/L)	GWC-16R	0.04609	n/a	3/14/2018	0.01549...	No	228	65.79	n/a	0.004274	NP (NDs) Deseas
Chromium (mg/L)	GWC-17R	0.04609	n/a	3/14/2018	0.01549...	No	228	65.79	n/a	0.004274	NP (NDs) Deseas
Chromium (mg/L)	GWC-18	0.04609	n/a	3/14/2018	0.0126	No	228	65.79	n/a	0.004274	NP (NDs) Deseas
Chromium (mg/L)	GWC-18R	0.04609	n/a	3/14/2018	0.01549...	No	228	65.79	n/a	0.004274	NP (NDs) Deseas
Chromium (mg/L)	GWC-19R	0.04609	n/a	3/14/2018	0.01549...	No	228	65.79	n/a	0.004274	NP (NDs) Deseas
Chromium (mg/L)	GWC-20R	0.04609	n/a	3/14/2018	0.01549...	No	228	65.79	n/a	0.004274	NP (NDs) Deseas
Chromium (mg/L)	GWC-21R	0.04609	n/a	3/14/2018	0.01549...	No	228	65.79	n/a	0.004274	NP (NDs) Deseas
Chromium (mg/L)	GWC-22R	0.04609	n/a	3/13/2018	0.01549...	No	228	65.79	n/a	0.004274	NP (NDs) Deseas
Chromium (mg/L)	GWC-23R	0.04609	n/a	3/14/2018	0.01549...	No	228	65.79	n/a	0.004274	NP (NDs) Deseas
Chromium (mg/L)	GWC-24R	0.04609	n/a	3/13/2018	0.01549...	No	228	65.79	n/a	0.004274	NP (NDs) Deseas
Chromium (mg/L)	GWC-25R	0.04609	n/a	3/13/2018	0.01549...	No	228	65.79	n/a	0.004274	NP (NDs) Deseas
Cobalt (mg/L)	GWC-16R	0.00715	n/a	3/14/2018	0.00058	No	227	77.09	n/a	0.004293	NP (NDs)
Cobalt (mg/L)	GWC-17R	0.00715	n/a	3/14/2018	0.005ND	No	227	77.09	n/a	0.004293	NP (NDs)
Cobalt (mg/L)	GWC-18	0.00715	n/a	3/14/2018	0.005ND	No	227	77.09	n/a	0.004293	NP (NDs)
Copper (mg/L)	GWC-23R	0.034	n/a	3/14/2018	0.02220...	No	167	74.85	n/a	0.005782	NP (NDs) Deseas
Copper (mg/L)	GWC-24R	0.034	n/a	3/13/2018	0.02220...	No	167	74.85	n/a	0.005782	NP (NDs) Deseas
Copper (mg/L)	GWC-25R	0.034	n/a	3/13/2018	0.02220...	No	167	74.85	n/a	0.005782	NP (NDs) Deseas
Lead (mg/L)	GWC-16R	0.02245	n/a	3/14/2018	0.01244...	No	228	82.02	n/a	0.004274	NP (NDs) Deseas
Lead (mg/L)	GWC-17R	0.02245	n/a	3/14/2018	0.01244...	No	228	82.02	n/a	0.004274	NP (NDs) Deseas
Lead (mg/L)	GWC-18	0.02245	n/a	3/14/2018	0.01244...	No	228	82.02	n/a	0.004274	NP (NDs) Deseas
Lead (mg/L)	GWC-18R	0.02245	n/a	3/14/2018	0.0103	No	228	82.02	n/a	0.004274	NP (NDs) Deseas
Lead (mg/L)	GWC-19R	0.02245	n/a	3/14/2018	0.01244...	No	228	82.02	n/a	0.004274	NP (NDs) Deseas
Lead (mg/L)	GWC-20R	0.02245	n/a	3/14/2018	0.01244...	No	228	82.02	n/a	0.004274	NP (NDs) Deseas
Lead (mg/L)	GWC-21R	0.02245	n/a	3/14/2018	0.01244...	No	228	82.02	n/a	0.004274	NP (NDs) Deseas
Lead (mg/L)	GWC-22R	0.02245	n/a	3/13/2018	0.01244...	No	228	82.02	n/a	0.004274	NP (NDs) Deseas
Lead (mg/L)	GWC-23R	0.02245	n/a	3/14/2018	0.01244...	No	228	82.02	n/a	0.004274	NP (NDs) Deseas
Lead (mg/L)	GWC-24R	0.02245	n/a	3/13/2018	0.01244...	No	228	82.02	n/a	0.004274	NP (NDs) Deseas
Lead (mg/L)	GWC-25R	0.02245	n/a	3/13/2018	0.01244...	No	228	82.02	n/a	0.004274	NP (NDs) Deseas
Mercury (mg/L)	GWC-16R	0.025	n/a	3/14/2018	0.00025ND	No	228	91.67	n/a	0.004274	NP (NDs)
Mercury (mg/L)	GWC-17R	0.025	n/a	3/14/2018	0.00025ND	No	228	91.67	n/a	0.004274	NP (NDs)
Nickel (mg/L)	GWC-22R	0.03204	n/a	3/13/2018	0.01474...	No	167	70.06	n/a	0.005782	NP (NDs) Deseas
Nickel (mg/L)	GWC-23R	0.03204	n/a	3/14/2018	0.01474...	No	167	70.06	n/a	0.005782	NP (NDs) Deseas
Nickel (mg/L)	GWC-24R	0.03204	n/a	3/13/2018	0.01474...	No	167	70.06	n/a	0.005782	NP (NDs) Deseas
Nickel (mg/L)	GWC-25R	0.03204	n/a	3/13/2018	0.01474...	No	167	70.06	n/a	0.005782	NP (NDs) Deseas
Selenium (mg/L)	GWC-16R	0.01	n/a	3/14/2018	0.005ND	No	228	93.42	n/a	0.004274	NP (NDs)
Selenium (mg/L)	GWC-17R	0.01	n/a	3/14/2018	0.005ND	No	228	93.42	n/a	0.004274	NP (NDs)

Interwell Prediction Limit

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR Printed 6/19/2018, 3:33 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Selenium (mg/L)	GWC-18	0.01	n/a	3/14/2018	0.005ND	No	228	93.42	n/a	0.004274	NP (NDs)
Selenium (mg/L)	GWC-18R	0.01	n/a	3/14/2018	0.005ND	No	228	93.42	n/a	0.004274	NP (NDs)
Selenium (mg/L)	GWC-19R	0.01	n/a	3/14/2018	0.005ND	No	228	93.42	n/a	0.004274	NP (NDs)
Selenium (mg/L)	GWC-20R	0.01	n/a	3/14/2018	0.005ND	No	228	93.42	n/a	0.004274	NP (NDs)
Selenium (mg/L)	GWC-21R	0.01	n/a	3/14/2018	0.005ND	No	228	93.42	n/a	0.004274	NP (NDs)
Selenium (mg/L)	GWC-22R	0.01	n/a	3/13/2018	0.005ND	No	228	93.42	n/a	0.004274	NP (NDs)
Selenium (mg/L)	GWC-23R	0.01	n/a	3/14/2018	0.005ND	No	228	93.42	n/a	0.004274	NP (NDs)
Selenium (mg/L)	GWC-24R	0.01	n/a	3/13/2018	0.005ND	No	228	93.42	n/a	0.004274	NP (NDs)
Selenium (mg/L)	GWC-25R	0.01	n/a	3/13/2018	0.005ND	No	228	93.42	n/a	0.004274	NP (NDs)
Silver (mg/L)	GWC-16R	0.01562	n/a	3/14/2018	0.01447...	No	167	99.4	n/a	0.005782	NP (NDs) Deseas
Thallium (mg/L)	GWC-21R	0.005	n/a	3/14/2018	0.0005ND	No	226	82.3	n/a	0.004311	NP (NDs)
Thallium (mg/L)	GWC-22R	0.005	n/a	3/13/2018	0.00017	No	226	82.3	n/a	0.004311	NP (NDs)
Thallium (mg/L)	GWC-23R	0.005	n/a	3/14/2018	0.0005ND	No	226	82.3	n/a	0.004311	NP (NDs)
Thallium (mg/L)	GWC-24R	0.005	n/a	3/13/2018	0.0005ND	No	226	82.3	n/a	0.004311	NP (NDs)
Thallium (mg/L)	GWC-25R	0.005	n/a	3/13/2018	0.0005ND	No	226	82.3	n/a	0.004311	NP (NDs)
Vanadium (mg/L)	GWC-16R	0.02789	n/a	3/14/2018	0.00489...	No	167	78.44	n/a	0.005782	NP (NDs) Deseas
Vanadium (mg/L)	GWC-17R	0.02789	n/a	3/14/2018	0.00489...	No	167	78.44	n/a	0.005782	NP (NDs) Deseas
Vanadium (mg/L)	GWC-18	0.02789	n/a	3/14/2018	0.00489...	No	167	78.44	n/a	0.005782	NP (NDs) Deseas
Vanadium (mg/L)	GWC-18R	0.02789	n/a	3/14/2018	0.00489...	No	167	78.44	n/a	0.005782	NP (NDs) Deseas
Vanadium (mg/L)	GWC-19R	0.02789	n/a	3/14/2018	0.00489...	No	167	78.44	n/a	0.005782	NP (NDs) Deseas
Vanadium (mg/L)	GWC-20R	0.02789	n/a	3/14/2018	0.00489...	No	167	78.44	n/a	0.005782	NP (NDs) Deseas
Vanadium (mg/L)	GWC-21R	0.02789	n/a	3/14/2018	0.00489...	No	167	78.44	n/a	0.005782	NP (NDs) Deseas
Vanadium (mg/L)	GWC-22R	0.02789	n/a	3/13/2018	0.00489...	No	167	78.44	n/a	0.005782	NP (NDs) Deseas
Vanadium (mg/L)	GWC-23R	0.02789	n/a	3/14/2018	0.00489...	No	167	78.44	n/a	0.005782	NP (NDs) Deseas
Vanadium (mg/L)	GWC-24R	0.02789	n/a	3/13/2018	0.00489...	No	167	78.44	n/a	0.005782	NP (NDs) Deseas
Vanadium (mg/L)	GWC-25R	0.02789	n/a	3/13/2018	0.00489...	No	167	78.44	n/a	0.005782	NP (NDs) Deseas

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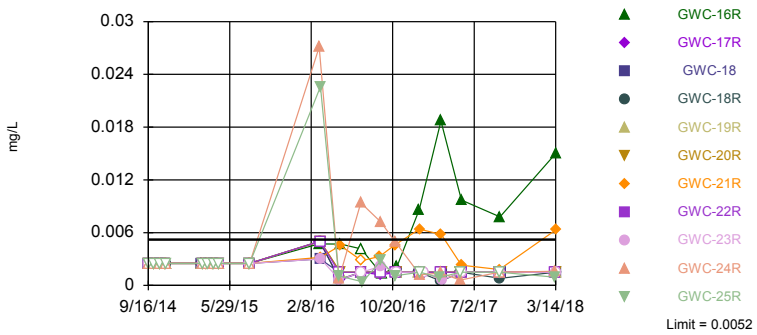
Hollow symbols indicate censored values.

Exceeds Limit: GWC-16R, GWC-21R

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 228 background values. 83.77% NDs. Report alpha = 0.04603. Individual comparison alpha = 0.004274. Most recent point for each compliance well compared to limit. Seasonality was not detected with 95% confidence.

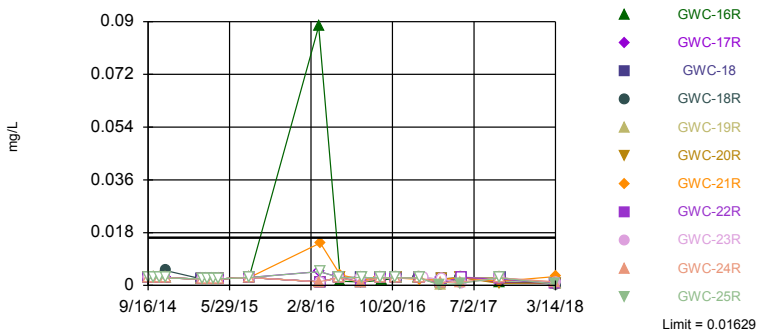
Constituent: Antimony Analysis Run 6/19/2018 3:19 PM View: cell_3&4_metals_interwell
Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Sanitas™ v.9.5.32 Sanitas software licensed to AMEC. EPA
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 228 background values. 81.14% NDs. Report alpha = 0.04603. Individual comparison alpha = 0.004274. Most recent point for each compliance well compared to limit. Data were deseasonalized.

Constituent: Arsenic Analysis Run 6/19/2018 3:19 PM View: cell_3&4_metals_interwell
Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

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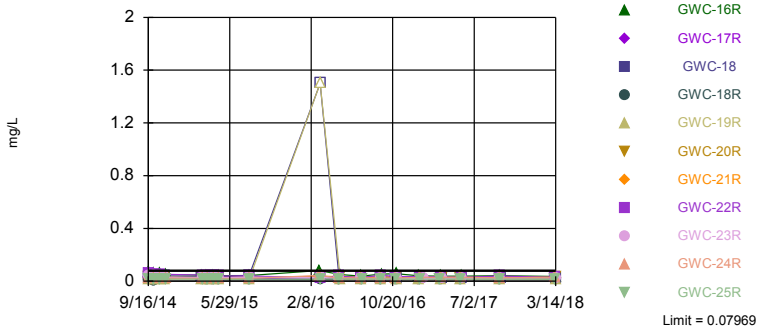
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Parametric



Background Data Summary (based on natural log transformation): Mean=-4.005, Std. Dev.=0.6283, n=228, 3.07% NDs. Seasonality was not detected with 95% confidence. Normality test: Chi Squared @alpha = 0.05, calculated = 12.26, critical = 14.07. Report alpha = 0.1047. Individual comparison alpha = 0.01. Most recent point for each compliance well compared to limit.

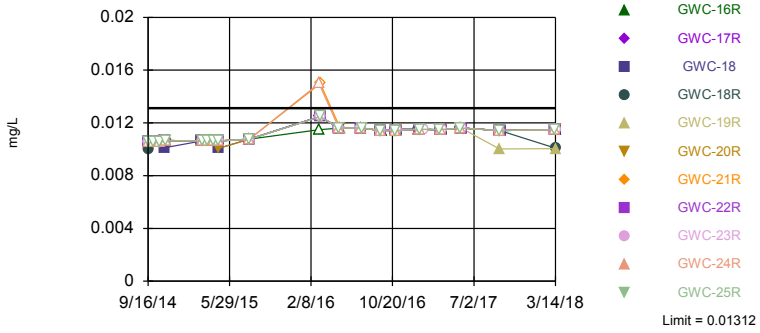
Constituent: Barium Analysis Run 6/19/2018 3:19 PM View: cell_3&4_metals_interwell
Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Sanitas™ v.9.5.32 Sanitas software licensed to AMEC. EPA
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 228 background values. 84.21% NDs. Report alpha = 0.04603. Individual comparison alpha = 0.004274. Most recent point for each compliance well compared to limit. Data were deseasonalized.

Constituent: Beryllium Analysis Run 6/19/2018 3:20 PM View: cell_3&4_metals_interwell
Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 6/19/2018 3:33 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-36R (bg)	GWA-36 (bg)	GWC-25R	GWC-16R	GWA-38 (bg)	GWC-24R	GWA-37 (bg)	GWC-19R	GWC-17R
9/15/2014	<0.005	<0.005							
9/16/2014			<0.005	<0.005	<0.005	<0.005	<0.005		
9/17/2014								<0.005	<0.005
9/18/2014									
10/3/2014	<0.005	<0.005			<0.005		<0.005		
10/4/2014			<0.005	<0.005		<0.005		<0.005	<0.005
10/5/2014									
10/20/2014	<0.005	<0.005			<0.005		<0.005		
10/21/2014				<0.005				<0.005	<0.005
10/22/2014									
10/23/2014			<0.005			<0.005			
11/5/2014								<0.005	
11/10/2014	<0.005	<0.005	<0.005		<0.005	<0.005	<0.005		
11/11/2014				<0.005					<0.005
3/2/2015	<0.005	<0.005			<0.005		<0.005		
3/3/2015				<0.005				<0.005	<0.005
3/4/2015			<0.005			<0.005			
3/17/2015	<0.005	<0.005			<0.005		<0.005		
3/18/2015				<0.005					<0.005
3/19/2015								<0.005	
3/20/2015			<0.005			<0.005			
4/5/2015	<0.005	<0.005					<0.005		
4/6/2015				<0.005	<0.005				<0.005
4/7/2015								<0.005	
4/8/2015						<0.005			
4/9/2015			<0.005						
4/21/2015	<0.005	<0.005							
4/22/2015					<0.005		<0.005		
4/23/2015			<0.005	<0.005		<0.005			<0.005
4/24/2015								<0.005	
5/8/2015									
5/9/2015									
5/17/2015									
5/18/2015									
5/19/2015									
5/25/2015									
5/26/2015									
6/8/2015									
6/9/2015									
6/17/2015									
6/18/2015									
6/24/2015									
6/25/2015									
6/30/2015									
7/1/2015									
7/6/2015									
7/7/2015									
7/28/2015	<0.005	<0.005			<0.005		<0.005		
7/29/2015				<0.005				<0.005	<0.005
7/30/2015			<0.005			<0.005			
8/12/2015									
8/13/2015									

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 6/19/2018 3:33 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-36R (bg)	GWA-36 (bg)	GWC-25R	GWC-16R	GWA-38 (bg)	GWC-24R	GWA-37 (bg)	GWC-19R	GWC-17R
2/29/2016									
3/1/2016	<0.003	<0.003					0.00214 (J)		
3/2/2016					<0.003				
3/3/2016				0.00472 (D)					
3/4/2016						0.0271 (J)			<0.01
3/7/2016								<0.01	
3/8/2016			0.0226 (J)						
3/9/2016									
5/2/2016	<0.003	<0.003							
5/3/2016					<0.003		0.00178 (J)		
5/4/2016			0.00107 (J)						
5/5/2016						0.000761 (J)			
5/6/2016									
5/9/2016								<0.003	
5/10/2016				0.0047					0.000641 (J)
7/6/2016	<0.003 (*)								
7/7/2016		<0.003 (*)			<0.003				
7/8/2016							0.0023 (J)		
7/11/2016									
7/12/2016						0.0094			
7/13/2016				<0.0083 (*)					
7/14/2016								<0.003 (*)	<0.003 (*)
7/15/2016									
7/18/2016			0.0004 (J)						
9/7/2016	<0.003	<0.003					0.0039		
9/8/2016					<0.003				
9/9/2016									
9/12/2016								<0.003	
9/13/2016			0.0028 (J)			0.0072			
9/14/2016									0.0012 (J)
9/15/2016				0.0013 (J)					
10/25/2016	<0.003	<0.003			<0.003		0.0035		
10/26/2016									
10/27/2016			0.0011 (J)			0.005			
10/31/2016								<0.003	
11/1/2016									<0.003
11/2/2016				0.0021 (J)					
1/5/2017	<0.003	<0.003							
1/6/2017							0.0052		
1/9/2017									
1/11/2017				0.0086				<0.003	<0.003
1/12/2017									
1/13/2017			<0.003			0.0012 (J)			
1/25/2017									
2/9/2017					<0.003				
3/14/2017	<0.003						0.003		
3/15/2017		0.0004 (J)							
3/16/2017			0.0009 (J)						
3/20/2017				0.0187		0.0014 (J)			
3/21/2017								<0.003	<0.003
3/22/2017									
3/23/2017					<0.003				

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 6/19/2018 3:33 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-36R (bg)	GWA-36 (bg)	GWC-25R	GWC-16R	GWA-38 (bg)	GWC-24R	GWA-37 (bg)	GWC-19R	GWC-17R
5/16/2017	<0.003						0.0026 (J)		
5/17/2017		0.0032			<0.003				
5/18/2017									
5/19/2017			<0.003			0.0006 (J)			
5/22/2017								<0.003	
5/23/2017				0.0097					<0.003
5/24/2017									
7/19/2017									
9/15/2017	<0.003	<0.003					0.0016 (J)		
9/18/2017									
9/19/2017			<0.003		<0.003	<0.003			
9/20/2017								<0.003	
9/21/2017				0.0078					
9/22/2017									<0.003
9/25/2017									
3/12/2018	<0.003	<0.003					0.0023 (J)		
3/13/2018			0.00093 (J)		<0.003	0.0016 (J)			
3/14/2018				0.015				<0.003	<0.003

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 6/19/2018 3:33 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-18	GWC-18R	GWC-20R	GWC-21R	GWC-22R	GWC-23R	GWA-51R_51RZ ...	GWA-53R (bg)	GWA-52 (bg)
9/15/2014									
9/16/2014									
9/17/2014	<0.005	<0.005							
9/18/2014			<0.005	<0.005	<0.005	<0.005			
10/3/2014									
10/4/2014	<0.005	<0.005							
10/5/2014			<0.005	<0.005	<0.005	<0.005			
10/20/2014									
10/21/2014	<0.005	<0.005							
10/22/2014			<0.005	<0.005	<0.005	<0.005			
10/23/2014									
11/5/2014	<0.005		<0.005	<0.005	<0.005	<0.005			
11/10/2014									
11/11/2014		<0.005							
3/2/2015									
3/3/2015	<0.005	<0.005							
3/4/2015			<0.005	<0.005	<0.005	<0.005			
3/17/2015									
3/18/2015	<0.005	<0.005							
3/19/2015			<0.005	<0.005	<0.005				
3/20/2015						<0.005			
4/5/2015									
4/6/2015									
4/7/2015	<0.005	<0.005	<0.005						
4/8/2015				<0.005	<0.005	<0.005			
4/9/2015									
4/21/2015									
4/22/2015									
4/23/2015	<0.005	<0.005				<0.005			
4/24/2015			<0.005	<0.005	<0.005				
5/8/2015							<0.005	<0.005	<0.005
5/9/2015									
5/17/2015							<0.005	<0.005	<0.005
5/18/2015									
5/19/2015									
5/25/2015							<0.005	<0.005	<0.005
5/26/2015									
6/8/2015							<0.005	<0.005	<0.005
6/9/2015									
6/17/2015									
6/18/2015							<0.005	<0.005	<0.005
6/24/2015							<0.005	<0.005	<0.005
6/25/2015									
6/30/2015							<0.005	<0.005	<0.005
7/1/2015									
7/6/2015							<0.005	<0.005	<0.005
7/7/2015									
7/28/2015									
7/29/2015	<0.005	<0.005							
7/30/2015			<0.005	<0.005	<0.005	<0.005			
8/12/2015							<0.005	<0.005	<0.005
8/13/2015									

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 6/19/2018 3:33 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-18	GWC-18R	GWC-20R	GWC-21R	GWC-22R	GWC-23R	GWA-51R_51RZ ...	GWA-53R (bg)	GWA-52 (bg)
2/29/2016									<0.003
3/1/2016									
3/2/2016								0.00106 (J)	
3/3/2016									
3/4/2016									
3/7/2016	0.003	<0.01			<0.01				
3/8/2016			<0.01	0.00318					
3/9/2016						0.003			
5/2/2016									
5/3/2016								0.00171 (J)	
5/4/2016							0.00254 (JD)		<0.003
5/5/2016	<0.003	0.000672 (J)			<0.003				
5/6/2016						0.000666 (J)			
5/9/2016			<0.003	0.00454					
5/10/2016									
7/6/2016									
7/7/2016							0.0033 (D)		
7/8/2016									<0.003 (*)
7/11/2016								<0.003 (*)	
7/12/2016									
7/13/2016	<0.003 (*)	<0.003 (*)							
7/14/2016			<0.003 (*)		<0.003				
7/15/2016				<0.0056 (*)		<0.003 (*)			
7/18/2016									
9/7/2016								0.0013 (J)	
9/8/2016							0.0046 (D)		<0.003
9/9/2016				0.0033					
9/12/2016		<0.003	<0.003		<0.003				
9/13/2016	<0.003								
9/14/2016						0.0022 (J)			
9/15/2016									
10/25/2016									
10/26/2016							0.001 (JD)		<0.003
10/27/2016				0.0046	<0.003			0.0011 (J)	
10/31/2016	<0.003		<0.003						
11/1/2016		<0.003				<0.003			
11/2/2016									
1/5/2017									
1/6/2017							0.0011 (JD)	0.0013 (J)	<0.003
1/9/2017									
1/11/2017		<0.003							
1/12/2017	<0.003		<0.003	0.0064					
1/13/2017					<0.003				
1/25/2017						<0.003			
2/9/2017									
3/14/2017									
3/15/2017							0.0006 (JD)		<0.003
3/16/2017								0.0029 (J)	
3/20/2017		0.0005 (J)			<0.003				
3/21/2017				0.0058					
3/22/2017			<0.003			0.0006 (J)			
3/23/2017	<0.003								

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 6/19/2018 3:33 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-18	GWC-18R	GWC-20R	GWC-21R	GWC-22R	GWC-23R	GWA-51R_51RZ ...	GWA-53R (bg)	GWA-52 (bg)
5/16/2017									
5/17/2017									<0.003
5/18/2017							0.0009 (JD)		
5/19/2017								<0.003	
5/22/2017		<0.003	<0.003						
5/23/2017	<0.003			0.0023 (J)	<0.003				
5/24/2017						<0.003			
7/19/2017							<0.003 (D)		
9/15/2017									<0.003
9/18/2017									
9/19/2017			<0.003	0.0018 (J)	<0.003		<0.003 (D)	<0.003	
9/20/2017									
9/21/2017		0.0008 (J)				<0.003			
9/22/2017									
9/25/2017	<0.003								
3/12/2018									
3/13/2018					<0.003		<0.003 (D)	0.0034	<0.003
3/14/2018	<0.003	<0.003	<0.003	0.0063		<0.003			

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 6/19/2018 3:33 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-53 (bg)	GWA-54 (bg)	GWA-56 (bg)	GWA-55R (bg)	GWA-55 (bg)
9/15/2014					
9/16/2014					
9/17/2014					
9/18/2014					
10/3/2014					
10/4/2014					
10/5/2014					
10/20/2014					
10/21/2014					
10/22/2014					
10/23/2014					
11/5/2014					
11/10/2014					
11/11/2014					
3/2/2015					
3/3/2015					
3/4/2015					
3/17/2015					
3/18/2015					
3/19/2015					
3/20/2015					
4/5/2015					
4/6/2015					
4/7/2015					
4/8/2015					
4/9/2015					
4/21/2015					
4/22/2015					
4/23/2015					
4/24/2015					
5/8/2015					
5/9/2015	<0.005	<0.005	<0.005	<0.005	<0.005
5/17/2015					
5/18/2015	<0.005	<0.005		<0.005	<0.005
5/19/2015			<0.005		
5/25/2015	<0.005	<0.005			
5/26/2015			<0.005	<0.005	<0.005
6/8/2015	<0.005				
6/9/2015		<0.005	<0.005	<0.005	<0.005
6/17/2015	<0.005	<0.005	<0.005	<0.005	<0.005
6/18/2015					
6/24/2015	<0.005				
6/25/2015		<0.005	<0.005	<0.005	<0.005
6/30/2015	<0.005				
7/1/2015		<0.005	<0.005	<0.005	<0.005
7/6/2015	<0.005				
7/7/2015		<0.005	<0.005	<0.005	<0.005
7/28/2015					
7/29/2015					
7/30/2015					
8/12/2015	<0.005	<0.005			
8/13/2015			<0.005	<0.005	<0.005

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 6/19/2018 3:33 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-53 (bg)	GWA-54 (bg)	GWA-56 (bg)	GWA-55R (bg)	GWA-55 (bg)
2/29/2016					
3/1/2016					
3/2/2016	0.000782 (J)	<0.003			0.000608 (J)
3/3/2016			<0.001	<0.003	
3/4/2016					
3/7/2016					
3/8/2016					
3/9/2016					
5/2/2016					
5/3/2016	<0.003			<0.003	<0.003
5/4/2016		<0.003			
5/5/2016					
5/6/2016					
5/9/2016			<0.003		
5/10/2016					
7/6/2016					
7/7/2016					
7/8/2016	<0.003 (*)	<0.003			
7/11/2016			<0.003	<0.003 (*)	<0.003 (*)
7/12/2016					
7/13/2016					
7/14/2016					
7/15/2016					
7/18/2016					
9/7/2016					
9/8/2016	0.0009 (J)	0.0019 (J)			
9/9/2016			<0.003	0.0009 (J)	<0.003
9/12/2016					
9/13/2016					
9/14/2016					
9/15/2016					
10/25/2016					
10/26/2016	0.0012 (J)	<0.003	<0.003		<0.003
10/27/2016				<0.003	
10/31/2016					
11/1/2016					
11/2/2016					
1/5/2017					
1/6/2017					
1/9/2017	<0.003	<0.003	0.0012 (J)	0.0023 (J)	<0.003
1/11/2017					
1/12/2017					
1/13/2017					
1/25/2017					
2/9/2017					
3/14/2017					
3/15/2017		<0.003	<0.003		
3/16/2017	<0.003			0.0007 (J)	<0.003
3/20/2017					
3/21/2017					
3/22/2017					
3/23/2017					

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 6/19/2018 3:33 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-53 (bg)	GWA-54 (bg)	GWA-56 (bg)	GWA-55R (bg)	GWA-55 (bg)
5/16/2017					
5/17/2017					
5/18/2017		<0.003	<0.003	0.0012 (J)	<0.003
5/19/2017	0.0005 (J)				
5/22/2017					
5/23/2017					
5/24/2017					
7/19/2017					
9/15/2017		<0.003	<0.003		<0.003
9/18/2017				<0.003	
9/19/2017	<0.003				
9/20/2017					
9/21/2017					
9/22/2017					
9/25/2017					
3/12/2018				<0.003	<0.003
3/13/2018	<0.003	<0.003	<0.003		
3/14/2018					

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 6/19/2018 3:33 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-36R (bg)	GWA-36 (bg)	GWC-25R	GWC-16R	GWA-38 (bg)	GWC-24R	GWA-37 (bg)	GWC-19R	GWC-17R
9/15/2014	0.003686 (J)	0.002586415..							
9/16/2014			0.002586415..	0.002586415..	0.002586415..	0.002586415..	0.002586415..		
9/17/2014								0.002586415..	0.002586415..
9/18/2014									
10/3/2014	0.002586415..	0.002586415..			0.002586415..		0.002586415..		
10/4/2014			0.002586415..	0.002586415..		0.002586415..		0.002586415..	0.002586415..
10/5/2014									
10/20/2014	0.002286 (J)	0.002586415..			0.002586415..		0.002586415..		
10/21/2014				0.002586415..				0.002586415..	0.002586415..
10/22/2014									
10/23/2014			0.002586415..			0.002586415..			
11/5/2014								0.002529159..	
11/10/2014	0.002529159..	0.002529159..	0.002529159..		0.002529159..	0.002529159..	0.002529159..		
11/11/2014				0.002529159..					0.002529159..
3/2/2015	0.002206545..	0.002206545..			0.005907		0.002206545..		
3/3/2015				0.002206545..				0.002206545..	0.002206545..
3/4/2015			0.002206545..			0.002206545..			
3/17/2015	0.002206545..	0.002206545..			0.002206545..		0.002206545..		
3/18/2015				0.002206545..					0.002206545..
3/19/2015								0.002206545..	
3/20/2015			0.002206545..			0.002206545..			
4/5/2015	0.002206545..	0.002206545..					0.002206545..		
4/6/2015				0.002206545..	0.002206545..				0.002206545..
4/7/2015								0.002206545..	
4/8/2015						0.002206545..			
4/9/2015			0.002206545..						
4/21/2015	0.002206545..	0.002206545..							
4/22/2015					0.002206545..		0.002206545..		
4/23/2015			0.002206545..	0.002206545..		0.002206545..			0.002206545..
4/24/2015								0.002206545..	
5/8/2015									
5/9/2015									
5/17/2015									
5/18/2015									
5/19/2015									
5/25/2015									
5/26/2015									
6/8/2015									
6/9/2015									
6/17/2015									
6/18/2015									
6/24/2015									
6/25/2015									
6/30/2015									
7/1/2015									
7/6/2015									
7/7/2015									
7/28/2015	0.002677604..	0.002677604..			0.002677604..		0.002677604..		
7/29/2015				0.002677604..				0.002677604..	0.002677604..
7/30/2015			0.002677604..			0.002677604..			
8/12/2015									
8/13/2015									

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 6/19/2018 3:33 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-36R (bg)	GWA-36 (bg)	GWC-25R	GWC-16R	GWA-38 (bg)	GWC-24R	GWA-37 (bg)	GWC-19R	GWC-17R
2/29/2016									
3/1/2016	0.002206545..	0.002206545..					0.002206545..		
3/2/2016					0.002206545..				
3/3/2016				0.0884 (JD)					
3/4/2016						0.001207 (J)			0.004706545..
3/7/2016								0.001206545..	
3/8/2016			0.004706545..						
3/9/2016									
5/2/2016	0.002677604..	0.002677604..							
5/3/2016					0.002677604..		0.002677604..		
5/4/2016			0.002677604..						
5/5/2016						0.002677604..			
5/6/2016									
5/9/2016								0.002677604..	
5/10/2016				0.001458 (J)					0.002677604..
7/6/2016	0.0009776 (J)								
7/7/2016		0.002677604..			0.002677604..				
7/8/2016							0.002677604..		
7/11/2016									
7/12/2016						0.001078 (J)			
7/13/2016				0.001178 (J)					
7/14/2016								0.002677604..	0.002677604..
7/15/2016									
7/18/2016			0.002677604..						
9/7/2016	0.002586415..	0.002586415..					0.002586415..		
9/8/2016					0.002586415..				
9/9/2016									
9/12/2016								0.002586415..	
9/13/2016			0.002586415..			0.002586415..			
9/14/2016									0.002586415..
9/15/2016				0.001786 (J)					
10/25/2016	0.002586415..	0.002586415..			0.002586415..		0.002586415..		
10/26/2016									
10/27/2016			0.002586415..			0.002586415..			
10/31/2016								0.002586415..	
11/1/2016									0.002529159..
11/2/2016				0.002529159..					
1/5/2017	0.002529159..	0.002529159..							
1/6/2017							0.002529159..		
1/9/2017									
1/11/2017				0.002529159..				0.002529159..	0.002529159..
1/12/2017									
1/13/2017			0.002529159..			0.002529159..			
1/25/2017									
2/9/2017					0.002206545..				
3/14/2017	0.002206545..						0.0002065 (J)		
3/15/2017		0.002206545..							
3/16/2017			0.0001065 (J)						
3/20/2017				0.0009065 (J)		0.001007 (J)			
3/21/2017								0.0004065 (J)	0.0006065 (J)
3/22/2017									
3/23/2017					0.002206545..				

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 6/19/2018 3:33 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-36R (bg)	GWA-36 (bg)	GWC-25R	GWC-16R	GWA-38 (bg)	GWC-24R	GWA-37 (bg)	GWC-19R	GWC-17R
5/16/2017	0.002677604..						0.002677604..		
5/17/2017		0.002677604..			0.002677604..				
5/18/2017									
5/19/2017			0.0006776 (J)			0.001178 (J)			
5/22/2017								0.002677604.. (*)	
5/23/2017				0.002677604..					0.002677604.. (*)
5/24/2017									
7/19/2017									
9/15/2017	0.0007864 (J)	0.002586415..					0.002586415..		
9/18/2017									
9/19/2017			0.002586415..		0.002586415..	0.002586415..			
9/20/2017								0.002586415..	
9/21/2017				0.001086 (J)					
9/22/2017									0.0008864 (J)
9/25/2017									
3/12/2018	0.002206545..	0.002206545..					0.002206545..		
3/13/2018			0.0004365 (J)		0.0003165 (J)	0.001207 (J)			
3/14/2018				0.001007 (J)				0.0004665 (J)	0.0006265 (J)

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 6/19/2018 3:33 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-18	GWC-18R	GWC-20R	GWC-21R	GWC-22R	GWC-23R	GWA-51R_51RZ ...	GWA-53R (bg)	GWA-52 (bg)
9/15/2014									
9/16/2014									
9/17/2014	0.002586415..	0.002586415..							
9/18/2014			0.002586415..	0.002586415..	0.002586415..	0.002586415..			
10/3/2014									
10/4/2014	0.002586415..	0.002586415..							
10/5/2014			0.002586415..	0.002586415..	0.002586415..	0.002586415..			
10/20/2014									
10/21/2014	0.002586415..	0.002586415..							
10/22/2014			0.002586415..	0.002586415..	0.002586415..	0.002586415..			
10/23/2014									
11/5/2014	0.002529159..		0.002529159..	0.002529159..	0.002529159..	0.002529159..			
11/10/2014									
11/11/2014		0.005029							
3/2/2015									
3/3/2015	0.002206545..	0.002206545..							
3/4/2015			0.002206545..	0.002206545..	0.002206545..	0.002206545..			
3/17/2015									
3/18/2015	0.002206545..	0.002206545..							
3/19/2015			0.002206545..	0.002206545..	0.002206545..				
3/20/2015						0.002206545..			
4/5/2015									
4/6/2015									
4/7/2015	0.002206545..	0.002206545..	0.002206545..						
4/8/2015				0.002206545..	0.002206545..	0.002206545..			
4/9/2015									
4/21/2015									
4/22/2015									
4/23/2015	0.002206545..	0.002206545..				0.002206545..			
4/24/2015			0.002206545..	0.002206545..	0.002206545..				
5/8/2015							0.002677604..	0.002677604..	0.002677604..
5/9/2015									
5/17/2015							0.002278 (J)	0.002677604..	0.002677604..
5/18/2015									
5/19/2015									
5/25/2015							0.002677604..	0.002677604..	0.002677604..
5/26/2015									
6/8/2015							0.002178 (J)	0.002677604..	0.002677604..
6/9/2015									
6/17/2015									
6/18/2015							0.002978 (J)	0.002677604..	0.002677604..
6/24/2015							0.007578	0.002677604..	0.002677604..
6/25/2015									
6/30/2015							0.006678	0.002677604..	0.002677604..
7/1/2015									
7/6/2015							0.005878	0.002677604..	0.002677604..
7/7/2015									
7/28/2015									
7/29/2015	0.002677604..	0.002677604..							
7/30/2015			0.002677604..	0.002677604..	0.002677604..	0.002677604..			
8/12/2015							0.01629	0.002586415..	0.002586415..
8/13/2015									

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 6/19/2018 3:33 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-18	GWC-18R	GWC-20R	GWC-21R	GWC-22R	GWC-23R	GWA-51R_51RZ ...	GWA-53R (bg)	GWA-52 (bg)
2/29/2016									0.002206545..
3/1/2016									
3/2/2016								0.002206545..	
3/3/2016									
3/4/2016									
3/7/2016	0.001206545..	0.001206545..			0.001206545..				
3/8/2016			0.001206545..	0.01451					
3/9/2016						0.001206545..			
5/2/2016									
5/3/2016								0.002677604..	
5/4/2016							0.002677604.. (D)		0.002677604..
5/5/2016	0.002677604..	0.002677604..			0.002677604..				
5/6/2016						0.002677604..			
5/9/2016			0.002677604..	0.003648 (J)					
5/10/2016									
7/6/2016									
7/7/2016							0.001078 (JD)		
7/8/2016									0.002677604..
7/11/2016								0.002677604..	
7/12/2016									
7/13/2016	0.002677604..	0.002677604..							
7/14/2016			0.0009776 (J)		0.001178 (J)				
7/15/2016				0.001878 (J)		0.002677604..			
7/18/2016									
9/7/2016								0.002586415..	
9/8/2016							0.002586415.. (D)		0.002586415..
9/9/2016				0.002586415..					
9/12/2016		0.002586415..	0.002586415..		0.002586415..				
9/13/2016	0.002586415..								
9/14/2016						0.002586415..			
9/15/2016									
10/25/2016									
10/26/2016							0.002586415.. (D)		0.002586415..
10/27/2016				0.002586415..	0.002586415..			0.002586415..	
10/31/2016	0.002586415..		0.002586415..						
11/1/2016		0.002529159..				0.002529159..			
11/2/2016									
1/5/2017									
1/6/2017							0.002529159.. (D)	0.002529159..	0.002529159..
1/9/2017									
1/11/2017		0.002529159..							
1/12/2017	0.002529159..		0.002529159..	0.002029 (J)					
1/13/2017					0.002529159..				
1/25/2017						0.002529159..			
2/9/2017									
3/14/2017									
3/15/2017							0.0003065 (JD)		0.002206545..
3/16/2017								0.0002065 (J)	
3/20/2017		0.0003065 (J)			0.0009065 (J)				
3/21/2017				0.001807 (J)					
3/22/2017			0.002206545..			0.002206545..			
3/23/2017	0.002206545..								

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 6/19/2018 3:34 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-18	GWC-18R	GWC-20R	GWC-21R	GWC-22R	GWC-23R	GWA-51R_51RZ ...	GWA-53R (bg)	GWA-52 (bg)
5/16/2017									
5/17/2017									0.002677604..
5/18/2017							0.0008776 (JD)		
5/19/2017								0.0008776 (J)	
5/22/2017		0.002677604.. (*)	0.002677604.. (*)						
5/23/2017	0.002677604..			0.002677604.. (*)	0.002677604..				
5/24/2017						0.0007776 (J)			
7/19/2017							0.006278 (D)		
9/15/2017									0.0006864 (J)
9/18/2017									
9/19/2017			0.0006864 (J)	0.001386 (J)	0.002186 (J)		0.002186 (JD)	0.002586415..	
9/20/2017									
9/21/2017		0.002586415..				0.002586415..			
9/22/2017									
9/25/2017	0.002586415..								
3/12/2018									
3/13/2018					0.0005765 (J)		0.001407 (JD)	0.002206545..	0.0003365 (J)
3/14/2018	0.0006165 (J)	0.0002765 (J)	0.0008065 (J)	0.003007 (J)		0.001107 (J)			

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 6/19/2018 3:34 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-53 (bg)	GWA-54 (bg)	GWA-56 (bg)	GWA-55R (bg)	GWA-55 (bg)
9/15/2014					
9/16/2014					
9/17/2014					
9/18/2014					
10/3/2014					
10/4/2014					
10/5/2014					
10/20/2014					
10/21/2014					
10/22/2014					
10/23/2014					
11/5/2014					
11/10/2014					
11/11/2014					
3/2/2015					
3/3/2015					
3/4/2015					
3/17/2015					
3/18/2015					
3/19/2015					
3/20/2015					
4/5/2015					
4/6/2015					
4/7/2015					
4/8/2015					
4/9/2015					
4/21/2015					
4/22/2015					
4/23/2015					
4/24/2015					
5/8/2015					
5/9/2015	0.002677604..	0.002677604..	0.002677604..	0.002677604..	0.002677604..
5/17/2015					
5/18/2015	0.002677604..	0.002677604..		0.002677604..	0.002677604..
5/19/2015			0.002677604..		
5/25/2015	0.002677604..	0.002677604..			
5/26/2015			0.002677604..	0.002677604..	0.002677604..
6/8/2015	0.002677604..				
6/9/2015		0.002677604..	0.002677604..	0.002978 (J)	0.002677604..
6/17/2015	0.002677604..	0.002677604..	0.002677604..	0.002677604..	0.002677604..
6/18/2015					
6/24/2015	0.002677604..				
6/25/2015		0.002677604..	0.002677604..	0.002677604..	0.002677604..
6/30/2015	0.002677604..				
7/1/2015		0.002677604..	0.002677604..	0.002578 (J)	0.002677604..
7/6/2015	0.002677604..				
7/7/2015		0.002677604..	0.002677604..	0.002677604..	0.002677604..
7/28/2015					
7/29/2015					
7/30/2015					
8/12/2015	0.002586415..	0.002586415..			
8/13/2015			0.002186 (J)	0.002586415..	0.002586415..

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 6/19/2018 3:34 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-53 (bg)	GWA-54 (bg)	GWA-56 (bg)	GWA-55R (bg)	GWA-55 (bg)
2/29/2016					
3/1/2016					
3/2/2016	0.002206545..	0.002206545..			0.002206545..
3/3/2016			0.001206545..	0.002206545..	
3/4/2016					
3/7/2016					
3/8/2016					
3/9/2016					
5/2/2016					
5/3/2016	0.002677604..			0.002677604..	0.002677604..
5/4/2016		0.002677604..			
5/5/2016					
5/6/2016					
5/9/2016			0.002677604..		
5/10/2016					
7/6/2016					
7/7/2016					
7/8/2016	0.002677604..	0.002677604..			
7/11/2016			0.001178 (J)	0.001178 (J)	0.002677604..
7/12/2016					
7/13/2016					
7/14/2016					
7/15/2016					
7/18/2016					
9/7/2016					
9/8/2016	0.002586415..	0.002586415..			
9/9/2016			0.002586415..	0.002586415..	0.002586415..
9/12/2016					
9/13/2016					
9/14/2016					
9/15/2016					
10/25/2016					
10/26/2016	0.002586415..	0.002586415..	0.002586415..		0.002586415..
10/27/2016				0.002586415..	
10/31/2016					
11/1/2016					
11/2/2016					
1/5/2017					
1/6/2017					
1/9/2017	0.002529159..	0.002529159..	0.002529159..	0.002529159..	0.002529159..
1/11/2017					
1/12/2017					
1/13/2017					
1/25/2017					
2/9/2017					
3/14/2017					
3/15/2017		0.0003065 (J)	0.0002065 (J)		
3/16/2017	0.0002065 (J)			0.0004065 (J)	0.0002065 (J)
3/20/2017					
3/21/2017					
3/22/2017					
3/23/2017					

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 6/19/2018 3:34 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-53 (bg)	GWA-54 (bg)	GWA-56 (bg)	GWA-55R (bg)	GWA-55 (bg)
5/16/2017					
5/17/2017					
5/18/2017		0.002677604..	0.0007776 (J)	0.0007776 (J)	0.0007776 (J)
5/19/2017	0.0008776 (J)				
5/22/2017					
5/23/2017					
5/24/2017					
7/19/2017					
9/15/2017		0.002586415..	0.0008864 (J)		0.0007864 (J)
9/18/2017				0.002586415..	
9/19/2017	0.002586415..				
9/20/2017					
9/21/2017					
9/22/2017					
9/25/2017					
3/12/2018				0.002206545..	0.002206545..
3/13/2018	0.0002865 (J)	0.0003665 (J)	0.0005865 (J)		
3/14/2018					

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 6/19/2018 3:34 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-36 (bg)	GWA-36R (bg)	GWA-37 (bg)	GWA-38 (bg)	GWA-52 (bg)	GWA-53 (bg)	GWA-53R (bg)	GWA-54 (bg)	GWA-55 (bg)
9/15/2014	0.0069	0.031							
9/16/2014			0.0071	0.014					
9/17/2014									
9/18/2014									
10/3/2014	0.0045	0.024	0.0087	0.016					
10/4/2014									
10/5/2014									
10/20/2014	0.0044	0.024	0.0085	0.014					
10/21/2014									
10/22/2014									
10/23/2014									
11/5/2014									
11/10/2014	<0.0013	0.014	0.008	0.015					
11/11/2014									
3/2/2015	0.0045	0.013	0.0063	0.03					
3/3/2015									
3/4/2015									
3/17/2015	0.0078	0.013	0.0066	0.018					
3/18/2015									
3/19/2015									
3/20/2015									
4/5/2015	0.01	0.022	0.0068						
4/6/2015				0.014					
4/7/2015									
4/8/2015									
4/9/2015									
4/21/2015	0.013	0.018							
4/22/2015			0.0094	0.012					
4/23/2015									
4/24/2015									
5/8/2015					0.033		0.014		
5/9/2015						0.044		0.054	0.022
5/17/2015					0.04		0.015		
5/18/2015						0.04		0.058	0.031
5/19/2015									
5/25/2015					0.039	0.036	0.014	0.051	
5/26/2015									0.028
6/8/2015					0.031	0.028	0.014		
6/9/2015								0.034	0.031
6/17/2015						0.026		0.032	0.029
6/18/2015					0.039		0.013		
6/24/2015					0.042	0.021	0.014		
6/25/2015								0.032	0.024
6/30/2015					0.033	0.018	0.014		
7/1/2015								0.029	0.026
7/6/2015					0.031	0.018	0.013		
7/7/2015								0.029	0.027
7/28/2015	0.011	0.022	0.0057	0.012					
7/29/2015									
7/30/2015									
8/12/2015					<0.02	<0.02	0.015 (J)	<0.02	<0.02
2/29/2016					0.028				

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 6/19/2018 3:34 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-36 (bg)	GWA-36R (bg)	GWA-37 (bg)	GWA-38 (bg)	GWA-52 (bg)	GWA-53 (bg)	GWA-53R (bg)	GWA-54 (bg)	GWA-55 (bg)
3/1/2016	0.0189	0.021	0.0101						
3/2/2016				0.0123		0.017	0.015	0.0297	0.0276
3/3/2016									
3/4/2016									
3/7/2016									
3/8/2016									
3/9/2016									
5/2/2016	0.0133	0.0225							
5/3/2016			0.0104	0.0114		0.016	0.0144		0.0291
5/4/2016					0.0273			0.0299	
5/5/2016									
5/6/2016									
5/9/2016									
5/10/2016									
7/6/2016		0.0249							
7/7/2016	0.013			0.012					
7/8/2016			0.0095 (J)		0.0284	0.0156		0.0294	
7/11/2016							0.0145		0.0225
7/12/2016									
7/13/2016									
7/14/2016									
7/15/2016									
7/18/2016									
9/7/2016	0.0116	0.0251	0.0095 (J)				0.014		
9/8/2016				0.0131	0.0242	0.0144		0.0275	
9/9/2016									0.018
9/12/2016									
9/13/2016									
9/14/2016									
9/15/2016									
10/25/2016	0.0129	0.0274	0.0121	0.0122					
10/26/2016					0.021	0.0128		0.0263	0.0177
10/27/2016							0.0142		
10/31/2016									
11/1/2016									
11/2/2016									
1/5/2017	0.013	0.028							
1/6/2017			0.014		0.0219		0.0139		
1/9/2017						0.0134		0.0263	0.0183
1/11/2017									
1/12/2017									
1/13/2017									
1/25/2017									
2/9/2017				0.0104					
3/14/2017		0.02	0.009 (J)						
3/15/2017	0.0121				0.0202			0.0262	
3/16/2017						0.0129	0.0145		0.0175
3/20/2017									
3/21/2017									
3/22/2017									
3/23/2017				0.0128					
5/16/2017		0.0221	0.0084 (J)						

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 6/19/2018 3:34 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-36 (bg)	GWA-36R (bg)	GWA-37 (bg)	GWA-38 (bg)	GWA-52 (bg)	GWA-53 (bg)	GWA-53R (bg)	GWA-54 (bg)	GWA-55 (bg)
5/17/2017	0.0123			0.0113	0.0219				
5/18/2017								0.0276	0.0203
5/19/2017						0.0141	0.0161		
5/22/2017									
5/23/2017									
5/24/2017									
7/19/2017									
9/15/2017	0.0127	0.0231	0.0078 (J)		0.0209			0.0281	0.0197
9/18/2017									
9/19/2017				0.0114		0.0127	0.0153		
9/20/2017									
9/21/2017									
9/22/2017									
9/25/2017									
3/12/2018	0.014	0.023	0.006 (J)						0.023
3/13/2018				0.011	0.02	0.013	0.015	0.034	
3/14/2018									

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 6/19/2018 3:34 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-55R (bg)	GWA-56 (bg)	GWC-16R	GWC-17R	GWC-18	GWC-18R	GWC-19R	GWC-20R	GWC-21R
9/15/2014									
9/16/2014			0.069						
9/17/2014				0.019	0.035	0.015	0.018		
9/18/2014								0.031	0.023
10/3/2014									
10/4/2014			0.057	0.02	0.038	<0.0013	0.017		
10/5/2014								0.032	0.025
10/20/2014									
10/21/2014			0.056	0.02	0.034	0.027	0.017		
10/22/2014								0.03	0.025
10/23/2014									
11/5/2014					0.04		0.017	0.031	0.025
11/10/2014									
11/11/2014			0.05	0.021		0.028			
3/2/2015									
3/3/2015			0.045	0.02	0.033	0.034	0.016		
3/4/2015								0.026	0.024
3/17/2015									
3/18/2015			0.044	0.019	0.031	0.014			
3/19/2015							0.015	0.028	0.024
3/20/2015									
4/5/2015									
4/6/2015			0.045	0.02					
4/7/2015					0.038	0.017	0.017	0.031	
4/8/2015									0.027
4/9/2015									
4/21/2015									
4/22/2015									
4/23/2015			0.041	0.019	0.031	0.013			
4/24/2015							0.015	0.027	0.025
5/8/2015									
5/9/2015	0.042	0.018							
5/17/2015									
5/18/2015	0.063								
5/19/2015		0.02							
5/25/2015									
5/26/2015	0.057	0.02							
6/8/2015									
6/9/2015	0.07	0.02							
6/17/2015	0.065	0.019							
6/18/2015									
6/24/2015									
6/25/2015	0.068	0.019							
6/30/2015									
7/1/2015	0.069	0.018							
7/6/2015									
7/7/2015	0.071	0.019							
7/28/2015									
7/29/2015			0.043	0.02	0.045	0.013	0.016		
7/30/2015								0.032	0.025
8/12/2015	<0.02	<0.02							
2/29/2016									

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 6/19/2018 3:34 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-55R (bg)	GWA-56 (bg)	GWC-16R	GWC-17R	GWC-18	GWC-18R	GWC-19R	GWC-20R	GWC-21R
3/1/2016									
3/2/2016									
3/3/2016	0.0424	0.0259	0.0806 (D)						
3/4/2016				0.0262 (J)					
3/7/2016					<3	0.0129	<3		
3/8/2016								0.0298	0.0377
3/9/2016									
5/2/2016									
5/3/2016	0.0477								
5/4/2016									
5/5/2016					0.0278	0.0149			
5/6/2016									
5/9/2016		0.0236					0.0162	0.0304	0.0347
5/10/2016			0.0495	0.0204					
7/6/2016									
7/7/2016									
7/8/2016									
7/11/2016	0.0506	0.0295							
7/12/2016									
7/13/2016			0.0374		0.0255	0.0132			
7/14/2016				0.0198			0.0142	0.0307	
7/15/2016									0.0259
7/18/2016									
9/7/2016									
9/8/2016									
9/9/2016	0.0478	0.0259							0.0242
9/12/2016						0.0142	0.0154	0.0331	
9/13/2016					0.0251				
9/14/2016				0.0183					
9/15/2016			0.0542						
10/25/2016									
10/26/2016		0.0231							
10/27/2016	0.0472								0.0227
10/31/2016					0.0277		0.015	0.0321	
11/1/2016				0.0209		0.0127			
11/2/2016			0.0561						
1/5/2017									
1/6/2017									
1/9/2017	0.0507	0.0273							
1/11/2017			0.0401	0.0194		0.0146	0.0148		
1/12/2017					0.0258			0.0291	0.0253
1/13/2017									
1/25/2017									
2/9/2017									
3/14/2017									
3/15/2017		0.0286							
3/16/2017	0.0497								
3/20/2017			0.0383			0.0147			
3/21/2017				0.0201			0.0159		0.0292
3/22/2017								0.025	
3/23/2017					0.0254				
5/16/2017									

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 6/19/2018 3:34 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-55R (bg)	GWA-56 (bg)	GWC-16R	GWC-17R	GWC-18	GWC-18R	GWC-19R	GWC-20R	GWC-21R
5/17/2017									
5/18/2017	0.0466	0.0253							
5/19/2017									
5/22/2017						0.0146	0.0155	0.0276	
5/23/2017			0.0376	0.0199	0.0247				0.0282
5/24/2017									
7/19/2017									
9/15/2017		0.0247							
9/18/2017	0.0436								
9/19/2017								0.034	0.0276
9/20/2017							0.0164		
9/21/2017			0.0418			0.0152			
9/22/2017				0.0195					
9/25/2017					0.0228				
3/12/2018	0.041								
3/13/2018		0.031							
3/14/2018			0.036	0.02	0.025	0.014	0.016	0.03	0.024

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 6/19/2018 3:34 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-22R	GWC-23R	GWC-24R	GWC-25R	GWA-51R_51RZ ...
9/15/2014					
9/16/2014			0.019	0.015	
9/17/2014					
9/18/2014	0.057	0.042			
10/3/2014					
10/4/2014			0.019	0.015	
10/5/2014	0.052	0.038			
10/20/2014					
10/21/2014					
10/22/2014	0.052	0.029			
10/23/2014			0.019	0.015	
11/5/2014		0.031			
11/10/2014			0.019	0.015	
11/11/2014					
3/2/2015					
3/3/2015					
3/4/2015	0.046	0.03	0.021	0.016	
3/17/2015					
3/18/2015					
3/19/2015	0.045				
3/20/2015		0.027	0.02	0.015	
4/5/2015					
4/6/2015					
4/7/2015					
4/8/2015	0.045	0.032	0.023		
4/9/2015				0.016	
4/21/2015					
4/22/2015					
4/23/2015		0.026	0.02	0.015	
4/24/2015	0.039				
5/8/2015					0.0094
5/9/2015					
5/17/2015					0.014
5/18/2015					
5/19/2015					
5/25/2015					0.012
5/26/2015					
6/8/2015					0.0094
6/9/2015					
6/17/2015					
6/18/2015					0.0075
6/24/2015					0.0056
6/25/2015					
6/30/2015					0.0047
7/1/2015					
7/6/2015					0.0047
7/7/2015					
7/28/2015					
7/29/2015					
7/30/2015	0.039	0.029	0.021	0.015	
8/12/2015					0.00383 (J)
2/29/2016					

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 6/19/2018 3:34 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-22R	GWC-23R	GWC-24R	GWC-25R	GWA-51R_51RZ ...
3/1/2016					
3/2/2016					
3/3/2016					
3/4/2016			0.0422		
3/7/2016	0.026				
3/8/2016				0.0161	
3/9/2016		0.0284 (J)			
5/2/2016					
5/3/2016					
5/4/2016				0.0167	0.0207 (D)
5/5/2016	0.0374		0.0249		
5/6/2016		0.0233			
5/9/2016					
5/10/2016					
7/6/2016					
7/7/2016					0.0207 (D)
7/8/2016					
7/11/2016					
7/12/2016			0.0246		
7/13/2016					
7/14/2016	0.0271				
7/15/2016		0.0208			
7/18/2016				0.0162	
9/7/2016					
9/8/2016					0.0278 (D)
9/9/2016					
9/12/2016	0.045				
9/13/2016			0.0236	0.0161	
9/14/2016		0.0198			
9/15/2016					
10/25/2016					
10/26/2016					0.0204 (D)
10/27/2016	0.0359		0.0229	0.016	
10/31/2016					
11/1/2016		0.0207			
11/2/2016					
1/5/2017					
1/6/2017					0.0221 (D)
1/9/2017					
1/11/2017					
1/12/2017					
1/13/2017	0.0338		0.0292	0.015	
1/25/2017		0.0195			
2/9/2017					
3/14/2017					
3/15/2017					0.0172 (D)
3/16/2017				0.0163	
3/20/2017	0.033		0.029		
3/21/2017					
3/22/2017		0.0211			
3/23/2017					
5/16/2017					

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 6/19/2018 3:34 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-22R	GWC-23R	GWC-24R	GWC-25R	GWA-51R_51RZ ...
5/17/2017					
5/18/2017					0.0181 (D)
5/19/2017			0.0295	0.0164	
5/22/2017					
5/23/2017	0.0287				
5/24/2017		0.0217			
7/19/2017					0.018 (D)
9/15/2017					
9/18/2017					
9/19/2017	0.0389		0.0248	0.0147	0.0271 (D)
9/20/2017					
9/21/2017		0.0226			
9/22/2017					
9/25/2017					
3/12/2018					
3/13/2018	0.028		0.031	0.015	0.017 (D)
3/14/2018		0.024			

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 6/19/2018 3:34 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-36R (bg)	GWA-36 (bg)	GWC-25R	GWC-16R	GWA-38 (bg)	GWC-24R	GWA-37 (bg)	GWC-19R	GWC-17R
9/15/2014	0.013122	0.010032 (J)							
9/16/2014			0.010572000..	0.010572000..	0.010572000..	0.010572000..	0.010572000..		
9/17/2014								0.010572000..	0.010572000..
9/18/2014									
10/3/2014	0.010572000..	0.010572000..			0.010005 (J)		0.010572000..		
10/4/2014			0.010572000..	0.010572000..		0.010572000..		0.010572000..	0.010572000..
10/5/2014									
10/20/2014	0.011322	0.010572000..			0.01 (J)		0.010572000..		
10/21/2014				0.010572000..				0.010572000..	0.010572000..
10/22/2014									
10/23/2014			0.010572000..			0.010572000..			
11/5/2014								0.010662719..	
11/10/2014	0.010662719..	0.010662719..	0.010662719..		0.01009 (J)	0.010662719..	0.010662719..		
11/11/2014				0.010662719..					0.010662719..
3/2/2015	0.010629409..	0.010629409..			0.01032 (J)		0.010629409..		
3/3/2015				0.010629409..				0.010629409..	0.010629409..
3/4/2015			0.010629409..			0.010629409..			
3/17/2015	0.01006 (J)	0.01008 (J)			0.01012 (J)		0.010629409..		
3/18/2015				0.010629409..					0.010629409..
3/19/2015								0.010629409..	
3/20/2015			0.010629409..			0.010629409..			
4/5/2015	0.01036 (J)	0.0101 (J)					0.010629409..		
4/6/2015				0.010629409..	0.010629409..				0.010629409..
4/7/2015								0.010629409..	
4/8/2015						0.010629409..			
4/9/2015			0.010629409..						
4/21/2015	0.01108 (J)	0.01031 (J)							
4/22/2015					0.01006 (J)		0.01006 (J)		
4/23/2015			0.010629409..	0.010629409..		0.010629409..			0.010629409..
4/24/2015								0.010629409..	
5/8/2015									
5/9/2015									
5/17/2015									
5/18/2015									
5/19/2015									
5/25/2015									
5/26/2015									
6/8/2015									
6/9/2015									
6/17/2015									
6/18/2015									
6/24/2015									
6/25/2015									
6/30/2015									
7/1/2015									
7/6/2015									
7/7/2015									
7/28/2015	0.01103 (J)	0.01025 (J)			0.010763339..		0.010763339..		
7/29/2015				0.010763339..				0.010763339..	0.010763339..
7/30/2015			0.010763339..			0.010763339..			
8/12/2015									
2/29/2016									

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 6/19/2018 3:34 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-36R (bg)	GWA-36 (bg)	GWC-25R	GWC-16R	GWA-38 (bg)	GWC-24R	GWA-37 (bg)	GWC-19R	GWC-17R
3/1/2016	0.011479409..	0.011479409..					0.011479409..		
3/2/2016					0.011479409..				
3/3/2016				0.011479409.. (D)					
3/4/2016						0.014979409..			0.012479409..
3/7/2016								0.012479409..	
3/8/2016			0.012479409..						
3/9/2016									
5/2/2016	0.011613339..	0.011613339..							
5/3/2016					0.011613339..		0.011613339..		
5/4/2016			0.011613339..						
5/5/2016						0.011613339..			
5/6/2016									
5/9/2016								0.011613339..	
5/10/2016				0.011613339..					0.011613339..
7/6/2016	0.01031 (J)								
7/7/2016		0.01021 (J)			0.011613339..				
7/8/2016							0.011613339..		
7/11/2016									
7/12/2016						0.011613339..			
7/13/2016				0.011613339..					
7/14/2016								0.011613339..	0.011613339..
7/15/2016									
7/18/2016			0.011613339..						
9/7/2016	0.011422000..	0.010022 (J)					0.011422000..		
9/8/2016					0.011422000..				
9/9/2016									
9/12/2016								0.011422000..	
9/13/2016			0.011422000..			0.011422000..			
9/14/2016									0.011422000..
9/15/2016				0.011422000..					
10/25/2016	0.011422000..	0.011422000..			0.011422000..		0.011422000..		
10/26/2016									
10/27/2016			0.011422000..			0.011422000..			
10/31/2016								0.011422000..	
11/1/2016									0.011512719..
11/2/2016				0.011512719..					
1/5/2017	0.01011 (J)	0.01011 (J)							
1/6/2017							0.011512719..		
1/9/2017									
1/11/2017				0.011512719..				0.011512719..	0.011512719..
1/12/2017									
1/13/2017			0.011512719..			0.011512719..			
1/25/2017									
2/9/2017					0.011479409..				
3/14/2017	0.01008 (J)						0.011479409..		
3/15/2017		0.01018 (J)							
3/16/2017			0.011479409..						
3/20/2017				0.011479409..		0.011479409..			
3/21/2017								0.011479409..	0.011479409..
3/22/2017									
3/23/2017					0.011479409..				
5/16/2017	0.011613339..						0.011613339..		

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 6/19/2018 3:34 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-36R (bg)	GWA-36 (bg)	GWC-25R	GWC-16R	GWA-38 (bg)	GWC-24R	GWA-37 (bg)	GWC-19R	GWC-17R
5/17/2017		0.01031 (J)			0.011613339..				
5/18/2017									
5/19/2017			0.011613339..			0.011613339..			
5/22/2017								0.011613339..	
5/23/2017				0.011613339..					0.011613339..
5/24/2017									
7/19/2017									
9/15/2017	0.011422000..	0.010122 (J)					0.011422000..		
9/18/2017									
9/19/2017			0.011422000..		0.011422000..	0.011422000..			
9/20/2017								0.010022 (J)	
9/21/2017				0.011422000..					
9/22/2017									0.011422000..
9/25/2017									
3/12/2018	0.01004 (J)	0.01015 (J)					0.011479409..		
3/13/2018			0.011479409..		0.011479409..	0.011479409..			
3/14/2018				0.011479409..				0.01004 (J)	0.011479409..

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 6/19/2018 3:34 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-18	GWC-18R	GWC-20R	GWC-21R	GWC-22R	GWC-23R	GWA-51R_51RZ ...	GWA-53R (bg)	GWA-52 (bg)
9/15/2014									
9/16/2014									
9/17/2014	0.010572000..	0.01 (J)							
9/18/2014			0.010572000..	0.010572000..	0.010572000..	0.010572000..			
10/3/2014									
10/4/2014	0.010572000..	0.010572000..							
10/5/2014			0.010572000..	0.010572000..	0.010572000..	0.010572000..			
10/20/2014									
10/21/2014	0.010572000..	0.010572000..							
10/22/2014			0.010572000..	0.010572000..	0.010572000..	0.010572000..			
10/23/2014									
11/5/2014	0.0101 (J)		0.010662719..	0.010662719..	0.010662719..	0.010662719..			
11/10/2014									
11/11/2014		0.010662719..							
3/2/2015									
3/3/2015	0.010629409..	0.010629409..							
3/4/2015			0.010629409..	0.010629409..	0.010629409..	0.010629409..			
3/17/2015									
3/18/2015	0.010629409..	0.010629409..							
3/19/2015			0.010629409..	0.010629409..	0.010629409..				
3/20/2015						0.010629409..			
4/5/2015									
4/6/2015									
4/7/2015	0.010629409..	0.010629409..	0.010629409..						
4/8/2015				0.010629409..	0.010629409..	0.010629409..			
4/9/2015									
4/21/2015									
4/22/2015									
4/23/2015	0.01006 (J)	0.010629409..				0.010629409..			
4/24/2015			0.01006 (J)	0.010629409..	0.010629409..				
5/8/2015							0.010763339..	0.010763339..	0.010763339..
5/9/2015									
5/17/2015							0.01033 (J)	0.010763339..	0.010763339..
5/18/2015									
5/19/2015									
5/25/2015							0.010763339..	0.010763339..	0.010763339..
5/26/2015									
6/8/2015							0.010763339..	0.010763339..	0.010763339..
6/9/2015									
6/17/2015									
6/18/2015							0.010763339..	0.010763339..	0.010763339..
6/24/2015							0.010763339..	0.010763339..	0.010763339..
6/25/2015									
6/30/2015							0.010763339..	0.01025 (J)	0.010763339..
7/1/2015									
7/6/2015							0.010763339..	0.010763339..	0.010763339..
7/7/2015									
7/28/2015									
7/29/2015	0.010763339..	0.010763339..							
7/30/2015			0.010763339..	0.010763339..	0.010763339..	0.010763339..			
8/12/2015							0.011922000..	0.011922000..	0.011922000..
2/29/2016									0.011479409..

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 6/19/2018 3:34 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-18	GWC-18R	GWC-20R	GWC-21R	GWC-22R	GWC-23R	GWA-51R_51RZ ...	GWA-53R (bg)	GWA-52 (bg)
3/1/2016									
3/2/2016								0.011479409..	
3/3/2016									
3/4/2016									
3/7/2016	0.012479409..	0.012479409..			0.012479409..				
3/8/2016			0.012479409..	0.014979409..					
3/9/2016						0.012479409..			
5/2/2016									
5/3/2016								0.011613339..	
5/4/2016							0.011613339.. (D)		0.011613339..
5/5/2016	0.011613339..	0.011613339..			0.011613339..				
5/6/2016						0.011613339..			
5/9/2016			0.011613339..	0.011613339..					
5/10/2016									
7/6/2016									
7/7/2016							0.011613339.. (D)		
7/8/2016									0.011613339..
7/11/2016								0.011613339..	
7/12/2016									
7/13/2016	0.011613339..	0.011613339..							
7/14/2016			0.011613339..		0.011613339..				
7/15/2016				0.011613339..		0.011613339..			
7/18/2016									
9/7/2016								0.011422000..	
9/8/2016							0.011422000.. (D)		0.011422000..
9/9/2016				0.011422000..					
9/12/2016		0.011422000..	0.011422000..		0.011422000..				
9/13/2016	0.011422000..								
9/14/2016						0.011422000..			
9/15/2016									
10/25/2016									
10/26/2016							0.011422000.. (D)		0.011422000..
10/27/2016				0.011422000..	0.011422000..			0.011422000..	
10/31/2016	0.011422000..		0.011422000..						
11/1/2016		0.011512719..				0.011512719..			
11/2/2016									
1/5/2017									
1/6/2017							0.011512719.. (D)	0.011512719..	0.011512719..
1/9/2017									
1/11/2017		0.011512719..							
1/12/2017	0.011512719..		0.011512719..	0.011512719..					
1/13/2017					0.011512719..				
1/25/2017						0.011512719..			
2/9/2017									
3/14/2017									
3/15/2017							0.011479409.. (D)		0.011479409..
3/16/2017								0.011479409..	
3/20/2017		0.011479409..			0.011479409..				
3/21/2017				0.011479409..					
3/22/2017			0.011479409..			0.011479409..			
3/23/2017	0.011479409..								
5/16/2017									

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 6/19/2018 3:34 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-18	GWC-18R	GWC-20R	GWC-21R	GWC-22R	GWC-23R	GWA-51R_51RZ ...	GWA-53R (bg)	GWA-52 (bg)
5/17/2017									0.011613339..
5/18/2017							0.011613339.. (D)		
5/19/2017								0.011613339..	
5/22/2017		0.011613339..	0.011613339..						
5/23/2017	0.011613339..			0.011613339..	0.011613339..				
5/24/2017						0.011613339..			
7/19/2017							0.011613339.. (D)		
9/15/2017									0.011422000..
9/18/2017									
9/19/2017			0.011422000..	0.011422000..	0.011422000..		0.011422000.. (D)	0.011422000..	
9/20/2017									
9/21/2017		0.011422000..				0.011422000..			
9/22/2017									
9/25/2017	0.011422000..								
3/12/2018									
3/13/2018					0.011479409..		0.011479409.. (D)	0.011479409..	0.011479409..
3/14/2018	0.011479409..	0.01009 (J)	0.011479409..	0.011479409..		0.011479409..			

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 6/19/2018 3:34 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-53 (bg)	GWA-54 (bg)	GWA-56 (bg)	GWA-55R (bg)	GWA-55 (bg)
9/15/2014					
9/16/2014					
9/17/2014					
9/18/2014					
10/3/2014					
10/4/2014					
10/5/2014					
10/20/2014					
10/21/2014					
10/22/2014					
10/23/2014					
11/5/2014					
11/10/2014					
11/11/2014					
3/2/2015					
3/3/2015					
3/4/2015					
3/17/2015					
3/18/2015					
3/19/2015					
3/20/2015					
4/5/2015					
4/6/2015					
4/7/2015					
4/8/2015					
4/9/2015					
4/21/2015					
4/22/2015					
4/23/2015					
4/24/2015					
5/8/2015					
5/9/2015	0.010763339..	0.010763339..	0.010763339..	0.010763339..	0.010763339..
5/17/2015					
5/18/2015	0.010763339..	0.010763339..		0.01022 (J)	0.010763339..
5/19/2015			0.010763339..		
5/25/2015	0.010763339..	0.010763339..			
5/26/2015			0.010763339..	0.010763339..	0.010763339..
6/8/2015	0.010763339..				
6/9/2015		0.010763339..	0.010763339..	0.01036 (J)	0.010763339..
6/17/2015	0.010763339..	0.010763339..	0.010763339..	0.010763339..	0.010763339..
6/18/2015					
6/24/2015	0.010763339..				
6/25/2015		0.010763339..	0.010763339..	0.010763339..	0.010763339..
6/30/2015	0.010763339..				
7/1/2015		0.010763339..	0.010763339..	0.01035 (J)	0.010763339..
7/6/2015	0.010763339..				
7/7/2015		0.010763339..	0.010763339..	0.010763339..	0.01023 (J)
7/28/2015					
7/29/2015					
7/30/2015					
8/12/2015	0.011922000..	0.011922000..	0.011922000..	0.011922000..	0.011922000..
2/29/2016					

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 6/19/2018 3:34 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-53 (bg)	GWA-54 (bg)	GWA-56 (bg)	GWA-55R (bg)	GWA-55 (bg)
3/1/2016					
3/2/2016	0.011479409..	0.011479409..			0.011479409..
3/3/2016			0.012479409..	0.011479409..	
3/4/2016					
3/7/2016					
3/8/2016					
3/9/2016					
5/2/2016					
5/3/2016	0.011613339..			0.011613339..	0.011613339..
5/4/2016		0.011613339..			
5/5/2016					
5/6/2016					
5/9/2016			0.011613339..		
5/10/2016					
7/6/2016					
7/7/2016					
7/8/2016	0.011613339..	0.011613339..			
7/11/2016			0.01021 (J)	0.011613339..	0.011613339..
7/12/2016					
7/13/2016					
7/14/2016					
7/15/2016					
7/18/2016					
9/7/2016					
9/8/2016	0.011422000..	0.011422000..			
9/9/2016			0.011422000..	0.011422000..	0.011422000..
9/12/2016					
9/13/2016					
9/14/2016					
9/15/2016					
10/25/2016					
10/26/2016	0.011422000..	0.011422000..	0.011422000..		0.011422000..
10/27/2016				0.011422000..	
10/31/2016					
11/1/2016					
11/2/2016					
1/5/2017					
1/6/2017					
1/9/2017	0.011512719..	0.011512719..	0.011512719..	0.011512719..	0.011512719..
1/11/2017					
1/12/2017					
1/13/2017					
1/25/2017					
2/9/2017					
3/14/2017					
3/15/2017		0.011479409..	0.011479409..		
3/16/2017	0.011479409..			0.011479409..	0.011479409..
3/20/2017					
3/21/2017					
3/22/2017					
3/23/2017					
5/16/2017					

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 6/19/2018 3:34 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-53 (bg)	GWA-54 (bg)	GWA-56 (bg)	GWA-55R (bg)	GWA-55 (bg)
5/17/2017					
5/18/2017		0.011613339..	0.011613339..	0.011613339..	0.011613339..
5/19/2017	0.011613339..				
5/22/2017					
5/23/2017					
5/24/2017					
7/19/2017					
9/15/2017		0.011422000..	0.011422000..		0.011422000..
9/18/2017				0.011422000..	
9/19/2017	0.011422000..				
9/20/2017					
9/21/2017					
9/22/2017					
9/25/2017					
3/12/2018				0.011479409..	0.011479409..
3/13/2018	0.011479409..	0.011479409..	0.011479409..		
3/14/2018					

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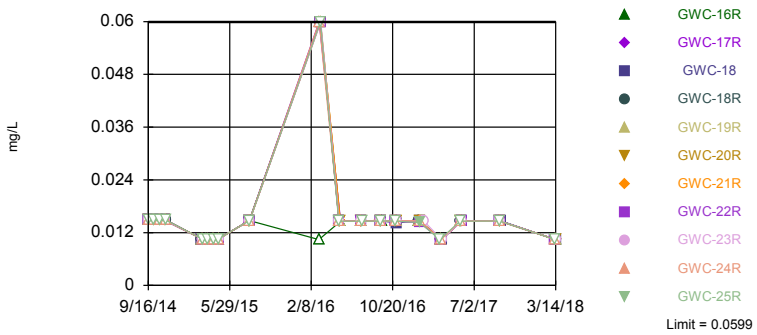
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 228 background values. 83.77% NDs. Report alpha = 0.04603. Individual comparison alpha = 0.004274. Most recent point for each compliance well compared to limit. Data were deseasonalized.

Constituent: Cadmium Analysis Run 6/19/2018 3:20 PM View: cell_3&4_metals_interwell
Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

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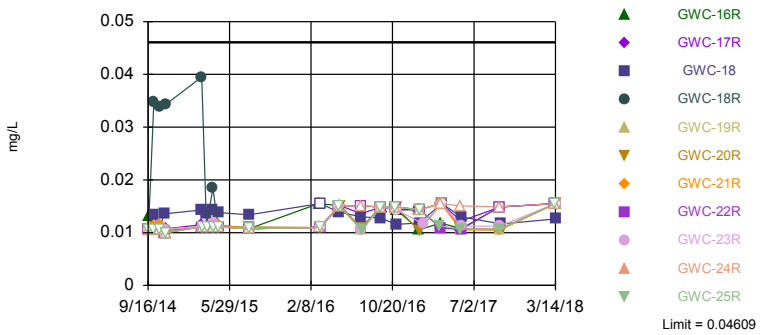
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 228 background values. 65.79% NDs. Report alpha = 0.04603. Individual comparison alpha = 0.004274. Most recent point for each compliance well compared to limit. Data were deseasonalized.

Constituent: Chromium Analysis Run 6/19/2018 3:21 PM View: cell_3&4_metals_interwell
Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

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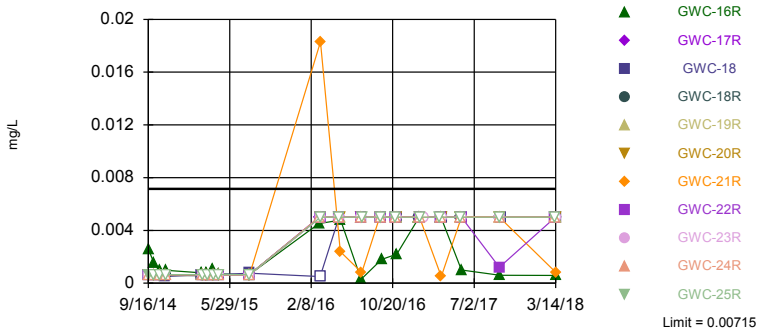
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 227 background values. 77.09% NDs. Report alpha = 0.04622. Individual comparison alpha = 0.004293. Most recent point for each compliance well compared to limit. Seasonality was not detected with 95% confidence.

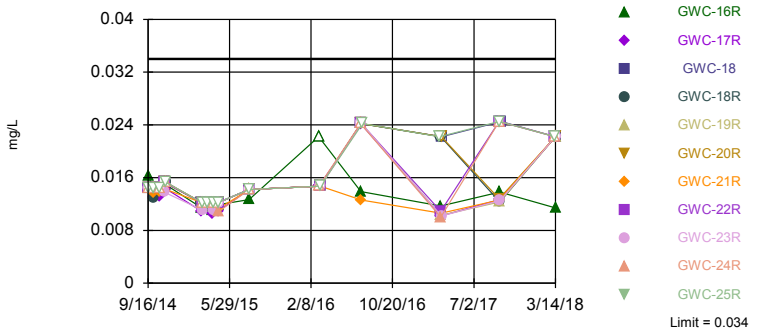
Constituent: Cobalt Analysis Run 6/19/2018 3:21 PM View: cell_3&4_metals_interwell
Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Sanitas™ v.9.5.32 Sanitas software licensed to AMEC. EPA
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 167 background values. 74.85% NDs. Report alpha = 0.0618. Individual comparison alpha = 0.005782. Most recent point for each compliance well compared to limit. Data were deseasonalized.

Constituent: Copper Analysis Run 6/19/2018 3:21 PM View: cell_3&4_metals_interwell
Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 6/19/2018 3:34 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-36R (bg)	GWA-36 (bg)	GWC-25R	GWC-16R	GWA-38 (bg)	GWC-24R	GWA-37 (bg)	GWC-19R	GWC-17R
9/15/2014	0.01515 (J)	0.0145 (J)							
9/16/2014			0.014801145..	0.014801145..	0.014801145..	0.014801145..	0.014801145..		
9/17/2014								0.014801145..	0.014801145..
9/18/2014									
10/3/2014	0.014801145..	0.014801145..			0.014801145..		0.014801145..		
10/4/2014			0.014801145..	0.014801145..		0.014801145..		0.014801145..	0.014801145..
10/5/2014									
10/20/2014	0.01451 (J)	0.014801145..			0.014801145..		0.014801145..		
10/21/2014				0.014801145..				0.014801145..	0.014801145..
10/22/2014									
10/23/2014			0.014801145..			0.014801145..			
11/5/2014								0.014810928..	
11/10/2014	0.014810928..	0.01449 (J)	0.014810928..		0.014810928..	0.014810928..	0.01442 (J)		
11/11/2014				0.014810928..					0.014810928..
3/2/2015	0.010550000..	0.010550000..			0.01025 (J)		0.010550000..		
3/3/2015				0.010550000..				0.010550000..	0.010550000..
3/4/2015			0.010550000..			0.010550000..			
3/17/2015	0.010550000..	0.01047 (J)			0.010550000..		0.010550000..		
3/18/2015				0.010550000..					0.010550000..
3/19/2015								0.010550000..	
3/20/2015			0.010550000..			0.010550000..			
4/5/2015	0.010550000..	0.01058 (J)					0.010550000..		
4/6/2015				0.010550000..	0.010550000..				0.010550000..
4/7/2015								0.010550000..	
4/8/2015						0.010550000..			
4/9/2015			0.010550000..						
4/21/2015	0.01034 (J)	0.011 (J)							
4/22/2015					0.010550000..		0.010550000..		
4/23/2015			0.010550000..	0.010550000..		0.010550000..			0.010550000..
4/24/2015								0.010550000..	
5/8/2015									
5/9/2015									
5/17/2015									
5/18/2015									
5/19/2015									
5/25/2015									
5/26/2015									
6/8/2015									
6/9/2015									
6/17/2015									
6/18/2015									
6/24/2015									
6/25/2015									
6/30/2015									
7/1/2015									
7/6/2015									
7/7/2015									
7/28/2015	0.01438 (J)	0.01484 (J)			0.014763390..		0.014763390..		
7/29/2015				0.014763390..				0.014763390..	0.014763390..
7/30/2015			0.014763390..			0.014763390..			
8/12/2015									
8/13/2015									

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 6/19/2018 3:34 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-36R (bg)	GWA-36 (bg)	GWC-25R	GWC-16R	GWA-38 (bg)	GWC-24R	GWA-37 (bg)	GWC-19R	GWC-17R
2/29/2016									
3/1/2016	0.010107 (J)	0.01093					0.010003 (J)		
3/2/2016					0.010009 (J)				
3/3/2016				0.010400000.. (D)					
3/4/2016						0.059900000..			0.059900000..
3/7/2016								0.059900000..	
3/8/2016			0.059900000..						
3/9/2016									
5/2/2016	0.01427 (J)	0.01496 (J)							
5/3/2016					0.014613390..		0.014613390..		
5/4/2016			0.014613390..						
5/5/2016						0.014613390..			
5/6/2016									
5/9/2016								0.014613390..	
5/10/2016				0.014613390..					0.014613390..
7/6/2016	0.01431 (J)								
7/7/2016		0.01481 (J)			0.014613390..				
7/8/2016							0.014613390..		
7/11/2016									
7/12/2016						0.014613390..			
7/13/2016				0.014613390..					
7/14/2016								0.014613390..	0.014613390..
7/15/2016									
7/18/2016			0.014613390..						
9/7/2016	0.01435 (J)	0.01485 (J)					0.014651145..		
9/8/2016					0.01425 (J)				
9/9/2016									
9/12/2016								0.014651145..	
9/13/2016			0.014651145..			0.014651145..			
9/14/2016									0.014651145..
9/15/2016				0.014651145..					
10/25/2016	0.01435 (J)	0.01485 (J)			0.014651145..		0.014651145..		
10/26/2016									
10/27/2016			0.014651145..			0.014651145..			
10/31/2016								0.014651145..	
11/1/2016									0.014660928..
11/2/2016				0.014660928..					
1/5/2017	0.014660928.. (*)	0.01496 (J)							
1/6/2017							0.014660928.. (*)		
1/9/2017									
1/11/2017				0.014660928.. (*)				0.014660928..	0.014660928.. (*)
1/12/2017									
1/13/2017			0.01426 (J)			0.014660928..			
1/25/2017									
2/9/2017					0.01 (J)				
3/14/2017	0.010400000.. (*)						0.010400000.. (*)		
3/15/2017		0.0112							
3/16/2017			0.010400000.. (*)						
3/20/2017				0.010400000..		0.010400000..			
3/21/2017								0.010400000..	0.010400000..
3/22/2017									
3/23/2017					0.01 (J)				

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 6/19/2018 3:34 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-36R (bg)	GWA-36 (bg)	GWC-25R	GWC-16R	GWA-38 (bg)	GWC-24R	GWA-37 (bg)	GWC-19R	GWC-17R
5/16/2017	0.01421 (J)						0.014613390..		
5/17/2017		0.01511			0.01421 (J)				
5/18/2017									
5/19/2017			0.014613390..			0.014613390..			
5/22/2017								0.014613390..	
5/23/2017				0.014613390..					0.014613390..
5/24/2017									
7/19/2017									
9/15/2017	0.014651145..	0.01525					0.014651145..		
9/18/2017									
9/19/2017			0.014651145..		0.014651145..	0.014651145..			
9/20/2017								0.014651145..	
9/21/2017				0.014651145..					
9/22/2017									0.014651145..
9/25/2017									
3/12/2018	0.01003 (J)	0.011					0.010400000..		
3/13/2018			0.010400000..		0.010400000..	0.010400000..			
3/14/2018				0.010400000..				0.010400000..	0.010400000..

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 6/19/2018 3:34 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-18	GWC-18R	GWC-20R	GWC-21R	GWC-22R	GWC-23R	GWA-51R_51RZ ...	GWA-53R (bg)	GWA-52 (bg)
9/15/2014									
9/16/2014									
9/17/2014	0.014801145..	0.014801145..							
9/18/2014			0.014801145..	0.014801145..	0.014801145..	0.014801145..			
10/3/2014									
10/4/2014	0.014801145..	0.014801145..							
10/5/2014			0.014801145..	0.014801145..	0.014801145..	0.014801145..			
10/20/2014									
10/21/2014	0.014801145..	0.014801145..							
10/22/2014			0.014801145..	0.014801145..	0.014801145..	0.014801145..			
10/23/2014									
11/5/2014	0.014810928..		0.014810928..	0.014810928..	0.014810928..	0.014810928..			
11/10/2014									
11/11/2014		0.014810928..							
3/2/2015									
3/3/2015	0.010550000..	0.010550000..							
3/4/2015			0.010550000..	0.010550000..	0.010550000..	0.010550000..			
3/17/2015									
3/18/2015	0.010550000..	0.010550000..							
3/19/2015			0.010550000..	0.010550000..	0.010550000..				
3/20/2015						0.010550000..			
4/5/2015									
4/6/2015									
4/7/2015	0.010550000..	0.010550000..	0.010550000..						
4/8/2015				0.010550000..	0.010550000..	0.010550000..			
4/9/2015									
4/21/2015									
4/22/2015									
4/23/2015	0.010550000..	0.010550000..				0.010550000..			
4/24/2015			0.010550000..	0.010550000..	0.010550000..				
5/8/2015							0.014763390..	0.014763390..	0.014763390..
5/9/2015									
5/17/2015							0.0144 (J)	0.014763390..	0.014763390..
5/18/2015									
5/19/2015									
5/25/2015							0.014763390..	0.014763390..	0.014763390..
5/26/2015									
6/8/2015							0.014763390..	0.014763390..	0.014763390..
6/9/2015									
6/17/2015									
6/18/2015							0.014763390..	0.014763390..	0.014763390..
6/24/2015							0.014763390..	0.014763390..	0.014763390..
6/25/2015									
6/30/2015							0.014763390..	0.014763390..	0.014763390..
7/1/2015									
7/6/2015							0.014763390..	0.014763390..	0.014763390..
7/7/2015									
7/28/2015									
7/29/2015	0.014763390..	0.014763390..							
7/30/2015			0.014763390..	0.014763390..	0.014763390..	0.014763390..			
8/12/2015							0.014401145..	0.014401145..	0.014401145..
8/13/2015									

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 6/19/2018 3:34 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-18	GWC-18R	GWC-20R	GWC-21R	GWC-22R	GWC-23R	GWA-51R_51RZ ...	GWA-53R (bg)	GWA-52 (bg)
2/29/2016									0.010400000..
3/1/2016									
3/2/2016								0.010400000..	
3/3/2016									
3/4/2016									
3/7/2016	0.059900000..	0.059900000..			0.059900000..				
3/8/2016			0.059900000..	0.059900000..					
3/9/2016						0.059900000..			
5/2/2016									
5/3/2016								0.014613390..	
5/4/2016							0.014613390.. (D)		0.014613390..
5/5/2016	0.014613390..	0.014613390..			0.014613390..				
5/6/2016						0.014613390..			
5/9/2016			0.014613390..	0.014613390..					
5/10/2016									
7/6/2016									
7/7/2016							0.014613390.. (D)		
7/8/2016									0.014613390..
7/11/2016								0.014613390..	
7/12/2016									
7/13/2016	0.014613390..	0.014613390..							
7/14/2016			0.014613390..		0.014613390..				
7/15/2016				0.014613390..		0.014613390..			
7/18/2016									
9/7/2016								0.014651145..	
9/8/2016							0.014651145.. (D)		0.014651145..
9/9/2016				0.014651145..					
9/12/2016		0.014651145..	0.014651145..		0.014651145..				
9/13/2016	0.014651145..								
9/14/2016						0.014651145..			
9/15/2016									
10/25/2016									
10/26/2016							0.014651145.. (D)		0.014651145..
10/27/2016				0.014651145..	0.014651145..			0.014651145..	
10/31/2016	0.01423 (J)		0.014651145..						
11/1/2016		0.014660928..				0.014660928..			
11/2/2016									
1/5/2017									
1/6/2017							0.014660928.. (D)	0.014660928..	0.014660928..
1/9/2017									
1/11/2017		0.014660928.. (*)							
1/12/2017	0.014660928.. (*)		0.014660928.. (*)	0.014660928.. (*)					
1/13/2017					0.01424 (J)				
1/25/2017						0.014660928..			
2/9/2017									
3/14/2017									
3/15/2017							0.0102 (D)		0.010400000.. (*)
3/16/2017								0.010400000..	
3/20/2017		0.010400000..			0.010400000..				
3/21/2017				0.010400000..					
3/22/2017			0.010400000..			0.010400000..			
3/23/2017	0.010400000..								

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 6/19/2018 3:35 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-18	GWC-18R	GWC-20R	GWC-21R	GWC-22R	GWC-23R	GWA-51R_51RZ ...	GWA-53R (bg)	GWA-52 (bg)
5/16/2017									
5/17/2017									0.014613390..
5/18/2017							0.014613390.. (D)		
5/19/2017								0.014613390..	
5/22/2017		0.014613390..	0.014613390..						
5/23/2017	0.014613390..			0.014613390..	0.014613390..				
5/24/2017						0.014613390..			
7/19/2017							0.014613390.. (D)		
9/15/2017									0.014651145..
9/18/2017									
9/19/2017			0.014651145..	0.014651145..	0.014651145..		0.014651145.. (D)	0.014651145..	
9/20/2017									
9/21/2017		0.014651145..				0.014651145..			
9/22/2017									
9/25/2017	0.014651145..								
3/12/2018									
3/13/2018					0.010400000..		0.010400000.. (D)	0.010400000..	0.010400000..
3/14/2018	0.010400000..	0.010400000..	0.010400000..	0.010400000..		0.010400000..			

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 6/19/2018 3:35 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-53 (bg)	GWA-54 (bg)	GWA-56 (bg)	GWA-55R (bg)	GWA-55 (bg)
9/15/2014					
9/16/2014					
9/17/2014					
9/18/2014					
10/3/2014					
10/4/2014					
10/5/2014					
10/20/2014					
10/21/2014					
10/22/2014					
10/23/2014					
11/5/2014					
11/10/2014					
11/11/2014					
3/2/2015					
3/3/2015					
3/4/2015					
3/17/2015					
3/18/2015					
3/19/2015					
3/20/2015					
4/5/2015					
4/6/2015					
4/7/2015					
4/8/2015					
4/9/2015					
4/21/2015					
4/22/2015					
4/23/2015					
4/24/2015					
5/8/2015					
5/9/2015	0.014763390..	0.014763390..	0.014763390..	0.014763390..	0.014763390..
5/17/2015					
5/18/2015	0.014763390..	0.014763390..		0.014763390..	0.014763390..
5/19/2015			0.014763390..		
5/25/2015	0.014763390..	0.014763390..			
5/26/2015			0.014763390..	0.014763390..	0.014763390..
6/8/2015	0.014763390..				
6/9/2015		0.014763390..	0.014763390..	0.014763390..	0.014763390..
6/17/2015	0.014763390..	0.014763390..	0.014763390..	0.014763390..	0.014763390..
6/18/2015					
6/24/2015	0.014763390..				
6/25/2015		0.014763390..	0.014763390..	0.014763390..	0.014763390..
6/30/2015	0.014763390..				
7/1/2015		0.014763390..	0.014763390..	0.014763390..	0.014763390..
7/6/2015	0.014763390..				
7/7/2015		0.014763390..	0.014763390..	0.014763390..	0.014763390..
7/28/2015					
7/29/2015					
7/30/2015					
8/12/2015	0.014401145..	0.014401145..			
8/13/2015			0.014401145..	0.014401145..	0.014401145..

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 6/19/2018 3:35 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-53 (bg)	GWA-54 (bg)	GWA-56 (bg)	GWA-55R (bg)	GWA-55 (bg)
2/29/2016					
3/1/2016					
3/2/2016	0.010400000..	0.010400000..			0.010400000..
3/3/2016			0.059900000..	0.010400000..	
3/4/2016					
3/7/2016					
3/8/2016					
3/9/2016					
5/2/2016					
5/3/2016	0.014613390..			0.014613390..	0.014613390..
5/4/2016		0.014613390..			
5/5/2016					
5/6/2016					
5/9/2016			0.014613390..		
5/10/2016					
7/6/2016					
7/7/2016					
7/8/2016	0.014613390..	0.014613390..			
7/11/2016			0.014613390..	0.014613390..	0.014613390..
7/12/2016					
7/13/2016					
7/14/2016					
7/15/2016					
7/18/2016					
9/7/2016					
9/8/2016	0.014651145..	0.014651145..			
9/9/2016			0.014651145..	0.014651145..	0.014651145..
9/12/2016					
9/13/2016					
9/14/2016					
9/15/2016					
10/25/2016					
10/26/2016	0.014651145..	0.014651145..	0.014651145..		0.014651145..
10/27/2016				0.014651145..	
10/31/2016					
11/1/2016					
11/2/2016					
1/5/2017					
1/6/2017					
1/9/2017	0.014660928..	0.014660928..	0.014660928..	0.014660928.. (*)	0.014660928.. (*)
1/11/2017					
1/12/2017					
1/13/2017					
1/25/2017					
2/9/2017					
3/14/2017					
3/15/2017		0.010400000.. (*)	0.010400000.. (*)		
3/16/2017	0.010400000.. (*)			0.010400000.. (*)	0.010400000..
3/20/2017					
3/21/2017					
3/22/2017					
3/23/2017					

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 6/19/2018 3:35 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-53 (bg)	GWA-54 (bg)	GWA-56 (bg)	GWA-55R (bg)	GWA-55 (bg)
5/16/2017					
5/17/2017					
5/18/2017		0.014613390..	0.014613390..	0.014613390..	0.014613390..
5/19/2017	0.014613390..				
5/22/2017					
5/23/2017					
5/24/2017					
7/19/2017					
9/15/2017		0.014651145..	0.014651145..		0.014651145..
9/18/2017				0.014651145..	
9/19/2017	0.014651145..				
9/20/2017					
9/21/2017					
9/22/2017					
9/25/2017					
3/12/2018				0.010400000..	0.010400000..
3/13/2018	0.010400000..	0.010400000..	0.010400000..		
3/14/2018					

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 6/19/2018 3:35 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-36R (bg)	GWA-36 (bg)	GWC-25R	GWC-16R	GWA-38 (bg)	GWC-24R	GWA-37 (bg)	GWC-19R	GWC-17R
9/15/2014	0.01267	0.010518240..							
9/16/2014			0.010518240..	0.01317	0.01247	0.010518240..	0.01137		
9/17/2014								0.010518240..	0.010518240..
9/18/2014									
10/3/2014	0.010518240..	0.010518240..			0.01197		0.01137		
10/4/2014			0.010518240..	0.01097 (J)		0.010518240..		0.01087 (J)	0.010518240..
10/5/2014									
10/20/2014	0.01277	0.010518240..			0.01217		0.01097 (J)		
10/21/2014				0.010518240..				0.01097 (J)	0.010518240..
10/22/2014									
10/23/2014			0.010518240..			0.010518240..			
11/5/2014								0.01035 (J)	
11/10/2014	0.01105	0.01	0.01		0.01155	0.01	0.01		
11/11/2014				0.01					0.01075
3/2/2015	0.011146643..	0.011146643..			0.0126		0.011146643..		
3/3/2015				0.011146643..				0.011146643..	0.0115 (J)
3/4/2015			0.011146643..			0.011146643..			
3/17/2015	0.011146643..	0.011146643..			0.0127		0.011146643..		
3/18/2015				0.011146643..					0.011146643..
3/19/2015								0.011146643..	
3/20/2015			0.011146643..			0.011146643..			
4/5/2015	0.011146643..	0.011146643..					0.011146643..		
4/6/2015				0.011146643..	0.0121				0.011146643..
4/7/2015								0.011146643..	
4/8/2015						0.011146643..			
4/9/2015			0.011146643..						
4/21/2015	0.0123	0.0116 (J)							
4/22/2015					0.0118		0.011146643..		
4/23/2015			0.011146643..	0.0115 (J)		0.011146643..			0.011146643..
4/24/2015								0.011146643..	
5/8/2015									
5/9/2015									
5/17/2015									
5/18/2015									
5/19/2015									
5/25/2015									
5/26/2015									
6/8/2015									
6/9/2015									
6/17/2015									
6/18/2015									
6/24/2015									
6/25/2015									
6/30/2015									
7/1/2015									
7/6/2015									
7/7/2015									
7/28/2015	0.01159	0.010737297..			0.01149		0.010737297..		
7/29/2015				0.010737297..				0.010737297..	0.010737297..
7/30/2015			0.010737297..			0.010737297..			
8/12/2015									
8/13/2015									

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 6/19/2018 3:35 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-36R (bg)	GWA-36 (bg)	GWC-25R	GWC-16R	GWA-38 (bg)	GWC-24R	GWA-37 (bg)	GWC-19R	GWC-17R
2/29/2016									
3/1/2016	0.015496643..	0.015496643..					0.015496643..		
3/2/2016					0.015496643..				
3/3/2016				0.015496643.. (D)					
3/4/2016						0.010996643..			0.010996643..
3/7/2016								0.010996643..	
3/8/2016			0.010996643..						
3/9/2016									
5/2/2016	0.015087297..	0.01394 (J)							
5/3/2016					0.015087297..		0.015087297..		
5/4/2016			0.015087297..						
5/5/2016						0.015087297..			
5/6/2016									
5/9/2016								0.015087297..	
5/10/2016				0.015087297..					0.015087297..
7/6/2016	0.01059 (J)								
7/7/2016		0.01049 (J)			0.01209 (J)				
7/8/2016							0.015087297..		
7/11/2016									
7/12/2016						0.015087297..			
7/13/2016				0.01089 (J)					
7/14/2016								0.01059 (J)	0.01359 (J)
7/15/2016									
7/18/2016			0.01059 (J)						
9/7/2016	0.014868240..	0.014868240..					0.014868240..		
9/8/2016					0.01087 (J)				
9/9/2016									
9/12/2016								0.014868240..	
9/13/2016			0.014868240..			0.014868240..			
9/14/2016									0.014868240..
9/15/2016				0.014868240..					
10/25/2016	0.014868240..	0.014868240..			0.01267 (J)		0.014868240..		
10/26/2016									
10/27/2016			0.014868240..			0.014868240..			
10/31/2016								0.014868240..	
11/1/2016									0.014349999..
11/2/2016				0.014349999..					
1/5/2017	0.014349999..	0.014349999..							
1/6/2017							0.014349999..		
1/9/2017									
1/11/2017				0.01055 (J)				0.014349999..	0.014349999..
1/12/2017									
1/13/2017			0.014349999..			0.014349999..			
1/25/2017									
2/9/2017					0.0117 (J)				
3/14/2017	0.0113 (J)						0.0111 (J)		
3/15/2017		0.0112 (J)							
3/16/2017			0.0113 (J)						
3/20/2017				0.0118 (J)		0.015496643..			
3/21/2017								0.015496643.. (*)	0.015496643.. (*)
3/22/2017									
3/23/2017					0.015496643.. (*)				

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 6/19/2018 3:35 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-36R (bg)	GWA-36 (bg)	GWC-25R	GWC-16R	GWA-38 (bg)	GWC-24R	GWA-37 (bg)	GWC-19R	GWC-17R
5/16/2017	0.015087297..						0.015087297..		
5/17/2017		0.01049 (J)			0.01199 (J)				
5/18/2017									
5/19/2017			0.01069 (J)			0.015087297..			
5/22/2017								0.01059 (J)	
5/23/2017				0.01079 (J)					0.01219 (J)
5/24/2017									
7/19/2017									
9/15/2017	0.014868240..	0.014868240..					0.014868240..		
9/18/2017									
9/19/2017			0.01057 (J)		0.01207 (J)	0.014868240..			
9/20/2017								0.01067 (J)	
9/21/2017				0.014868240..					
9/22/2017									0.014868240..
9/25/2017									
3/12/2018	0.015496643..	0.015496643..					0.015496643..		
3/13/2018			0.015496643..		0.0122 (J)	0.015496643..			
3/14/2018				0.015496643..				0.015496643..	0.015496643..

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 6/19/2018 3:35 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-18	GWC-18R	GWC-20R	GWC-21R	GWC-22R	GWC-23R	GWA-51R_51RZ ...	GWA-53R (bg)	GWA-52 (bg)
9/15/2014									
9/16/2014									
9/17/2014	0.010518240..	0.010518240..							
9/18/2014			0.010518240..	0.01087 (J)	0.010518240..	0.010518240..			
10/3/2014									
10/4/2014	0.01327	0.03487							
10/5/2014			0.010518240..	0.01117	0.010518240..	0.010518240..			
10/20/2014									
10/21/2014	0.010518240..	0.03387							
10/22/2014			0.010518240..	0.01147	0.010518240..	0.010518240..			
10/23/2014									
11/5/2014	0.01355		0.01035 (J)	0.01065	0.01	0.01065			
11/10/2014									
11/11/2014		0.03435							
3/2/2015									
3/3/2015	0.0143	0.0395							
3/4/2015			0.011146643..	0.011146643..	0.011146643..	0.011146643..			
3/17/2015									
3/18/2015	0.0136	0.011146643..							
3/19/2015			0.011146643..	0.011146643..	0.011146643..				
3/20/2015						0.011146643..			
4/5/2015									
4/6/2015									
4/7/2015	0.0142	0.0185	0.011146643..						
4/8/2015				0.011146643..	0.011146643..	0.0117 (J)			
4/9/2015									
4/21/2015									
4/22/2015									
4/23/2015	0.0138	0.011146643..				0.011146643..			
4/24/2015			0.011146643..	0.0115 (J)	0.011146643..				
5/8/2015							0.04609	0.010737297..	0.010737297..
5/9/2015									
5/17/2015							0.03909	0.010737297..	0.010737297..
5/18/2015									
5/19/2015									
5/25/2015							0.03909	0.010737297..	0.010737297..
5/26/2015									
6/8/2015							0.02509	0.010737297..	0.01139
6/9/2015									
6/17/2015									
6/18/2015							0.02609	0.010737297..	0.010737297..
6/24/2015							0.03009	0.010737297..	0.01139
6/25/2015									
6/30/2015							0.03009	0.010737297..	0.010737297..
7/1/2015									
7/6/2015							0.02509	0.010737297..	0.010737297..
7/7/2015									
7/28/2015									
7/29/2015	0.01339	0.010737297..							
7/30/2015			0.01109 (J)	0.010737297..	0.010737297..	0.010737297..			
8/12/2015							0.02377	0.012368240..	0.012368240..
8/13/2015									

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 6/19/2018 3:35 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-18	GWC-18R	GWC-20R	GWC-21R	GWC-22R	GWC-23R	GWA-51R_51RZ ...	GWA-53R (bg)	GWA-52 (bg)
2/29/2016									0.015496643..
3/1/2016									
3/2/2016								0.015496643..	
3/3/2016									
3/4/2016									
3/7/2016	0.015496643..	0.010996643..			0.010996643..				
3/8/2016			0.010996643..	0.010996643..					
3/9/2016						0.010996643..			
5/2/2016									
5/3/2016								0.015087297..	
5/4/2016							0.015087297.. (D)		0.015087297..
5/5/2016	0.01394 (J)	0.015087297..			0.015087297..				
5/6/2016						0.015087297..			
5/9/2016			0.015087297..	0.015087297..					
5/10/2016									
7/6/2016									
7/7/2016							0.01059 (JD)		
7/8/2016									0.01149 (J)
7/11/2016								0.015087297..	
7/12/2016									
7/13/2016	0.01299 (J)	0.01069 (J)							
7/14/2016			0.01089 (J)		0.015087297..				
7/15/2016				0.015087297..		0.01059 (J)			
7/18/2016									
9/7/2016								0.014868240..	
9/8/2016							0.014868240.. (D)		0.014868240..
9/9/2016				0.014868240..					
9/12/2016		0.014868240..	0.014868240..		0.014868240..				
9/13/2016	0.01277 (J)								
9/14/2016						0.014868240..			
9/15/2016									
10/25/2016									
10/26/2016							0.014868240.. (D)		0.01097 (J)
10/27/2016				0.014868240..	0.014868240..			0.014868240..	
10/31/2016	0.01157 (J)		0.014868240..						
11/1/2016		0.014349999..				0.014349999..			
11/2/2016									
1/5/2017									
1/6/2017							0.014349999.. (D)	0.014349999..	0.01045 (J)
1/9/2017									
1/11/2017		0.014349999..							
1/12/2017	0.01185 (J)		0.01045 (J)	0.014349999..					
1/13/2017					0.014349999..				
1/25/2017						0.01165 (J)			
2/9/2017									
3/14/2017									
3/15/2017							0.015496643.. (D)		0.0119 (J)
3/16/2017								0.0116 (J)	
3/20/2017		0.011 (J)			0.0109 (J)				
3/21/2017				0.015496643.. (*)					
3/22/2017			0.015496643.. (*)			0.015496643.. (*)			
3/23/2017	0.015496643.. (*)								

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 6/19/2018 3:35 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-18	GWC-18R	GWC-20R	GWC-21R	GWC-22R	GWC-23R	GWA-51R_51RZ ...	GWA-53R (bg)	GWA-52 (bg)
5/16/2017									
5/17/2017									0.01119 (J)
5/18/2017							0.015087297.. (D)		
5/19/2017								0.01079 (J)	
5/22/2017		0.01059 (J)	0.01079 (J)						
5/23/2017	0.01299 (J)			0.01049 (J)	0.01059 (J)				
5/24/2017						0.01119 (J)			
7/19/2017							0.015087297.. (D)		
9/15/2017									0.01087 (J)
9/18/2017									
9/19/2017			0.01047 (J)	0.01047 (J)	0.014868240..		0.014868240.. (D)	0.01047 (J)	
9/20/2017									
9/21/2017		0.01067 (J)				0.01127 (J)			
9/22/2017									
9/25/2017	0.01167 (J)								
3/12/2018									
3/13/2018					0.015496643..		0.015496643.. (D)	0.015496643..	0.015496643..
3/14/2018	0.0126 (J)	0.015496643..	0.015496643..	0.015496643..		0.015496643..			

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 6/19/2018 3:35 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-53 (bg)	GWA-54 (bg)	GWA-56 (bg)	GWA-55R (bg)	GWA-55 (bg)
9/15/2014					
9/16/2014					
9/17/2014					
9/18/2014					
10/3/2014					
10/4/2014					
10/5/2014					
10/20/2014					
10/21/2014					
10/22/2014					
10/23/2014					
11/5/2014					
11/10/2014					
11/11/2014					
3/2/2015					
3/3/2015					
3/4/2015					
3/17/2015					
3/18/2015					
3/19/2015					
3/20/2015					
4/5/2015					
4/6/2015					
4/7/2015					
4/8/2015					
4/9/2015					
4/21/2015					
4/22/2015					
4/23/2015					
4/24/2015					
5/8/2015					
5/9/2015	0.010737297..	0.010737297..	0.010737297..	0.010737297..	0.010737297..
5/17/2015					
5/18/2015	0.010737297..	0.010737297..		0.010737297..	0.010737297..
5/19/2015			0.010737297..		
5/25/2015	0.010737297..	0.01119 (J)			
5/26/2015			0.010737297..	0.010737297..	0.010737297..
6/8/2015	0.010737297..				
6/9/2015		0.010737297..	0.010737297..	0.01179	0.010737297..
6/17/2015	0.010737297..	0.01149	0.010737297..	0.010737297..	0.010737297..
6/18/2015					
6/24/2015	0.010737297..				
6/25/2015		0.01109 (J)	0.010737297..	0.010737297..	0.010737297..
6/30/2015	0.010737297..				
7/1/2015		0.010737297..	0.010737297..	0.01119 (J)	0.010737297..
7/6/2015	0.010737297..				
7/7/2015		0.01119 (J)	0.010737297..	0.010737297..	0.010737297..
7/28/2015					
7/29/2015					
7/30/2015					
8/12/2015	0.012368240..	0.01097 (J)			
8/13/2015			0.012368240..	0.012368240..	0.012368240..

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 6/19/2018 3:35 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-53 (bg)	GWA-54 (bg)	GWA-56 (bg)	GWA-55R (bg)	GWA-55 (bg)
2/29/2016					
3/1/2016					
3/2/2016	0.015496643..	0.015496643..			0.015496643..
3/3/2016			0.010996643..	0.015496643..	
3/4/2016					
3/7/2016					
3/8/2016					
3/9/2016					
5/2/2016					
5/3/2016	0.015087297..			0.015087297..	0.015087297..
5/4/2016		0.015087297..			
5/5/2016					
5/6/2016					
5/9/2016			0.015087297..		
5/10/2016					
7/6/2016					
7/7/2016					
7/8/2016	0.01079 (J)	0.01149 (J)			
7/11/2016			0.01059 (J)	0.015087297..	0.01069 (J)
7/12/2016					
7/13/2016					
7/14/2016					
7/15/2016					
7/18/2016					
9/7/2016					
9/8/2016	0.014868240..	0.01137 (J)			
9/9/2016			0.014868240..	0.014868240..	0.014868240..
9/12/2016					
9/13/2016					
9/14/2016					
9/15/2016					
10/25/2016					
10/26/2016	0.014868240..	0.01147 (J)	0.014868240..		0.014868240..
10/27/2016				0.014868240..	
10/31/2016					
11/1/2016					
11/2/2016					
1/5/2017					
1/6/2017					
1/9/2017	0.014349999..	0.01065 (J)	0.014349999..	0.014349999..	0.014349999..
1/11/2017					
1/12/2017					
1/13/2017					
1/25/2017					
2/9/2017					
3/14/2017					
3/15/2017		0.0124 (J)	0.015496643..		
3/16/2017	0.0115 (J)			0.0123 (J)	0.0113 (J)
3/20/2017					
3/21/2017					
3/22/2017					
3/23/2017					

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 6/19/2018 3:35 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-53 (bg)	GWA-54 (bg)	GWA-56 (bg)	GWA-55R (bg)	GWA-55 (bg)
5/16/2017					
5/17/2017					
5/18/2017		0.01129 (J)	0.01119 (J)	0.015087297..	0.01109 (J)
5/19/2017	0.01069 (J)				
5/22/2017					
5/23/2017					
5/24/2017					
7/19/2017					
9/15/2017		0.01107 (J)	0.014868240..		0.01057 (J)
9/18/2017				0.014868240..	
9/19/2017	0.01047 (J)				
9/20/2017					
9/21/2017					
9/22/2017					
9/25/2017					
3/12/2018				0.015496643..	0.015496643..
3/13/2018	0.015496643..	0.015496643..	0.015496643..		
3/14/2018					

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 6/19/2018 3:35 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-36R (bg)	GWA-36 (bg)	GWC-25R	GWC-16R	GWC-24R	GWA-37 (bg)	GWA-38 (bg)	GWC-17R	GWC-18R
9/15/2014	0.0039	<0.0013							
9/16/2014			0.0006 (J)	0.0026	<0.0013	0.00077 (J)	0.0028		
9/17/2014								<0.0013	<0.0013
9/18/2014									
10/3/2014	<0.0013	<0.0013				0.0013	0.0029		
10/4/2014			<0.0013	0.0015	<0.0013			<0.0013	0.00063 (J)
10/5/2014									
10/20/2014	0.0014	<0.0013				0.001 (J)	0.0022		
10/21/2014				0.00099 (J)				<0.0013	0.00058 (J)
10/22/2014									
10/23/2014			<0.0013		<0.0013				
11/5/2014									
11/10/2014	<0.0013	<0.0013	<0.0013		<0.0013	<0.0013	0.0022		
11/11/2014				0.00097 (J)				<0.0013	0.00058 (J)
3/2/2015	<0.0013	<0.0013				<0.0013			
3/3/2015				0.00078 (J)				<0.0013	0.00056 (J)
3/4/2015			<0.0013		<0.0013				
3/17/2015	<0.0013	<0.0013				<0.0013	0.0044		
3/18/2015				0.00081 (J)				<0.0013	<0.0013
3/19/2015									
3/20/2015			<0.0013		<0.0013				
4/5/2015	<0.0013	<0.0013				<0.0013			
4/6/2015				0.0011 (J)			0.002	<0.0013	
4/7/2015									<0.0013
4/8/2015					<0.0013				
4/9/2015			<0.0013						
4/21/2015	0.0012 (J)	0.00055 (J)							
4/22/2015						<0.0013	0.0016		
4/23/2015			<0.0013	0.0007 (J)	<0.0013			<0.0013	<0.0013
4/24/2015									
5/8/2015									
5/9/2015									
5/17/2015									
5/18/2015									
5/19/2015									
5/25/2015									
5/26/2015									
6/8/2015									
6/9/2015									
6/17/2015									
6/18/2015									
6/24/2015									
6/25/2015									
6/30/2015									
7/1/2015									
7/6/2015									
7/7/2015									
7/28/2015	0.0012 (J)	<0.0013				<0.0013	0.0017		
7/29/2015				<0.0013				<0.0013	<0.0013
7/30/2015			<0.0013		<0.0013				
8/12/2015									
8/13/2015									

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 6/19/2018 3:35 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-36R (bg)	GWA-36 (bg)	GWC-25R	GWC-16R	GWC-24R	GWA-37 (bg)	GWA-38 (bg)	GWC-17R	GWC-18R
2/29/2016									
3/1/2016	<0.01	<0.01				0.00202 (J)			
3/2/2016							<0.01		
3/3/2016				0.00451 (JD)					
3/4/2016					<0.01			<0.01	
3/7/2016									<0.01
3/8/2016			<0.01						
3/9/2016									
5/2/2016	<0.01	<0.01							
5/3/2016						<0.01	<0.01		
5/4/2016			<0.01						
5/5/2016					<0.01				<0.01
5/6/2016									
5/9/2016									
5/10/2016				0.00478 (J)				<0.01	
7/6/2016	<0.01								
7/7/2016		<0.01					0.0015 (J)		
7/8/2016						0.0004 (J)			
7/11/2016									
7/12/2016					<0.01				
7/13/2016				0.0003 (J)					<0.01
7/14/2016								<0.01	
7/15/2016									
7/18/2016			<0.01						
9/7/2016	<0.01	<0.01				0.0009 (J)			
9/8/2016							0.0018 (J)		
9/9/2016									
9/12/2016									<0.01
9/13/2016			<0.01		<0.01				
9/14/2016								<0.01	
9/15/2016				0.0018 (J)					
10/25/2016	<0.01	<0.01				0.0022 (J)	0.0019 (J)		
10/26/2016									
10/27/2016			<0.01		<0.01				
10/31/2016									
11/1/2016								<0.01	<0.01
11/2/2016				0.0022 (J)					
1/5/2017	<0.01	<0.01							
1/6/2017						0.0011 (J)			
1/9/2017									
1/11/2017				<0.01				<0.01	<0.01
1/12/2017									
1/13/2017			<0.01		<0.01				
1/25/2017									
2/9/2017							0.0017 (J)		
3/14/2017	<0.01					0.0009 (J)			
3/15/2017		<0.01							
3/16/2017			<0.01						
3/20/2017				<0.01	<0.01				<0.01
3/21/2017								<0.01	
3/22/2017									
3/23/2017							0.0018 (J)		

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 6/19/2018 3:35 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-36R (bg)	GWA-36 (bg)	GWC-25R	GWC-16R	GWC-24R	GWA-37 (bg)	GWA-38 (bg)	GWC-17R	GWC-18R
5/16/2017	<0.01					<0.01			
5/17/2017		<0.01					0.0016 (J)		
5/18/2017									
5/19/2017			<0.01		<0.01				
5/22/2017									<0.01
5/23/2017				0.001 (J)				<0.01	
5/24/2017									
7/19/2017									
9/15/2017	<0.01	<0.01				<0.01			
9/18/2017									
9/19/2017			<0.01		<0.01		0.0012 (J)		
9/20/2017									
9/21/2017				0.0006 (J)					<0.01
9/22/2017								<0.01	
9/25/2017									
3/12/2018	<0.01	<0.01				<0.01			
3/13/2018			<0.01		<0.01		0.0013 (J)		
3/14/2018				0.00058 (J)				<0.01	<0.01

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 6/19/2018 3:35 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-18	GWC-19R	GWC-20R	GWC-22R	GWC-23R	GWC-21R	GWA-51R_51RZ ...	GWA-53R (bg)	GWA-52 (bg)
9/15/2014									
9/16/2014									
9/17/2014	<0.0013	<0.0013							
9/18/2014			<0.0013	<0.0013	<0.0013	<0.0013			
10/3/2014									
10/4/2014	<0.0013	<0.0013							
10/5/2014			<0.0013	<0.0013	<0.0013	<0.0013			
10/20/2014									
10/21/2014	<0.0013	<0.0013							
10/22/2014			<0.0013	<0.0013	<0.0013	<0.0013			
10/23/2014									
11/5/2014	0.0005 (J)	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013			
11/10/2014									
11/11/2014									
3/2/2015									
3/3/2015	<0.0013	<0.0013							
3/4/2015			<0.0013	<0.0013	<0.0013	<0.0013			
3/17/2015									
3/18/2015	<0.0013								
3/19/2015		<0.0013	<0.0013	<0.0013		<0.0013			
3/20/2015					<0.0013				
4/5/2015									
4/6/2015									
4/7/2015	<0.0013	<0.0013	<0.0013						
4/8/2015				<0.0013	<0.0013	<0.0013			
4/9/2015									
4/21/2015									
4/22/2015									
4/23/2015	<0.0013				<0.0013				
4/24/2015		<0.0013	<0.0013	<0.0013		<0.0013			
5/8/2015							<0.0013	<0.0013	<0.0013
5/9/2015									
5/17/2015							0.00059 (J)	<0.0013	<0.0013
5/18/2015									
5/19/2015									
5/25/2015							<0.0013	<0.0013	<0.0013
5/26/2015									
6/8/2015							<0.0013	<0.0013	<0.0013
6/9/2015									
6/17/2015									
6/18/2015							<0.0013	<0.0013	<0.0013
6/24/2015							<0.0013	<0.0013	<0.0013
6/25/2015									
6/30/2015							<0.0013	<0.0013	<0.0013
7/1/2015									
7/6/2015							<0.0013	<0.0013	<0.0013
7/7/2015									
7/28/2015									
7/29/2015	0.00076 (J)	<0.0013							
7/30/2015			<0.0013	<0.0013	<0.0013	<0.0013			
8/12/2015							<0.005	<0.005	<0.005
8/13/2015									

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 6/19/2018 3:35 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-18	GWC-19R	GWC-20R	GWC-22R	GWC-23R	GWC-21R	GWA-51R_51RZ ...	GWA-53R (bg)	GWA-52 (bg)
2/29/2016									<0.01
3/1/2016									
3/2/2016								<0.01	
3/3/2016									
3/4/2016									
3/7/2016	<0.001	<0.01		<0.01					
3/8/2016			<0.01			0.0183 (J)			
3/9/2016					<0.01				
5/2/2016									
5/3/2016								<0.01	
5/4/2016							<0.01 (D)		<0.01
5/5/2016	<0.01			<0.01					
5/6/2016					<0.01				
5/9/2016		<0.01	<0.01			0.00239 (J)			
5/10/2016									
7/6/2016									
7/7/2016							<0.01 (D)		
7/8/2016									<0.01
7/11/2016								<0.01	
7/12/2016									
7/13/2016	<0.01								
7/14/2016		<0.01	<0.01	<0.01					
7/15/2016					<0.01	0.0008 (J)			
7/18/2016									
9/7/2016								<0.01	
9/8/2016							<0.01 (D)		<0.01
9/9/2016						<0.01			
9/12/2016		<0.01	<0.01	<0.01					
9/13/2016	<0.01								
9/14/2016					<0.01				
9/15/2016									
10/25/2016									
10/26/2016							<0.01 (D)		<0.01
10/27/2016				<0.01		<0.01		<0.01	
10/31/2016	<0.01	<0.01	<0.01						
11/1/2016					<0.01				
11/2/2016									
1/5/2017									
1/6/2017							<0.01 (D)	<0.01	<0.01
1/9/2017									
1/11/2017		<0.01							
1/12/2017	<0.01		<0.01			<0.01			
1/13/2017				<0.01					
1/25/2017					<0.01				
2/9/2017									
3/14/2017									
3/15/2017							<0.01 (D)		<0.01
3/16/2017								<0.01	
3/20/2017				<0.01					
3/21/2017		<0.01				0.0005 (J)			
3/22/2017			<0.01		<0.01				
3/23/2017	<0.01								

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 6/19/2018 3:35 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-18	GWC-19R	GWC-20R	GWC-22R	GWC-23R	GWC-21R	GWA-51R_51RZ ...	GWA-53R (bg)	GWA-52 (bg)
5/16/2017									
5/17/2017									<0.01
5/18/2017							<0.01 (D)		
5/19/2017								<0.01	
5/22/2017		<0.01	<0.01						
5/23/2017	<0.01			<0.01		<0.01			
5/24/2017					<0.01				
7/19/2017							<0.01 (D)		
9/15/2017									<0.01
9/18/2017									
9/19/2017			<0.01	0.0012 (J)		<0.01	<0.01 (D)	<0.01	
9/20/2017		<0.01							
9/21/2017					<0.01				
9/22/2017									
9/25/2017	<0.01								
3/12/2018									
3/13/2018				<0.01			<0.01 (D)	<0.01	<0.01
3/14/2018	<0.01	<0.01	<0.01		<0.01	0.00083 (J)			

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 6/19/2018 3:35 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-53 (bg)	GWA-54 (bg)	GWA-56 (bg)	GWA-55R (bg)	GWA-55 (bg)
9/15/2014					
9/16/2014					
9/17/2014					
9/18/2014					
10/3/2014					
10/4/2014					
10/5/2014					
10/20/2014					
10/21/2014					
10/22/2014					
10/23/2014					
11/5/2014					
11/10/2014					
11/11/2014					
3/2/2015					
3/3/2015					
3/4/2015					
3/17/2015					
3/18/2015					
3/19/2015					
3/20/2015					
4/5/2015					
4/6/2015					
4/7/2015					
4/8/2015					
4/9/2015					
4/21/2015					
4/22/2015					
4/23/2015					
4/24/2015					
5/8/2015					
5/9/2015	<0.0013	0.00057 (J)	<0.0013	<0.0013	<0.0013
5/17/2015					
5/18/2015	<0.0013	0.00055 (J)		0.001 (J)	0.00071 (J)
5/19/2015			<0.0013		
5/25/2015	<0.0013	<0.0013			
5/26/2015			<0.0013	0.00052 (J)	0.00067 (J)
6/8/2015	<0.0013				
6/9/2015		<0.0013	<0.0013	0.00087 (J)	0.001 (J)
6/17/2015	<0.0013	<0.0013	<0.0013	<0.0013	0.00093 (J)
6/18/2015					
6/24/2015	<0.0013				
6/25/2015		<0.0013	<0.0013	<0.0013	0.00059 (J)
6/30/2015	<0.0013				
7/1/2015		<0.0013	<0.0013	0.0006 (J)	0.00059 (J)
7/6/2015	<0.0013				
7/7/2015		<0.0013	<0.0013	<0.0013	0.00091 (J)
7/28/2015					
7/29/2015					
7/30/2015					
8/12/2015	<0.005	<0.005			
8/13/2015			<0.005	<0.005	0.0006 (J)

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 6/19/2018 3:35 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-53 (bg)	GWA-54 (bg)	GWA-56 (bg)	GWA-55R (bg)	GWA-55 (bg)
2/29/2016					
3/1/2016					
3/2/2016	<0.01	<0.01			0.00715 (J)
3/3/2016			<0.01	<0.01	
3/4/2016					
3/7/2016					
3/8/2016					
3/9/2016					
5/2/2016					
5/3/2016	<0.01			<0.01	0.00349 (J)
5/4/2016		<0.01			
5/5/2016					
5/6/2016					
5/9/2016			<0.01		
5/10/2016					
7/6/2016					
7/7/2016					
7/8/2016	<0.01	<0.01			
7/11/2016			<0.01	0.001 (J)	0.0007 (J)
7/12/2016					
7/13/2016					
7/14/2016					
7/15/2016					
7/18/2016					
9/7/2016					
9/8/2016	<0.01	<0.01			
9/9/2016			<0.01	0.0006 (J)	<0.01
9/12/2016					
9/13/2016					
9/14/2016					
9/15/2016					
10/25/2016					
10/26/2016	<0.01	<0.01	<0.01		<0.01
10/27/2016				<0.01	
10/31/2016					
11/1/2016					
11/2/2016					
1/5/2017					
1/6/2017					
1/9/2017	<0.01	<0.01	<0.01	<0.01	<0.01
1/11/2017					
1/12/2017					
1/13/2017					
1/25/2017					
2/9/2017					
3/14/2017					
3/15/2017		<0.01	<0.01		
3/16/2017	<0.01			<0.01	0.0006 (J)
3/20/2017					
3/21/2017					
3/22/2017					
3/23/2017					

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 6/19/2018 3:35 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-53 (bg)	GWA-54 (bg)	GWA-56 (bg)	GWA-55R (bg)	GWA-55 (bg)
5/16/2017					
5/17/2017					
5/18/2017		<0.01	<0.01	<0.01	<0.01
5/19/2017	<0.01				
5/22/2017					
5/23/2017					
5/24/2017					
7/19/2017					
9/15/2017		<0.01	<0.01		<0.01
9/18/2017				<0.01	
9/19/2017	<0.01				
9/20/2017					
9/21/2017					
9/22/2017					
9/25/2017					
3/12/2018				<0.01	0.0034 (J)
3/13/2018	<0.01	<0.01	<0.01		
3/14/2018					

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 6/19/2018 3:35 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-36R (bg)	GWA-36 (bg)	GWC-24R	GWC-25R	GWC-16R	GWA-38 (bg)	GWA-37 (bg)	GWC-17R	GWC-18
9/15/2014	0.0169 (J)	0.014500657..							
9/16/2014			0.014500657..	0.014500657..	0.0162 (J)	0.014500657..	0.03		
9/17/2014								0.014500657..	0.014500657..
9/18/2014									
10/3/2014	0.014500657..	0.014500657..				0.01289 (J)	0.033		
10/4/2014			0.014500657..	0.014500657..	0.0144 (J)			0.0132 (J)	0.014500657..
10/5/2014									
10/20/2014	0.0144 (J)	0.014500657..				0.01287 (J)	0.034		
10/21/2014					0.014 (J)			0.0131 (J)	0.014500657..
10/22/2014									
10/23/2014			0.014500657..	0.014500657..					
11/5/2014									0.015300833..
11/10/2014	0.015300833..	0.015300833..	0.015300833..	0.015300833..		0.015300833..	0.0328		
11/11/2014					0.0149 (J)			0.0143 (J)	
3/2/2015	0.012199999..	0.012199999..				0.0137 (J)	0.0247		
3/3/2015					0.0114 (J)			0.0109 (J)	0.012199999..
3/4/2015			0.012199999..	0.012199999..					
3/17/2015	0.012199999..	0.012199999..				0.0113 (J)	0.0257		
3/18/2015					0.0116 (J)			0.012199999..	0.012199999..
3/19/2015									
3/20/2015			0.012199999..	0.012199999..					
4/5/2015	0.012199999..	0.012199999..					0.0257		
4/6/2015					0.0111 (J)	0.01053 (J)		0.01053 (J)	
4/7/2015									0.012199999..
4/8/2015			0.012199999..						
4/9/2015				0.012199999..					
4/21/2015	0.0114 (J)	0.01065 (J)							
4/22/2015						0.01055 (J)	0.0227		
4/23/2015			0.0108 (J)	0.012199999..	0.0119 (J)			0.0109 (J)	0.012199999..
4/24/2015									
5/8/2015									
5/9/2015									
5/17/2015									
5/18/2015									
5/19/2015									
5/25/2015									
5/26/2015									
6/8/2015									
6/9/2015									
6/17/2015									
6/18/2015									
6/24/2015									
6/25/2015									
6/30/2015									
7/1/2015									
7/6/2015									
7/7/2015									
7/28/2015	0.01266 (J)	0.014193774..				0.014193774..	0.03169		
7/29/2015					0.01267 (J)			0.014193774..	0.014193774..
7/30/2015			0.014193774..	0.014193774..					
8/12/2015									
8/13/2015									

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 6/19/2018 3:35 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-36R (bg)	GWA-36 (bg)	GWC-24R	GWC-25R	GWC-16R	GWA-38 (bg)	GWA-37 (bg)	GWC-17R	GWC-18
2/29/2016									
3/1/2016	0.022200000..	0.022200000..					0.02 (J)		
3/2/2016						0.022200000..			
3/3/2016					0.022200000.. (D)				
3/4/2016			0.014699999..					0.014699999..	
3/7/2016									0.014699999..
3/8/2016				0.014699999..					
3/9/2016									
7/6/2016	0.024193774..								
7/7/2016		0.024193774..				0.024193774..			
7/8/2016							0.02689 (J)		
7/11/2016									
7/12/2016			0.024193774..						
7/13/2016					0.01389 (J)				0.024193774..
7/14/2016								0.02409 (J)	
7/15/2016									
7/18/2016				0.024193774..					
3/14/2017	0.01 (J)						0.0182 (J)		
3/15/2017		0.022200000.. (*)							
3/16/2017				0.022200000.. (*)					
3/20/2017			0.01 (J)		0.0117 (J)				
3/21/2017								0.0102 (J)	
3/22/2017									
3/23/2017						0.022200000..			0.022200000..
9/15/2017	0.024500658..	0.024500658..					0.0178 (J)		
9/18/2017									
9/19/2017			0.024500658..	0.024500658..		0.0124 (J)			
9/20/2017									
9/21/2017					0.0138 (J)				
9/22/2017								0.0127 (J)	
9/25/2017									0.024500658..
3/12/2018	0.022200000..	0.022200000..					0.015 (J)		
3/13/2018			0.022200000..	0.022200000..		0.022200000..			
3/14/2018					0.0114 (J)			0.022200000..	0.022200000..

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 6/19/2018 3:35 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-19R	GWC-18R	GWC-23R	GWC-21R	GWC-20R	GWC-22R	GWA-51R_51RZ ...	GWA-53R (bg)	GWA-52 (bg)
9/15/2014									
9/16/2014									
9/17/2014	0.014500657..	0.014500657..							
9/18/2014			0.014500657..	0.014500657..	0.014500657..	0.014500657..			
10/3/2014									
10/4/2014	0.014500657..	0.01286 (J)							
10/5/2014			0.014500657..	0.0136 (J)	0.014500657..	0.014500657..			
10/20/2014									
10/21/2014	0.014500657..	0.014500657..							
10/22/2014			0.014500657..	0.0138 (J)	0.014500657..	0.014500657..			
10/23/2014									
11/5/2014	0.015300833..		0.0138 (J)	0.0143 (J)	0.015300833..	0.015300833..			
11/10/2014									
11/11/2014		0.015300833..							
3/2/2015									
3/3/2015	0.012199999..	0.012199999..							
3/4/2015			0.0111 (J)	0.012199999..	0.012199999..	0.012199999..			
3/17/2015									
3/18/2015		0.012199999..							
3/19/2015	0.012199999..			0.012199999..	0.012199999..	0.012199999..			
3/20/2015			0.012199999..						
4/5/2015									
4/6/2015									
4/7/2015	0.012199999..	0.012199999..			0.012199999..				
4/8/2015			0.0111 (J)	0.012199999..		0.012199999..			
4/9/2015									
4/21/2015									
4/22/2015									
4/23/2015		0.012199999..	0.012199999..						
4/24/2015	0.012199999..			0.0113 (J)	0.012199999..	0.012199999..			
5/8/2015							0.014193774..	0.014193774..	0.014193774..
5/9/2015									
5/17/2015							0.01319 (J)	0.014193774..	0.014193774..
5/18/2015									
5/19/2015									
5/25/2015							0.014193774..	0.014193774..	0.014193774..
5/26/2015									
6/8/2015							0.014193774..	0.014193774..	0.014193774..
6/9/2015									
6/17/2015									
6/18/2015							0.014193774..	0.014193774..	0.014193774..
6/24/2015							0.01289 (J)	0.014193774..	0.01251 (J)
6/25/2015									
6/30/2015							0.01265 (J)	0.01262 (J)	0.014193774..
7/1/2015									
7/6/2015							0.0126 (J)	0.014193774..	0.014193774..
7/7/2015									
7/28/2015									
7/29/2015	0.014193774..	0.014193774..							
7/30/2015			0.014193774..	0.014193774..	0.014193774..	0.014193774..			
8/12/2015							0.014500657..	0.014500657..	0.014500657..
8/13/2015									

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 6/19/2018 3:35 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-19R	GWC-18R	GWC-23R	GWC-21R	GWC-20R	GWC-22R	GWA-51R_51RZ ...	GWA-53R (bg)	GWA-52 (bg)
2/29/2016									0.022200000..
3/1/2016									
3/2/2016								0.022200000..	
3/3/2016									
3/4/2016									
3/7/2016	0.014699999..	0.014699999..				0.014699999..			
3/8/2016				0.014699999..	0.014699999..				
3/9/2016			0.014699999..						
7/6/2016									
7/7/2016							0.01829 (JD)		
7/8/2016									0.024193774..
7/11/2016								0.024193774..	
7/12/2016									
7/13/2016		0.024193774..							
7/14/2016	0.024193774..				0.024193774..	0.024193774..			
7/15/2016			0.024193774..	0.01259 (J)					
7/18/2016									
3/14/2017									
3/15/2017							0.022200000.. (D)		0.022200000..
3/16/2017								0.022200000..	
3/20/2017		0.022200000..				0.0109 (J)			
3/21/2017	0.0103 (J)			0.0106 (J)					
3/22/2017			0.0102 (J)		0.022200000..				
3/23/2017									
9/15/2017									0.024500658..
9/18/2017									
9/19/2017				0.0126 (J)	0.0128 (J)	0.024500658..	0.024500658.. (D)	0.0123 (J)	
9/20/2017	0.0123 (J)								
9/21/2017		0.0123 (J)	0.0125 (J)						
9/22/2017									
9/25/2017									
3/12/2018									
3/13/2018						0.022200000..	0.022200000.. (D)	0.022200000..	0.022200000..
3/14/2018	0.022200000..	0.022200000..	0.022200000..	0.022200000..	0.022200000..				

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 6/19/2018 3:35 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-56 (bg)	GWA-55R (bg)	GWA-55 (bg)	GWA-54 (bg)	GWA-53 (bg)
9/15/2014					
9/16/2014					
9/17/2014					
9/18/2014					
10/3/2014					
10/4/2014					
10/5/2014					
10/20/2014					
10/21/2014					
10/22/2014					
10/23/2014					
11/5/2014					
11/10/2014					
11/11/2014					
3/2/2015					
3/3/2015					
3/4/2015					
3/17/2015					
3/18/2015					
3/19/2015					
3/20/2015					
4/5/2015					
4/6/2015					
4/7/2015					
4/8/2015					
4/9/2015					
4/21/2015					
4/22/2015					
4/23/2015					
4/24/2015					
5/8/2015					
5/9/2015	0.014193774..	0.014193774..	0.014193774..	0.014193774..	0.014193774..
5/17/2015					
5/18/2015		0.01262 (J)	0.014193774..	0.014193774..	0.014193774..
5/19/2015	0.014193774..				
5/25/2015				0.014193774..	0.014193774..
5/26/2015	0.014193774..	0.014193774..	0.014193774..		
6/8/2015					0.014193774..
6/9/2015	0.014193774..	0.01309 (J)	0.014193774..	0.014193774..	
6/17/2015	0.014193774..	0.014193774..	0.014193774..	0.014193774..	0.014193774..
6/18/2015					
6/24/2015					0.014193774..
6/25/2015	0.014193774..	0.014193774..	0.014193774..	0.014193774..	
6/30/2015					0.014193774..
7/1/2015	0.014193774..	0.01309 (J)	0.014193774..	0.014193774..	
7/6/2015					0.014193774..
7/7/2015	0.014193774..	0.014193774..	0.01279 (J)	0.014193774..	
7/28/2015					
7/29/2015					
7/30/2015					
8/12/2015				0.014500657..	0.014500657..
8/13/2015	0.014500657..	0.014500657..	0.014500657..		

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 6/19/2018 3:35 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-56 (bg)	GWA-55R (bg)	GWA-55 (bg)	GWA-54 (bg)	GWA-53 (bg)
2/29/2016					
3/1/2016					
3/2/2016			0.022200000..	0.022200000..	0.022200000..
3/3/2016	0.014699999..	0.022200000..			
3/4/2016					
3/7/2016					
3/8/2016					
3/9/2016					
7/6/2016					
7/7/2016					
7/8/2016				0.024193774..	0.024193774..
7/11/2016	0.024193774..	0.024193774..	0.024193774..		
7/12/2016					
7/13/2016					
7/14/2016					
7/15/2016					
7/18/2016					
3/14/2017					
3/15/2017	0.022200000.. (*)			0.022200000..	
3/16/2017		0.022200000.. (*)	0.022200000..		0.022200000..
3/20/2017					
3/21/2017					
3/22/2017					
3/23/2017					
9/15/2017	0.014 (J)		0.024500658..	0.0127 (J)	
9/18/2017		0.024500658..			
9/19/2017					0.0123 (J)
9/20/2017					
9/21/2017					
9/22/2017					
9/25/2017					
3/12/2018		0.022200000..	0.022200000..		
3/13/2018	0.022200000..			0.022200000..	0.022200000..
3/14/2018					

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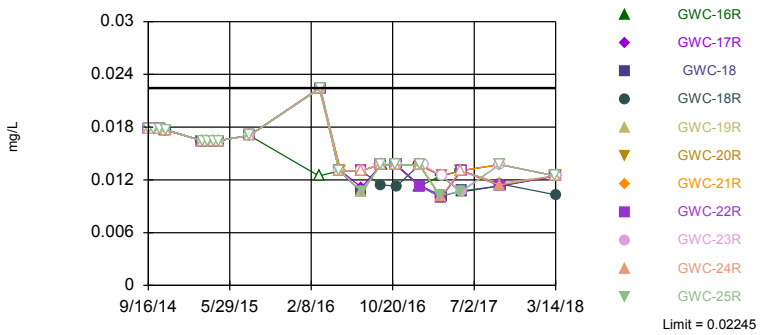
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 228 background values. 82.02% NDs. Report alpha = 0.04603. Individual comparison alpha = 0.004274. Most recent point for each compliance well compared to limit. Data were deseasonalized.

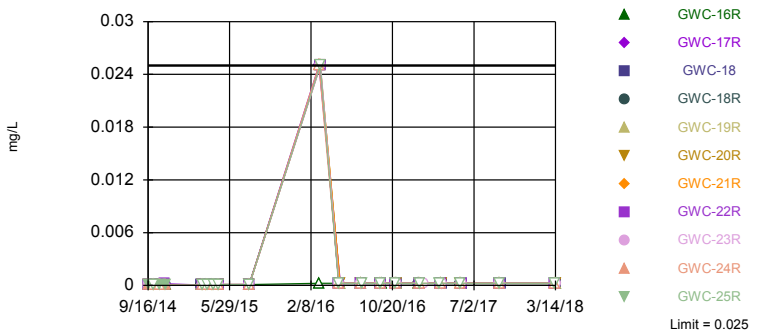
Constituent: Lead Analysis Run 6/19/2018 3:22 PM View: cell_3&4_metals_interwell
Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Sanitas™ v.9.5.32 Sanitas software licensed to AMEC. EPA
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 228 background values. 91.67% NDs. Report alpha = 0.04603. Individual comparison alpha = 0.004274. Most recent point for each compliance well compared to limit. Seasonality was not detected with 95% confidence.

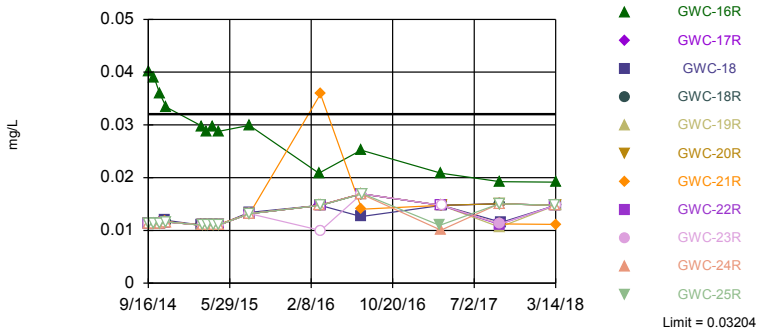
Constituent: Mercury Analysis Run 6/19/2018 3:22 PM View: cell_3&4_metals_interwell
Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Sanitas™ v.9.5.32 Sanitas software licensed to AMEC. EPA
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 167 background values. 70.06% NDs. Report alpha = 0.0618. Individual comparison alpha = 0.005782. Most recent point for each compliance well compared to limit. Data were deseasonalized.

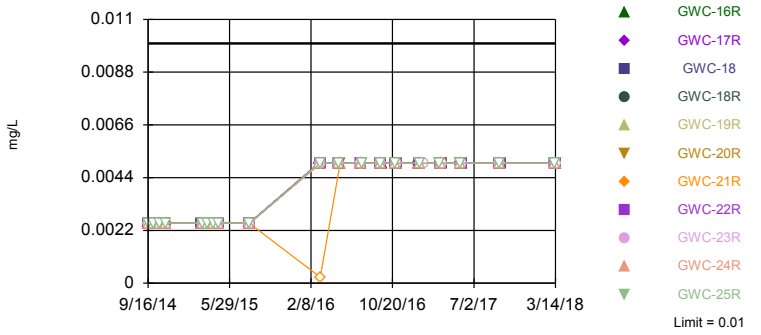
Constituent: Nickel Analysis Run 6/19/2018 3:22 PM View: cell_3&4_metals_interwell
Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Sanitas™ v.9.5.32 Sanitas software licensed to AMEC. EPA
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 228 background values. 93.42% NDs. Report alpha = 0.04603. Individual comparison alpha = 0.004274. Most recent point for each compliance well compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Selenium Analysis Run 6/19/2018 3:23 PM View: cell_3&4_metals_interwell
Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 6/19/2018 3:36 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-36R (bg)	GWA-36 (bg)	GWC-25R	GWC-16R	GWA-38 (bg)	GWC-24R	GWA-37 (bg)	GWC-19R	GWC-17R
9/15/2014	0.01814 (J)	0.017740373..							
9/16/2014			0.017740373..	0.017740373..	0.017740373..	0.017740373..	0.017740373..		
9/17/2014								0.017740373..	0.017740373..
9/18/2014									
10/3/2014	0.017740373..	0.017740373..			0.017740373..		0.017740373..		
10/4/2014			0.017740373..	0.017740373..		0.017740373..		0.017740373..	0.017740373..
10/5/2014									
10/20/2014	0.017740373..	0.017740373..			0.017740373..		0.017740373..		
10/21/2014				0.017740373..				0.017740373..	0.017740373..
10/22/2014									
10/23/2014			0.017740373..			0.017740373..			
11/5/2014								0.017689826..	
11/10/2014	0.017689826..	0.017689826..	0.017689826..		0.017689826..	0.017689826..	0.017689826..		
11/11/2014				0.017689826..					0.017689826..
3/2/2015	0.016450000..	0.016450000..			0.01465 (J)		0.016450000..		
3/3/2015				0.016450000..				0.016450000..	0.016450000..
3/4/2015			0.016450000..			0.016450000..			
3/17/2015	0.016450000..	0.016450000..			0.016450000..		0.016450000..		
3/18/2015				0.016450000..					0.016450000..
3/19/2015								0.016450000..	
3/20/2015			0.016450000..			0.016450000..			
4/5/2015	0.016450000..	0.016450000..					0.016450000..		
4/6/2015				0.016450000..	0.016450000..				0.016450000..
4/7/2015								0.016450000..	
4/8/2015						0.016450000..			
4/9/2015			0.016450000..						
4/21/2015	0.016450000..	0.01245 (J)							
4/22/2015					0.016450000..		0.016450000..		
4/23/2015			0.016450000..	0.016450000..		0.016450000..			0.016450000..
4/24/2015								0.016450000..	
5/8/2015									
5/9/2015									
5/17/2015									
5/18/2015									
5/19/2015									
5/25/2015									
5/26/2015									
6/8/2015									
6/9/2015									
6/17/2015									
6/18/2015									
6/24/2015									
6/25/2015									
6/30/2015									
7/1/2015									
7/6/2015									
7/7/2015									
7/28/2015	0.017048442..	0.017048442..			0.017048442..		0.017048442..		
7/29/2015				0.017048442..				0.017048442..	0.017048442..
7/30/2015			0.017048442..			0.017048442..			
8/12/2015									
8/13/2015									

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 6/19/2018 3:36 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-36R (bg)	GWA-36 (bg)	GWC-25R	GWC-16R	GWA-38 (bg)	GWC-24R	GWA-37 (bg)	GWC-19R	GWC-17R
2/29/2016									
3/1/2016	0.012449999..	0.012449999..					0.012449999..		
3/2/2016					0.012449999..				
3/3/2016				0.012449999.. (D)					
3/4/2016						0.022450000..			0.022450000..
3/7/2016								0.022450000..	
3/8/2016			0.022450000..						
3/9/2016									
5/2/2016	0.013048442..	0.013048442..							
5/3/2016					0.013048442..		0.013048442..		
5/4/2016			0.013048442..						
5/5/2016						0.013048442..			
5/6/2016									
5/9/2016								0.013048442..	
5/10/2016				0.013048442..					0.013048442..
7/6/2016	0.01095 (J)								
7/7/2016		0.01065 (J)			0.01065 (J)				
7/8/2016							0.01065 (J)		
7/11/2016									
7/12/2016						0.013048442..			
7/13/2016				0.013048442..					
7/14/2016								0.01064 (J)	0.01115 (J)
7/15/2016									
7/18/2016			0.01065 (J)						
9/7/2016	0.013740373..	0.01134 (J)					0.01134 (J)		
9/8/2016					0.01134 (J)				
9/9/2016									
9/12/2016								0.013740373..	
9/13/2016			0.013740373..			0.013740373..			
9/14/2016									0.013740373..
9/15/2016				0.013740373..					
10/25/2016	0.01134 (J)	0.013740373..			0.01144 (J)		0.013740373..		
10/26/2016									
10/27/2016			0.013740373..			0.013740373..			
10/31/2016								0.013740373..	
11/1/2016									0.013689826..
11/2/2016				0.013689826..					
1/5/2017	0.01139 (J)	0.01129 (J)							
1/6/2017							0.013689826..		
1/9/2017									
1/11/2017				0.01129 (J)				0.013689826..	0.013689826..
1/12/2017									
1/13/2017			0.013689826..			0.013689826..			
1/25/2017									
2/9/2017					0.012449999..				
3/14/2017	0.01025 (J)						0.01005 (J)		
3/15/2017		0.01015 (J)							
3/16/2017			0.01025 (J)						
3/20/2017				0.012449999..		0.01005 (J)			
3/21/2017								0.01002 (J)	0.012449999..
3/22/2017									
3/23/2017					0.01005 (J)				

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 6/19/2018 3:36 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-36R (bg)	GWA-36 (bg)	GWC-25R	GWC-16R	GWA-38 (bg)	GWC-24R	GWA-37 (bg)	GWC-19R	GWC-17R
5/16/2017	0.013048442..						0.013048442..		
5/17/2017		0.01063 (J)			0.01065 (J)				
5/18/2017									
5/19/2017			0.01065 (J)			0.013048442..			
5/22/2017								0.013048442..	
5/23/2017				0.01063 (J)					0.013048442..
5/24/2017									
7/19/2017									
9/15/2017	0.01132 (J)	0.01154 (J)					0.013740373..		
9/18/2017									
9/19/2017			0.013740373..		0.013740373..	0.01144 (J)			
9/20/2017								0.01164 (J)	
9/21/2017				0.01133 (J)					
9/22/2017									0.013740373..
9/25/2017									
3/12/2018	0.012449999..	0.012449999..					0.012449999..		
3/13/2018			0.012449999..		0.012449999..	0.012449999..			
3/14/2018				0.012449999..				0.012449999..	0.012449999..

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 6/19/2018 3:36 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-18	GWC-18R	GWC-20R	GWC-21R	GWC-22R	GWC-23R	GWA-51R_51RZ ...	GWA-53R (bg)	GWA-52 (bg)
9/15/2014									
9/16/2014									
9/17/2014	0.017740373..	0.017740373..							
9/18/2014			0.017740373..	0.017740373..	0.017740373..	0.017740373..			
10/3/2014									
10/4/2014	0.017740373..	0.017740373..							
10/5/2014			0.017740373..	0.017740373..	0.017740373..	0.017740373..			
10/20/2014									
10/21/2014	0.017740373..	0.017740373..							
10/22/2014			0.017740373..	0.017740373..	0.017740373..	0.017740373..			
10/23/2014									
11/5/2014	0.017689826..		0.017689826..	0.017689826..	0.017689826..	0.017689826..			
11/10/2014									
11/11/2014		0.017689826..							
3/2/2015									
3/3/2015	0.016450000..	0.016450000..							
3/4/2015			0.016450000..	0.016450000..	0.016450000..	0.016450000..			
3/17/2015									
3/18/2015	0.016450000..	0.016450000..							
3/19/2015			0.016450000..	0.016450000..	0.016450000..				
3/20/2015						0.016450000..			
4/5/2015									
4/6/2015									
4/7/2015	0.016450000..	0.016450000..	0.016450000..						
4/8/2015				0.016450000..	0.016450000..	0.016450000..			
4/9/2015									
4/21/2015									
4/22/2015									
4/23/2015	0.016450000..	0.016450000..				0.016450000..			
4/24/2015			0.016450000..	0.016450000..	0.016450000..				
5/8/2015							0.017048442..	0.017048442..	0.017048442..
5/9/2015									
5/17/2015							0.017048442..	0.017048442..	0.017048442..
5/18/2015									
5/19/2015									
5/25/2015							0.017048442..	0.017048442..	0.017048442..
5/26/2015									
6/8/2015							0.017048442..	0.017048442..	0.017048442..
6/9/2015									
6/17/2015									
6/18/2015							0.017048442..	0.017048442..	0.017048442..
6/24/2015							0.017048442..	0.017048442..	0.017048442..
6/25/2015									
6/30/2015							0.017048442..	0.017048442..	0.017048442..
7/1/2015									
7/6/2015							0.017048442..	0.017048442..	0.017048442..
7/7/2015									
7/28/2015									
7/29/2015	0.017048442..	0.017048442..							
7/30/2015			0.017048442..	0.017048442..	0.017048442..	0.017048442..			
8/12/2015							0.012490373..	0.012490373..	0.012490373..
8/13/2015									

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 6/19/2018 3:36 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-18	GWC-18R	GWC-20R	GWC-21R	GWC-22R	GWC-23R	GWA-51R_51RZ ...	GWA-53R (bg)	GWA-52 (bg)
2/29/2016									0.012449999..
3/1/2016									
3/2/2016								0.012449999..	
3/3/2016									
3/4/2016									
3/7/2016	0.022450000..	0.022450000..			0.022450000..				
3/8/2016			0.022450000..	0.022450000..					
3/9/2016						0.022450000..			
5/2/2016									
5/3/2016								0.013048442..	
5/4/2016							0.013048442.. (D)		0.013048442..
5/5/2016	0.013048442..	0.013048442..			0.013048442..				
5/6/2016						0.013048442..			
5/9/2016			0.013048442..	0.013048442..					
5/10/2016									
7/6/2016									
7/7/2016							0.01075 (JD)		
7/8/2016									0.013048442..
7/11/2016								0.013048442..	
7/12/2016									
7/13/2016	0.01065 (J)	0.013048442..							
7/14/2016			0.013048442..		0.013048442..				
7/15/2016				0.013048442..		0.013048442..			
7/18/2016									
9/7/2016								0.013740373..	
9/8/2016							0.013740373.. (D)		0.013740373..
9/9/2016				0.013740373..					
9/12/2016		0.01144 (J)	0.013740373..		0.013740373..				
9/13/2016	0.013740373..								
9/14/2016						0.013740373..			
9/15/2016									
10/25/2016									
10/26/2016							0.013740373.. (D)		0.013740373..
10/27/2016				0.013740373..	0.013740373..			0.013740373..	
10/31/2016	0.013740373..		0.013740373..						
11/1/2016		0.01129 (J)				0.013689826..			
11/2/2016									
1/5/2017									
1/6/2017							0.013689826.. (D)	0.013689826..	0.013689826..
1/9/2017									
1/11/2017		0.013689826..							
1/12/2017	0.01139 (J)		0.013689826..	0.013689826..					
1/13/2017					0.01129 (J)				
1/25/2017						0.013689826..			
2/9/2017									
3/14/2017									
3/15/2017							0.012449999.. (D)		0.012449999..
3/16/2017								0.01 (J)	
3/20/2017		0.01002 (J)			0.01002 (J)				
3/21/2017				0.01001 (J)					
3/22/2017			0.012449999..			0.012449999..			
3/23/2017	0.01015 (J)								

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 6/19/2018 3:36 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-18	GWC-18R	GWC-20R	GWC-21R	GWC-22R	GWC-23R	GWA-51R_51RZ ...	GWA-53R (bg)	GWA-52 (bg)
5/16/2017									
5/17/2017									0.013048442..
5/18/2017							0.013048442.. (D)		
5/19/2017								0.01065 (J)	
5/22/2017		0.013048442..	0.013048442..						
5/23/2017	0.01075 (J)			0.013048442..	0.013048442..				
5/24/2017						0.01065 (J)			
7/19/2017							0.013048442.. (D)		
9/15/2017									0.013740373..
9/18/2017									
9/19/2017			0.013740373..	0.013740373..	0.01134 (J)		0.013740373.. (D)	0.013740373..	
9/20/2017									
9/21/2017		0.01154 (J)				0.013740373..			
9/22/2017									
9/25/2017	0.01132 (J)								
3/12/2018									
3/13/2018					0.012449999..		0.012449999.. (D)	0.012449999..	0.012449999..
3/14/2018	0.012449999..	0.0103 (J)	0.012449999..	0.012449999..		0.012449999..			

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 6/19/2018 3:36 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-53 (bg)	GWA-54 (bg)	GWA-56 (bg)	GWA-55R (bg)	GWA-55 (bg)
9/15/2014					
9/16/2014					
9/17/2014					
9/18/2014					
10/3/2014					
10/4/2014					
10/5/2014					
10/20/2014					
10/21/2014					
10/22/2014					
10/23/2014					
11/5/2014					
11/10/2014					
11/11/2014					
3/2/2015					
3/3/2015					
3/4/2015					
3/17/2015					
3/18/2015					
3/19/2015					
3/20/2015					
4/5/2015					
4/6/2015					
4/7/2015					
4/8/2015					
4/9/2015					
4/21/2015					
4/22/2015					
4/23/2015					
4/24/2015					
5/8/2015					
5/9/2015	0.017048442..	0.017048442..	0.017048442..	0.017048442..	0.017048442..
5/17/2015					
5/18/2015	0.017048442..	0.017048442..		0.017048442..	0.017048442..
5/19/2015			0.017048442..		
5/25/2015	0.017048442..	0.017048442..			
5/26/2015			0.017048442..	0.017048442..	0.017048442..
6/8/2015	0.017048442..				
6/9/2015		0.017048442..	0.017048442..	0.017048442..	0.017048442..
6/17/2015	0.017048442..	0.017048442..	0.017048442..	0.017048442..	0.017048442..
6/18/2015					
6/24/2015	0.017048442..				
6/25/2015		0.017048442..	0.017048442..	0.017048442..	0.017048442..
6/30/2015	0.017048442..				
7/1/2015		0.017048442..	0.017048442..	0.017048442..	0.017048442..
7/6/2015	0.017048442..				
7/7/2015		0.017048442..	0.017048442..	0.017048442..	0.017048442..
7/28/2015					
7/29/2015					
7/30/2015					
8/12/2015	0.012490373..	0.012490373..			
8/13/2015			0.012490373..	0.012490373..	0.012490373..

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 6/19/2018 3:36 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-53 (bg)	GWA-54 (bg)	GWA-56 (bg)	GWA-55R (bg)	GWA-55 (bg)
2/29/2016					
3/1/2016					
3/2/2016	0.012449999..	0.012449999..			0.012449999..
3/3/2016			0.022450000..	0.012449999..	
3/4/2016					
3/7/2016					
3/8/2016					
3/9/2016					
5/2/2016					
5/3/2016	0.013048442..			0.013048442..	0.013048442..
5/4/2016		0.013048442..			
5/5/2016					
5/6/2016					
5/9/2016			0.013048442..		
5/10/2016					
7/6/2016					
7/7/2016					
7/8/2016	0.01075 (J)	0.013048442..			
7/11/2016			0.01085 (J)	0.01065 (J)	0.013048442..
7/12/2016					
7/13/2016					
7/14/2016					
7/15/2016					
7/18/2016					
9/7/2016					
9/8/2016	0.01144 (J)	0.013740373..			
9/9/2016			0.01134 (J)	0.013740373..	0.013740373..
9/12/2016					
9/13/2016					
9/14/2016					
9/15/2016					
10/25/2016					
10/26/2016	0.013740373..	0.013740373..	0.013740373..		0.013740373..
10/27/2016				0.01134 (J)	
10/31/2016					
11/1/2016					
11/2/2016					
1/5/2017					
1/6/2017					
1/9/2017	0.013689826..	0.013689826..	0.013689826..	0.013689826..	0.013689826..
1/11/2017					
1/12/2017					
1/13/2017					
1/25/2017					
2/9/2017					
3/14/2017					
3/15/2017		0.012449999..	0.01005 (J)		
3/16/2017	0.01005 (J)			0.01005 (J)	0.01002 (J)
3/20/2017					
3/21/2017					
3/22/2017					
3/23/2017					

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 6/19/2018 3:36 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-53 (bg)	GWA-54 (bg)	GWA-56 (bg)	GWA-55R (bg)	GWA-55 (bg)
5/16/2017					
5/17/2017					
5/18/2017		0.013048442..	0.01065 (J)	0.01062 (J)	0.01065 (J)
5/19/2017	0.01064 (J)				
5/22/2017					
5/23/2017					
5/24/2017					
7/19/2017					
9/15/2017		0.013740373..	0.01134 (J)		0.013740373..
9/18/2017				0.013740373..	
9/19/2017	0.01134 (J)				
9/20/2017					
9/21/2017					
9/22/2017					
9/25/2017					
3/12/2018				0.012449999..	0.012449999..
3/13/2018	0.012449999..	0.012449999..	0.012449999..		
3/14/2018					

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 6/19/2018 3:36 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-36R (bg)	GWA-36 (bg)	GWC-25R	GWC-16R	GWA-38 (bg)	GWC-24R	GWA-37 (bg)	GWC-19R	GWC-17R
9/15/2014	0.000172 (J)	<0.0002							
9/16/2014			3.13E-05 (J)	2.69E-05 (J)	2.75E-05 (J)	2.81E-05 (J)	4.23E-05 (J)		
9/17/2014								4.15E-05 (J)	2.97E-05 (J)
9/18/2014									
10/3/2014	<0.0002	<0.0002			<0.0002		<0.0002		
10/4/2014			<0.0002	<0.0002		<0.0002		<0.0002	<0.0002
10/5/2014									
10/20/2014	<0.0002	<0.0002			4.07E-05 (J)		3.87E-05 (J)		
10/21/2014				3.18E-05 (J)				5.89E-05 (J)	5.02E-05 (J)
10/22/2014									
10/23/2014			4.6E-05 (J)			<0.0002			
11/5/2014								7.28E-05 (J)	
11/10/2014	3.84E-05 (J)	5.8E-05 (J)	2.5E-05 (J)		6.86E-05 (J)	5.15E-05 (J)	3.34E-05 (J)		
11/11/2014				<0.0002					3.66E-05 (J)
3/2/2015	<0.0001	2.04E-05 (J)			3.07E-05 (J)		<0.0001		
3/3/2015				<0.0001				<0.0001	<0.0001
3/4/2015			<0.0001			<0.0001			
3/17/2015	<0.0002	<0.0002			<0.0002		<0.0002		
3/18/2015				<0.0002					<0.0002
3/19/2015								<0.0002	
3/20/2015			<0.0002			<0.0002			
4/5/2015	<0.0002	<0.0002					<0.0002		
4/6/2015				<0.0002	<0.0002				<0.0002
4/7/2015								<0.0002	
4/8/2015						<0.0002			
4/9/2015			<0.0002						
4/21/2015	2.39E-05 (J)	<0.0002							
4/22/2015					<0.0002		<0.0002		
4/23/2015			<0.0002	<0.0002		<0.0002			<0.0002
4/24/2015								<0.0002	
5/8/2015									
5/9/2015									
5/17/2015									
5/18/2015									
5/19/2015									
5/25/2015									
5/26/2015									
6/8/2015									
6/9/2015									
6/17/2015									
6/18/2015									
6/24/2015									
6/25/2015									
6/30/2015									
7/1/2015									
7/6/2015									
7/7/2015									
7/28/2015	5.2E-05 (J)	2.13E-05 (J)			<0.0002		<0.0002		
7/29/2015				<0.0002				<0.0002	<0.0002
7/30/2015			<0.0002			<0.0002			
8/12/2015									
8/13/2015									

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 6/19/2018 3:36 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-36R (bg)	GWA-36 (bg)	GWC-25R	GWC-16R	GWA-38 (bg)	GWC-24R	GWA-37 (bg)	GWC-19R	GWC-17R
2/29/2016									
3/1/2016	<0.0005	<0.0005					<0.0005		
3/2/2016					<0.0005				
3/3/2016				<0.0005 (D)					
3/4/2016						<0.05			<0.05
3/7/2016								<0.05	
3/8/2016			<0.05						
3/9/2016									
5/2/2016	<0.0005	<0.0005							
5/3/2016					<0.0005		<0.0005		
5/4/2016			<0.0005						
5/5/2016						<0.0005			
5/6/2016									
5/9/2016								<0.0005	
5/10/2016				<0.0005					<0.0005
7/6/2016	<0.0005								
7/7/2016		<0.0005			<0.0005				
7/8/2016							<0.0005		
7/11/2016									
7/12/2016						<0.0005			
7/13/2016				<0.0005					
7/14/2016								<0.0005	<0.0005
7/15/2016									
7/18/2016			<0.0005						
9/7/2016	<0.0005	<0.0005					<0.0005		
9/8/2016					<0.0005				
9/9/2016									
9/12/2016								<0.0005	
9/13/2016			<0.0005			<0.0005			
9/14/2016									<0.0005
9/15/2016				<0.0005					
10/25/2016	<0.0005	<0.0005			<0.0005		<0.0005		
10/26/2016									
10/27/2016			<0.0005			<0.0005			
10/31/2016								<0.0005	
11/1/2016									<0.0005
11/2/2016				<0.0005					
1/5/2017	<0.0005	<0.0005							
1/6/2017							<0.0005		
1/9/2017									
1/11/2017				<0.0005				<0.0005	<0.0005
1/12/2017									
1/13/2017			<0.0005			<0.0005			
1/25/2017									
2/9/2017					<0.0005				
3/14/2017	<0.0005						<0.0005		
3/15/2017		<0.0005							
3/16/2017			<0.0005						
3/20/2017				<0.0005		<0.0005			
3/21/2017								<0.0005	<0.0005
3/22/2017									
3/23/2017					<0.0005				

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 6/19/2018 3:36 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-36R (bg)	GWA-36 (bg)	GWC-25R	GWC-16R	GWA-38 (bg)	GWC-24R	GWA-37 (bg)	GWC-19R	GWC-17R
5/16/2017	<0.0005						<0.0005		
5/17/2017		<0.0005			<0.0005				
5/18/2017									
5/19/2017			<0.0005			<0.0005			
5/22/2017								<0.0005	
5/23/2017				<0.0005					<0.0005
5/24/2017									
7/19/2017									
9/15/2017	<0.0005	<0.0005					<0.0005		
9/18/2017									
9/19/2017			<0.0005		<0.0005	<0.0005			
9/20/2017								<0.0005	
9/21/2017				<0.0005					
9/22/2017									<0.0005
9/25/2017									
3/12/2018	<0.0005	<0.0005					<0.0005		
3/13/2018			<0.0005		<0.0005	<0.0005			
3/14/2018				<0.0005				<0.0005	<0.0005

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 6/19/2018 3:36 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-18	GWC-18R	GWC-20R	GWC-21R	GWC-22R	GWC-23R	GWA-51R_51RZ ...	GWA-53R (bg)	GWA-52 (bg)
9/15/2014									
9/16/2014									
9/17/2014	4.24E-05 (J)	3.5E-05 (J)							
9/18/2014			5.34E-05 (J)	<0.0002	2.54E-05 (J)	2.82E-05 (J)			
10/3/2014									
10/4/2014	2.5E-05 (J)	<0.0002							
10/5/2014			<0.0002	<0.0002	<0.0002	<0.0002			
10/20/2014									
10/21/2014	6.4E-05 (J)	5.35E-05 (J)							
10/22/2014			4.88E-05 (J)	2.57E-05 (J)	2.83E-05 (J)	<0.0002			
10/23/2014									
11/5/2014	7.02E-05 (J)		2.85E-05 (J)	<0.0002	0.0002	4.83E-05 (J)			
11/10/2014									
11/11/2014		4.64E-05 (J)							
3/2/2015									
3/3/2015	<0.0001	<0.0001							
3/4/2015			<0.0001	<0.0001	<0.0001	<0.0001			
3/17/2015									
3/18/2015	<0.0002	<0.0002							
3/19/2015			<0.0002	<0.0002	<0.0002				
3/20/2015						<0.0002			
4/5/2015									
4/6/2015									
4/7/2015	<0.0002	<0.0002	<0.0002						
4/8/2015				<0.0002	<0.0002	<0.0002			
4/9/2015									
4/21/2015									
4/22/2015									
4/23/2015	<0.0002	<0.0002				<0.0002			
4/24/2015			<0.0002	<0.0002	<0.0002				
5/8/2015							<0.0002	<0.0002	<0.0002
5/9/2015									
5/17/2015							0.000101 (J)	<0.0002	<0.0002
5/18/2015									
5/19/2015									
5/25/2015							4.88E-05 (J)	<0.0002	<0.0002
5/26/2015									
6/8/2015							<0.0002	<0.0002	<0.0002
6/9/2015									
6/17/2015									
6/18/2015							4.1E-05 (J)	<0.0002	<0.0002
6/24/2015							8.41E-05 (J)	<0.0002	<0.0002
6/25/2015									
6/30/2015							<0.0002	<0.0002	<0.0002
7/1/2015									
7/6/2015							<0.0002	<0.0002	<0.0002
7/7/2015									
7/28/2015									
7/29/2015	3.14E-05 (J)	<0.0002							
7/30/2015			<0.0002	<0.0002	<0.0002	<0.0002			
8/12/2015							4.91E-05 (J)	<0.0002	<0.0002
8/13/2015									

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 6/19/2018 3:36 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-18	GWC-18R	GWC-20R	GWC-21R	GWC-22R	GWC-23R	GWA-51R_51RZ ...	GWA-53R (bg)	GWA-52 (bg)
2/29/2016									<0.0005
3/1/2016									
3/2/2016								<0.0005	
3/3/2016									
3/4/2016									
3/7/2016	<0.05	<0.05			<0.05				
3/8/2016			<0.05	<0.05					
3/9/2016						<0.05			
5/2/2016									
5/3/2016								<0.0005	
5/4/2016							<0.0005 (D)		<0.0005
5/5/2016	<0.0005	<0.0005			<0.0005				
5/6/2016						<0.0005			
5/9/2016			<0.0005	<0.0005					
5/10/2016									
7/6/2016									
7/7/2016							<0.0005 (D)		
7/8/2016									<0.0005
7/11/2016								<0.0005	
7/12/2016									
7/13/2016	<0.0005	<0.0005							
7/14/2016			<0.0005		<0.0005				
7/15/2016				<0.0005		<0.0005			
7/18/2016									
9/7/2016								<0.0005	
9/8/2016							<0.0005 (D)		<0.0005
9/9/2016				<0.0005					
9/12/2016		<0.0005	<0.0005		<0.0005				
9/13/2016	<0.0005								
9/14/2016						<0.0005			
9/15/2016									
10/25/2016									
10/26/2016							<0.0005 (D)		<0.0005
10/27/2016				<0.0005	<0.0005			<0.0005	
10/31/2016	<0.0005		<0.0005						
11/1/2016		<0.0005				<0.0005			
11/2/2016									
1/5/2017									
1/6/2017							<0.0005 (D)	<0.0005	<0.0005
1/9/2017									
1/11/2017		<0.0005							
1/12/2017	<0.0005		<0.0005	<0.0005					
1/13/2017					<0.0005				
1/25/2017						<0.0005			
2/9/2017									
3/14/2017									
3/15/2017							<0.0005 (D)		<0.0005
3/16/2017								<0.0005	
3/20/2017		<0.0005			<0.0005				
3/21/2017				<0.0005					
3/22/2017			<0.0005			<0.0005			
3/23/2017	<0.0005								

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 6/19/2018 3:36 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-18	GWC-18R	GWC-20R	GWC-21R	GWC-22R	GWC-23R	GWA-51R_51RZ ...	GWA-53R (bg)	GWA-52 (bg)
5/16/2017									
5/17/2017									<0.0005
5/18/2017							<0.0005 (D)		
5/19/2017								<0.0005	
5/22/2017		<0.0005	<0.0005						
5/23/2017	<0.0005			<0.0005	<0.0005				
5/24/2017						<0.0005			
7/19/2017							<0.0005 (D)		
9/15/2017									<0.0005
9/18/2017									
9/19/2017			<0.0005	<0.0005	<0.0005		<0.0005 (D)	<0.0005	
9/20/2017									
9/21/2017		<0.0005				<0.0005			
9/22/2017									
9/25/2017	<0.0005								
3/12/2018									
3/13/2018					<0.0005		<0.0005 (D)	<0.0005	<0.0005
3/14/2018	<0.0005	<0.0005	<0.0005	<0.0005		<0.0005			

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 6/19/2018 3:36 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-53 (bg)	GWA-54 (bg)	GWA-56 (bg)	GWA-55R (bg)	GWA-55 (bg)
9/15/2014					
9/16/2014					
9/17/2014					
9/18/2014					
10/3/2014					
10/4/2014					
10/5/2014					
10/20/2014					
10/21/2014					
10/22/2014					
10/23/2014					
11/5/2014					
11/10/2014					
11/11/2014					
3/2/2015					
3/3/2015					
3/4/2015					
3/17/2015					
3/18/2015					
3/19/2015					
3/20/2015					
4/5/2015					
4/6/2015					
4/7/2015					
4/8/2015					
4/9/2015					
4/21/2015					
4/22/2015					
4/23/2015					
4/24/2015					
5/8/2015					
5/9/2015	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
5/17/2015					
5/18/2015	<0.0002	<0.0002		<0.0002	<0.0002
5/19/2015			<0.0002		
5/25/2015	<0.0002	<0.0002			
5/26/2015			<0.0002	<0.0002	<0.0002
6/8/2015	<0.0002				
6/9/2015		<0.0002	<0.0002	<0.0002	<0.0002
6/17/2015	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
6/18/2015					
6/24/2015	<0.0002				
6/25/2015		<0.0002	<0.0002	<0.0002	<0.0002
6/30/2015	<0.0002				
7/1/2015		<0.0002	<0.0002	<0.0002	<0.0002
7/6/2015	<0.0002				
7/7/2015		<0.0002	<0.0002	<0.0002	<0.0002
7/28/2015					
7/29/2015					
7/30/2015					
8/12/2015	<0.0002	<0.0002			
8/13/2015			<0.0002	<0.0002	<0.0002

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 6/19/2018 3:36 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-53 (bg)	GWA-54 (bg)	GWA-56 (bg)	GWA-55R (bg)	GWA-55 (bg)
2/29/2016					
3/1/2016					
3/2/2016	<0.0005	<0.0005			<0.0005
3/3/2016			<0.05	<0.0005	
3/4/2016					
3/7/2016					
3/8/2016					
3/9/2016					
5/2/2016					
5/3/2016	<0.0005			<0.0005	<0.0005
5/4/2016		<0.0005			
5/5/2016					
5/6/2016					
5/9/2016			<0.0005		
5/10/2016					
7/6/2016					
7/7/2016					
7/8/2016	<0.0005	<0.0005			
7/11/2016			<0.0005	<0.0005	<0.0005
7/12/2016					
7/13/2016					
7/14/2016					
7/15/2016					
7/18/2016					
9/7/2016					
9/8/2016	<0.0005	<0.0005			
9/9/2016			<0.0005	<0.0005	<0.0005
9/12/2016					
9/13/2016					
9/14/2016					
9/15/2016					
10/25/2016					
10/26/2016	<0.0005	<0.0005	<0.0005		<0.0005
10/27/2016				<0.0005	
10/31/2016					
11/1/2016					
11/2/2016					
1/5/2017					
1/6/2017					
1/9/2017	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
1/11/2017					
1/12/2017					
1/13/2017					
1/25/2017					
2/9/2017					
3/14/2017					
3/15/2017		<0.0005	<0.0005		
3/16/2017	<0.0005			<0.0005	<0.0005
3/20/2017					
3/21/2017					
3/22/2017					
3/23/2017					

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 6/19/2018 3:36 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-53 (bg)	GWA-54 (bg)	GWA-56 (bg)	GWA-55R (bg)	GWA-55 (bg)
5/16/2017					
5/17/2017					
5/18/2017		<0.0005	<0.0005	<0.0005	<0.0005
5/19/2017	<0.0005				
5/22/2017					
5/23/2017					
5/24/2017					
7/19/2017					
9/15/2017		<0.0005	<0.0005		<0.0005
9/18/2017				<0.0005	
9/19/2017	<0.0005				
9/20/2017					
9/21/2017					
9/22/2017					
9/25/2017					
3/12/2018				<0.0005	<0.0005
3/13/2018	<0.0005	<0.0005	<0.0005		
3/14/2018					

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 6/19/2018 3:36 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-36R (bg)	GWA-36 (bg)	GWC-24R	GWC-25R	GWC-16R	GWA-38 (bg)	GWA-37 (bg)	GWC-17R	GWC-18
9/15/2014	0.02004	0.011286389..							
9/16/2014			0.011286389..	0.011286389..	0.04004	0.01284	0.02804		
9/17/2014								0.011286389..	0.011286389..
9/18/2014									
10/3/2014	0.011286389..	0.011286389..				0.01364	0.03204		
10/4/2014			0.011286389..	0.011286389..	0.03904			0.011286389..	0.011286389..
10/5/2014									
10/20/2014	0.01434	0.011286389..				0.01254	0.03204		
10/21/2014					0.03604			0.011286389..	0.011286389..
10/22/2014									
10/23/2014			0.011286389..	0.011286389..					
11/5/2014									0.01197 (J)
11/10/2014	0.011622135..	0.011622135..	0.011622135..	0.011622135..		0.01297	0.02837		
11/11/2014					0.03337			0.011622135..	
3/2/2015	0.010999999..	0.010999999..				0.02675	0.02575		
3/3/2015					0.02975			0.010999999..	0.010999999..
3/4/2015			0.010999999..	0.010999999..					
3/17/2015	0.010999999..	0.010999999..				0.01545	0.02475		
3/18/2015					0.02875			0.010999999..	0.010999999..
3/19/2015									
3/20/2015			0.010999999..	0.010999999..					
4/5/2015	0.01135 (J)	0.010999999..					0.02575		
4/6/2015					0.02975	0.01195 (J)		0.010999999..	
4/7/2015									0.01115 (J)
4/8/2015			0.010999999..						
4/9/2015				0.010999999..					
4/21/2015	0.01305	0.01115 (J)							
4/22/2015						0.01125 (J)	0.02575		
4/23/2015			0.010999999..	0.010999999..	0.02875			0.010999999..	0.010999999..
4/24/2015									
5/8/2015									
5/9/2015									
5/17/2015									
5/18/2015									
5/19/2015									
5/25/2015									
5/26/2015									
6/8/2015									
6/9/2015									
6/17/2015									
6/18/2015									
6/24/2015									
6/25/2015									
6/30/2015									
7/1/2015									
7/6/2015									
7/7/2015									
7/28/2015	0.01512	0.013166743..				0.01342 (J)	0.02992		
7/29/2015					0.02992			0.013166743..	0.01342 (J)
7/30/2015			0.013166743..	0.013166743..					
8/12/2015									
8/13/2015									

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 6/19/2018 3:36 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-36R (bg)	GWA-36 (bg)	GWC-24R	GWC-25R	GWC-16R	GWA-38 (bg)	GWA-37 (bg)	GWC-17R	GWC-18
2/29/2016									
3/1/2016	0.014749999..	0.014749999..					0.02355		
3/2/2016						0.014749999..			
3/3/2016					0.02085 (D)				
3/4/2016			0.014749999..					0.014749999..	
3/7/2016									0.014749999..
3/8/2016				0.014749999..					
3/9/2016									
7/6/2016	0.01262 (J)								
7/7/2016		0.016916743..				0.01332 (J)			
7/8/2016							0.02592		
7/11/2016									
7/12/2016			0.016916743..						
7/13/2016					0.02522				0.01262 (J)
7/14/2016								0.016916743..	
7/15/2016									
7/18/2016				0.016916743..					
3/14/2017	0.01045 (J)						0.01845 (J)		
3/15/2017		0.02395							
3/16/2017				0.01095 (J)					
3/20/2017			0.01005 (J)		0.02085				
3/21/2017								0.014749999..	
3/22/2017									
3/23/2017						0.014749999.. (*)			0.014749999.. (*)
9/15/2017	0.015036389..	0.01054 (J)					0.01534 (J)		
9/18/2017									
9/19/2017			0.015036389..	0.015036389..		0.01114 (J)			
9/20/2017									
9/21/2017					0.01924 (J)				
9/22/2017								0.015036389..	
9/25/2017									0.01154 (J)
3/12/2018	0.014749999..	0.014749999..					0.01515 (J)		
3/13/2018			0.014749999..	0.014749999..		0.014749999..			
3/14/2018					0.01915 (J)			0.014749999..	0.014749999..

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 6/19/2018 3:36 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-19R	GWC-18R	GWC-23R	GWC-21R	GWC-20R	GWC-22R	GWA-51R_51RZ ...	GWA-53R (bg)	GWA-52 (bg)
9/15/2014									
9/16/2014									
9/17/2014	0.011286389..	0.011286389..							
9/18/2014			0.011286389..	0.011286389..	0.011286389..	0.011286389..			
10/3/2014									
10/4/2014	0.011286389..	0.011286389..							
10/5/2014			0.011286389..	0.011286389..	0.011286389..	0.011286389..			
10/20/2014									
10/21/2014	0.011286389..	0.011286389..							
10/22/2014			0.011286389..	0.01134 (J)	0.011286389..	0.011286389..			
10/23/2014									
11/5/2014	0.011622135..		0.011622135..	0.01167 (J)	0.011622135..	0.011622135..			
11/10/2014									
11/11/2014		0.011622135..							
3/2/2015									
3/3/2015	0.010999999..	0.010999999..							
3/4/2015			0.010999999..	0.010999999..	0.010999999..	0.010999999..			
3/17/2015									
3/18/2015		0.010999999..							
3/19/2015	0.010999999..			0.010999999..	0.010999999..	0.010999999..			
3/20/2015			0.010999999..						
4/5/2015									
4/6/2015									
4/7/2015	0.010999999..	0.010999999..			0.010999999..				
4/8/2015			0.010999999..	0.01115 (J)		0.010999999..			
4/9/2015									
4/21/2015									
4/22/2015									
4/23/2015		0.010999999..	0.010999999..						
4/24/2015	0.010999999..			0.01115 (J)	0.010999999..	0.010999999..			
5/8/2015							0.013166743..	0.013166743..	0.013166743..
5/9/2015									
5/17/2015							0.01352 (J)	0.013166743..	0.013166743..
5/18/2015									
5/19/2015									
5/25/2015							0.013166743..	0.013166743..	0.013166743..
5/26/2015									
6/8/2015							0.013166743..	0.013166743..	0.013166743..
6/9/2015									
6/17/2015									
6/18/2015							0.013166743..	0.013166743..	0.013166743..
6/24/2015							0.013166743..	0.013166743..	0.013166743..
6/25/2015									
6/30/2015							0.013166743..	0.013166743..	0.013166743..
7/1/2015									
7/6/2015							0.013166743..	0.013166743..	0.013166743..
7/7/2015									
7/28/2015									
7/29/2015	0.013166743..	0.013166743..							
7/30/2015			0.013166743..	0.013166743..	0.013166743..	0.013166743..			
8/12/2015							0.012536389..	0.012536389..	0.012536389..
8/13/2015									

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 6/19/2018 3:36 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-19R	GWC-18R	GWC-23R	GWC-21R	GWC-20R	GWC-22R	GWA-51R_51RZ ...	GWA-53R (bg)	GWA-52 (bg)
2/29/2016									0.014749999..
3/1/2016									
3/2/2016								0.014749999..	
3/3/2016									
3/4/2016									
3/7/2016	0.014749999..	0.014749999..				0.014749999..			
3/8/2016				0.03585	0.014749999..				
3/9/2016			0.01						
7/6/2016									
7/7/2016							0.01272 (JD)		
7/8/2016									0.016916743..
7/11/2016								0.016916743..	
7/12/2016									
7/13/2016		0.016916743..							
7/14/2016	0.016916743..				0.016916743..	0.016916743..			
7/15/2016			0.016916743..	0.01402 (J)					
7/18/2016									
3/14/2017									
3/15/2017							0.014749999.. (D)		0.01025 (J)
3/16/2017								0.014749999..	
3/20/2017		0.014749999..				0.014749999..			
3/21/2017	0.014749999.. (*)			0.014749999.. (*)					
3/22/2017			0.014749999.. (*)		0.014749999..				
3/23/2017									
9/15/2017									0.015036389..
9/18/2017									
9/19/2017				0.01124 (J)	0.015036389..	0.01114 (J)	0.015036389.. (D)	0.015036389..	
9/20/2017	0.01064 (J)								
9/21/2017		0.015036389..	0.01124 (J)						
9/22/2017									
9/25/2017									
3/12/2018									
3/13/2018						0.014749999..	0.014749999.. (D)	0.014749999..	0.014749999..
3/14/2018	0.014749999..	0.014749999..	0.014749999..	0.01115 (J)	0.014749999..				

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 6/19/2018 3:36 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-56 (bg)	GWA-55R (bg)	GWA-55 (bg)	GWA-54 (bg)	GWA-53 (bg)
9/15/2014					
9/16/2014					
9/17/2014					
9/18/2014					
10/3/2014					
10/4/2014					
10/5/2014					
10/20/2014					
10/21/2014					
10/22/2014					
10/23/2014					
11/5/2014					
11/10/2014					
11/11/2014					
3/2/2015					
3/3/2015					
3/4/2015					
3/17/2015					
3/18/2015					
3/19/2015					
3/20/2015					
4/5/2015					
4/6/2015					
4/7/2015					
4/8/2015					
4/9/2015					
4/21/2015					
4/22/2015					
4/23/2015					
4/24/2015					
5/8/2015					
5/9/2015	0.013166743..	0.013166743..	0.013166743..	0.013166743..	0.013166743..
5/17/2015					
5/18/2015		0.01372 (J)	0.013166743..	0.013166743..	0.013166743..
5/19/2015	0.013166743..				
5/25/2015				0.013166743..	0.013166743..
5/26/2015	0.013166743..	0.013166743..	0.013166743..		
6/8/2015					0.013166743..
6/9/2015	0.013166743..	0.01412 (J)	0.013166743..	0.01342 (J)	
6/17/2015	0.013166743..	0.013166743..	0.013166743..	0.01322 (J)	0.013166743..
6/18/2015					
6/24/2015					0.01532
6/25/2015	0.013166743..	0.013166743..	0.013166743..	0.013166743..	
6/30/2015					0.013166743..
7/1/2015	0.013166743..	0.01352 (J)	0.013166743..	0.013166743..	
7/6/2015					0.013166743..
7/7/2015	0.013166743..	0.013166743..	0.013166743..	0.013166743..	
7/28/2015					
7/29/2015					
7/30/2015					
8/12/2015				0.012536389..	0.012536389..
8/13/2015	0.012536389..	0.012536389..	0.012536389..		

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 6/19/2018 3:36 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-56 (bg)	GWA-55R (bg)	GWA-55 (bg)	GWA-54 (bg)	GWA-53 (bg)
2/29/2016					
3/1/2016					
3/2/2016			0.014749999..	0.014749999..	0.014749999..
3/3/2016	0.01	0.014749999..			
3/4/2016					
3/7/2016					
3/8/2016					
3/9/2016					
7/6/2016					
7/7/2016					
7/8/2016				0.016916743..	0.016916743..
7/11/2016	0.01252 (J)	0.01262 (J)	0.016916743..		
7/12/2016					
7/13/2016					
7/14/2016					
7/15/2016					
7/18/2016					
3/14/2017					
3/15/2017	0.014749999..			0.01025 (J)	
3/16/2017		0.01125 (J)	0.01055 (J)		0.01025 (J)
3/20/2017					
3/21/2017					
3/22/2017					
3/23/2017					
9/15/2017	0.015036389..		0.015036389..	0.015036389..	
9/18/2017		0.015036389..			
9/19/2017					0.015036389..
9/20/2017					
9/21/2017					
9/22/2017					
9/25/2017					
3/12/2018		0.014749999..	0.014749999..		
3/13/2018	0.014749999..			0.014749999..	0.014749999..
3/14/2018					

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 6/19/2018 3:36 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-36R (bg)	GWA-36 (bg)	GWC-25R	GWC-16R	GWA-38 (bg)	GWC-24R	GWA-37 (bg)	GWC-19R	GWC-17R
9/15/2014	<0.005	<0.005							
9/16/2014			<0.005	<0.005	<0.005	<0.005	<0.005		
9/17/2014								<0.005	<0.005
9/18/2014									
10/3/2014	<0.005	<0.005			<0.005		<0.005		
10/4/2014			<0.005	<0.005		<0.005		<0.005	<0.005
10/5/2014									
10/20/2014	<0.005	<0.005			<0.005		<0.005		
10/21/2014				<0.005				<0.005	<0.005
10/22/2014									
10/23/2014			<0.005			<0.005			
11/5/2014								<0.005	
11/10/2014	<0.005	<0.005	<0.005		<0.005	<0.005	<0.005		
11/11/2014				<0.005					<0.005
3/2/2015	<0.005	<0.005			<0.005		<0.005		
3/3/2015				<0.005				<0.005	<0.005
3/4/2015			<0.005			<0.005			
3/17/2015	<0.005	<0.005			<0.005		<0.005		
3/18/2015				<0.005					<0.005
3/19/2015								<0.005	
3/20/2015			<0.005			<0.005			
4/5/2015	<0.005	<0.005					<0.005		
4/6/2015				<0.005	<0.005				<0.005
4/7/2015								<0.005	
4/8/2015						<0.005			
4/9/2015			<0.005						
4/21/2015	<0.005	<0.005							
4/22/2015					<0.005		<0.005		
4/23/2015			<0.005	<0.005		<0.005			<0.005
4/24/2015								<0.005	
5/8/2015									
5/9/2015									
5/17/2015									
5/18/2015									
5/19/2015									
5/25/2015									
5/26/2015									
6/8/2015									
6/9/2015									
6/17/2015									
6/18/2015									
6/24/2015									
6/25/2015									
6/30/2015									
7/1/2015									
7/6/2015									
7/7/2015									
7/28/2015	<0.005	<0.005			<0.005		<0.005		
7/29/2015				<0.005				<0.005	<0.005
7/30/2015			<0.005			<0.005			
8/12/2015									
8/13/2015									

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 6/19/2018 3:36 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-36R (bg)	GWA-36 (bg)	GWC-25R	GWC-16R	GWA-38 (bg)	GWC-24R	GWA-37 (bg)	GWC-19R	GWC-17R
2/29/2016									
3/1/2016	<0.01	<0.01					<0.01		
3/2/2016					<0.01				
3/3/2016				<0.01 (D)					
3/4/2016						<0.01			<0.01
3/7/2016								<0.01	
3/8/2016			<0.01						
3/9/2016									
5/2/2016	<0.01	<0.01							
5/3/2016					<0.01		<0.01		
5/4/2016			<0.01						
5/5/2016						<0.01			
5/6/2016									
5/9/2016								<0.01	
5/10/2016				<0.01					<0.01
7/6/2016	<0.01								
7/7/2016		<0.01			<0.01				
7/8/2016							<0.01		
7/11/2016									
7/12/2016						<0.01			
7/13/2016				<0.01					
7/14/2016								<0.01	<0.01
7/15/2016									
7/18/2016			<0.01						
9/7/2016	<0.01	<0.01					<0.01		
9/8/2016					<0.01				
9/9/2016									
9/12/2016								<0.01	
9/13/2016			<0.01			<0.01			
9/14/2016									<0.01
9/15/2016				<0.01					
10/25/2016	<0.01	<0.01			<0.01		<0.01		
10/26/2016									
10/27/2016			<0.01			<0.01			
10/31/2016								<0.01	
11/1/2016									<0.01
11/2/2016				<0.01					
1/5/2017	<0.01	<0.01							
1/6/2017							<0.01		
1/9/2017									
1/11/2017				<0.01				<0.01	<0.01
1/12/2017									
1/13/2017			<0.01			<0.01			
1/25/2017									
2/9/2017					<0.01				
3/14/2017	<0.01						<0.01		
3/15/2017		<0.01							
3/16/2017			<0.01						
3/20/2017				<0.01		<0.01			
3/21/2017								<0.01	<0.01
3/22/2017									
3/23/2017					<0.01				

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 6/19/2018 3:36 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-36R (bg)	GWA-36 (bg)	GWC-25R	GWC-16R	GWA-38 (bg)	GWC-24R	GWA-37 (bg)	GWC-19R	GWC-17R
5/16/2017	<0.01						<0.01		
5/17/2017		<0.01			<0.01				
5/18/2017									
5/19/2017			<0.01			<0.01			
5/22/2017								<0.01	
5/23/2017				<0.01					<0.01
5/24/2017									
7/19/2017									
9/15/2017	<0.01	<0.01					<0.01		
9/18/2017									
9/19/2017			<0.01		<0.01	<0.01			
9/20/2017								<0.01	
9/21/2017				<0.01					
9/22/2017									<0.01
9/25/2017									
3/12/2018	<0.01	<0.01					<0.01		
3/13/2018			<0.01		<0.01	<0.01			
3/14/2018				<0.01				<0.01	<0.01

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 6/19/2018 3:36 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-18	GWC-18R	GWC-20R	GWC-21R	GWC-22R	GWC-23R	GWA-51R_51RZ ...	GWA-53R (bg)	GWA-52 (bg)
9/15/2014									
9/16/2014									
9/17/2014	<0.005	<0.005							
9/18/2014			<0.005	<0.005	<0.005	<0.005			
10/3/2014									
10/4/2014	<0.005	<0.005							
10/5/2014			<0.005	<0.005	<0.005	<0.005			
10/20/2014									
10/21/2014	<0.005	<0.005							
10/22/2014			<0.005	<0.005	<0.005	<0.005			
10/23/2014									
11/5/2014	<0.005		<0.005	<0.005	<0.005	<0.005			
11/10/2014									
11/11/2014		<0.005							
3/2/2015									
3/3/2015	<0.005	<0.005							
3/4/2015			<0.005	<0.005	<0.005	<0.005			
3/17/2015									
3/18/2015	<0.005	<0.005							
3/19/2015			<0.005	<0.005	<0.005				
3/20/2015						<0.005			
4/5/2015									
4/6/2015									
4/7/2015	<0.005	<0.005	<0.005						
4/8/2015				<0.005	<0.005	<0.005			
4/9/2015									
4/21/2015									
4/22/2015									
4/23/2015	<0.005	<0.005				<0.005			
4/24/2015			<0.005	<0.005	<0.005				
5/8/2015							<0.005	<0.005	<0.005
5/9/2015									
5/17/2015							<0.005	<0.005	<0.005
5/18/2015									
5/19/2015									
5/25/2015							<0.005	<0.005	<0.005
5/26/2015									
6/8/2015							<0.005	<0.005	<0.005
6/9/2015									
6/17/2015									
6/18/2015							<0.005	<0.005	<0.005
6/24/2015							<0.005	<0.005	<0.005
6/25/2015									
6/30/2015							<0.005	<0.005	<0.005
7/1/2015									
7/6/2015							<0.005	<0.005	<0.005
7/7/2015									
7/28/2015									
7/29/2015	<0.005	<0.005							
7/30/2015			<0.005	<0.005	<0.005	<0.005			
8/12/2015							<0.005	<0.005	<0.005
8/13/2015									

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 6/19/2018 3:36 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-18	GWC-18R	GWC-20R	GWC-21R	GWC-22R	GWC-23R	GWA-51R_51RZ ...	GWA-53R (bg)	GWA-52 (bg)
2/29/2016									<0.01
3/1/2016									
3/2/2016								<0.01	
3/3/2016									
3/4/2016									
3/7/2016	<0.01	<0.01			<0.01				
3/8/2016			<0.01	<0.0005					
3/9/2016						<0.01			
5/2/2016									
5/3/2016								<0.01	
5/4/2016							0.00982 (JD)		<0.01
5/5/2016	<0.01	<0.01			<0.01				
5/6/2016						<0.01			
5/9/2016			<0.01	<0.01					
5/10/2016									
7/6/2016									
7/7/2016							0.01 (D)		
7/8/2016									<0.01
7/11/2016								<0.01	
7/12/2016									
7/13/2016	<0.01	<0.01							
7/14/2016			<0.01		<0.01				
7/15/2016				<0.01		<0.01			
7/18/2016									
9/7/2016								<0.01	
9/8/2016							0.0046 (JD)		<0.01
9/9/2016				<0.01					
9/12/2016		<0.01	<0.01		<0.01				
9/13/2016	<0.01								
9/14/2016						<0.01			
9/15/2016									
10/25/2016									
10/26/2016							0.0071 (JD)		<0.01
10/27/2016				<0.01	<0.01			<0.01	
10/31/2016	<0.01		<0.01						
11/1/2016		<0.01				<0.01			
11/2/2016									
1/5/2017									
1/6/2017							0.0099 (JD)	<0.01	<0.01
1/9/2017									
1/11/2017		<0.01							
1/12/2017	<0.01		<0.01	<0.01					
1/13/2017					<0.01				
1/25/2017						<0.01			
2/9/2017									
3/14/2017									
3/15/2017							0.0056 (JD)		<0.01
3/16/2017								<0.01	
3/20/2017		<0.01			<0.01				
3/21/2017				<0.01					
3/22/2017			<0.01			<0.01			
3/23/2017	<0.01								

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 6/19/2018 3:36 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-18	GWC-18R	GWC-20R	GWC-21R	GWC-22R	GWC-23R	GWA-51R_51RZ ...	GWA-53R (bg)	GWA-52 (bg)
5/16/2017									
5/17/2017									<0.01
5/18/2017							0.0064 (JD)		
5/19/2017								<0.01	
5/22/2017		<0.01	<0.01						
5/23/2017	<0.01			<0.01	<0.01				
5/24/2017						<0.01			
7/19/2017							<0.01 (D)		
9/15/2017									<0.01
9/18/2017									
9/19/2017			<0.01	<0.01	<0.01		0.0029 (JD)	<0.01	
9/20/2017									
9/21/2017		<0.01				<0.01			
9/22/2017									
9/25/2017	<0.01								
3/12/2018									
3/13/2018					<0.01		0.005 (D)	<0.01	<0.01
3/14/2018	<0.01	<0.01	<0.01	<0.01		<0.01			

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 6/19/2018 3:36 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-53 (bg)	GWA-54 (bg)	GWA-56 (bg)	GWA-55R (bg)	GWA-55 (bg)
9/15/2014					
9/16/2014					
9/17/2014					
9/18/2014					
10/3/2014					
10/4/2014					
10/5/2014					
10/20/2014					
10/21/2014					
10/22/2014					
10/23/2014					
11/5/2014					
11/10/2014					
11/11/2014					
3/2/2015					
3/3/2015					
3/4/2015					
3/17/2015					
3/18/2015					
3/19/2015					
3/20/2015					
4/5/2015					
4/6/2015					
4/7/2015					
4/8/2015					
4/9/2015					
4/21/2015					
4/22/2015					
4/23/2015					
4/24/2015					
5/8/2015					
5/9/2015	<0.005	<0.005	<0.005	<0.005	<0.005
5/17/2015					
5/18/2015	<0.005	<0.005		<0.005	<0.005
5/19/2015			<0.005		
5/25/2015	<0.005	<0.005			
5/26/2015			<0.005	<0.005	<0.005
6/8/2015	<0.005				
6/9/2015		<0.005	<0.005	<0.005	<0.005
6/17/2015	<0.005	<0.005	<0.005	<0.005	<0.005
6/18/2015					
6/24/2015	<0.005				
6/25/2015		<0.005	<0.005	<0.005	<0.005
6/30/2015	<0.005				
7/1/2015		<0.005	<0.005	<0.005	<0.005
7/6/2015	<0.005				
7/7/2015		<0.005	<0.005	<0.005	<0.005
7/28/2015					
7/29/2015					
7/30/2015					
8/12/2015	<0.005	<0.005			
8/13/2015			<0.005	<0.005	<0.005

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 6/19/2018 3:36 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-53 (bg)	GWA-54 (bg)	GWA-56 (bg)	GWA-55R (bg)	GWA-55 (bg)
2/29/2016					
3/1/2016					
3/2/2016	<0.01	<0.01			0.00234 (J)
3/3/2016			<0.01	<0.01	
3/4/2016					
3/7/2016					
3/8/2016					
3/9/2016					
5/2/2016					
5/3/2016	<0.01			<0.01	0.00241 (J)
5/4/2016		<0.01			
5/5/2016					
5/6/2016					
5/9/2016			<0.01		
5/10/2016					
7/6/2016					
7/7/2016					
7/8/2016	<0.01	<0.01			
7/11/2016			<0.01	0.0011 (J)	<0.01
7/12/2016					
7/13/2016					
7/14/2016					
7/15/2016					
7/18/2016					
9/7/2016					
9/8/2016	<0.01	<0.01			
9/9/2016			<0.01	0.001 (J)	<0.01
9/12/2016					
9/13/2016					
9/14/2016					
9/15/2016					
10/25/2016					
10/26/2016	<0.01	<0.01	<0.01		<0.01
10/27/2016				<0.01	
10/31/2016					
11/1/2016					
11/2/2016					
1/5/2017					
1/6/2017					
1/9/2017	<0.01	<0.01	0.0011 (J)	<0.01	<0.01
1/11/2017					
1/12/2017					
1/13/2017					
1/25/2017					
2/9/2017					
3/14/2017					
3/15/2017		<0.01	<0.01		
3/16/2017	<0.01			<0.01	<0.01
3/20/2017					
3/21/2017					
3/22/2017					
3/23/2017					

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 6/19/2018 3:37 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-53 (bg)	GWA-54 (bg)	GWA-56 (bg)	GWA-55R (bg)	GWA-55 (bg)
5/16/2017					
5/17/2017					
5/18/2017		<0.01	<0.01	<0.01	<0.01
5/19/2017	<0.01				
5/22/2017					
5/23/2017					
5/24/2017					
7/19/2017					
9/15/2017		<0.01	<0.01		<0.01
9/18/2017				<0.01	
9/19/2017	<0.01				
9/20/2017					
9/21/2017					
9/22/2017					
9/25/2017					
3/12/2018				<0.01	0.0018 (J)
3/13/2018	<0.01	<0.01	<0.01		
3/14/2018					

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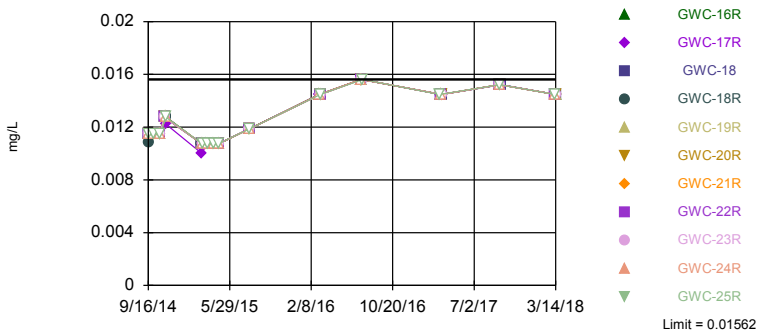
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 167 background values. 99.4% NDs. Report alpha = 0.0618. Individual comparison alpha = 0.005782. Most recent point for each compliance well compared to limit. Data were deseasonalized.

Constituent: Silver Analysis Run 6/19/2018 3:23 PM View: cell_3&4_metals_interwell
Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

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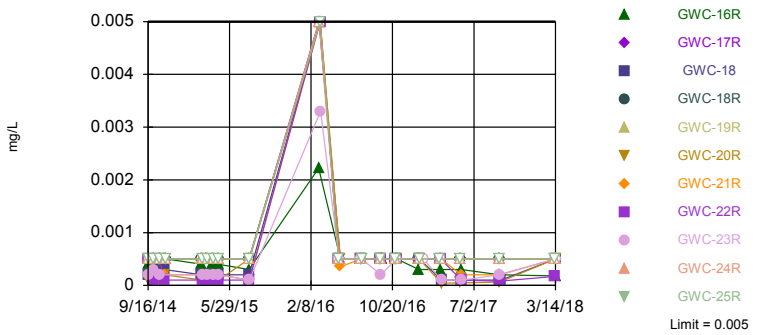
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 226 background values. 82.3% NDs. Report alpha = 0.04641. Individual comparison alpha = 0.004311. Most recent point for each compliance well compared to limit. Seasonality was not detected with 95% confidence.

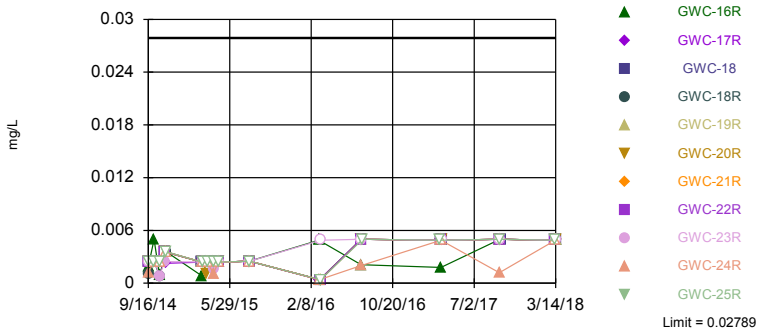
Constituent: Thallium Analysis Run 6/19/2018 3:23 PM View: cell_3&4_metals_interwell
Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Sanitas™ v.9.5.32 Sanitas software licensed to AMEC. EPA
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 167 background values. 78.44% NDs. Report alpha = 0.0618. Individual comparison alpha = 0.005782. Most recent point for each compliance well compared to limit. Data were deseasonalized.

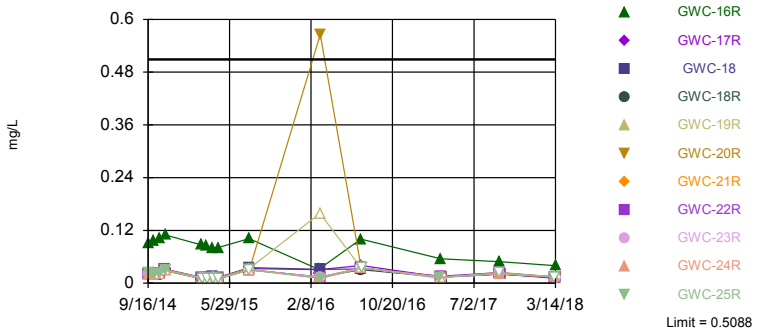
Constituent: Vanadium Analysis Run 6/19/2018 3:24 PM View: cell_3&4_metals_interwell
Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Sanitas™ v.9.5.32 Sanitas software licensed to AMEC. EPA
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.05 alpha level. Limit is highest of 167 background values. 30.54% NDs. Report alpha = 0.0618. Individual comparison alpha = 0.005782. Most recent point for each compliance well compared to limit. Data were deseasonalized.

Constituent: Zinc Analysis Run 6/19/2018 3:24 PM View: cell_3&4_metals_interwell
Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Prediction Limit

Constituent: Silver (mg/L) Analysis Run 6/19/2018 3:37 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-36R (bg)	GWA-36 (bg)	GWC-24R	GWC-25R	GWC-16R	GWA-38 (bg)	GWA-37 (bg)	GWC-17R	GWC-18
9/15/2014	0.011468980..	0.011468980..							
9/16/2014			0.011468980..	0.011468980..	0.011468980..	0.01073 (J)	0.011468980..		
9/17/2014								0.011468980..	0.011468980..
9/18/2014									
10/3/2014	0.011468980..	0.011468980..				0.011468980..	0.011468980..		
10/4/2014			0.011468980..	0.011468980..	0.011468980..			0.011468980..	0.011468980..
10/5/2014									
10/20/2014	0.011468980..	0.011468980..				0.011468980..	0.011468980..		
10/21/2014					0.011468980..			0.011468980..	0.011468980..
10/22/2014									
10/23/2014			0.011468980..	0.011468980..					
11/5/2014									0.012753541..
11/10/2014	0.012753541..	0.012753541..	0.012753541..	0.012753541..		0.012753541..	0.012753541..		
11/11/2014					0.012753541..			0.0122 (J)	
3/2/2015	0.010729999..	0.010729999..				0.010729999..	0.010729999..		
3/3/2015					0.010729999..			0.01 (J)	0.010729999..
3/4/2015			0.010729999..	0.010729999..					
3/17/2015	0.010729999..	0.010729999..				0.010729999..	0.010729999..		
3/18/2015					0.010729999..			0.010729999..	0.010729999..
3/19/2015									
3/20/2015			0.010729999..	0.010729999..					
4/5/2015	0.010729999..	0.010729999..					0.010729999..		
4/6/2015					0.01078 (J)	0.010729999..		0.010729999..	
4/7/2015									0.010729999..
4/8/2015			0.010729999..						
4/9/2015				0.010729999..					
4/21/2015	0.010729999..	0.010729999..							
4/22/2015						0.010729999..	0.010729999..		
4/23/2015			0.010729999..	0.010729999..	0.010729999..			0.010729999..	0.010729999..
4/24/2015									
5/8/2015									
5/9/2015									
5/17/2015									
5/18/2015									
5/19/2015									
5/25/2015									
5/26/2015									
6/8/2015									
6/9/2015									
6/17/2015									
6/18/2015									
6/24/2015									
6/25/2015									
6/30/2015									
7/1/2015									
7/6/2015									
7/7/2015									
7/28/2015	0.011871286..	0.011871286..				0.011871286..	0.011871286..		
7/29/2015					0.011871286..			0.011871286..	0.011871286..
7/30/2015			0.011871286..	0.011871286..					
8/12/2015									
8/13/2015									

Prediction Limit

Constituent: Silver (mg/L) Analysis Run 6/19/2018 3:37 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-36R (bg)	GWA-36 (bg)	GWC-24R	GWC-25R	GWC-16R	GWA-38 (bg)	GWA-37 (bg)	GWC-17R	GWC-18
2/29/2016									
3/1/2016	0.014479999..	0.014479999..					0.014479999..		
3/2/2016						0.014479999..			
3/3/2016					0.014479999.. (D)				
3/4/2016			0.014479999..					0.014479999..	
3/7/2016									0.014479999..
3/8/2016				0.014479999..					
3/9/2016									
7/6/2016	0.015621286..								
7/7/2016		0.015621286..				0.015621286..			
7/8/2016							0.015621286..		
7/11/2016									
7/12/2016			0.015621286..						
7/13/2016					0.015621286..				0.015621286..
7/14/2016								0.015621286..	
7/15/2016									
7/18/2016				0.015621286..					
3/14/2017	0.014479999..						0.014479999..		
3/15/2017		0.014479999..							
3/16/2017				0.014479999..					
3/20/2017			0.014479999..		0.014479999..				
3/21/2017								0.014479999..	
3/22/2017									
3/23/2017						0.014479999..			0.014479999..
9/15/2017	0.015218980..	0.015218980..					0.015218980..		
9/18/2017									
9/19/2017			0.015218980..	0.015218980..		0.015218980..			
9/20/2017									
9/21/2017					0.015218980..				
9/22/2017								0.015218980..	
9/25/2017									0.015218980..
3/12/2018	0.014479999..	0.014479999..					0.014479999..		
3/13/2018			0.014479999..	0.014479999..		0.014479999..			
3/14/2018					0.014479999..			0.014479999..	0.014479999..

Prediction Limit

Constituent: Silver (mg/L) Analysis Run 6/19/2018 3:37 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-19R	GWC-18R	GWC-23R	GWC-21R	GWC-20R	GWC-22R	GWA-51R_51RZ ...	GWA-53R (bg)	GWA-52 (bg)
9/15/2014									
9/16/2014									
9/17/2014	0.011468980..	0.0108 (J)							
9/18/2014			0.011468980..	0.011468980..	0.011468980..	0.011468980..			
10/3/2014									
10/4/2014	0.011468980..	0.011468980..							
10/5/2014			0.011468980..	0.011468980..	0.011468980..	0.011468980..			
10/20/2014									
10/21/2014	0.011468980..	0.011468980..							
10/22/2014			0.011468980..	0.011468980..	0.011468980..	0.011468980..			
10/23/2014									
11/5/2014	0.012753541..		0.012753541..	0.012753541..	0.012753541..	0.012753541..			
11/10/2014									
11/11/2014		0.012753541..							
3/2/2015									
3/3/2015	0.010729999..	0.010729999..							
3/4/2015			0.010729999..	0.010729999..	0.010729999..	0.010729999..			
3/17/2015									
3/18/2015		0.010729999..							
3/19/2015	0.010729999..			0.010729999..	0.010729999..	0.010729999..			
3/20/2015			0.010729999..						
4/5/2015									
4/6/2015									
4/7/2015	0.010729999..	0.010729999..			0.010729999..				
4/8/2015			0.010729999..	0.010729999..		0.010729999..			
4/9/2015									
4/21/2015									
4/22/2015									
4/23/2015		0.010729999..	0.010729999..						
4/24/2015	0.010729999..			0.010729999..	0.010729999..	0.010729999..			
5/8/2015							0.011871286..	0.011871286..	0.011871286..
5/9/2015									
5/17/2015							0.011871286..	0.011871286..	0.011871286..
5/18/2015									
5/19/2015									
5/25/2015							0.011871286..	0.011871286..	0.011871286..
5/26/2015									
6/8/2015							0.011871286..	0.011871286..	0.011871286..
6/9/2015									
6/17/2015									
6/18/2015							0.011871286..	0.011871286..	0.011871286..
6/24/2015							0.011871286..	0.011871286..	0.011871286..
6/25/2015									
6/30/2015							0.011871286..	0.011871286..	0.011871286..
7/1/2015									
7/6/2015							0.011871286..	0.011871286..	0.011871286..
7/7/2015									
7/28/2015									
7/29/2015	0.011871286..	0.011871286..							
7/30/2015			0.011871286..	0.011871286..	0.011871286..	0.011871286..			
8/12/2015							0.012718980..	0.012718980..	0.012718980..
8/13/2015									

Prediction Limit

Constituent: Silver (mg/L) Analysis Run 6/19/2018 3:37 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-19R	GWC-18R	GWC-23R	GWC-21R	GWC-20R	GWC-22R	GWA-51R_51RZ ...	GWA-53R (bg)	GWA-52 (bg)
2/29/2016									0.014479999..
3/1/2016									
3/2/2016								0.014479999..	
3/3/2016									
3/4/2016									
3/7/2016	0.014479999..	0.014479999..				0.014479999..			
3/8/2016				0.014479999..	0.014479999..				
3/9/2016			0.014479999..						
7/6/2016									
7/7/2016							0.015621286.. (D)		
7/8/2016									0.015621286..
7/11/2016								0.015621286..	
7/12/2016									
7/13/2016		0.015621286..							
7/14/2016	0.015621286..				0.015621286..	0.015621286..			
7/15/2016			0.015621286..	0.015621286..					
7/18/2016									
3/14/2017									
3/15/2017							0.014479999.. (D)		0.014479999..
3/16/2017								0.014479999..	
3/20/2017		0.014479999..				0.014479999..			
3/21/2017	0.014479999..			0.014479999..					
3/22/2017			0.014479999..		0.014479999..				
3/23/2017									
9/15/2017									0.015218980..
9/18/2017									
9/19/2017				0.015218980..	0.015218980..	0.015218980..	0.015218980.. (D)	0.015218980..	
9/20/2017	0.015218980..								
9/21/2017		0.015218980..	0.015218980..						
9/22/2017									
9/25/2017									
3/12/2018									
3/13/2018						0.014479999..	0.014479999.. (D)	0.014479999..	0.014479999..
3/14/2018	0.014479999..	0.014479999..	0.014479999..	0.014479999..	0.014479999..				

Prediction Limit

Constituent: Silver (mg/L) Analysis Run 6/19/2018 3:37 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-56 (bg)	GWA-55R (bg)	GWA-55 (bg)	GWA-54 (bg)	GWA-53 (bg)
9/15/2014					
9/16/2014					
9/17/2014					
9/18/2014					
10/3/2014					
10/4/2014					
10/5/2014					
10/20/2014					
10/21/2014					
10/22/2014					
10/23/2014					
11/5/2014					
11/10/2014					
11/11/2014					
3/2/2015					
3/3/2015					
3/4/2015					
3/17/2015					
3/18/2015					
3/19/2015					
3/20/2015					
4/5/2015					
4/6/2015					
4/7/2015					
4/8/2015					
4/9/2015					
4/21/2015					
4/22/2015					
4/23/2015					
4/24/2015					
5/8/2015					
5/9/2015	0.011871286..	0.011871286..	0.011871286..	0.011871286..	0.011871286..
5/17/2015					
5/18/2015		0.011871286..	0.011871286..	0.011871286..	0.011871286..
5/19/2015	0.011871286..				
5/25/2015				0.011871286..	0.011871286..
5/26/2015	0.011871286..	0.011871286..	0.011871286..		
6/8/2015					0.011871286..
6/9/2015	0.011871286..	0.011871286..	0.011871286..	0.011871286..	
6/17/2015	0.011871286..	0.011871286..	0.011871286..	0.011871286..	0.011871286..
6/18/2015					
6/24/2015					0.011871286..
6/25/2015	0.011871286..	0.011871286..	0.011871286..	0.011871286..	
6/30/2015					0.011871286..
7/1/2015	0.011871286..	0.011871286..	0.011871286..	0.011871286..	
7/6/2015					0.011871286..
7/7/2015	0.011871286..	0.011871286..	0.011871286..	0.011871286..	
7/28/2015					
7/29/2015					
7/30/2015					
8/12/2015				0.012718980..	0.012718980..
8/13/2015	0.012718980..	0.012718980..	0.012718980..		

Prediction Limit

Constituent: Silver (mg/L) Analysis Run 6/19/2018 3:37 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-56 (bg)	GWA-55R (bg)	GWA-55 (bg)	GWA-54 (bg)	GWA-53 (bg)
2/29/2016					
3/1/2016					
3/2/2016			0.014479999..	0.014479999..	0.014479999..
3/3/2016	0.014479999..	0.014479999..			
3/4/2016					
3/7/2016					
3/8/2016					
3/9/2016					
7/6/2016					
7/7/2016					
7/8/2016				0.015621286..	0.015621286..
7/11/2016	0.015621286..	0.015621286..	0.015621286..		
7/12/2016					
7/13/2016					
7/14/2016					
7/15/2016					
7/18/2016					
3/14/2017					
3/15/2017	0.014479999..			0.014479999..	
3/16/2017		0.014479999..	0.014479999..		0.014479999..
3/20/2017					
3/21/2017					
3/22/2017					
3/23/2017					
9/15/2017	0.015218980..		0.015218980..	0.015218980..	
9/18/2017		0.015218980..			
9/19/2017					0.015218980..
9/20/2017					
9/21/2017					
9/22/2017					
9/25/2017					
3/12/2018		0.014479999..	0.014479999..		
3/13/2018	0.014479999..			0.014479999..	0.014479999..
3/14/2018					

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 6/19/2018 3:37 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-36 (bg)	GWC-25R	GWC-16R	GWA-37 (bg)	GWA-38 (bg)	GWC-24R	GWC-18R	GWC-17R	GWC-18
9/15/2014	<0.001								
9/16/2014		<0.001	0.0004 (J)	<0.001	<0.001	<0.001			
9/17/2014							<0.001	<0.001	0.0002 (J)
9/18/2014									
10/3/2014	<0.001			<0.001					
10/4/2014		<0.001	0.0004 (J)			<0.001	<0.001	<0.001	0.0002 (J)
10/5/2014									
10/6/2014					<0.001				
10/20/2014	<0.001			<0.001	<0.001				
10/21/2014			0.0004 (J)				<0.001	<0.001	0.0002 (J)
10/22/2014									
10/23/2014		<0.001				<0.001			
11/5/2014									0.0003 (J)
11/10/2014	<0.001	<0.001		<0.001	<0.001	<0.001			
11/11/2014			0.0005 (J)				<0.001	<0.001	
3/2/2015	<0.001			<0.001	<0.001				
3/3/2015			0.0004 (J)				<0.001	<0.001	0.0002 (J)
3/4/2015		<0.001				<0.001			
3/17/2015	<0.001			<0.001	<0.001				
3/18/2015			0.0005 (J)				<0.001	<0.001	0.0002 (J)
3/19/2015									
3/20/2015		<0.001				<0.001			
4/5/2015	<0.001			<0.001					
4/6/2015			0.0004 (J)		<0.001			<0.001	
4/7/2015							<0.001		0.0002 (J)
4/8/2015						<0.001			
4/9/2015		<0.001							
4/21/2015	<0.001								
4/22/2015				<0.001	<0.001				
4/23/2015		<0.001	0.0004 (J)			<0.001	<0.001	<0.001	0.0002 (J)
4/24/2015									
5/13/2015									
5/20/2015									
5/27/2015									
6/8/2015									
6/9/2015									
6/17/2015									
6/18/2015									
6/24/2015									
6/25/2015									
6/30/2015									
7/1/2015									
7/6/2015									
7/7/2015									
7/28/2015	<0.001			<0.001	<0.001				
7/29/2015			0.0003 (J)				<0.001	<0.001	0.0002 (J)
7/30/2015		<0.001				<0.001			
8/12/2015									
8/13/2015									
2/29/2016									
3/1/2016	<0.001			<0.001					
3/2/2016					<0.001				

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 6/19/2018 3:37 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-36 (bg)	GWC-25R	GWC-16R	GWA-37 (bg)	GWA-38 (bg)	GWC-24R	GWC-18R	GWC-17R	GWC-18
3/3/2016			0.002222 (JD)						
3/4/2016						<0.01		<0.01	
3/7/2016							<0.01		<0.01
3/8/2016		<0.01							
3/9/2016									
5/2/2016	<0.001								
5/3/2016				<0.001	<0.001				
5/4/2016		<0.001							
5/5/2016						<0.001	<0.001		<0.001
5/6/2016									
5/9/2016									
5/10/2016			<0.001					<0.001	
7/6/2016									
7/7/2016	9E-05 (J)				<0.001				
7/8/2016				<0.001					
7/11/2016									
7/12/2016						<0.001 (*)			
7/13/2016			<0.001 (*)				<0.001		<0.001 (*)
7/14/2016								<0.001 (*)	
7/15/2016									
7/18/2016		<0.001							
9/7/2016	<0.001			<0.001					
9/8/2016					<0.001				
9/9/2016									
9/12/2016							<0.001		
9/13/2016		<0.001				<0.001			<0.001
9/14/2016								<0.001	
9/15/2016			<0.001						
10/25/2016	<0.001			<0.001	<0.001				
10/26/2016									
10/27/2016		<0.001				<0.001			
10/31/2016									<0.001
11/1/2016							<0.001	<0.001	
11/2/2016			<0.001						
1/5/2017	<0.001								
1/6/2017				<0.001					
1/9/2017									
1/11/2017			0.0003 (J)				<0.001	<0.001	
1/12/2017									<0.001
1/13/2017		<0.001				<0.001			
1/25/2017									
2/9/2017					<0.001				
3/14/2017				<0.001					
3/15/2017	4E-05 (J)								
3/16/2017		<0.001							
3/20/2017			0.0003 (J)			<0.001 (*)	<0.001		
3/21/2017								<0.001	
3/22/2017									
3/23/2017					<0.001				0.0001 (J)
5/16/2017				<0.001					
5/17/2017	<0.001				<0.001				
5/18/2017									

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 6/19/2018 3:37 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-36 (bg)	GWC-25R	GWC-16R	GWA-37 (bg)	GWA-38 (bg)	GWC-24R	GWC-18R	GWC-17R	GWC-18
5/19/2017		<0.001				<0.001			
5/22/2017							<0.001		
5/23/2017			0.0003 (J)					<0.001	0.0001 (J)
5/24/2017									
7/19/2017									
9/15/2017	<0.001			<0.001					
9/18/2017									
9/19/2017		<0.001			<0.001	<0.001			
9/20/2017									
9/21/2017			0.0002 (J)				<0.001		
9/22/2017								<0.001	
9/25/2017									0.0001 (J)
3/12/2018	<0.001			<0.001					
3/13/2018		<0.001			<0.001	<0.001			
3/14/2018			0.00018 (J)				<0.001	<0.001	<0.001

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 6/19/2018 3:37 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-19R	GWC-22R	GWC-20R	GWC-21R	GWC-23R	GWA-36R (bg)	GWA-53 (bg)	GWA-56 (bg)	GWA-53R (bg)
9/15/2014									
9/16/2014									
9/17/2014	<0.001								
9/18/2014		<0.001	0.0001 (J)	0.0002 (J)	0.0002 (J)				
10/3/2014						<0.001			
10/4/2014	<0.001								
10/5/2014		0.0001 (J)	0.0001 (J)	0.0002 (J)	0.0003 (J)				
10/6/2014									
10/20/2014						<0.001			
10/21/2014	<0.001								
10/22/2014		<0.001	0.0001 (J)	0.0002 (J)	0.0002 (J)				
10/23/2014									
11/5/2014	<0.001	0.0001 (J)	0.0002 (J)	0.0002 (J)					
11/10/2014						<0.001			
11/11/2014									
3/2/2015						<0.001			
3/3/2015	<0.001								
3/4/2015		0.0001 (J)	0.0001 (J)	0.0002 (J)	0.0002 (J)				
3/17/2015						0.0001 (J)			
3/18/2015									
3/19/2015	<0.001	0.0001 (J)	0.0001 (J)	0.0002 (J)					
3/20/2015					0.0002 (J)				
4/5/2015						7E-05 (J)			
4/6/2015									
4/7/2015	<0.001		0.0001 (J)						
4/8/2015		0.0001 (J)		0.0002 (J)	0.0002 (J)				
4/9/2015									
4/21/2015						<0.001			
4/22/2015									
4/23/2015					0.0002 (J)				
4/24/2015	<0.001	0.0001 (J)	0.0001 (J)	0.0002 (J)					
5/13/2015							0.0002 (J)	<0.001	<0.001
5/20/2015							0.0002 (J)	<0.001	<0.001
5/27/2015							0.0002 (J)	<0.001	<0.001
6/8/2015							9E-05 (J)		<0.001 (D)
6/9/2015								<0.001	
6/17/2015							7E-05 (J)	<0.001	
6/18/2015									
6/24/2015							<0.001		<0.001
6/25/2015								<0.001	
6/30/2015							9E-05 (J)		<0.001
7/1/2015								<0.001	
7/6/2015							<0.001		<0.001
7/7/2015								<0.001	
7/28/2015						<0.001			
7/29/2015	<0.001								
7/30/2015		0.0001 (J)	<0.001	0.0001 (J)	0.0001 (J)				
8/12/2015							7E-05 (J)		<0.001
8/13/2015								<0.001	
2/29/2016									
3/1/2016						<0.001			
3/2/2016							<0.001		<0.001

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 6/19/2018 3:37 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-19R	GWC-22R	GWC-20R	GWC-21R	GWC-23R	GWA-36R (bg)	GWA-53 (bg)	GWA-56 (bg)	GWA-53R (bg)
3/3/2016								<0.01	
3/4/2016									
3/7/2016	<0.01	<0.01							
3/8/2016			<0.01	<0.01					
3/9/2016					0.0033 (J)				
5/2/2016						<0.001			
5/3/2016							<0.001		<0.001
5/4/2016									
5/5/2016		<0.001							
5/6/2016					<0.001				
5/9/2016	<0.001		<0.001	0.000353 (J)				<0.001	
5/10/2016									
7/6/2016						<0.001			
7/7/2016									
7/8/2016							6E-05 (J)		
7/11/2016								<0.001	<0.001
7/12/2016									
7/13/2016									
7/14/2016	<0.001	<0.001 (*)	<0.001 (*)						
7/15/2016				<0.001 (*)	<0.001 (*)				
7/18/2016									
9/7/2016						<0.001			<0.001
9/8/2016							<0.001		
9/9/2016				<0.001				<0.001	
9/12/2016	<0.001	<0.001	<0.001						
9/13/2016									
9/14/2016					0.0002 (J)				
9/15/2016									
10/25/2016						<0.001			
10/26/2016							<0.001	<0.001	
10/27/2016		<0.001		<0.001					<0.001
10/31/2016	<0.001		<0.001						
11/1/2016					<0.001				
11/2/2016									
1/5/2017						<0.001			
1/6/2017									<0.001
1/9/2017							<0.001	<0.001	
1/11/2017	<0.001								
1/12/2017			<0.001	<0.001					
1/13/2017		<0.001							
1/25/2017					<0.001				
2/9/2017									
3/14/2017						<0.001			
3/15/2017								<0.001	
3/16/2017							4E-05 (J)		<0.001
3/20/2017		<0.001 (*)							
3/21/2017	<0.001			<0.001 (*)					
3/22/2017			4E-05 (J)		0.0001 (J)				
3/23/2017									
5/16/2017						<0.001			
5/17/2017									
5/18/2017								<0.001	

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 6/19/2018 3:37 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-19R	GWC-22R	GWC-20R	GWC-21R	GWC-23R	GWA-36R (bg)	GWA-53 (bg)	GWA-56 (bg)	GWA-53R (bg)
5/19/2017							<0.001		<0.001
5/22/2017	<0.001		5E-05 (J)						
5/23/2017		0.0001 (J)		0.0002 (J)					
5/24/2017					0.0001 (J)				
7/19/2017									
9/15/2017						<0.001		<0.001	
9/18/2017									
9/19/2017		8E-05 (J)	6E-05 (J)	0.0002 (J)			<0.001		<0.001
9/20/2017	<0.001								
9/21/2017					0.0002 (J)				
9/22/2017									
9/25/2017									
3/12/2018						<0.001			
3/13/2018		0.00017 (J)					<0.001	<0.001	<0.001
3/14/2018	<0.001		<0.001	<0.001	<0.001				

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 6/19/2018 3:37 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-51R_51RZ ...	GWA-54 (bg)	GWA-55R (bg)	GWA-52 (bg)	GWA-55 (bg)
9/15/2014					
9/16/2014					
9/17/2014					
9/18/2014					
10/3/2014					
10/4/2014					
10/5/2014					
10/6/2014					
10/20/2014					
10/21/2014					
10/22/2014					
10/23/2014					
11/5/2014					
11/10/2014					
11/11/2014					
3/2/2015					
3/3/2015					
3/4/2015					
3/17/2015					
3/18/2015					
3/19/2015					
3/20/2015					
4/5/2015					
4/6/2015					
4/7/2015					
4/8/2015					
4/9/2015					
4/21/2015					
4/22/2015					
4/23/2015					
4/24/2015					
5/13/2015	0.0003 (J)	0.0002 (J)	<0.001	<0.001	<0.001
5/20/2015	9E-05 (J)	0.0002 (J)	<0.001	6E-05 (J)	<0.001
5/27/2015	<0.001	0.0002 (J)	<0.001	<0.001	<0.001
6/8/2015	<0.001			<0.001	
6/9/2015		0.0001 (J)	<0.001		<0.001
6/17/2015		0.0001 (J)	<0.001		8E-05 (J)
6/18/2015	<0.001			<0.001	
6/24/2015	<0.001		<0.001	<0.001	
6/25/2015		0.0001 (J)			7E-05 (J)
6/30/2015	6E-05 (J)			<0.001	
7/1/2015		0.0001 (J)	<0.001		<0.001
7/6/2015	<0.001			<0.001	
7/7/2015		9E-05 (J)	<0.001		0.0001 (J)
7/28/2015					
7/29/2015					
7/30/2015					
8/12/2015	<0.001	7E-05 (J)		<0.001	
8/13/2015			<0.001		8E-05 (J)
2/29/2016				<0.001	
3/1/2016					
3/2/2016		<0.001			<0.001

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 6/19/2018 3:37 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-51R_51RZ ...	GWA-54 (bg)	GWA-55R (bg)	GWA-52 (bg)	GWA-55 (bg)
3/3/2016			<0.001		
3/4/2016					
3/7/2016					
3/8/2016					
3/9/2016					
5/2/2016					
5/3/2016			<0.001		<0.001
5/4/2016	<0.001 (D)	<0.001		<0.001	
5/5/2016					
5/6/2016					
5/9/2016					
5/10/2016					
7/6/2016					
7/7/2016	<0.001 (D)				
7/8/2016		<0.001		0.0002 (J)	
7/11/2016			<0.001		<0.001 (*)
7/12/2016					
7/13/2016					
7/14/2016					
7/15/2016					
7/18/2016					
9/7/2016					
9/8/2016	<0.001 (D)	<0.001		<0.001	
9/9/2016			<0.001		<0.001
9/12/2016					
9/13/2016					
9/14/2016					
9/15/2016					
10/25/2016					
10/26/2016	<0.001 (D)	<0.001		<0.001	<0.001
10/27/2016			<0.001		
10/31/2016					
11/1/2016					
11/2/2016					
1/5/2017					
1/6/2017	<0.001 (D)			<0.001	
1/9/2017		<0.001	<0.001		<0.001
1/11/2017					
1/12/2017					
1/13/2017					
1/25/2017					
2/9/2017					
3/14/2017					
3/15/2017	4E-05 (JD)	4E-05 (J)		4E-05 (J)	
3/16/2017			5E-05 (J)		0.0001 (J)
3/20/2017					
3/21/2017					
3/22/2017					
3/23/2017					
5/16/2017					
5/17/2017				<0.001	
5/18/2017	6E-05 (JD)	<0.001	<0.001		0.0001 (J)

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 6/19/2018 3:37 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-51R_51RZ ...	GWA-54 (bg)	GWA-55R (bg)	GWA-52 (bg)	GWA-55 (bg)
5/19/2017					
5/22/2017					
5/23/2017					
5/24/2017					
7/19/2017	<0.001 (D)				
9/15/2017		<0.001		<0.001	0.0001 (J)
9/18/2017			<0.001		
9/19/2017	6E-05 (JD)				
9/20/2017					
9/21/2017					
9/22/2017					
9/25/2017					
3/12/2018			<0.001		<0.001
3/13/2018	<0.001 (D)	<0.001		<0.001	
3/14/2018					

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 6/19/2018 3:37 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-36R (bg)	GWA-36 (bg)	GWC-24R	GWC-25R	GWC-16R	GWA-38 (bg)	GWA-37 (bg)	GWC-17R	GWC-18
9/15/2014	0.007287	0.002487405..							
9/16/2014			0.001187 (J)	0.002487405..	0.001887 (J)	0.0008374 (J)	0.002487405..		
9/17/2014								0.002487405..	0.002487405..
9/18/2014									
10/3/2014	0.002487405..	0.002487405..				0.0009474 (J)	0.002487405..		
10/4/2014			0.002487405..	0.002487405..	0.004987			0.002487405..	0.002487405..
10/5/2014									
10/20/2014	0.004487 (J)	0.002487405..				0.002487405..	0.002487405..		
10/21/2014					0.0008774 (J)			0.002487405..	0.002487405..
10/22/2014									
10/23/2014			0.002487405..	0.002487405..					
11/5/2014									0.003568791..
11/10/2014	0.003568791..	0.003568791..	0.003568791..	0.003568791..		0.002019 (J)	0.003568791..		
11/11/2014					0.003568791..			0.002269 (J)	
3/2/2015	0.002390379..	0.002390379..				0.00399 (J)	0.002390379..		
3/3/2015					0.0008204 (J)			0.002390379..	0.002390379..
3/4/2015			0.002390379..	0.002390379..					
3/17/2015	0.002390379..	0.002390379..				0.00169 (J)	0.002390379..		
3/18/2015					0.002390379..			0.002390379..	0.002390379..
3/19/2015									
3/20/2015			0.002390379..	0.002390379..					
4/5/2015	0.00129 (J)	0.002390379..					0.002390379..		
4/6/2015					0.002390379..	0.002390379..		0.002390379..	
4/7/2015									0.002390379..
4/8/2015			0.00109 (J)						
4/9/2015				0.002390379..					
4/21/2015	0.00279 (J)	0.002390379..							
4/22/2015						0.002390379..	0.002390379..		
4/23/2015			0.002390379..	0.002390379..	0.002390379..			0.002390379..	0.002390379..
4/24/2015									
5/8/2015									
5/9/2015									
5/17/2015									
5/18/2015									
5/19/2015									
5/25/2015									
5/26/2015									
6/8/2015									
6/9/2015									
6/17/2015									
6/18/2015									
6/24/2015									
6/25/2015									
6/30/2015									
7/1/2015									
7/6/2015									
7/7/2015									
7/28/2015	0.00309 (J)	0.002489771..				0.002489771..	0.002489771..		
7/29/2015					0.002489771..			0.002489771..	0.002489771..
7/30/2015			0.002489771..	0.002489771..					
8/12/2015									
2/29/2016									

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 6/19/2018 3:37 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-36R (bg)	GWA-36 (bg)	GWC-24R	GWC-25R	GWC-16R	GWA-38 (bg)	GWA-37 (bg)	GWC-17R	GWC-18
3/1/2016	0.004890379..	0.004890379..					0.004890379..		
3/2/2016						0.004890379..			
3/3/2016					0.004890379.. (D)				
3/4/2016			0.000390379..					0.000390379..	
3/7/2016									0.000390379..
3/8/2016				0.000390379..					
3/9/2016									
7/6/2016	0.004989771..								
7/7/2016		0.004989771..				0.004989771..			
7/8/2016							0.00279 (J)		
7/11/2016									
7/12/2016			0.00199 (J)						
7/13/2016					0.00209 (J)				0.004989771..
7/14/2016								0.004989771..	
7/15/2016									
7/18/2016				0.004989771..					
3/14/2017	0.004890379..						0.004890379..		
3/15/2017		0.004890379..							
3/16/2017				0.004890379..					
3/20/2017			0.004890379..		0.00179 (J)				
3/21/2017								0.004890379..	
3/22/2017									
3/23/2017						0.004890379..			0.004890379..
9/15/2017	0.004987405..	0.004987405..					0.004987405..		
9/18/2017									
9/19/2017			0.001187 (J)	0.004987405..		0.004987405..			
9/20/2017									
9/21/2017					0.004987405..				
9/22/2017								0.004987405..	
9/25/2017									0.004987405..
3/12/2018	0.004890379..	0.004890379..					0.004890379..		
3/13/2018			0.004890379..	0.004890379..		0.004890379..			
3/14/2018					0.004890379..			0.004890379..	0.004890379..

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 6/19/2018 3:37 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-19R	GWC-18R	GWC-23R	GWC-21R	GWC-20R	GWC-22R	GWA-51R_51RZ ...	GWA-53R (bg)	GWA-52 (bg)
9/15/2014									
9/16/2014									
9/17/2014	0.002487405..	0.0009874 (J)							
9/18/2014			0.002487405..	0.002487405..	0.002487405..	0.002487405..			
10/3/2014									
10/4/2014	0.002487405..	0.002487405..							
10/5/2014			0.002487405..	0.002487405..	0.002487405..	0.002487405..			
10/20/2014									
10/21/2014	0.002487405..	0.0008274 (J)							
10/22/2014			0.0008174 (J)	0.002487405..	0.002487405..	0.002487405..			
10/23/2014									
11/5/2014	0.003568791..		0.002469 (J)	0.003568791..	0.003568791..	0.003568791..			
11/10/2014									
11/11/2014		0.003568791..							
3/2/2015									
3/3/2015	0.002390379..	0.002390379..							
3/4/2015			0.002390379..	0.002390379..	0.002390379..	0.002390379..			
3/17/2015									
3/18/2015		0.002390379..							
3/19/2015	0.002390379..			0.002390379..	0.00109 (J)	0.002390379..			
3/20/2015			0.002390379..						
4/5/2015									
4/6/2015									
4/7/2015	0.002390379..	0.002390379..			0.002390379..				
4/8/2015			0.00159 (J)	0.002390379..		0.002390379..			
4/9/2015									
4/21/2015									
4/22/2015									
4/23/2015		0.002390379..	0.002390379..						
4/24/2015	0.002390379..			0.002390379..	0.002390379..	0.002390379..			
5/8/2015							0.002489771..	0.002489771..	0.002489771..
5/9/2015									
5/17/2015							0.00439 (J)	0.002489771..	0.002489771..
5/18/2015									
5/19/2015									
5/25/2015							0.00249 (J)	0.002489771..	0.002489771..
5/26/2015									
6/8/2015							0.00419 (J)	0.002489771..	0.00119 (J)
6/9/2015									
6/17/2015									
6/18/2015							0.00559	0.002489771..	0.002489771..
6/24/2015							0.01599	0.002489771..	0.002489771..
6/25/2015									
6/30/2015							0.01299	0.002489771..	0.002489771..
7/1/2015									
7/6/2015							0.01199	0.002489771..	0.00109 (J)
7/7/2015									
7/28/2015									
7/29/2015	0.002489771..	0.002489771..							
7/30/2015			0.002489771..	0.002489771..	0.002489771..	0.002489771..			
8/12/2015							0.02789 (J)	0.0001594 (J)	0.0005064 (J)
2/29/2016									0.004890379..

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 6/19/2018 3:37 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-19R	GWC-18R	GWC-23R	GWC-21R	GWC-20R	GWC-22R	GWA-51R_51RZ ...	GWA-53R (bg)	GWA-52 (bg)
3/1/2016									
3/2/2016								0.004890379..	
3/3/2016									
3/4/2016									
3/7/2016	0.000390379..	0.000390379..				0.000390379..			
3/8/2016				0.000390379..	0.000390379..				
3/9/2016			0.004890379..						
7/6/2016									
7/7/2016							0.004989771.. (D)		
7/8/2016									0.004989771..
7/11/2016								0.004989771..	
7/12/2016									
7/13/2016		0.004989771..							
7/14/2016	0.004989771..				0.004989771..	0.004989771..			
7/15/2016			0.004989771..	0.004989771..					
7/18/2016									
3/14/2017									
3/15/2017							0.004890379.. (D)		0.004890379..
3/16/2017								0.004890379..	
3/20/2017		0.004890379..				0.004890379..			
3/21/2017	0.004890379..			0.004890379..					
3/22/2017			0.004890379..		0.004890379..				
3/23/2017									
9/15/2017									0.004987405..
9/18/2017									
9/19/2017				0.004987405..	0.004987405..	0.004987405..	0.004987405.. (D)	0.004987405..	
9/20/2017	0.004987405..								
9/21/2017		0.004987405..	0.004987405..						
9/22/2017									
9/25/2017									
3/12/2018									
3/13/2018						0.004890379..	0.004890379.. (D)	0.004890379..	0.004890379..
3/14/2018	0.004890379..	0.004890379..	0.004890379..	0.004890379..	0.004890379..				

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 6/19/2018 3:37 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-56 (bg)	GWA-55R (bg)	GWA-55 (bg)	GWA-54 (bg)	GWA-53 (bg)
9/15/2014					
9/16/2014					
9/17/2014					
9/18/2014					
10/3/2014					
10/4/2014					
10/5/2014					
10/20/2014					
10/21/2014					
10/22/2014					
10/23/2014					
11/5/2014					
11/10/2014					
11/11/2014					
3/2/2015					
3/3/2015					
3/4/2015					
3/17/2015					
3/18/2015					
3/19/2015					
3/20/2015					
4/5/2015					
4/6/2015					
4/7/2015					
4/8/2015					
4/9/2015					
4/21/2015					
4/22/2015					
4/23/2015					
4/24/2015					
5/8/2015					
5/9/2015	0.002489771..	0.002489771..	0.002489771..	0.00179 (J)	0.002489771..
5/17/2015					
5/18/2015		0.00169 (J)	0.00139 (J)	0.00139 (J)	0.002489771..
5/19/2015	0.00149 (J)				
5/25/2015				0.002489771..	0.002489771..
5/26/2015	0.002489771..	0.002489771..	0.002489771..		
6/8/2015					0.002489771..
6/9/2015	0.002489771..	0.00329 (J)	0.002489771..	0.002489771..	
6/17/2015	0.002489771..	0.002489771..	0.002489771..	0.00149 (J)	0.002489771..
6/18/2015					
6/24/2015					0.002489771..
6/25/2015	0.002489771..	0.002489771..	0.002489771..	0.002489771..	
6/30/2015					0.002489771..
7/1/2015	0.002489771..	0.00309 (J)	0.002489771..	0.002489771..	
7/6/2015					0.002489771..
7/7/2015	0.002489771..	0.002489771..	0.002489771..	0.002489771..	
7/28/2015					
7/29/2015					
7/30/2015					
8/12/2015	0.0004844 (J)	0.0001744 (J)	0.0002334 (J)	0.0006434 (J)	0.0005124 (J)
2/29/2016					

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 6/19/2018 3:37 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-56 (bg)	GWA-55R (bg)	GWA-55 (bg)	GWA-54 (bg)	GWA-53 (bg)
3/1/2016					
3/2/2016			0.004890379..	0.004890379..	0.004890379..
3/3/2016	0.000390379..	0.004890379..			
3/4/2016					
3/7/2016					
3/8/2016					
3/9/2016					
7/6/2016					
7/7/2016					
7/8/2016				0.004989771..	0.004989771..
7/11/2016	0.004989771..	0.004989771..	0.004989771..		
7/12/2016					
7/13/2016					
7/14/2016					
7/15/2016					
7/18/2016					
3/14/2017					
3/15/2017	0.004890379..			0.004890379..	
3/16/2017		0.004890379..	0.004890379..		0.004890379..
3/20/2017					
3/21/2017					
3/22/2017					
3/23/2017					
9/15/2017	0.004987405..		0.004987405..	0.004987405..	
9/18/2017		0.004987405..			
9/19/2017					0.004987405..
9/20/2017					
9/21/2017					
9/22/2017					
9/25/2017					
3/12/2018		0.004890379..	0.004890379..		
3/13/2018	0.004890379..			0.004890379..	0.004890379..
3/14/2018					

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 6/19/2018 3:37 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-36R (bg)	GWA-36 (bg)	GWC-24R	GWC-25R	GWA-38 (bg)	GWC-16R	GWA-37 (bg)	GWC-19R	GWC-18
9/15/2014	0.4587	0.1687							
9/16/2014			0.01923 (J)	0.02269	0.02409	0.09069	0.02489		
9/17/2014								0.02129	0.02219
9/18/2014									
10/3/2014	0.03969	0.05869			0.02569		0.02719		
10/4/2014			0.01949 (J)	0.01979 (J)		0.09669		0.02209	0.02189
10/5/2014									
10/20/2014	0.2087	0.06069			0.02389		0.02739		
10/21/2014						0.1017		0.02239	0.02149
10/22/2014									
10/23/2014			0.019936161..	0.01979 (J)					
11/5/2014								0.03084	0.03134
11/10/2014	0.02874 (J)	0.1273	0.028588161..	0.03014	0.03274		0.03734		
11/11/2014						0.1093			
3/2/2015	0.04075	0.08175			0.04975		0.01645		
3/3/2015						0.08675		0.01235	0.01275
3/4/2015			0.01	0.01					
3/17/2015	0.04275	0.2088			0.02275		0.01735		
3/18/2015						0.08375			0.01115 (J)
3/19/2015								0.01225	
3/20/2015			0.01	0.01					
4/5/2015	0.09775	0.2988					0.01855		
4/6/2015					0.01315	0.07975			
4/7/2015								0.01265	0.01425
4/8/2015			0.01035 (J)						
4/9/2015				0.01					
4/21/2015	0.1688	0.4688							
4/22/2015					0.01105 (J)		0.01365		
4/23/2015			0.01	0.01		0.08075			0.01225
4/24/2015								0.01215	
5/8/2015									
5/9/2015									
5/17/2015									
5/18/2015									
5/19/2015									
5/25/2015									
5/26/2015									
6/8/2015									
6/9/2015									
6/17/2015									
6/18/2015									
6/24/2015									
6/25/2015									
6/30/2015									
7/1/2015									
7/6/2015									
7/7/2015									
7/28/2015	0.1792	0.2892			0.0327		0.0391		
7/29/2015						0.1012		0.033	0.0354
7/30/2015			0.030446279..	0.030446279..					
8/12/2015									
8/13/2015									

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 6/19/2018 3:37 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-36R (bg)	GWA-36 (bg)	GWC-24R	GWC-25R	GWA-38 (bg)	GWC-16R	GWA-37 (bg)	GWC-19R	GWC-18
2/29/2016									
3/1/2016	0.07145	0.3868					0.01631 (J)		
3/2/2016					0.01165 (J)				
3/3/2016						0.03145 (D)			
3/4/2016			0.01249 (J)						
3/7/2016								0.158750005..	0.03125 (J)
3/8/2016				0.01073 (J)					
3/9/2016									
7/6/2016	0.0824								
7/7/2016		0.2922			0.0315 (J)				
7/8/2016							0.039 (J)		
7/11/2016									
7/12/2016			0.034196279..						
7/13/2016						0.1001			0.0323 (J)
7/14/2016								0.034196279..	
7/15/2016									
7/18/2016				0.034196279.. (*)					
3/14/2017	0.04885						0.01295 (J)		
3/15/2017		0.3908							
3/16/2017				0.01135 (J)					
3/20/2017			0.013749999..			0.05525			
3/21/2017								0.013749999.. (*)	
3/22/2017									
3/23/2017					0.013749999.. (*)				0.013749999.. (*)
9/15/2017	0.05249	0.4247					0.02189 (J)		
9/18/2017									
9/19/2017			0.02149 (J)	0.023686161..	0.02069 (J)				
9/20/2017								0.02489 (J)	
9/21/2017						0.04889			
9/22/2017									
9/25/2017									0.02069 (J)
3/12/2018	0.05075	0.5088					0.01125 (J)		
3/13/2018			0.01555 (J)	0.013749999..	0.013749999..				
3/14/2018						0.03975		0.013749999..	0.01235 (J)

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 6/19/2018 3:37 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-18R	GWC-22R	GWC-20R	GWC-23R	GWC-21R	GWC-17R	GWA-51R_51RZ ...	GWA-52 (bg)	GWA-53R (bg)
9/15/2014									
9/16/2014									
9/17/2014	0.02069 (J)								
9/18/2014		0.01958 (J)	0.02099 (J)	0.01999 (J)	0.02199				
10/3/2014									
10/4/2014	0.01969 (J)					0.02249			
10/5/2014		0.02029 (J)	0.02119	0.01954 (J)	0.02229				
10/20/2014									
10/21/2014	0.01951 (J)					0.02299			
10/22/2014		0.02039 (J)	0.02049 (J)	0.02009 (J)	0.02249				
10/23/2014									
11/5/2014		0.03114	0.02924 (J)	0.02954 (J)	0.03194				
11/10/2014									
11/11/2014	0.0281 (J)					0.03144			
3/2/2015									
3/3/2015	0.01					0.01295			
3/4/2015		0.01075 (J)	0.01035 (J)	0.01205	0.01165				
3/17/2015									
3/18/2015	0.01035 (J)					0.01335			
3/19/2015		0.01125	0.01125		0.01145				
3/20/2015				0.01075 (J)					
4/5/2015									
4/6/2015						0.01305			
4/7/2015	0.01		0.01135						
4/8/2015		0.01055 (J)		0.01275	0.01265				
4/9/2015									
4/21/2015									
4/22/2015									
4/23/2015	0.01			0.01075 (J)		0.01345			
4/24/2015		0.01035 (J)	0.01045 (J)		0.01225				
5/8/2015							0.0442	0.030446279..	0.0314 (J)
5/9/2015									
5/17/2015							0.1492	0.0309 (J)	0.030446279..
5/18/2015									
5/19/2015									
5/25/2015							0.0522	0.0322	0.0314 (J)
5/26/2015									
6/8/2015							0.0452	0.0317	0.0307 (J)
6/9/2015									
6/17/2015									
6/18/2015							0.0452	0.0311 (J)	0.0318
6/24/2015							0.0512	0.032	0.0307 (J)
6/25/2015									
6/30/2015							0.0462	0.030446279..	0.0307 (J)
7/1/2015									
7/6/2015							0.0392	0.030446279..	0.030446279..
7/7/2015									
7/28/2015									
7/29/2015	0.030446279..					0.0331			
7/30/2015		0.030446279..	0.0309 (J)	0.030446279..	0.0319				
8/12/2015							0.02339 (BJ)	0.02199 (BJ)	0.02179 (BJ)
8/13/2015									

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 6/19/2018 3:37 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-18R	GWC-22R	GWC-20R	GWC-23R	GWC-21R	GWC-17R	GWA-51R_51RZ ...	GWA-52 (bg)	GWA-53R (bg)
2/29/2016								0.013749999..	
3/1/2016									
3/2/2016									0.01155 (J)
3/3/2016									
3/4/2016						0.03065 (J)			
3/7/2016	0.013749999..	0.013749999..							
3/8/2016			0.5658 (J)		0.01148 (J)				
3/9/2016				0.013749999..					
7/6/2016									
7/7/2016							0.0365 (JD)		
7/8/2016								0.034196279..	
7/11/2016									0.034196279..
7/12/2016									
7/13/2016	0.0305 (J)								
7/14/2016		0.034196279..	0.034196279.. (*)			0.0403			
7/15/2016				0.034196279.. (*)	0.034196279.. (*)				
7/18/2016									
3/14/2017									
3/15/2017							0.013749999.. (D)	0.01005 (J)	
3/16/2017									0.01055 (J)
3/20/2017	0.013749999..	0.01625 (J)							
3/21/2017					0.013749999.. (*)	0.013749999.. (*)			
3/22/2017			0.013749999..	0.013749999.. (*)					
3/23/2017									
9/15/2017								0.023686161..	
9/18/2017									
9/19/2017		0.023686161..	0.02179 (J)		0.02089 (J)		0.023686161.. (D)		0.023686161..
9/20/2017									
9/21/2017	0.02049 (J)			0.02209 (J)					
9/22/2017						0.02099 (J)			
9/25/2017									
3/12/2018									
3/13/2018		0.013749999..					0.013749999.. (D)	0.013749999..	0.013749999..
3/14/2018	0.013749999..		0.013749999..	0.013749999..	0.01365 (J)	0.01085 (J)			

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 6/19/2018 3:38 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-55R (bg)	GWA-53 (bg)	GWA-55 (bg)	GWA-54 (bg)	GWA-56 (bg)
9/15/2014					
9/16/2014					
9/17/2014					
9/18/2014					
10/3/2014					
10/4/2014					
10/5/2014					
10/20/2014					
10/21/2014					
10/22/2014					
10/23/2014					
11/5/2014					
11/10/2014					
11/11/2014					
3/2/2015					
3/3/2015					
3/4/2015					
3/17/2015					
3/18/2015					
3/19/2015					
3/20/2015					
4/5/2015					
4/6/2015					
4/7/2015					
4/8/2015					
4/9/2015					
4/21/2015					
4/22/2015					
4/23/2015					
4/24/2015					
5/8/2015					
5/9/2015	0.030446279..	0.0315 (J)	0.030446279..	0.030446279..	0.030446279..
5/17/2015					
5/18/2015	0.0325	0.0326	0.0308 (J)	0.0311 (J)	
5/19/2015					0.0337
5/25/2015		0.030446279..		0.0314 (J)	
5/26/2015	0.0314 (J)		0.030446279..		0.033
6/8/2015		0.0307 (J)			
6/9/2015	0.0374		0.0318	0.0307 (J)	0.0329
6/17/2015	0.030446279..	0.030446279..	0.0309 (J)	0.0327	0.031 (J)
6/18/2015					
6/24/2015		0.030446279..			
6/25/2015	0.030446279..		0.030446279..	0.030446279..	0.030446279..
6/30/2015		0.030446279..			
7/1/2015	0.0356		0.030446279..	0.030446279..	0.030446279..
7/6/2015		0.030446279..			
7/7/2015	0.030446279..		0.030446279..	0.030446279..	0.030446279..
7/28/2015					
7/29/2015					
7/30/2015					
8/12/2015		0.02269 (BJ)		0.02019 (BJ)	
8/13/2015	0.02149 (BJ)		0.02069 (BJ)		0.02039 (BJ)

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 6/19/2018 3:38 PM View: cell_3&4_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-55R (bg)	GWA-53 (bg)	GWA-55 (bg)	GWA-54 (bg)	GWA-56 (bg)
2/29/2016					
3/1/2016					
3/2/2016		0.01225 (J)	0.013749999..	0.013749999..	
3/3/2016	0.013749999..				0.013749999..
3/4/2016					
3/7/2016					
3/8/2016					
3/9/2016					
7/6/2016					
7/7/2016					
7/8/2016		0.034196279..		0.0321 (J)	
7/11/2016	0.034196279..		0.034196279..		0.031 (J)
7/12/2016					
7/13/2016					
7/14/2016					
7/15/2016					
7/18/2016					
3/14/2017					
3/15/2017				0.01115 (J)	0.01215 (J)
3/16/2017	0.01415 (J)	0.01165 (J)	0.01025 (J)		
3/20/2017					
3/21/2017					
3/22/2017					
3/23/2017					
9/15/2017			0.023686161..	0.02029 (J)	0.023686161..
9/18/2017	0.023686161..				
9/19/2017		0.02049 (J)			
9/20/2017					
9/21/2017					
9/22/2017					
9/25/2017					
3/12/2018	0.013749999..		0.013749999..		
3/13/2018		0.01085 (J)		0.01105 (J)	0.01165 (J)
3/14/2018					

Interwell Prediction Limit

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR Printed 7/16/2018, 10:28 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Calcium (mg/L)	**GWC-16R**	**48.7**	**n/a**	**3/14/2018**	**60.6**	**Yes**	**110**	**0**	**n/a**	**0.000...**	NP (normality) 1 of 2
Calcium (mg/L)	**GWC-17R**	**48.7**	**n/a**	**3/14/2018**	**65.6**	**Yes**	**110**	**0**	**n/a**	**0.000...**	NP (normality) 1 of 2
Calcium (mg/L)	**GWC-21R**	**48.7**	**n/a**	**3/14/2018**	**65.6**	**Yes**	**110**	**0**	**n/a**	**0.000...**	NP (normality) 1 of 2
Calcium (mg/L)	**GWC-23R**	**48.7**	**n/a**	**3/14/2018**	**59.9**	**Yes**	**110**	**0**	**n/a**	**0.000...**	NP (normality) 1 of 2

Interwell Prediction Limit

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR Printed 7/16/2018, 10:28 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Boron (mg/L)	GWC-16R	0.05	n/a	3/14/2018	0.0065	No	110	61.82	n/a	0.000...	NP (NDs) 1 of 2
Boron (mg/L)	GWC-17R	0.05	n/a	3/14/2018	0.0051	No	110	61.82	n/a	0.000...	NP (NDs) 1 of 2
Boron (mg/L)	GWC-18	0.05	n/a	3/14/2018	0.02ND	No	110	61.82	n/a	0.000...	NP (NDs) 1 of 2
Boron (mg/L)	GWC-18R	0.05	n/a	3/14/2018	0.02ND	No	110	61.82	n/a	0.000...	NP (NDs) 1 of 2
Boron (mg/L)	GWC-19R	0.05	n/a	3/14/2018	0.0076	No	110	61.82	n/a	0.000...	NP (NDs) 1 of 2
Boron (mg/L)	GWC-20R	0.05	n/a	3/14/2018	0.02ND	No	110	61.82	n/a	0.000...	NP (NDs) 1 of 2
Boron (mg/L)	GWC-21R	0.05	n/a	3/14/2018	0.0053	No	110	61.82	n/a	0.000...	NP (NDs) 1 of 2
Boron (mg/L)	GWC-22R	0.05	n/a	3/13/2018	0.02ND	No	110	61.82	n/a	0.000...	NP (NDs) 1 of 2
Boron (mg/L)	GWC-23R	0.05	n/a	3/14/2018	0.0056	No	110	61.82	n/a	0.000...	NP (NDs) 1 of 2
Boron (mg/L)	GWC-24R	0.05	n/a	3/13/2018	0.0042	No	110	61.82	n/a	0.000...	NP (NDs) 1 of 2
Boron (mg/L)	GWC-25R	0.05	n/a	3/13/2018	0.02ND	No	110	61.82	n/a	0.000...	NP (NDs) 1 of 2
Calcium (mg/L)	**GWC-16R**	**48.7**	**n/a**	**3/14/2018**	**60.6**	**Yes**	**110**	**0**	**n/a**	**0.000...**	NP (normality) 1 of 2
Calcium (mg/L)	**GWC-17R**	**48.7**	**n/a**	**3/14/2018**	**65.6**	**Yes**	**110**	**0**	**n/a**	**0.000...**	NP (normality) 1 of 2
Calcium (mg/L)	GWC-18	48.7	n/a	3/14/2018	23.4	No	110	0	n/a	0.000...	NP (normality) 1 of 2
Calcium (mg/L)	GWC-18R	48.7	n/a	3/14/2018	27.6	No	110	0	n/a	0.000...	NP (normality) 1 of 2
Calcium (mg/L)	GWC-19R	48.7	n/a	3/14/2018	30.7	No	110	0	n/a	0.000...	NP (normality) 1 of 2
Calcium (mg/L)	GWC-20R	48.7	n/a	3/14/2018	35.9	No	110	0	n/a	0.000...	NP (normality) 1 of 2
Calcium (mg/L)	**GWC-21R**	**48.7**	**n/a**	**3/14/2018**	**65.6**	**Yes**	**110**	**0**	**n/a**	**0.000...**	NP (normality) 1 of 2
Calcium (mg/L)	GWC-22R	48.7	n/a	3/13/2018	32.1	No	110	0	n/a	0.000...	NP (normality) 1 of 2
Calcium (mg/L)	**GWC-23R**	**48.7**	**n/a**	**3/14/2018**	**59.9**	**Yes**	**110**	**0**	**n/a**	**0.000...**	NP (normality) 1 of 2
Calcium (mg/L)	GWC-24R	48.7	n/a	3/13/2018	30.8	No	110	0	n/a	0.000...	NP (normality) 1 of 2
Calcium (mg/L)	GWC-25R	48.7	n/a	3/13/2018	33.3	No	110	0	n/a	0.000...	NP (normality) 1 of 2
Fluoride (mg/L)	GWC-16R	0.4	n/a	3/14/2018	0.17	No	110	35.45	n/a	0.000...	NP (normality) 1 of 2
Fluoride (mg/L)	GWC-17R	0.4	n/a	3/14/2018	0.15ND	No	110	35.45	n/a	0.000...	NP (normality) 1 of 2
Fluoride (mg/L)	GWC-18	0.4	n/a	3/14/2018	0.12	No	110	35.45	n/a	0.000...	NP (normality) 1 of 2
Fluoride (mg/L)	GWC-18R	0.4	n/a	3/14/2018	0.12	No	110	35.45	n/a	0.000...	NP (normality) 1 of 2
Fluoride (mg/L)	GWC-19R	0.4	n/a	3/14/2018	0.045	No	110	35.45	n/a	0.000...	NP (normality) 1 of 2
Fluoride (mg/L)	GWC-20R	0.4	n/a	3/14/2018	0.035	No	110	35.45	n/a	0.000...	NP (normality) 1 of 2
Fluoride (mg/L)	GWC-21R	0.4	n/a	3/14/2018	0.15ND	No	110	35.45	n/a	0.000...	NP (normality) 1 of 2
Fluoride (mg/L)	GWC-22R	0.4	n/a	3/13/2018	0.046	No	110	35.45	n/a	0.000...	NP (normality) 1 of 2
Fluoride (mg/L)	GWC-23R	0.4	n/a	3/14/2018	0.18	No	110	35.45	n/a	0.000...	NP (normality) 1 of 2
Fluoride (mg/L)	GWC-24R	0.4	n/a	3/13/2018	0.091	No	110	35.45	n/a	0.000...	NP (normality) 1 of 2
Fluoride (mg/L)	GWC-25R	0.4	n/a	3/13/2018	0.15ND	No	110	35.45	n/a	0.000...	NP (normality) 1 of 2

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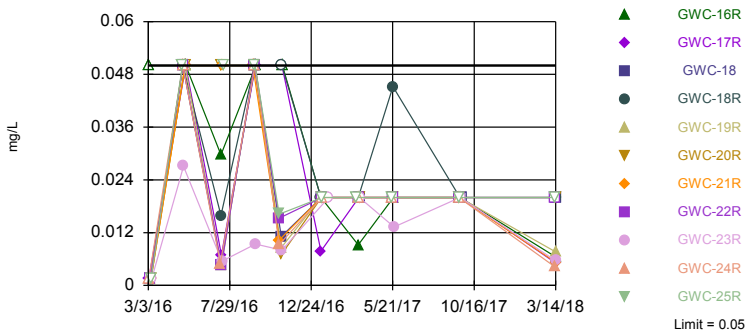
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 110 background values. 61.82% NDs. Annual per-constituent alpha = 0.003589. Individual comparison alpha = 0.0001634 (1 of 2). Comparing 11 points to limit. Seasonality was not detected with 95% confidence.

Constituent: Boron Analysis Run 7/16/2018 10:25 AM View: Cells3&4_AppIII_interwell
Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

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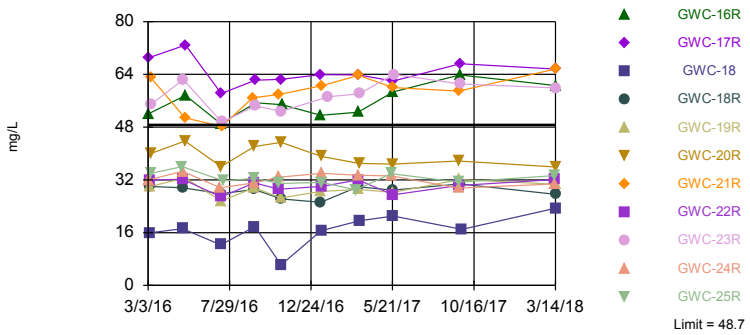
Exceeds Limit: GWC-16R, GWC-17R, GWC-21R, GWC-23R

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 110 background values. Annual per-constituent alpha = 0.003589. Individual comparison alpha = 0.0001634 (1 of 2). Comparing 11 points to limit. Seasonality was not detected with 95% confidence.

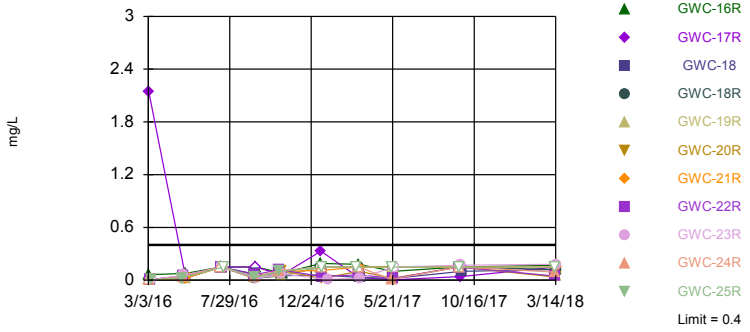
Constituent: Calcium Analysis Run 7/16/2018 10:26 AM View: Cells3&4_AppIII_interwell
Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Sanitas™ v.9.5.32 Sanitas software licensed to AMEC. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 110 background values. 35.45% NDs. Annual per-constituent alpha = 0.003589. Individual comparison alpha = 0.0001634 (1 of 2). Comparing 11 points to limit. Seasonality was not detected with 95% confidence.

Constituent: Fluoride Analysis Run 7/16/2018 10:26 AM View: Cells3&4_AppIII_interwell
Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 7/16/2018 10:28 AM View: Cells3&4_AppIII_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-52 (bg)	GWA-36R (bg)	GWA-37 (bg)	GWA-36 (bg)	GWA-55 (bg)	GWA-53R (bg)	GWA-54 (bg)	GWA-53 (bg)	GWA-55R (bg)
2/29/2016	<0.1								
3/1/2016		<0.1	<0.1	<0.1					
3/2/2016					<0.1	<0.1	<0.1	<0.1	
3/3/2016									<0.1
3/4/2016									
3/7/2016									
3/8/2016									
3/9/2016									
5/2/2016		<0.1		<0.1					
5/3/2016			<0.1		<0.1	<0.1		<0.1	<0.1
5/4/2016	<0.1						<0.1		
5/5/2016									
5/6/2016									
5/9/2016									
5/10/2016									
7/6/2016		0.0059 (J)							
7/7/2016				0.0081 (J)					
7/8/2016	0.009 (J)		0.0067 (J)				0.0046 (J)	<0.1	
7/11/2016					0.0054 (J)	<0.1			0.0047 (J)
7/12/2016									
7/13/2016									
7/14/2016									
7/15/2016									
7/18/2016									
9/7/2016		<0.1	0.0084 (J)	<0.1		<0.1			
9/8/2016	<0.1						0.0081 (J)	<0.1	
9/9/2016					<0.1				<0.1
9/12/2016									
9/13/2016									
9/14/2016									
9/15/2016									
10/25/2016		0.0077 (J)	0.0089 (J)	0.0071 (J)					
10/26/2016	0.0077 (J)				0.0144 (J)		0.0088 (J)	0.0095 (J)	
10/27/2016						0.0148 (J)			0.0108 (J)
10/31/2016									
11/1/2016									
11/2/2016									
1/5/2017		0.0074 (J)		<0.04					
1/6/2017	0.0084 (J)		<0.04			<0.04			
1/9/2017					<0.04		<0.04	<0.04	<0.04
1/11/2017									
1/12/2017									
1/13/2017									
1/25/2017									
3/14/2017		0.0062 (J)	<0.04						
3/15/2017	<0.04			<0.04			<0.04		
3/16/2017					<0.04	<0.04		<0.04	<0.04
3/20/2017									
3/21/2017									
3/22/2017									
3/23/2017									
5/16/2017		<0.04	<0.04						

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 7/16/2018 10:28 AM View: Cells3&4_AppIII_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-52 (bg)	GWA-36R (bg)	GWA-37 (bg)	GWA-36 (bg)	GWA-55 (bg)	GWA-53R (bg)	GWA-54 (bg)	GWA-53 (bg)	GWA-55R (bg)
5/17/2017	<0.04			<0.04					
5/18/2017					<0.04		<0.04		<0.04
5/19/2017						<0.04		<0.04	
5/22/2017									
5/23/2017									
5/24/2017									
7/19/2017									
9/15/2017	<0.04	<0.04	<0.04	<0.04	<0.04		<0.04		
9/18/2017									<0.04
9/19/2017						<0.04		<0.04	
9/20/2017									
9/21/2017									
9/22/2017									
9/25/2017									
3/12/2018		0.0082 (J)	0.004 (J)	<0.04	0.0055 (J)				0.0041 (J)
3/13/2018	0.0084 (J)					<0.04	0.0053 (J)	<0.04	
3/14/2018									

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 7/16/2018 10:28 AM View: Cells3&4_AppIII_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-56 (bg)	GWC-16R	GWC-17R	GWC-24R	GWC-18	GWC-18R	GWC-22R	GWC-19R	GWC-25R
2/29/2016									
3/1/2016									
3/2/2016									
3/3/2016	<0.003	<0.1 (D)							
3/4/2016			<0.003	<0.003					
3/7/2016					<0.003	<0.003	<0.003	<0.003	
3/8/2016									<0.003
3/9/2016									
5/2/2016									
5/3/2016									
5/4/2016									<0.1
5/5/2016				<0.1	<0.1	<0.1	<0.1		
5/6/2016									
5/9/2016	<0.1							<0.1	
5/10/2016		<0.1	<0.1						
7/6/2016									
7/7/2016									
7/8/2016									
7/11/2016	0.0128 (J)								
7/12/2016				0.005 (J)					
7/13/2016		0.0297 (J)			0.0047 (J)	0.0159 (J)			
7/14/2016			0.0069 (J)				0.0047 (J)	0.0045 (J)	
7/15/2016									
7/18/2016									<0.1
9/7/2016									
9/8/2016									
9/9/2016	0.0158 (J)								
9/12/2016						<0.1	<0.1	<0.1	
9/13/2016				<0.1	<0.1				<0.1
9/14/2016			<0.1						
9/15/2016		<0.1							
10/25/2016									
10/26/2016	0.0257 (J)								
10/27/2016				0.0093 (J)			0.0153 (J)		0.0162 (J)
10/31/2016					0.0111 (J)			0.0086 (J)	
11/1/2016			<0.1			<0.1			
11/2/2016		<0.1							
1/5/2017									
1/6/2017									
1/9/2017	0.0219 (J)								
1/11/2017		<0.04	0.0078 (J)			<0.04		<0.04	
1/12/2017					<0.04				
1/13/2017				<0.04			<0.04		<0.04
1/25/2017									
3/14/2017									
3/15/2017	0.0253 (J)								
3/16/2017									<0.04
3/20/2017		0.0092 (J)		<0.04		<0.04	<0.04		
3/21/2017			<0.04					<0.04	
3/22/2017									
3/23/2017					<0.04				
5/16/2017									

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 7/16/2018 10:28 AM View: Cells3&4_AppIII_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-56 (bg)	GWC-16R	GWC-17R	GWC-24R	GWC-18	GWC-18R	GWC-22R	GWC-19R	GWC-25R
5/17/2017									
5/18/2017	0.0249 (J)								
5/19/2017				<0.04					<0.04
5/22/2017						0.0452		<0.04 (*)	
5/23/2017		<0.04 (*)	<0.04		<0.04		<0.04		
5/24/2017									
7/19/2017									
9/15/2017	<0.04 (*)								
9/18/2017									
9/19/2017				<0.04			<0.04		<0.04
9/20/2017								<0.04 (*)	
9/21/2017		<0.04				<0.04			
9/22/2017			<0.04						
9/25/2017					<0.04				
3/12/2018									
3/13/2018	0.024 (J)			0.0042 (J)			<0.04		<0.04
3/14/2018		0.0065 (J)	0.0051 (J)		<0.04	<0.04		0.0076 (J)	

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 7/16/2018 10:28 AM View: Cells3&4_AppIII_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-21R	GWC-20R	GWC-23R	GWA-51R_51RZ ...
2/29/2016				
3/1/2016				
3/2/2016				
3/3/2016				
3/4/2016				
3/7/2016				
3/8/2016	<0.003	<0.003		
3/9/2016			<0.003	
5/2/2016				
5/3/2016				
5/4/2016				<0.1 (D)
5/5/2016				
5/6/2016			0.0271 (J)	
5/9/2016	<0.1	<0.1		
5/10/2016				
7/6/2016				
7/7/2016				0.0096 (JD)
7/8/2016				
7/11/2016				
7/12/2016				
7/13/2016				
7/14/2016		<0.1		
7/15/2016	<0.1		0.0055 (J)	
7/18/2016				
9/7/2016				
9/8/2016				0.0137 (JD)
9/9/2016	<0.1			
9/12/2016		<0.1		
9/13/2016				
9/14/2016			0.0094 (J)	
9/15/2016				
10/25/2016				
10/26/2016				0.0247 (JD)
10/27/2016	0.0103 (J)			
10/31/2016		0.007 (J)		
11/1/2016			0.008 (J)	
11/2/2016				
1/5/2017				
1/6/2017				0.0082 (JD)
1/9/2017				
1/11/2017				
1/12/2017	<0.04	<0.04		
1/13/2017				
1/25/2017			<0.04	
3/14/2017				
3/15/2017				<0.04 (D)
3/16/2017				
3/20/2017				
3/21/2017	<0.04			
3/22/2017		<0.04	<0.04	
3/23/2017				
5/16/2017				

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 7/16/2018 10:28 AM View: Cells3&4_AppIII_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-21R	GWC-20R	GWC-23R	GWA-51R_51RZ ...
5/17/2017				
5/18/2017				0.0076 (JD)
5/19/2017				
5/22/2017		<0.04 (*)		
5/23/2017	<0.04 (*)			
5/24/2017			0.0133 (J)	
7/19/2017				0.0193 (JD)
9/15/2017				
9/18/2017				
9/19/2017	<0.04	<0.04		0.0132 (JD)
9/20/2017				
9/21/2017			<0.04 (*)	
9/22/2017				
9/25/2017				
3/12/2018				
3/13/2018				0.013 (J)
3/14/2018	0.0053 (J)	<0.04	0.0056 (J)	

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 7/16/2018 10:28 AM View: Cells3&4_AppIII_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-52 (bg)	GWA-36R (bg)	GWA-37 (bg)	GWA-36 (bg)	GWA-55 (bg)	GWA-53R (bg)	GWA-54 (bg)	GWA-53 (bg)	GWA-55R (bg)
2/29/2016	30								
3/1/2016		32	0.98	20					
3/2/2016					38	29	27	29	
3/3/2016									36
3/4/2016									
3/7/2016									
3/8/2016									
3/9/2016									
5/2/2016		30		19.6					
5/3/2016			1.12		48.7	31		31.2	39.1
5/4/2016	30						27.6		
5/5/2016									
5/6/2016									
5/9/2016									
5/10/2016									
7/6/2016		29.2							
7/7/2016				19.3					
7/8/2016	30.1		1				25.7	30	
7/11/2016					34.8	28.2			31.6
7/12/2016									
7/13/2016									
7/14/2016									
7/15/2016									
7/18/2016									
9/7/2016		28.4	0.858	19.9		27.6			
9/8/2016	26.8						26.3	28.6	
9/9/2016					32.1				29.8
9/12/2016									
9/13/2016									
9/14/2016									
9/15/2016									
10/25/2016		30.8	0.859	19.3					
10/26/2016	26.9				32.9		24	25.5	
10/27/2016						26.5			28.9
10/31/2016									
11/1/2016									
11/2/2016									
1/5/2017		32.6		21					
1/6/2017	27.6		1			26			
1/9/2017					32.5		24.1	26.1	27.9
1/11/2017									
1/12/2017									
1/13/2017									
1/25/2017									
3/14/2017		29.1	0.844						
3/15/2017	26.2			13.4			24.1		
3/16/2017					30.8	26.6		26.7	28.2
3/20/2017									
3/21/2017									
3/22/2017									
3/23/2017									
5/16/2017		28.5	0.922						

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 7/16/2018 10:28 AM View: Cells3&4_AppIII_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-52 (bg)	GWA-36R (bg)	GWA-37 (bg)	GWA-36 (bg)	GWA-55 (bg)	GWA-53R (bg)	GWA-54 (bg)	GWA-53 (bg)	GWA-55R (bg)
5/17/2017	27.6			16.8					
5/18/2017					37.2		26.7		31.3
5/19/2017						30.9		29.2	
5/22/2017									
5/23/2017									
5/24/2017									
7/19/2017									
9/15/2017	27.7	29.1	0.85	13.9	38.5		25.1		
9/18/2017									29.7
9/19/2017						28.5		26.9	
9/20/2017									
9/21/2017									
9/22/2017									
9/25/2017									
3/12/2018		30.6	0.81	11.8 (J)	39.6				38.2
3/13/2018	26.2					29.3	24.3 (J)	28.6	
3/14/2018									

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 7/16/2018 10:28 AM View: Cells3&4_AppIII_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-56 (bg)	GWC-16R	GWC-17R	GWC-24R	GWC-18	GWC-18R	GWC-22R	GWC-19R	GWC-25R
2/29/2016									
3/1/2016									
3/2/2016									
3/3/2016	36	52 (D)							
3/4/2016			69	32					
3/7/2016					16	30	32	30	
3/8/2016									34
3/9/2016									
5/2/2016									
5/3/2016									
5/4/2016									36
5/5/2016				34.6	17.2	29.6	32.2		
5/6/2016									
5/9/2016	39							32.6	
5/10/2016		57.6	72.9						
7/6/2016									
7/7/2016									
7/8/2016									
7/11/2016	35.7								
7/12/2016				29.6					
7/13/2016		49			12.3	27.8			
7/14/2016			58.2				26.8	25.6	
7/15/2016									
7/18/2016									31.7
9/7/2016									
9/8/2016									
9/9/2016	32								
9/12/2016						29.1	31.1	29.6	
9/13/2016				31.1	17.8				32.5
9/14/2016			62.2						
9/15/2016		55.4							
10/25/2016									
10/26/2016	28.5								
10/27/2016				32.8			29.2		30.9
10/31/2016					6.22			26.5	
11/1/2016			62.5			26.2			
11/2/2016		54.8							
1/5/2017									
1/6/2017									
1/9/2017	27.5								
1/11/2017		51.6	63.9			25.2		28.5	
1/12/2017					16.6				
1/13/2017				34			30		31.2
1/25/2017									
3/14/2017									
3/15/2017	24.8								
3/16/2017									29
3/20/2017		52.5		33.4		29.9	32		
3/21/2017			63.8					29.1	
3/22/2017									
3/23/2017					19.6				
5/16/2017									

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 7/16/2018 10:28 AM View: Cells3&4_AppIII_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-56 (bg)	GWC-16R	GWC-17R	GWC-24R	GWC-18	GWC-18R	GWC-22R	GWC-19R	GWC-25R
5/17/2017									
5/18/2017	26.9								
5/19/2017				33.2					33.9
5/22/2017						28.9		28.2	
5/23/2017		58.7	62		21		27.5		
5/24/2017									
7/19/2017									
9/15/2017	19.6								
9/18/2017									
9/19/2017				29.5			30.3		31.3
9/20/2017								32.1	
9/21/2017		63.8				30.8			
9/22/2017			67.2						
9/25/2017					17				
3/12/2018									
3/13/2018	26			30.8			32.1		33.3
3/14/2018		60.6	65.6		23.4 (J)	27.6		30.7	

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 7/16/2018 10:28 AM View: Cells3&4_AppIII_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-21R	GWC-20R	GWC-23R	GWA-51R_51RZ ...
2/29/2016				
3/1/2016				
3/2/2016				
3/3/2016				
3/4/2016				
3/7/2016				
3/8/2016	63	40		
3/9/2016			55	
5/2/2016				
5/3/2016				
5/4/2016				43.4 (D)
5/5/2016				
5/6/2016			62.4	
5/9/2016	50.8	43.8		
5/10/2016				
7/6/2016				
7/7/2016				40.1 (D)
7/8/2016				
7/11/2016				
7/12/2016				
7/13/2016				
7/14/2016		36		
7/15/2016	48.2		49.5	
7/18/2016				
9/7/2016				
9/8/2016				37.1 (D)
9/9/2016	56.9			
9/12/2016		42.1		
9/13/2016				
9/14/2016			54.4	
9/15/2016				
10/25/2016				
10/26/2016				38.8 (D)
10/27/2016	57.9			
10/31/2016		43.4		
11/1/2016			52.8	
11/2/2016				
1/5/2017				
1/6/2017				39.6 (D)
1/9/2017				
1/11/2017				
1/12/2017	60.5	39.1		
1/13/2017				
1/25/2017			57.2	
3/14/2017				
3/15/2017				36.1 (D)
3/16/2017				
3/20/2017				
3/21/2017	63.7			
3/22/2017		37	58.1	
3/23/2017				
5/16/2017				

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 7/16/2018 10:28 AM View: Cells3&4_AppIII_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-21R	GWC-20R	GWC-23R	GWA-51R_51RZ ...
5/17/2017				
5/18/2017				40.1 (D)
5/19/2017				
5/22/2017		36.8		
5/23/2017	60			
5/24/2017			64	
7/19/2017				46.9 (D)
9/15/2017				
9/18/2017				
9/19/2017	58.9	37.7		47.7 (D)
9/20/2017				
9/21/2017			61.1	
9/22/2017				
9/25/2017				
3/12/2018				
3/13/2018				46.1 (D)
3/14/2018	65.6	35.9	59.9	

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 7/16/2018 10:28 AM View: Cells3&4_AppIII_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-52 (bg)	GWA-36R (bg)	GWA-37 (bg)	GWA-36 (bg)	GWA-55 (bg)	GWA-53R (bg)	GWA-54 (bg)	GWA-53 (bg)	GWA-55R (bg)
2/29/2016	0.0375 (J)								
3/1/2016		0.0172 (J)	0.0215 (J)	0.0153 (J)					
3/2/2016					0.0293 (J)	0.0238 (J)	0.0427 (J)	0.0202 (J)	
3/3/2016									0.0392 (J)
3/4/2016									
3/7/2016									
3/8/2016									
3/9/2016									
5/2/2016		0.018 (J)		0.018 (J)					
5/3/2016			0.023 (J)		0.049 (J)	0.027 (J)		0.025 (J)	0.058 (J)
5/4/2016	0.04 (J)						0.048 (J)		
5/5/2016									
5/6/2016									
5/9/2016									
5/10/2016									
7/6/2016		0.02 (J)							
7/7/2016				<0.3					
7/8/2016	0.11 (J)		0.02 (J)				0.12 (J)	0.09 (J)	
7/11/2016					<0.3 (*)	<0.3 (*)			<0.3 (*)
7/12/2016									
7/13/2016									
7/14/2016									
7/15/2016									
7/18/2016									
9/7/2016		<0.3	<0.3	<0.3		<0.3			
9/8/2016	<0.3						<0.3	<0.3	
9/9/2016					0.05 (J)				0.02 (J)
9/12/2016									
9/13/2016									
9/14/2016									
9/15/2016									
10/25/2016		0.03 (J)	0.04 (J)	<0.3					
10/26/2016	0.04 (J)				0.08 (J)		0.11 (J)	0.04 (J)	
10/27/2016						0.1 (J)			0.12 (J)
10/31/2016									
11/1/2016									
11/2/2016									
1/5/2017		0.03 (J)		<0.3					
1/6/2017	0.04 (J)		<0.3			0.02 (J)			
1/9/2017					0.05 (J)		0.04 (J)	0.02 (J)	0.06 (J)
1/11/2017									
1/12/2017									
1/13/2017									
1/25/2017									
3/14/2017		<0.3	<0.3						
3/15/2017	<0.3			<0.3			0.009 (J)		
3/16/2017					0.07 (J)	0.04 (J)		<0.3	0.08 (J)
3/20/2017									
3/21/2017									
3/22/2017									
3/23/2017									
5/16/2017		<0.3	<0.3						

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 7/16/2018 10:28 AM View: Cells3&4_AppIII_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-52 (bg)	GWA-36R (bg)	GWA-37 (bg)	GWA-36 (bg)	GWA-55 (bg)	GWA-53R (bg)	GWA-54 (bg)	GWA-53 (bg)	GWA-55R (bg)
5/17/2017	0.01 (J)			<0.3					
5/18/2017					<0.3		0.02 (J)		0.04 (J)
5/19/2017						0.004 (J)		<0.3	
5/22/2017									
5/23/2017									
5/24/2017									
7/19/2017									
9/15/2017	<0.3	<0.3	<0.3	<0.3	<0.3		0.03 (J)		
9/18/2017									<0.3
9/19/2017						<0.3		<0.3	
9/20/2017									
9/21/2017									
9/22/2017									
9/25/2017									
3/12/2018		<0.3	<0.3	<0.3	<0.3				<0.3
3/13/2018	0.084 (J)					0.032 (J)	0.054 (J)	<0.3	
3/14/2018									

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 7/16/2018 10:28 AM View: Cells3&4_AppIII_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-56 (bg)	GWC-16R	GWC-17R	GWC-24R	GWC-18	GWC-18R	GWC-22R	GWC-19R	GWC-25R
2/29/2016									
3/1/2016									
3/2/2016									
3/3/2016	0.1143 (J)	0.06259 (JD)							
3/4/2016			2.1421 (J)	<0.005					
3/7/2016					0.00623 (J)	0.00232 (J)	0.00526 (J)	<0.01	
3/8/2016									0.00246 (J)
3/9/2016									
5/2/2016									
5/3/2016									
5/4/2016									0.027 (J)
5/5/2016				0.039 (J)	0.045 (J)	0.025 (J)	0.049 (J)		
5/6/2016									
5/9/2016	0.0383 (J)							0.0246 (J)	
5/10/2016		0.0767 (J)	0.0258 (J)						
7/6/2016									
7/7/2016									
7/8/2016									
7/11/2016	<0.3 (*)								
7/12/2016				<0.3 (*)					
7/13/2016		<0.3			<0.3 (*)	<0.3			
7/14/2016			<0.3				<0.3	<0.3	
7/15/2016									
7/18/2016									<0.3
9/7/2016									
9/8/2016									
9/9/2016	0.1 (J)								
9/12/2016						0.02 (J)	0.06 (J)	0.03 (J)	
9/13/2016				0.04 (J)	0.07 (J)				0.03 (J)
9/14/2016			<0.3						
9/15/2016		<0.3							
10/25/2016									
10/26/2016	0.2 (J)								
10/27/2016				0.11 (J)			0.12 (J)		0.1 (J)
10/31/2016					0.05 (J)			0.05 (J)	
11/1/2016			0.06 (J)			0.05 (J)			
11/2/2016		0.08 (J)							
1/5/2017									
1/6/2017									
1/9/2017	0.26 (J)								
1/11/2017		0.19 (J)	0.33			<0.3		<0.3	
1/12/2017					0.06 (J)				
1/13/2017				<0.3			0.04 (J)		<0.3
1/25/2017									
3/14/2017									
3/15/2017	0.19 (J)								
3/16/2017									<0.3
3/20/2017		0.18 (J)		<0.3		<0.3	0.06 (J)		
3/21/2017			0.03 (J)					<0.3	
3/22/2017									
3/23/2017					0.03 (J)				
5/16/2017									

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 7/16/2018 10:28 AM View: Cells3&4_AppIII_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-56 (bg)	GWC-16R	GWC-17R	GWC-24R	GWC-18	GWC-18R	GWC-22R	GWC-19R	GWC-25R
5/17/2017									
5/18/2017	0.19 (J)								
5/19/2017				0.01 (J)					<0.3
5/22/2017						<0.3		<0.3	
5/23/2017		0.1 (J)	0.004 (J)		0.02 (J)		0.02 (J)		
5/24/2017									
7/19/2017									
9/15/2017	0.24 (J)								
9/18/2017									
9/19/2017				<0.3			<0.3		<0.3
9/20/2017								<0.3	
9/21/2017		<0.3				<0.3			
9/22/2017			0.04 (J)						
9/25/2017					0.1 (J)				
3/12/2018									
3/13/2018	0.4			0.091 (J)			0.046 (J)		<0.3
3/14/2018		0.17 (J)	<0.3		0.12 (J)	0.12 (J)		0.045 (J)	

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 7/16/2018 10:28 AM View: Cells3&4_AppIII_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-21R	GWC-20R	GWC-23R	GWA-51R_51RZ ...
2/29/2016				
3/1/2016				
3/2/2016				
3/3/2016				
3/4/2016				
3/7/2016				
3/8/2016	0.00287 (J)	0.00425 (J)		
3/9/2016			<0.01	
5/2/2016				
5/3/2016				
5/4/2016				0.057 (JD)
5/5/2016				
5/6/2016			0.056 (J)	
5/9/2016	0.0222 (J)	0.0259 (J)		
5/10/2016				
7/6/2016				
7/7/2016				0.09 (JD)
7/8/2016				
7/11/2016				
7/12/2016				
7/13/2016				
7/14/2016		<0.3		
7/15/2016	<0.3		<0.3	
7/18/2016				
9/7/2016				
9/8/2016				0.03 (JD)
9/9/2016	0.03 (J)			
9/12/2016		0.03 (J)		
9/13/2016				
9/14/2016			0.02 (J)	
9/15/2016				
10/25/2016				
10/26/2016				0.15 (JD)
10/27/2016	0.1 (J)			
10/31/2016		0.11 (J)		
11/1/2016			0.07 (J)	
11/2/2016				
1/5/2017				
1/6/2017				0.11 (JD)
1/9/2017				
1/11/2017				
1/12/2017	0.11 (J)	0.02 (J)		
1/13/2017				
1/25/2017			0.01 (J)	
3/14/2017				
3/15/2017				0.004 (JD)
3/16/2017				
3/20/2017				
3/21/2017	<0.3			
3/22/2017		0.1 (J)	0.02 (J)	
3/23/2017				
5/16/2017				

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 7/16/2018 10:28 AM View: Cells3&4_AppIII_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-21R	GWC-20R	GWC-23R	GWA-51R_51RZ ...
5/17/2017				
5/18/2017				0.007 (JD)
5/19/2017				
5/22/2017		0.02 (J)		
5/23/2017	<0.3			
5/24/2017			<0.3	
7/19/2017				0.12 (JD)
9/15/2017				
9/18/2017				
9/19/2017	<0.3	<0.3		0.07 (JD)
9/20/2017				
9/21/2017			0.17 (J)	
9/22/2017				
9/25/2017				
3/12/2018				
3/13/2018				0.16 (J)
3/14/2018	<0.3	0.035 (J)	0.18 (J)	

Intrawell Prediction Limit

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR Printed 7/16/2018, 10:50 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Chloride (mg/L)	**GWA-52**	**2.796**	**n/a**	**3/13/2018**	**3**	**Yes**	**9**	**0**	**No**	**0.001595**	Param 1 of 3
Chloride (mg/L)	**GWA-53**	**2.665**	**n/a**	**3/13/2018**	**2.7**	**Yes**	**9**	**0**	**No**	**0.001595**	Param 1 of 3
Chloride (mg/L)	**GWA-55**	**3.307**	**n/a**	**3/12/2018**	**3.6**	**Yes**	**9**	**0**	**No**	**0.001595**	Param 1 of 3
pH (pH units)	**GWA-36**	**7.301**	**6.679**	**3/12/2018**	**6.6**	**Yes**	**9**	**0**	**No**	**0.000...**	Param 1 of 3
pH (pH units)	**GWA-36R**	**7.489**	**7.262**	**3/12/2018**	**7.26**	**Yes**	**9**	**0**	**No**	**0.000...**	Param 1 of 3
pH (pH units)	**GWA-52**	**7.661**	**7.445**	**3/13/2018**	**7.34**	**Yes**	**9**	**0**	**No**	**0.000...**	Param 1 of 3
pH (pH units)	**GWA-54**	**7.865**	**7.412**	**3/13/2018**	**7.39**	**Yes**	**9**	**0**	**No**	**0.000...**	Param 1 of 3
pH (pH units)	**GWA-55**	**7.723**	**7.046**	**3/12/2018**	**7**	**Yes**	**9**	**0**	**No**	**0.000...**	Param 1 of 3
pH (pH units)	**GWA-55R**	**7.879**	**7.481**	**3/12/2018**	**7.11**	**Yes**	**9**	**0**	**No**	**0.000...**	Param 1 of 3
pH (pH units)	**GWC-18R**	**7.985**	**7.573**	**3/14/2018**	**7.51**	**Yes**	**9**	**0**	**No**	**0.000...**	Param 1 of 3
Sulfate (mg/L)	**GWA-36R**	**6.068**	**n/a**	**3/12/2018**	**8.2**	**Yes**	**9**	**0**	**No**	**0.001595**	Param 1 of 3
Sulfate (mg/L)	**GWA-52**	**8.001**	**n/a**	**3/13/2018**	**8.5**	**Yes**	**9**	**0**	**No**	**0.001595**	Param 1 of 3
Sulfate (mg/L)	**GWA-51R_51RZ**	**24.13**	**n/a**	**3/13/2018**	**27.3**	**Yes**	**9**	**0**	**No**	**0.001595**	Param 1 of 3
Total Dissolved Solids (mg/l)	**GWA-55**	**209.1**	**n/a**	**3/12/2018**	**212**	**Yes**	**9**	**0**	**No**	**0.001595**	Param 1 of 3

Intrawell Prediction Limit

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR Printed 7/16/2018, 10:50 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Chloride (mg/L)	GWA-36	2.627	n/a	3/12/2018	2.2	No	9	0	No	0.001595	Param 1 of 3
Chloride (mg/L)	GWA-36R	3.534	n/a	3/12/2018	3.2	No	9	0	No	0.001595	Param 1 of 3
Chloride (mg/L)	GWA-37	1.318	n/a	3/12/2018	1.1	No	9	0	No	0.001595	Param 1 of 3
Chloride (mg/L)	GWA-38	2.684	n/a	3/13/2018	2.4	No	9	0	No	0.001595	Param 1 of 3
Chloride (mg/L)	**GWA-52**	**2.796**	**n/a**	**3/13/2018**	**3**	**Yes**	**9**	**0**	**No**	**0.001595**	Param 1 of 3
Chloride (mg/L)	**GWA-53**	**2.665**	**n/a**	**3/13/2018**	**2.7**	**Yes**	**9**	**0**	**No**	**0.001595**	Param 1 of 3
Chloride (mg/L)	GWA-53R	2.903	n/a	3/13/2018	2.6	No	9	0	No	0.001595	Param 1 of 3
Chloride (mg/L)	GWA-54	1.641	n/a	3/13/2018	0.93	No	9	0	No	0.001595	Param 1 of 3
Chloride (mg/L)	**GWA-55**	**3.307**	**n/a**	**3/12/2018**	**3.6**	**Yes**	**9**	**0**	**No**	**0.001595**	Param 1 of 3
Chloride (mg/L)	GWA-55R	3.261	n/a	3/12/2018	3.2	No	9	0	No	0.001595	Param 1 of 3
Chloride (mg/L)	GWA-56	9.572	n/a	3/13/2018	6.9	No	9	0	No	0.001595	Param 1 of 3
Chloride (mg/L)	GWC-16R	2.532	n/a	3/14/2018	2.1	No	9	0	No	0.001595	Param 1 of 3
Chloride (mg/L)	GWC-17R	7.122	n/a	3/14/2018	6.1	No	9	0	No	0.001595	Param 1 of 3
Chloride (mg/L)	GWC-18	2.359	n/a	3/14/2018	2.1	No	9	0	No	0.001595	Param 1 of 3
Chloride (mg/L)	GWC-18R	2.809	n/a	3/14/2018	2.2	No	9	0	No	0.001595	Param 1 of 3
Chloride (mg/L)	GWC-19R	3	n/a	3/14/2018	2.2	No	9	0	n/a	0.004675	NP (normality) 1 of 3
Chloride (mg/L)	GWC-20R	2.164	n/a	3/14/2018	2	No	9	0	No	0.001595	Param 1 of 3
Chloride (mg/L)	GWC-21R	4.87	n/a	3/14/2018	4.4	No	9	0	No	0.001595	Param 1 of 3
Chloride (mg/L)	GWC-22R	3.158	n/a	3/13/2018	2.8	No	9	0	x^(1/3)	0.001595	Param 1 of 3
Chloride (mg/L)	GWC-23R	2.559	n/a	3/14/2018	2.2	No	9	0	No	0.001595	Param 1 of 3
Chloride (mg/L)	GWC-24R	3.008	n/a	3/13/2018	0.125ND	No	9	0	No	0.001595	Param 1 of 3
Chloride (mg/L)	GWC-25R	3.089	n/a	3/13/2018	2.7	No	9	0	No	0.001595	Param 1 of 3
Chloride (mg/L)	GWA-51R_51RZ	3.92	n/a	3/13/2018	3.3	No	9	0	No	0.001595	Param 1 of 3
pH (pH units)	**GWA-36**	**7.301**	**6.679**	**3/12/2018**	**6.6**	**Yes**	**9**	**0**	**No**	**0.000...**	Param 1 of 3
pH (pH units)	**GWA-36R**	**7.489**	**7.262**	**3/12/2018**	**7.26**	**Yes**	**9**	**0**	**No**	**0.000...**	Param 1 of 3
pH (pH units)	GWA-37	5.94	5.02	3/12/2018	5.72	No	9	0	n/a	0.009351	NP (normality) 1 of 3
pH (pH units)	GWA-38	5.911	4.872	3/13/2018	5.57	No	9	0	No	0.000...	Param 1 of 3
pH (pH units)	**GWA-52**	**7.661**	**7.445**	**3/13/2018**	**7.34**	**Yes**	**9**	**0**	**No**	**0.000...**	Param 1 of 3
pH (pH units)	GWA-53	7.893	7.562	3/13/2018	7.74	No	9	0	No	0.000...	Param 1 of 3
pH (pH units)	GWA-53R	7.84	7.63	3/13/2018	7.8	No	9	0	n/a	0.009351	NP (normality) 1 of 3
pH (pH units)	**GWA-54**	**7.865**	**7.412**	**3/13/2018**	**7.39**	**Yes**	**9**	**0**	**No**	**0.000...**	Param 1 of 3
pH (pH units)	**GWA-55**	**7.723**	**7.046**	**3/12/2018**	**7**	**Yes**	**9**	**0**	**No**	**0.000...**	Param 1 of 3
pH (pH units)	**GWA-55R**	**7.879**	**7.481**	**3/12/2018**	**7.11**	**Yes**	**9**	**0**	**No**	**0.000...**	Param 1 of 3
pH (pH units)	GWA-56	8.311	7.667	3/13/2018	8.03	No	10	0	No	0.000...	Param 1 of 3
pH (pH units)	GWC-16R	7.452	6.895	3/14/2018	7.11	No	9	0	No	0.000...	Param 1 of 3
pH (pH units)	GWC-17R	7.264	7.122	3/14/2018	7.16	No	9	0	No	0.000...	Param 1 of 3
pH (pH units)	GWC-18	7.298	6.026	3/14/2018	7.06	No	9	0	No	0.000...	Param 1 of 3
pH (pH units)	**GWC-18R**	**7.985**	**7.573**	**3/14/2018**	**7.51**	**Yes**	**9**	**0**	**No**	**0.000...**	Param 1 of 3
pH (pH units)	GWC-19R	7.843	7.572	3/14/2018	7.74	No	9	0	No	0.000...	Param 1 of 3
pH (pH units)	GWC-20R	7.806	7.4	3/14/2018	7.62	No	10	0	No	0.000...	Param 1 of 3
pH (pH units)	GWC-21R	7.299	6.863	3/14/2018	6.99	No	9	0	No	0.000...	Param 1 of 3
pH (pH units)	GWC-22R	7.877	7.409	3/13/2018	7.49	No	10	0	No	0.000...	Param 1 of 3
pH (pH units)	GWC-23R	7.616	7.089	3/14/2018	7.4	No	9	0	No	0.000...	Param 1 of 3
pH (pH units)	GWC-24R	7.839	6.954	3/13/2018	7.02	No	9	0	No	0.000...	Param 1 of 3
pH (pH units)	GWC-25R	7.76	7.318	3/13/2018	7.43	No	9	0	No	0.000...	Param 1 of 3
pH (pH units)	GWA-51R_51RZ	7.663	7.361	3/13/2018	7.62	No	10	0	No	0.000...	Param 1 of 3
Sulfate (mg/L)	GWA-36	2.439	n/a	3/12/2018	0.77	No	9	0	No	0.001595	Param 1 of 3
Sulfate (mg/L)	**GWA-36R**	**6.068**	**n/a**	**3/12/2018**	**8.2**	**Yes**	**9**	**0**	**No**	**0.001595**	Param 1 of 3
Sulfate (mg/L)	GWA-37	1.001	n/a	3/12/2018	0.42	No	9	0	No	0.001595	Param 1 of 3
Sulfate (mg/L)	GWA-38	2.679	n/a	3/13/2018	1.5	No	9	0	No	0.001595	Param 1 of 3

Intrawell Prediction Limit

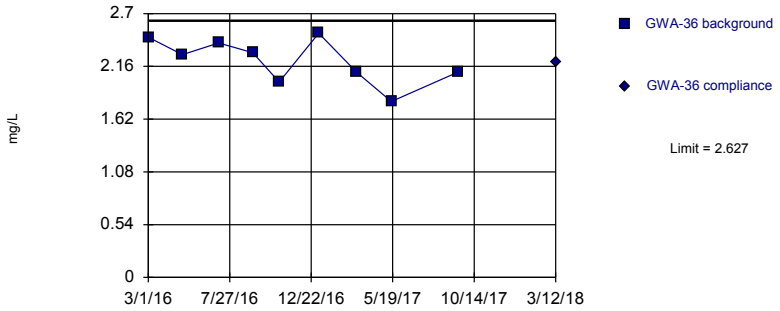
Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR Printed 7/16/2018, 10:50 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Sulfate (mg/L)	**GWA-52**	**8.001**	**n/a**	**3/13/2018**	**8.5**	**Yes**	**9**	**0**	**No**	**0.001595**	Param 1 of 3
Sulfate (mg/L)	GWA-53	2.113	n/a	3/13/2018	1.9	No	9	0	No	0.001595	Param 1 of 3
Sulfate (mg/L)	GWA-53R	2.14	n/a	3/13/2018	1.9	No	9	0	No	0.001595	Param 1 of 3
Sulfate (mg/L)	GWA-54	7.47	n/a	3/13/2018	4.9	No	9	0	No	0.001595	Param 1 of 3
Sulfate (mg/L)	GWA-55	36.95	n/a	3/12/2018	28.7	No	9	0	No	0.001595	Param 1 of 3
Sulfate (mg/L)	GWA-55R	25.18	n/a	3/12/2018	22	No	9	0	No	0.001595	Param 1 of 3
Sulfate (mg/L)	GWA-56	134.9	n/a	3/13/2018	94.8	No	9	0	No	0.001595	Param 1 of 3
Sulfate (mg/L)	GWC-16R	11.55	n/a	3/14/2018	8.8	No	9	0	No	0.001595	Param 1 of 3
Sulfate (mg/L)	GWC-17R	8.548	n/a	3/14/2018	7	No	9	0	x^(1/3)	0.001595	Param 1 of 3
Sulfate (mg/L)	GWC-18	2.392	n/a	3/14/2018	2.2	No	9	0	No	0.001595	Param 1 of 3
Sulfate (mg/L)	GWC-18R	2.564	n/a	3/14/2018	2.2	No	8	0	No	0.001595	Param 1 of 3
Sulfate (mg/L)	GWC-19R	3.623	n/a	3/14/2018	3.4	No	9	0	No	0.001595	Param 1 of 3
Sulfate (mg/L)	GWC-20R	1.761	n/a	3/14/2018	1.6	No	9	0	x^2	0.001595	Param 1 of 3
Sulfate (mg/L)	GWC-21R	6.135	n/a	3/14/2018	0.5ND	No	9	0	No	0.001595	Param 1 of 3
Sulfate (mg/L)	GWC-22R	2.472	n/a	3/13/2018	2.4	No	8	0	No	0.001595	Param 1 of 3
Sulfate (mg/L)	GWC-23R	23.76	n/a	3/14/2018	14	No	9	0	No	0.001595	Param 1 of 3
Sulfate (mg/L)	GWC-24R	12.51	n/a	3/13/2018	1.4	No	9	0	No	0.001595	Param 1 of 3
Sulfate (mg/L)	GWC-25R	1.963	n/a	3/13/2018	1.7	No	9	0	No	0.001595	Param 1 of 3
Sulfate (mg/L)	**GWA-51R_51RZ**	**24.13**	**n/a**	**3/13/2018**	**27.3**	**Yes**	**9**	**0**	**No**	**0.001595**	Param 1 of 3
Total Dissolved Solids (mg/l)	GWA-36	144.7	n/a	3/12/2018	81	No	9	0	No	0.001595	Param 1 of 3
Total Dissolved Solids (mg/l)	GWA-36R	221.7	n/a	3/12/2018	169	No	9	0	No	0.001595	Param 1 of 3
Total Dissolved Solids (mg/l)	GWC-25R	189.5	n/a	3/13/2018	153	No	9	0	No	0.001595	Param 1 of 3
Total Dissolved Solids (mg/l)	GWA-51R_51RZ	314.7	n/a	3/13/2018	233	No	9	0	No	0.001595	Param 1 of 3
Total Dissolved Solids (mg/l)	GWA-37	342.6	n/a	3/12/2018	12.5ND	No	9	22.22	ln(x)	0.001595	Param 1 of 3
Total Dissolved Solids (mg/l)	GWA-38	124.4	n/a	3/13/2018	33	No	9	44.44	sqrt(x)	0.001595	Param 1 of 3
Total Dissolved Solids (mg/l)	GWA-52	162.6	n/a	3/13/2018	150	No	8	0	No	0.001595	Param 1 of 3
Total Dissolved Solids (mg/l)	GWA-53	157.5	n/a	3/13/2018	138	No	9	0	No	0.001595	Param 1 of 3
Total Dissolved Solids (mg/l)	GWA-53R	180.7	n/a	3/13/2018	132	No	8	0	No	0.001595	Param 1 of 3
Total Dissolved Solids (mg/l)	GWA-54	169.6	n/a	3/13/2018	133	No	9	0	No	0.001595	Param 1 of 3
Total Dissolved Solids (mg/l)	**GWA-55**	**209.1**	**n/a**	**3/12/2018**	**212**	**Yes**	**9**	**0**	**No**	**0.001595**	Param 1 of 3
Total Dissolved Solids (mg/l)	GWA-55R	209.2	n/a	3/12/2018	207	No	9	0	No	0.001595	Param 1 of 3
Total Dissolved Solids (mg/l)	GWA-56	437.3	n/a	3/13/2018	349	No	9	0	No	0.001595	Param 1 of 3
Total Dissolved Solids (mg/l)	GWC-16R	331	n/a	3/14/2018	312	No	9	0	No	0.001595	Param 1 of 3
Total Dissolved Solids (mg/l)	GWC-17R	375.4	n/a	3/14/2018	323	No	9	0	No	0.001595	Param 1 of 3
Total Dissolved Solids (mg/l)	GWC-18	131.6	n/a	3/14/2018	115	No	9	0	No	0.001595	Param 1 of 3
Total Dissolved Solids (mg/l)	GWC-18R	183	n/a	3/14/2018	139	No	9	0	No	0.001595	Param 1 of 3
Total Dissolved Solids (mg/l)	GWC-19R	220	n/a	3/14/2018	156	No	9	0	No	0.001595	Param 1 of 3
Total Dissolved Solids (mg/l)	GWC-20R	222.6	n/a	3/14/2018	167	No	9	0	No	0.001595	Param 1 of 3
Total Dissolved Solids (mg/l)	GWC-21R	395.9	n/a	3/14/2018	306	No	9	0	No	0.001595	Param 1 of 3
Total Dissolved Solids (mg/l)	GWC-22R	191.5	n/a	3/13/2018	159	No	9	0	No	0.001595	Param 1 of 3
Total Dissolved Solids (mg/l)	GWC-23R	358.5	n/a	3/14/2018	290	No	9	0	No	0.001595	Param 1 of 3
Total Dissolved Solids (mg/l)	GWC-24R	209	n/a	3/13/2018	153	No	9	0	n/a	0.004675	NP (normality) 1 of 3

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=2.215, Std. Dev.=0.2322, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9475, critical = 0.764. Kappa = 1.771 (c=3, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.001595.

Constituent: Chloride Analysis Run 7/16/2018 10:31 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

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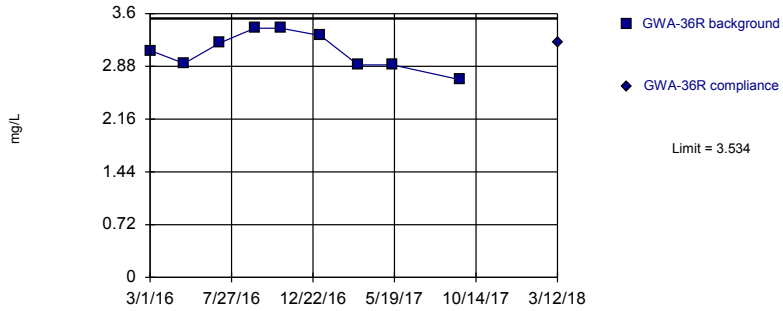
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=3.091, Std. Dev.=0.2504, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9216, critical = 0.764. Kappa = 1.771 (c=3, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.001595.

Constituent: Chloride Analysis Run 7/16/2018 10:31 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

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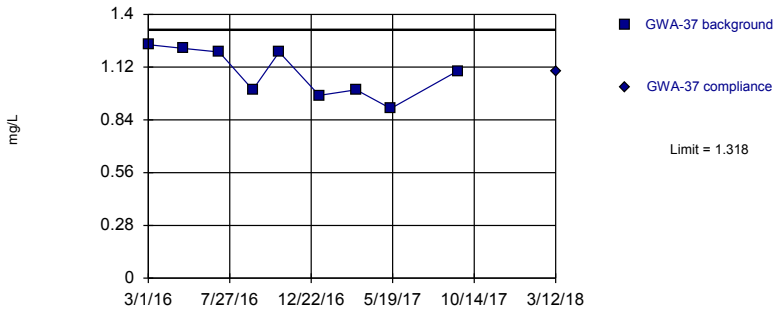
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=1.092, Std. Dev.=0.1275, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8843, critical = 0.764. Kappa = 1.771 (c=3, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.001595.

Constituent: Chloride Analysis Run 7/16/2018 10:31 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

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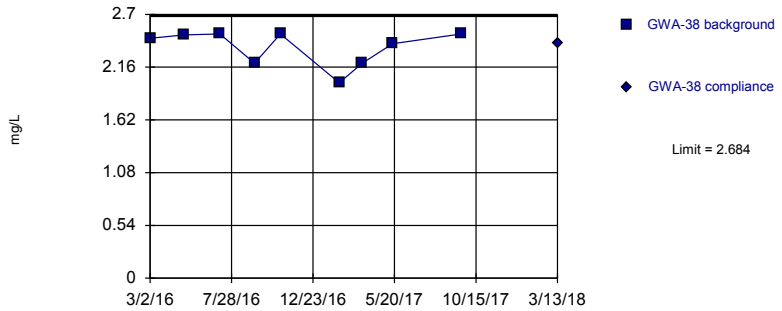
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=2.361, Std. Dev.=0.1828, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.79, critical = 0.764. Kappa = 1.771 (c=3, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.001595.

Constituent: Chloride Analysis Run 7/16/2018 10:32 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Prediction Limit

Constituent: Chloride Analysis Run 7/16/2018 10:50 AM View: Cells3&4_AppIII_intrawell

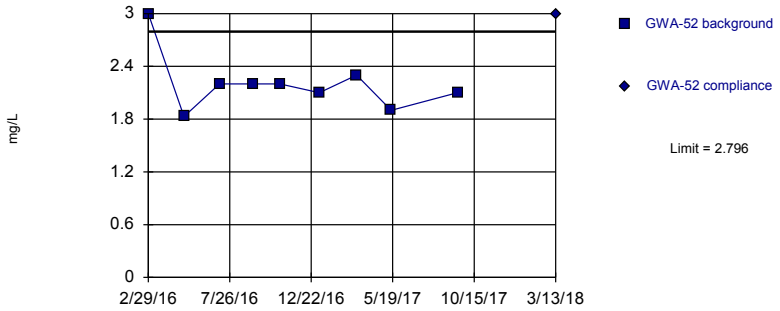
Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-36	GWA-36	GWA-36R	GWA-36R	GWA-37	GWA-37	GWA-38	GWA-38
3/1/2016	2.4587		3.096		1.2389			
3/2/2016							2.4559	
5/2/2016	2.28		2.92					
5/3/2016					1.22		2.49	
7/6/2016			3.2					
7/7/2016	2.4						2.5	
7/8/2016					1.2			
9/7/2016	2.3		3.4		1			
9/8/2016							2.2	
10/25/2016	2		3.4		1.2		2.5	
1/5/2017	2.5 (J)		3.3					
1/6/2017					0.97			
2/9/2017							2	
3/14/2017			2.9		1			
3/15/2017	2.1							
3/23/2017							2.2	
5/16/2017			2.9		0.9			
5/17/2017	1.8						2.4	
9/15/2017	2.1		2.7		1.1			
9/19/2017							2.5	
3/12/2018		2.2		3.2		1.1		
3/13/2018								2.4

Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=2.203, Std. Dev.=0.3345, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.802, critical = 0.764. Kappa = 1.771 (c=3, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.001595.

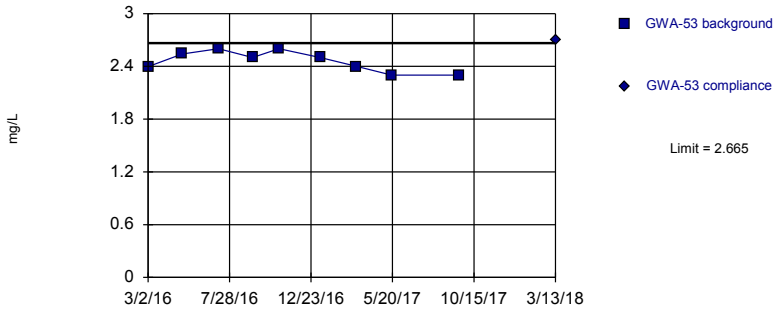
Constituent: Chloride Analysis Run 7/16/2018 10:32 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=2.46, Std. Dev.=0.1159, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9031, critical = 0.764. Kappa = 1.771 (c=3, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.001595.

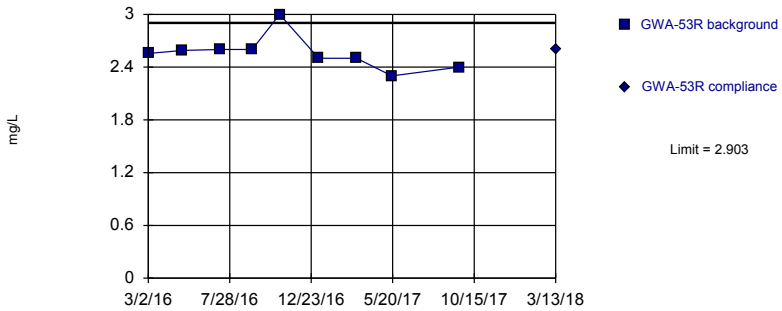
Constituent: Chloride Analysis Run 7/16/2018 10:32 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=2.561, Std. Dev.=0.193, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8566, critical = 0.764. Kappa = 1.771 (c=3, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.001595.

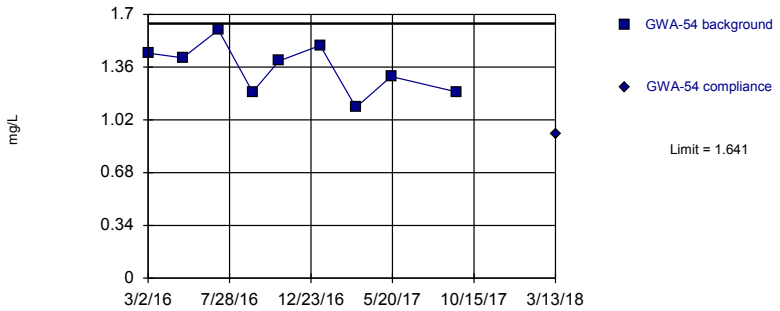
Constituent: Chloride Analysis Run 7/16/2018 10:32 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=1.352, Std. Dev.=0.1629, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9642, critical = 0.764. Kappa = 1.771 (c=3, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.001595.

Constituent: Chloride Analysis Run 7/16/2018 10:32 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Prediction Limit

Constituent: Chloride Analysis Run 7/16/2018 10:50 AM View: Cells3&4_AppIII_intrawell

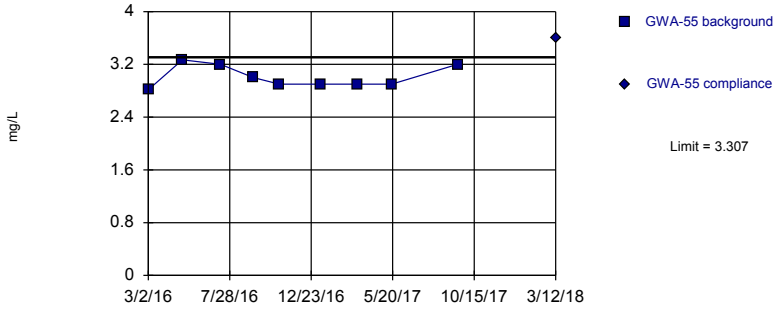
Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-52	GWA-52	GWA-53	GWA-53	GWA-53R	GWA-53R	GWA-54	GWA-54
2/29/2016	2.9988							
3/2/2016			2.3976		2.556		1.4496	
5/3/2016			2.54		2.59			
5/4/2016	1.83						1.42	
7/8/2016	2.2		2.6				1.6	
7/11/2016					2.6			
9/7/2016					2.6			
9/8/2016	2.2		2.5				1.2	
10/26/2016	2.2		2.6				1.4	
10/27/2016					3			
1/6/2017	2.1				2.5			
1/9/2017			2.5				1.5	
3/15/2017	2.3						1.1	
3/16/2017			2.4		2.5			
5/17/2017	1.9							
5/18/2017							1.3	
5/19/2017			2.3		2.3			
9/15/2017	2.1						1.2	
9/19/2017			2.3		2.4			
3/13/2018		3		2.7		2.6		0.93

Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=3.009, Std. Dev.=0.1682, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8321, critical = 0.764. Kappa = 1.771 (c=3, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.001595.

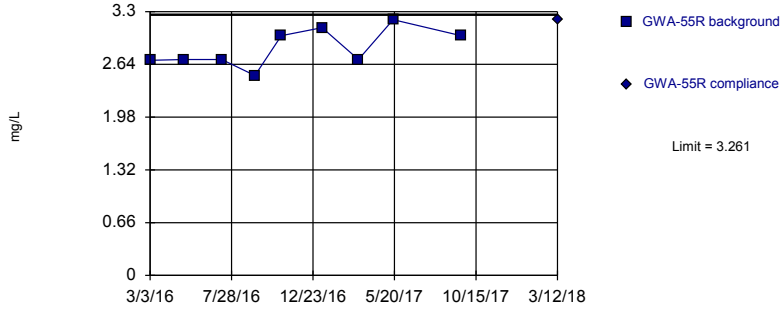
Constituent: Chloride Analysis Run 7/16/2018 10:32 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=2.843, Std. Dev.=0.2358, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8992, critical = 0.764. Kappa = 1.771 (c=3, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.001595.

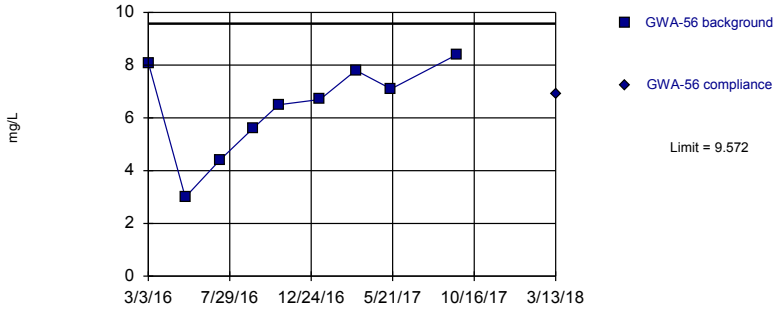
Constituent: Chloride Analysis Run 7/16/2018 10:32 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=6.398, Std. Dev.=1.792, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9253, critical = 0.764. Kappa = 1.771 (c=3, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.001595.

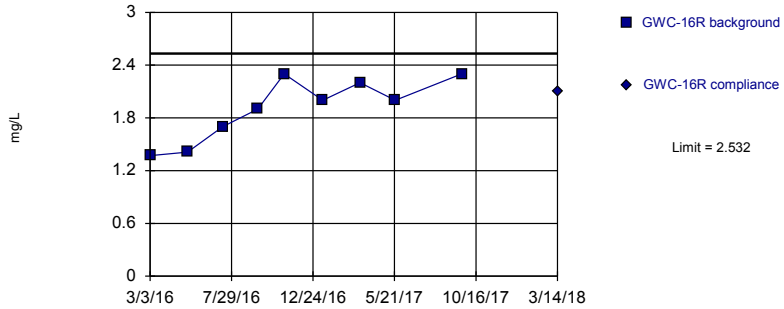
Constituent: Chloride Analysis Run 7/16/2018 10:32 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=1.909, Std. Dev.=0.3517, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9009, critical = 0.764. Kappa = 1.771 (c=3, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.001595.

Constituent: Chloride Analysis Run 7/16/2018 10:32 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Prediction Limit

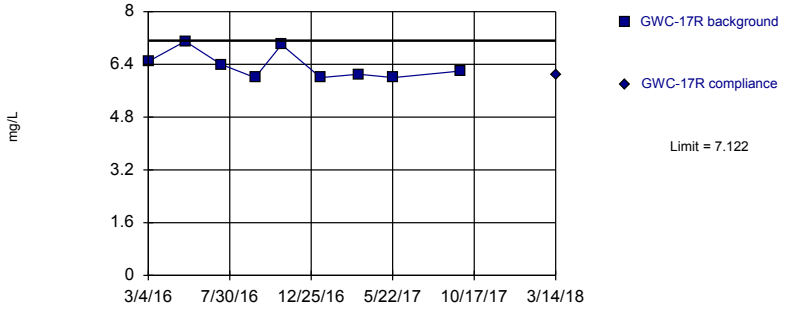
Constituent: Chloride Analysis Run 7/16/2018 10:50 AM View: Cells3&4_AppIII_intrawell
Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-55	GWA-55	GWA-55R	GWA-55R	GWA-56	GWA-56	GWC-16R	GWC-16R
3/2/2016	2.815							
3/3/2016			2.6912		8.0925		1.3707 (D)	
5/3/2016	3.27		2.7					
5/9/2016					2.99			
5/10/2016							1.41	
7/11/2016	3.2		2.7		4.4			
7/13/2016							1.7	
9/9/2016	3		2.5		5.6			
9/15/2016							1.9	
10/26/2016	2.9				6.5			
10/27/2016			3					
11/2/2016							2.3	
1/9/2017	2.9		3.1		6.7			
1/11/2017							2	
3/15/2017					7.8			
3/16/2017	2.9		2.7					
3/20/2017							2.2	
5/18/2017	2.9		3.2		7.1			
5/23/2017							2	
9/15/2017	3.2				8.4			
9/18/2017			3					
9/21/2017							2.3	
3/12/2018		3.6		3.2				
3/13/2018						6.9		
3/14/2018								2.1

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=6.366, Std. Dev.=0.4268, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8263, critical = 0.764. Kappa = 1.771 (c=3, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.001595.

Constituent: Chloride Analysis Run 7/16/2018 10:32 AM View: Cells3&4_AppIII_intrawell

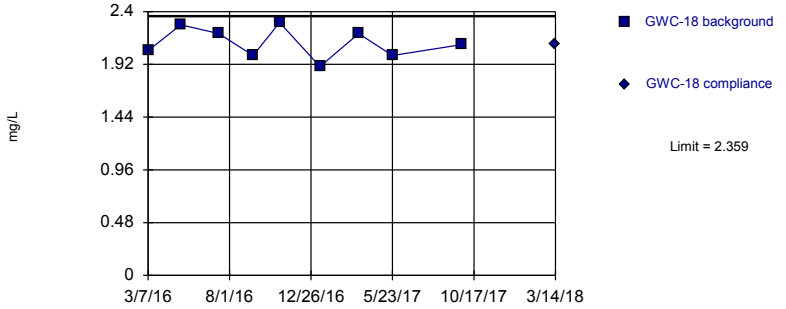
Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Sanitas™ v.9.5.32 Sanitas software licensed to AMEC. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=2.114, Std. Dev.=0.1386, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9421, critical = 0.764. Kappa = 1.771 (c=3, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.001595.

Constituent: Chloride Analysis Run 7/16/2018 10:32 AM View: Cells3&4_AppIII_intrawell

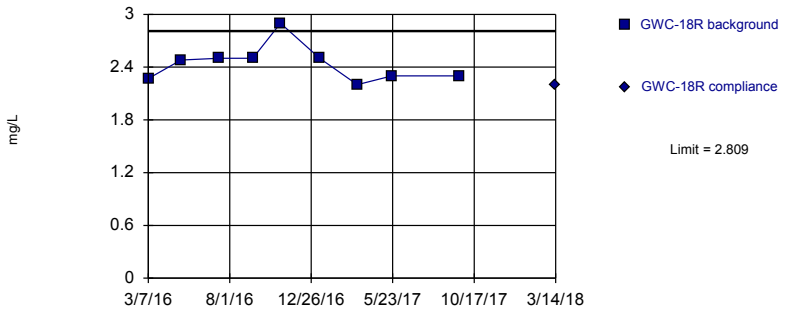
Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Sanitas™ v.9.5.32 Sanitas software licensed to AMEC. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=2.439, Std. Dev.=0.2091, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8502, critical = 0.764. Kappa = 1.771 (c=3, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.001595.

Constituent: Chloride Analysis Run 7/16/2018 10:32 AM View: Cells3&4_AppIII_intrawell

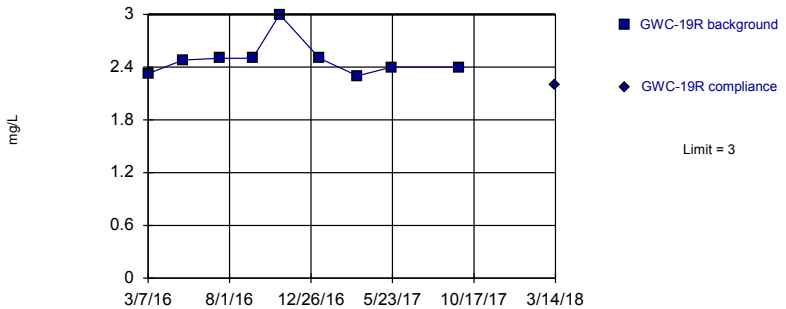
Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Sanitas™ v.9.5.32 Sanitas software licensed to AMEC. UG

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 9 background values. Well-constituent pair annual alpha = 0.009329. Individual comparison alpha = 0.004675 (1 of 3). Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Chloride Analysis Run 7/16/2018 10:32 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Prediction Limit

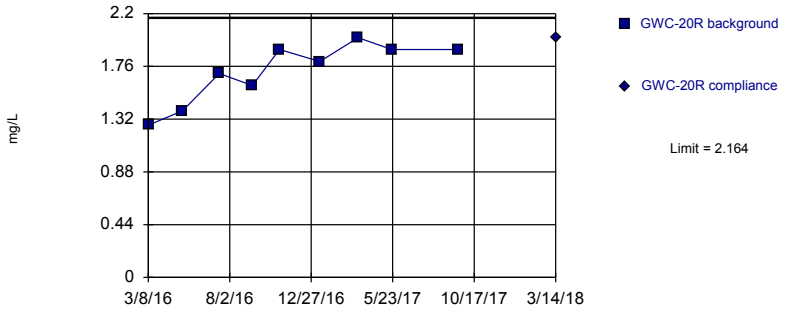
Constituent: Chloride Analysis Run 7/16/2018 10:50 AM View: Cells3&4_AppIII_intrawell
Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-17R	GWC-17R	GWC-18	GWC-18	GWC-18R	GWC-18R	GWC-19R	GWC-19R
3/4/2016	6.4905							
3/7/2016			2.0446		2.2698		2.3254	
5/5/2016			2.28		2.48			
5/9/2016							2.48	
5/10/2016	7.1							
7/13/2016			2.2		2.5			
7/14/2016	6.4						2.5	
9/12/2016					2.5		2.5	
9/13/2016			2					
9/14/2016	6							
10/31/2016			2.3				3	
11/1/2016	7				2.9			
1/11/2017	6				2.5		2.5	
1/12/2017			1.9					
3/20/2017					2.2			
3/21/2017	6.1						2.3	
3/23/2017			2.2					
5/22/2017					2.3		2.4	
5/23/2017	6		2					
9/20/2017							2.4	
9/21/2017					2.3			
9/22/2017	6.2							
9/25/2017			2.1					
3/14/2018		6.1		2.1		2.2		2.2

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=1.718, Std. Dev.=0.2521, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8926, critical = 0.764. Kappa = 1.771 (c=3, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.001595.

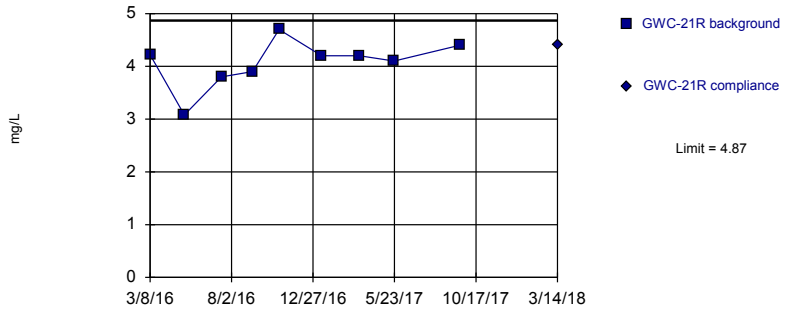
Constituent: Chloride Analysis Run 7/16/2018 10:32 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=4.066, Std. Dev.=0.4534, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9065, critical = 0.764. Kappa = 1.771 (c=3, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.001595.

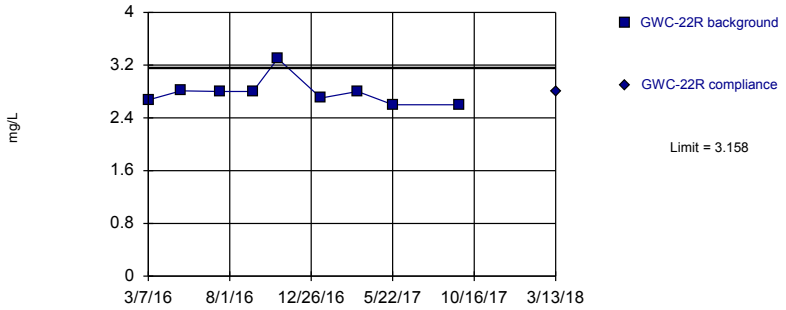
Constituent: Chloride Analysis Run 7/16/2018 10:33 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube root transformation): Mean=1.407, Std. Dev.=0.03418, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7652, critical = 0.764. Kappa = 1.771 (c=3, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.001595.

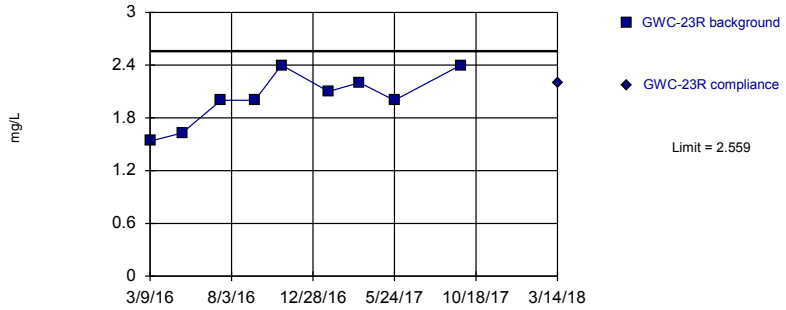
Constituent: Chloride Analysis Run 7/16/2018 10:33 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=2.029, Std. Dev.=0.299, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9129, critical = 0.764. Kappa = 1.771 (c=3, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.001595.

Constituent: Chloride Analysis Run 7/16/2018 10:33 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Prediction Limit

Constituent: Chloride Analysis Run 7/16/2018 10:50 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

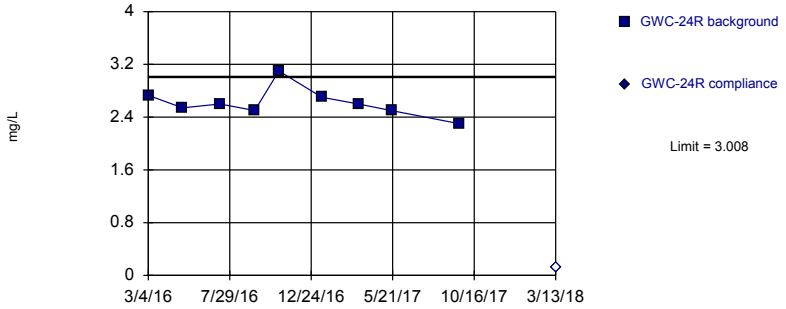
	GWC-20R	GWC-20R	GWC-21R	GWC-21R	GWC-22R	GWC-22R	GWC-23R	GWC-23R
3/7/2016					2.6729			
3/8/2016	1.2699		4.2184					
3/9/2016							1.5349	
5/5/2016					2.81			
5/6/2016							1.63	
5/9/2016	1.39		3.08					
7/14/2016	1.7				2.8			
7/15/2016			3.8				2	
9/9/2016			3.9					
9/12/2016	1.6				2.8			
9/14/2016							2	
10/27/2016			4.7		3.3			
10/31/2016	1.9							
11/1/2016							2.4	
1/12/2017	1.8		4.2					
1/13/2017					2.7			
1/25/2017							2.1	
3/20/2017					2.8			
3/21/2017			4.2					
3/22/2017	2						2.2	
5/22/2017	1.9							
5/23/2017			4.1		2.6			
5/24/2017							2	
9/19/2017	1.9		4.4		2.6			
9/21/2017							2.4	
3/13/2018						2.8		
3/14/2018		2		4.4				2.2

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=2.619, Std. Dev.=0.22, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.901, critical = 0.764. Kappa = 1.771 (c=3, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.001595.

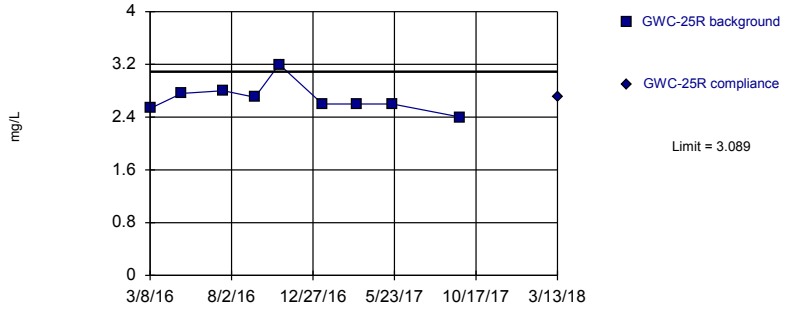
Constituent: Chloride Analysis Run 7/16/2018 10:33 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=2.688, Std. Dev.=0.2266, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8746, critical = 0.764. Kappa = 1.771 (c=3, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.001595.

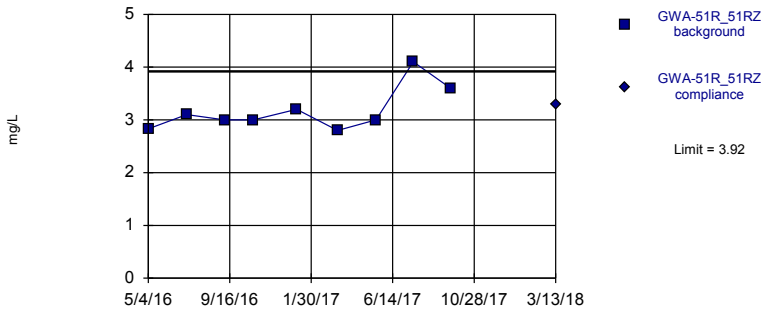
Constituent: Chloride Analysis Run 7/16/2018 10:33 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=3.181, Std. Dev.=0.4174, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8126, critical = 0.764. Kappa = 1.771 (c=3, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.001595.

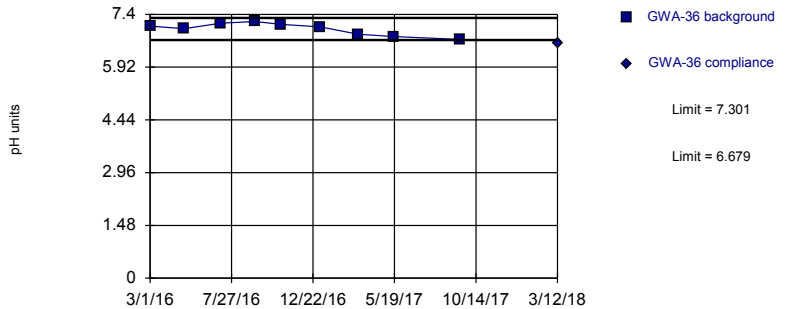
Constituent: Chloride Analysis Run 7/16/2018 10:33 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Exceeds Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=6.99, Std. Dev.=0.1759, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9173, critical = 0.764. Kappa = 1.771 (c=3, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.001595.

Constituent: pH Analysis Run 7/16/2018 10:33 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Prediction Limit

Constituent: Chloride, pH Analysis Run 7/16/2018 10:50 AM View: Cells3&4_AppIII_intrawell

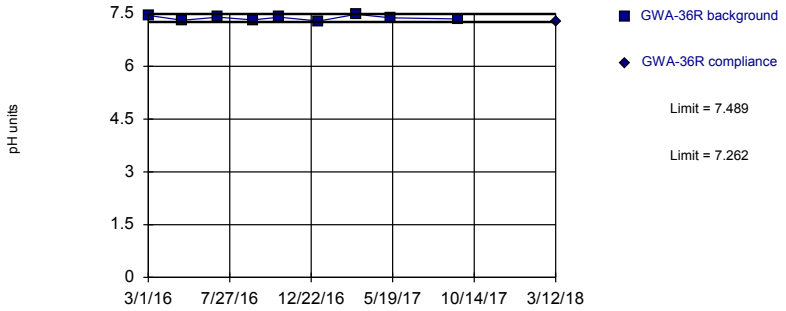
Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-24R	GWC-24R	GWC-25R	GWC-25R	GWA-51R_51RZ	GWA-51R_51RZ	GWA-36	GWA-36
3/1/2016							7.07	
3/4/2016	2.7291							
3/8/2016			2.5307					
5/2/2016							7	
5/4/2016			2.76		2.83 (D)			
5/5/2016	2.54							
7/7/2016					3.1 (D)		7.15	
7/12/2016	2.6							
7/18/2016			2.8					
9/7/2016							7.2	
9/8/2016					3 (D)			
9/13/2016	2.5		2.7					
10/25/2016							7.12	
10/26/2016					3 (D)			
10/27/2016	3.1		3.2					
1/5/2017							7.05	
1/6/2017					3.2 (D)			
1/13/2017	2.7		2.6					
3/15/2017					2.8 (D)		6.84	
3/16/2017			2.6					
3/20/2017	2.6							
5/17/2017							6.78	
5/18/2017					3 (D)			
5/19/2017	2.5		2.6					
7/19/2017					4.1 (D)			
9/15/2017							6.7	
9/19/2017	2.3		2.4		3.6 (D)			
3/12/2018								6.6
3/13/2018		<0.25		2.7		3.3		

Exceeds Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=7.376, Std. Dev.=0.06425, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9577, critical = 0.764. Kappa = 1.771 (c=3, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.001595.

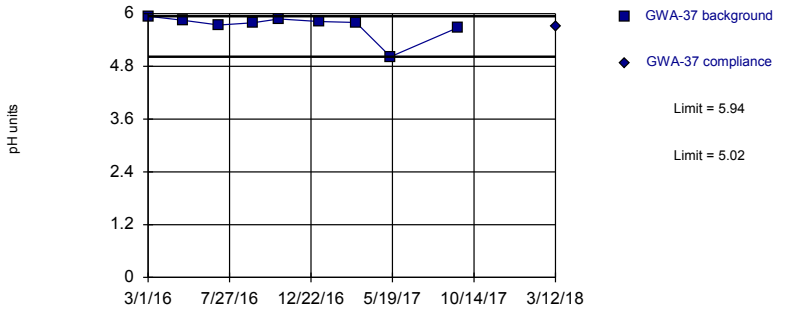
Constituent: pH Analysis Run 7/16/2018 10:33 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Within Limits

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. Limits are highest and lowest of 9 background values. Well-constituent pair annual alpha = 0.01866. Individual comparison alpha = 0.009351 (1 of 3). Insufficient data to test for seasonality: data were not deseasonalized.

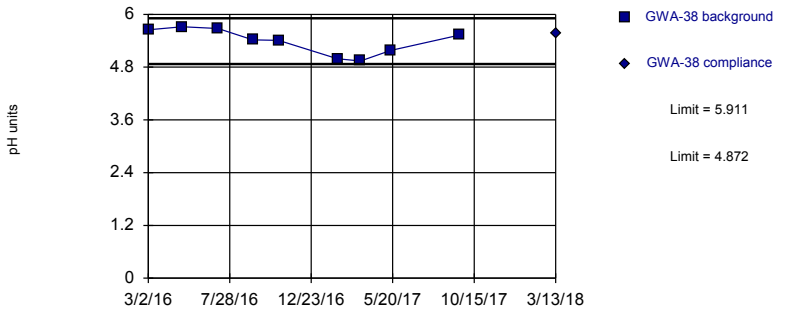
Constituent: pH Analysis Run 7/16/2018 10:33 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=5.391, Std. Dev.=0.2933, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9009, critical = 0.764. Kappa = 1.771 (c=3, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.001595.

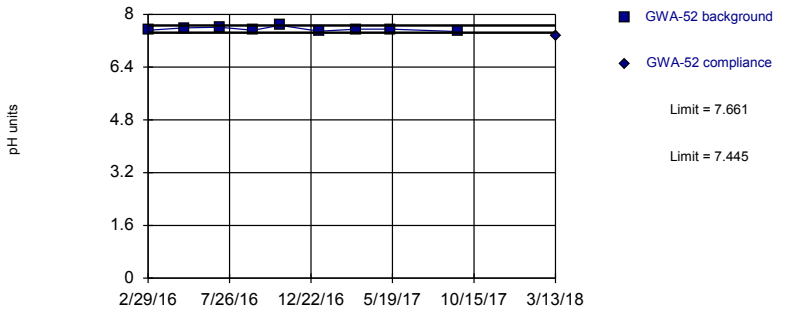
Constituent: pH Analysis Run 7/16/2018 10:33 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Exceeds Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=7.553, Std. Dev.=0.06103, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9412, critical = 0.764. Kappa = 1.771 (c=3, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.001595.

Constituent: pH Analysis Run 7/16/2018 10:33 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Prediction Limit

Constituent: pH Analysis Run 7/16/2018 10:50 AM View: Cells3&4_AppIII_intrawell

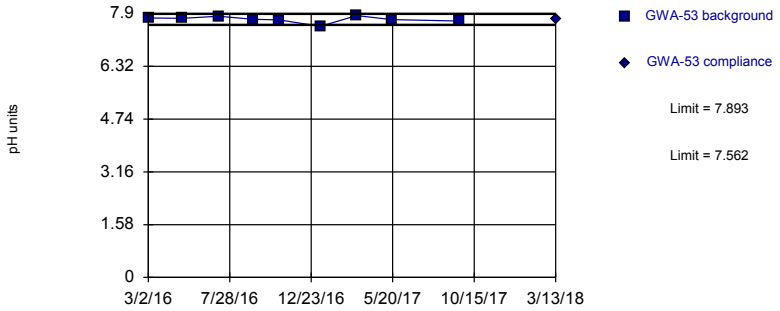
Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-36R	GWA-36R	GWA-37	GWA-37	GWA-38	GWA-38	GWA-52	GWA-52
2/29/2016							7.52	
3/1/2016	7.45		5.94 (D)					
3/2/2016					5.65			
5/2/2016	7.31							
5/3/2016			5.85		5.72			
5/4/2016							7.59	
7/6/2016	7.4							
7/7/2016					5.68			
7/8/2016			5.74				7.61	
9/7/2016	7.32		5.79					
9/8/2016					5.42		7.52	
10/25/2016	7.4		5.88		5.41			
10/26/2016							7.67	
1/5/2017	7.29							
1/6/2017			5.82				7.49	
2/9/2017					4.99			
3/14/2017	7.48		5.8					
3/15/2017							7.55	
3/23/2017					4.94			
5/16/2017	7.38		5.02					
5/17/2017					5.18		7.55	
9/15/2017	7.35		5.68				7.48	
9/19/2017					5.53			
3/12/2018		7.26		5.72				
3/13/2018						5.57		7.34

Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=7.728, Std. Dev.=0.09338, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8922, critical = 0.764. Kappa = 1.771 (c=3, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.001595.

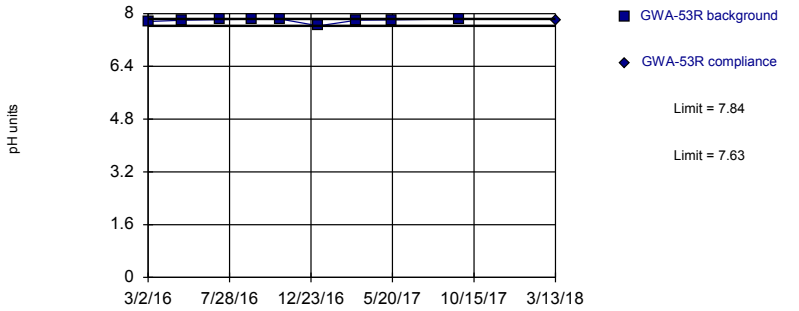
Constituent: pH Analysis Run 7/16/2018 10:33 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Within Limits

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. Limits are highest and lowest of 9 background values. Well-constituent pair annual alpha = 0.01866. Individual comparison alpha = 0.009351 (1 of 3). Insufficient data to test for seasonality: data were not deseasonalized.

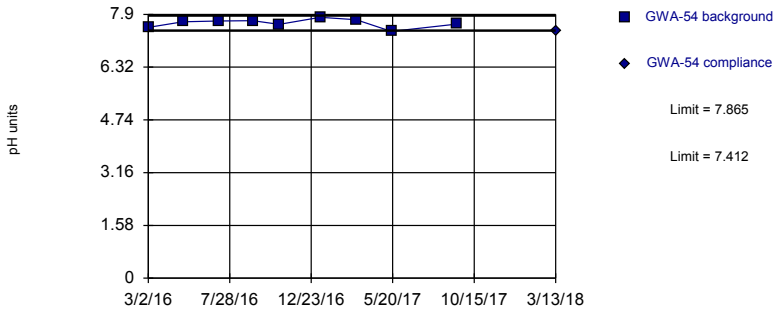
Constituent: pH Analysis Run 7/16/2018 10:33 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Exceeds Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=7.639, Std. Dev.=0.1279, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9475, critical = 0.764. Kappa = 1.771 (c=3, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.001595.

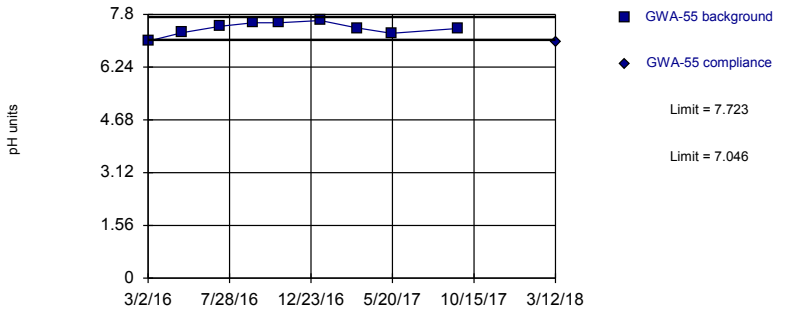
Constituent: pH Analysis Run 7/16/2018 10:33 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Exceeds Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=7.384, Std. Dev.=0.1909, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.941, critical = 0.764. Kappa = 1.771 (c=3, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.001595.

Constituent: pH Analysis Run 7/16/2018 10:33 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Prediction Limit

Constituent: pH Analysis Run 7/16/2018 10:50 AM View: Cells3&4_AppIII_intrawell

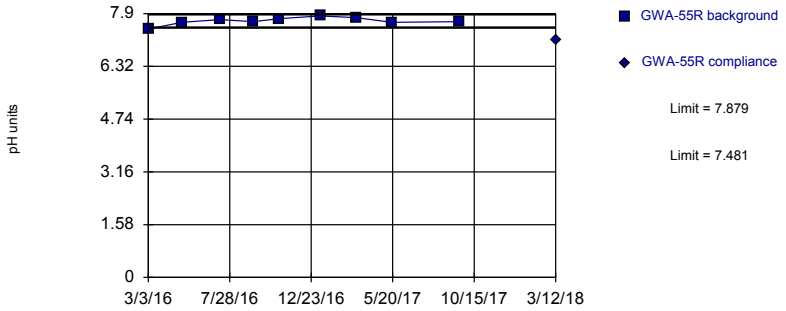
Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-53	GWA-53	GWA-53R	GWA-53R	GWA-54	GWA-54	GWA-55	GWA-55
3/2/2016	7.77 (D)		7.76		7.51		7.01	
5/3/2016	7.76		7.8				7.26	
5/4/2016					7.68			
7/8/2016	7.82				7.7			
7/11/2016			7.82				7.45	
9/7/2016			7.83					
9/8/2016	7.73				7.71			
9/9/2016							7.55	
10/26/2016	7.71				7.6		7.55	
10/27/2016			7.84					
1/6/2017			7.63					
1/9/2017	7.52				7.81		7.62	
3/15/2017					7.74			
3/16/2017	7.84		7.8				7.4	
5/18/2017					7.39		7.24	
5/19/2017	7.72		7.81					
9/15/2017					7.61		7.38	
9/19/2017	7.68		7.84					
3/12/2018								7
3/13/2018		7.74		7.8		7.39		

Exceeds Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=7.68, Std. Dev.=0.1121, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9094, critical = 0.764. Kappa = 1.771 (c=3, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.001595.

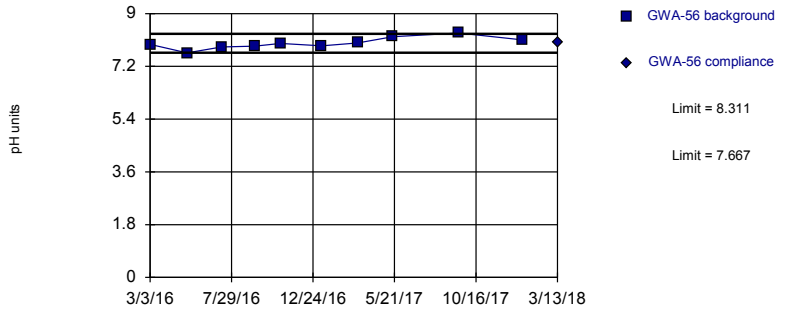
Constituent: pH Analysis Run 7/16/2018 10:34 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=7.989, Std. Dev.=0.1911, n=10. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9672, critical = 0.781. Kappa = 1.683 (c=3, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.001595.

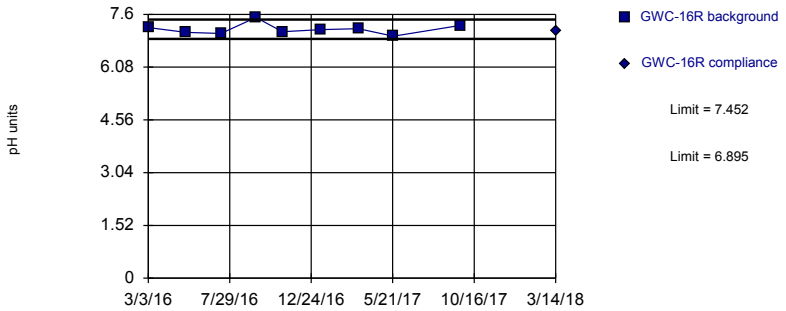
Constituent: pH Analysis Run 7/16/2018 10:34 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=7.173, Std. Dev.=0.1573, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9284, critical = 0.764. Kappa = 1.771 (c=3, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.001595.

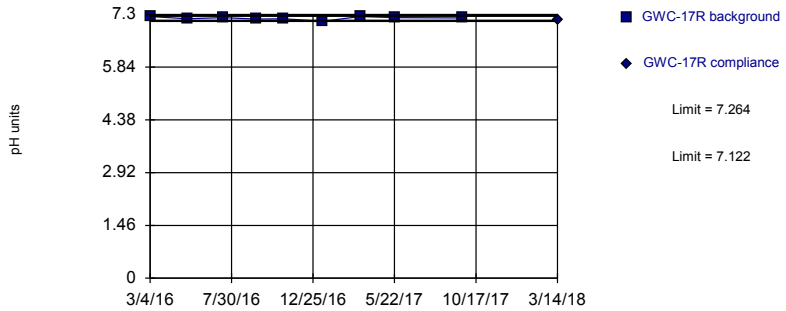
Constituent: pH Analysis Run 7/16/2018 10:34 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=7.193, Std. Dev.=0.04, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9116, critical = 0.764. Kappa = 1.771 (c=3, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.001595.

Constituent: pH Analysis Run 7/16/2018 10:34 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Prediction Limit

Constituent: pH Analysis Run 7/16/2018 10:50 AM View: Cells3&4_AppIII_intrawell

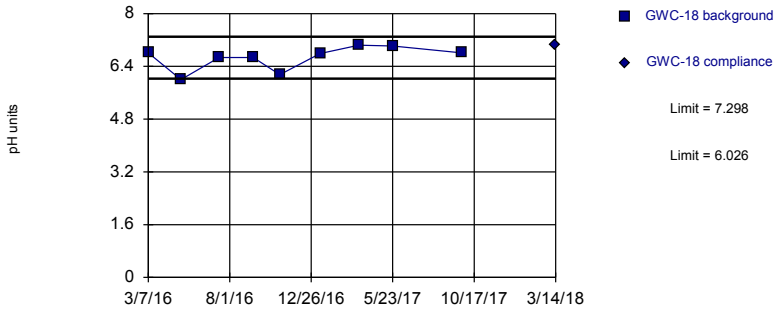
Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-55R	GWA-55R	GWA-56	GWA-56	GWC-16R	GWC-16R	GWC-17R	GWC-17R
3/3/2016	7.44		7.95 (D)		7.22 (D)			
3/4/2016							7.24	
5/3/2016	7.64							
5/9/2016			7.66					
5/10/2016					7.08		7.18	
7/11/2016	7.72		7.86					
7/13/2016					7.05			
7/14/2016							7.21	
9/9/2016	7.66		7.89					
9/13/2016							7.17	
9/15/2016					7.51			
10/26/2016			7.98					
10/27/2016	7.75							
11/1/2016							7.18	
11/2/2016					7.1			
1/9/2017	7.83		7.9					
1/11/2017					7.16		7.11	
3/15/2017			8					
3/16/2017	7.78							
3/20/2017					7.19			
3/21/2017							7.24	
5/18/2017	7.64		8.21					
5/23/2017					6.97		7.21	
9/15/2017			8.34					
9/18/2017	7.66							
9/21/2017					7.28			
9/22/2017							7.2	
1/9/2018			8.1 (Y)					
3/12/2018		7.11						
3/13/2018				8.03				
3/14/2018						7.11		7.16

Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=6.662, Std. Dev.=0.3591, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8482, critical = 0.764. Kappa = 1.771 (c=3, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.001595.

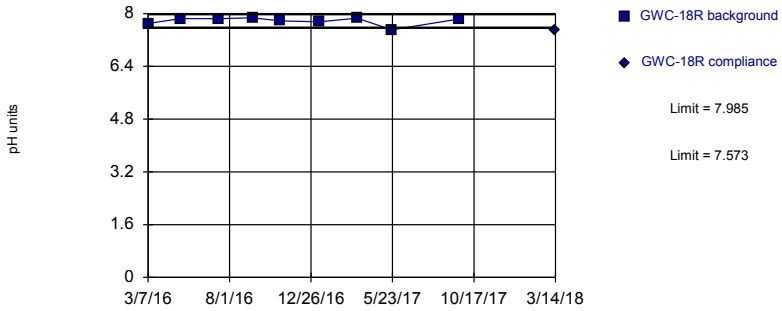
Constituent: pH Analysis Run 7/16/2018 10:34 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Exceeds Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=7.779, Std. Dev.=0.1162, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7795, critical = 0.764. Kappa = 1.771 (c=3, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.001595.

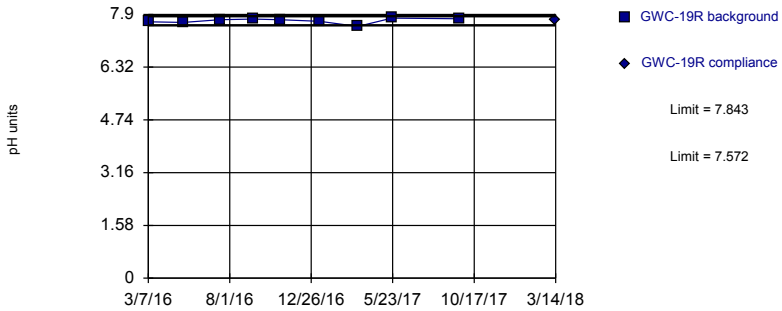
Constituent: pH Analysis Run 7/16/2018 10:34 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=7.708, Std. Dev.=0.07661, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8813, critical = 0.764. Kappa = 1.771 (c=3, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.001595.

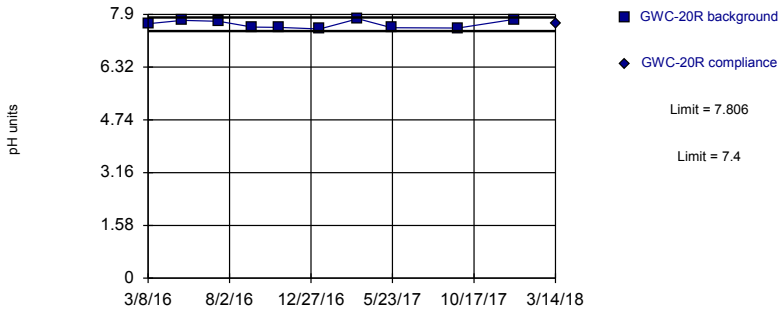
Constituent: pH Analysis Run 7/16/2018 10:34 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=7.603, Std. Dev.=0.1204, n=10. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8688, critical = 0.781. Kappa = 1.683 (c=3, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.001595.

Constituent: pH Analysis Run 7/16/2018 10:34 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Prediction Limit

Constituent: pH Analysis Run 7/16/2018 10:50 AM View: Cells3&4_AppIII_intrawell

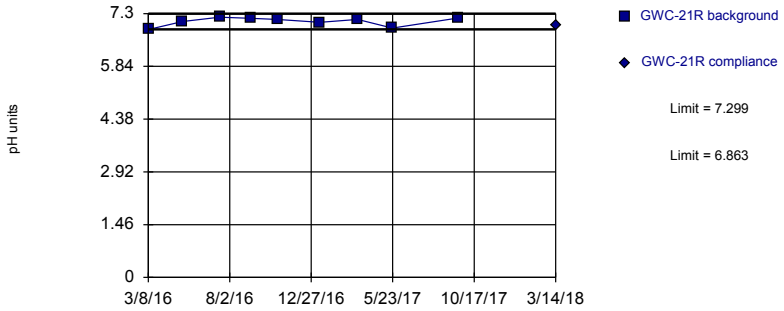
Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-18	GWC-18	GWC-18R	GWC-18R	GWC-19R	GWC-19R	GWC-20R	GWC-20R
3/7/2016	6.81		7.7		7.68			
3/8/2016							7.62	
5/5/2016	6		7.85					
5/9/2016					7.66		7.72	
7/13/2016	6.67		7.85					
7/14/2016					7.74		7.69	
9/12/2016			7.87		7.76		7.52	
9/13/2016	6.67							
10/31/2016	6.15				7.74		7.51	
11/1/2016			7.78					
1/11/2017			7.75		7.69			
1/12/2017	6.79						7.46	
3/20/2017			7.86					
3/21/2017					7.54			
3/22/2017							7.77	
3/23/2017	7.04							
5/22/2017			7.51		7.79		7.5	
5/23/2017	7.02							
9/19/2017							7.49	
9/20/2017					7.77			
9/21/2017			7.84					
9/25/2017	6.81							
12/29/2017							7.75 (Y)	
3/14/2018		7.06		7.51		7.74		7.62

Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=7.081, Std. Dev.=0.1229, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8388, critical = 0.764. Kappa = 1.771 (c=3, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.001595.

Constituent: pH Analysis Run 7/16/2018 10:34 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

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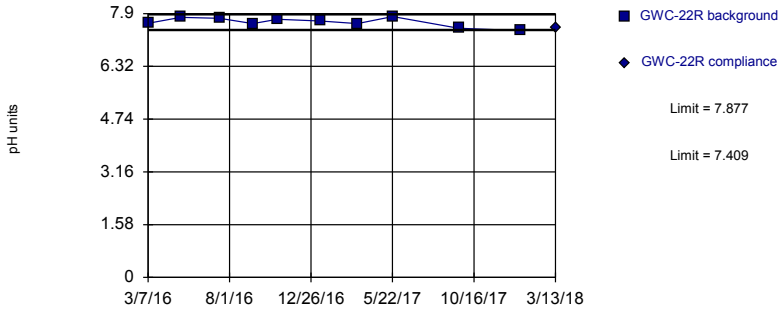
Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=7.643, Std. Dev.=0.1392, n=10. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9294, critical = 0.781. Kappa = 1.683 (c=3, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.001595.

Constituent: pH Analysis Run 7/16/2018 10:34 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

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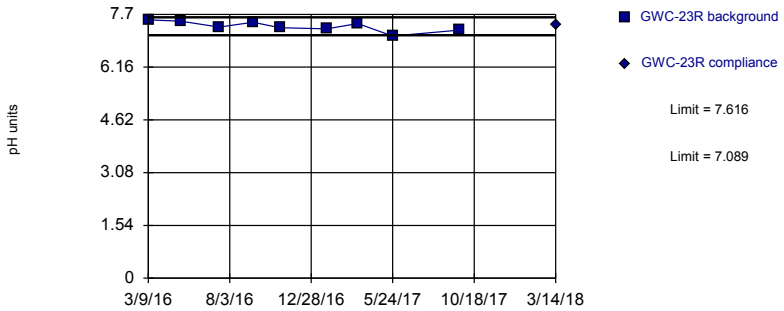
Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=7.352, Std. Dev.=0.1486, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.951, critical = 0.764. Kappa = 1.771 (c=3, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.001595.

Constituent: pH Analysis Run 7/16/2018 10:34 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

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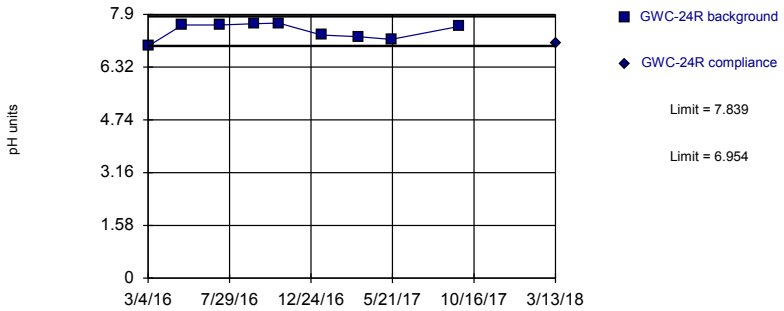
Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=7.397, Std. Dev.=0.2496, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8639, critical = 0.764. Kappa = 1.771 (c=3, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.001595.

Constituent: pH Analysis Run 7/16/2018 10:34 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Prediction Limit

Constituent: pH Analysis Run 7/16/2018 10:50 AM View: Cells3&4_AppIII_intrawell

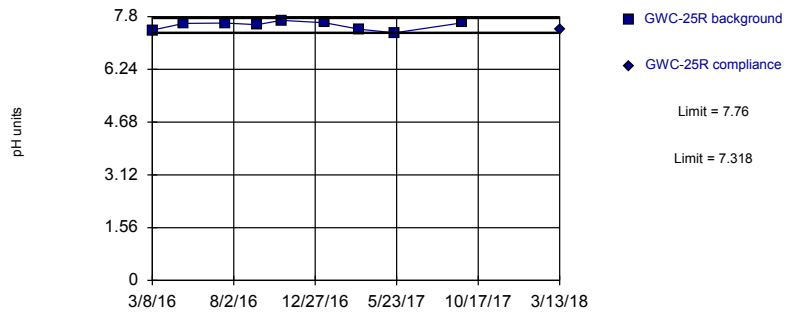
Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-21R	GWC-21R	GWC-22R	GWC-22R	GWC-23R	GWC-23R	GWC-24R	GWC-24R
3/4/2016							6.95	
3/7/2016			7.61					
3/8/2016	6.86							
3/9/2016					7.54			
5/5/2016			7.79				7.58	
5/6/2016					7.5			
5/9/2016	7.08							
7/12/2016							7.58	
7/14/2016			7.76					
7/15/2016	7.2				7.33			
9/9/2016	7.17							
9/12/2016			7.6					
9/13/2016							7.62	
9/14/2016					7.47			
10/27/2016	7.14		7.73				7.64	
11/1/2016					7.31			
1/12/2017	7.06							
1/13/2017			7.68				7.28	
1/25/2017					7.28			
3/20/2017			7.6				7.23	
3/21/2017	7.14							
3/22/2017					7.43			
5/19/2017							7.15	
5/23/2017	6.9		7.81					
5/24/2017					7.07			
9/19/2017	7.18		7.46				7.54	
9/21/2017					7.24			
1/9/2018			7.39 (Y)					
3/13/2018				7.49				7.02
3/14/2018		6.99				7.4		

Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=7.539, Std. Dev.=0.1246, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8842, critical = 0.764. Kappa = 1.771 (c=3, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.001595.

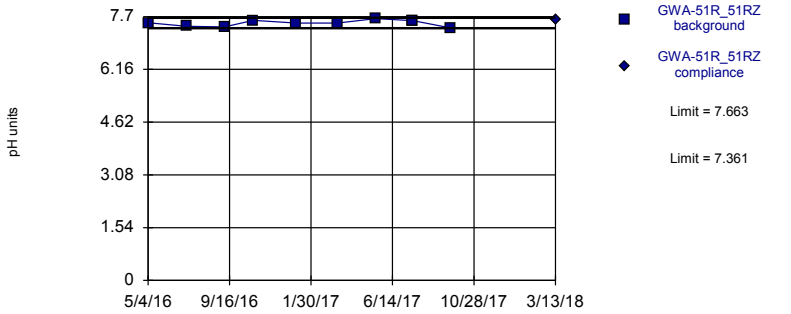
Constituent: pH Analysis Run 7/16/2018 10:34 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=7.512, Std. Dev.=0.09004, n=10. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9316, critical = 0.781. Kappa = 1.683 (c=3, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.001595.

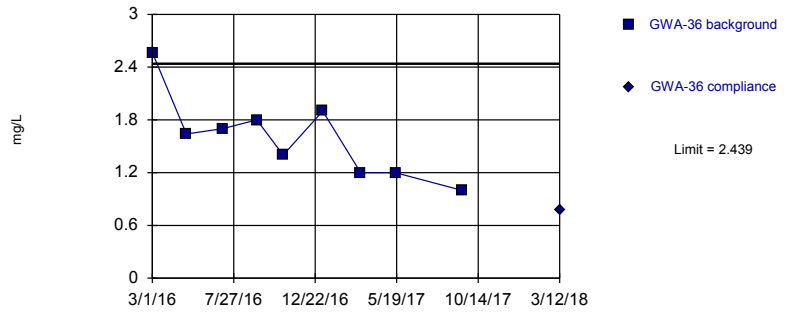
Constituent: pH Analysis Run 7/16/2018 10:34 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=1.601, Std. Dev.=0.4735, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9361, critical = 0.764. Kappa = 1.771 (c=3, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.001595.

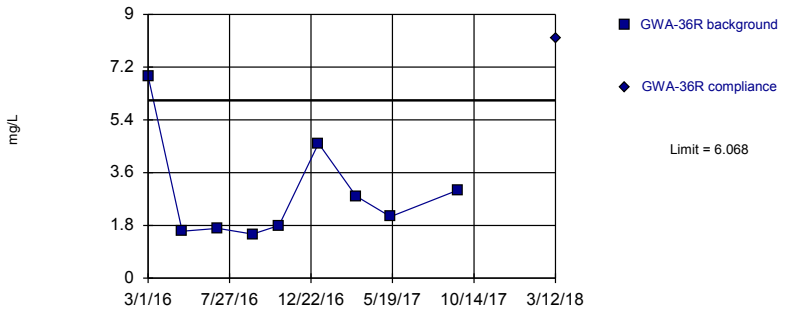
Constituent: Sulfate Analysis Run 7/16/2018 10:34 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=2.888, Std. Dev.=1.796, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7852, critical = 0.764. Kappa = 1.771 (c=3, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.001595.

Constituent: Sulfate Analysis Run 7/16/2018 10:34 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Prediction Limit

Constituent: pH, Sulfate Analysis Run 7/16/2018 10:50 AM View: Cells3&4_AppIII_intrawell

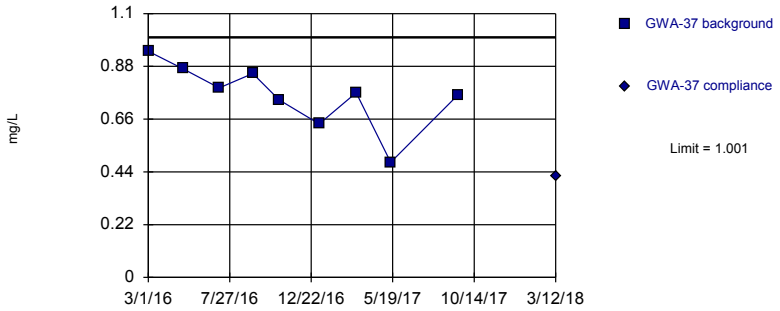
Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-25R	GWC-25R	GWA-51R_51RZ	GWA-51R_51RZ	GWA-36	GWA-36	GWA-36R	GWA-36R
3/1/2016					2.5655		6.8929	
3/8/2016	7.4							
5/2/2016					1.64		1.6	
5/4/2016	7.6		7.52 (D)					
7/6/2016							1.7	
7/7/2016			7.42 (D)		1.7			
7/18/2016	7.61							
9/7/2016					1.8		1.5	
9/8/2016			7.4 (D)					
9/13/2016	7.56							
10/25/2016					1.4		1.8	
10/26/2016			7.59 (D)					
10/27/2016	7.69							
1/5/2017					1.9 (J)		4.6	
1/6/2017			7.51 (D)					
1/13/2017	7.62							
3/14/2017							2.8	
3/15/2017			7.51 (D)		1.2			
3/16/2017	7.43							
5/16/2017							2.1	
5/17/2017					1.2			
5/18/2017			7.64 (D)					
5/19/2017	7.32							
7/18/2017			7.58					
7/19/2017			7.58 (D)					
9/15/2017					1		3	
9/19/2017	7.62		7.37 (D)					
3/12/2018						0.77 (J)		8.2
3/13/2018		7.43		7.62				

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.7603, Std. Dev.=0.1359, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9346, critical = 0.764. Kappa = 1.771 (c=3, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.001595.

Constituent: Sulfate Analysis Run 7/16/2018 10:35 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

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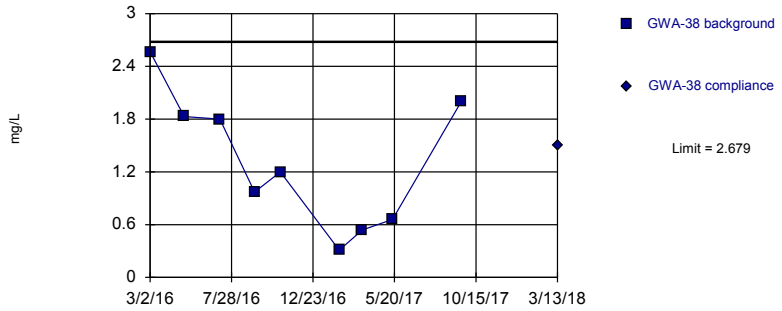
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=1.32, Std. Dev.=0.7672, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9476, critical = 0.764. Kappa = 1.771 (c=3, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.001595.

Constituent: Sulfate Analysis Run 7/16/2018 10:35 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

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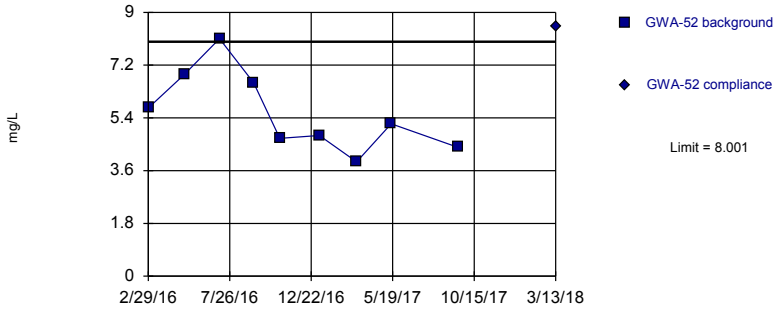
Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=5.59, Std. Dev.=1.361, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9431, critical = 0.764. Kappa = 1.771 (c=3, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.001595.

Constituent: Sulfate Analysis Run 7/16/2018 10:35 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

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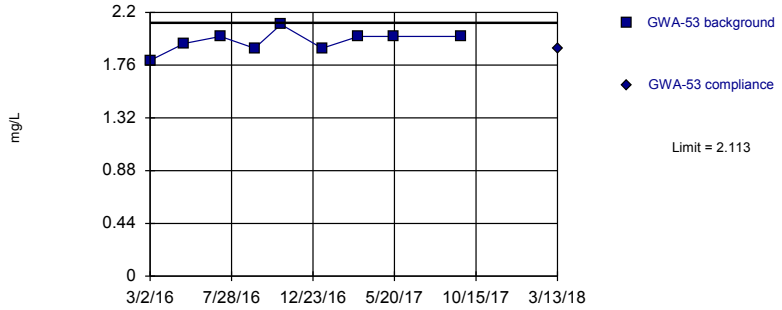
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=1.96, Std. Dev.=0.08626, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9287, critical = 0.764. Kappa = 1.771 (c=3, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.001595.

Constituent: Sulfate Analysis Run 7/16/2018 10:35 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Prediction Limit

Constituent: Sulfate Analysis Run 7/16/2018 10:50 AM View: Cells3&4_AppIII_intrawell

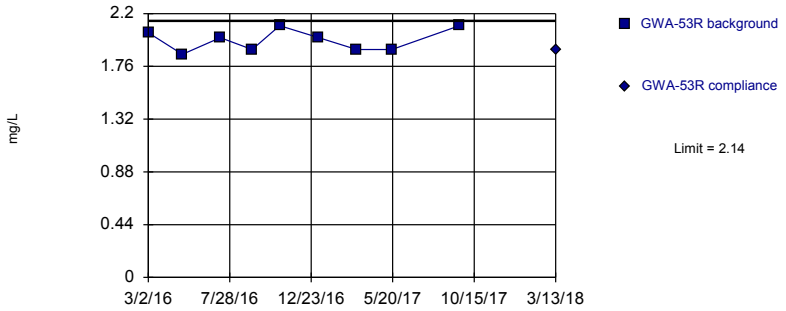
Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-37	GWA-37	GWA-38	GWA-38	GWA-52	GWA-52	GWA-53	GWA-53
2/29/2016					5.7396			
3/1/2016	0.9427 (J)							
3/2/2016			2.5669				1.799	
5/3/2016	0.87 (J)		1.83				1.94	
5/4/2016					6.87			
7/7/2016			1.8					
7/8/2016	0.79 (J)				8.1		2	
9/7/2016	0.85 (J)							
9/8/2016			0.97 (J)		6.6		1.9	
10/25/2016	0.74 (J)		1.2					
10/26/2016					4.7		2.1	
1/6/2017	0.64 (J)				4.8			
1/9/2017							1.9	
2/9/2017			0.31 (J)					
3/14/2017	0.77 (J)							
3/15/2017					3.9			
3/16/2017							2	
3/23/2017			0.54 (J)					
5/16/2017	0.48 (J)							
5/17/2017			0.66 (J)		5.2			
5/19/2017							2	
9/15/2017	0.76 (J)				4.4			
9/19/2017			2				2	
3/12/2018		0.42 (J)						
3/13/2018				1.5		8.5		1.9

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=1.978, Std. Dev.=0.09141, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8868, critical = 0.764. Kappa = 1.771 (c=3, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.001595.

Constituent: Sulfate Analysis Run 7/16/2018 10:35 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

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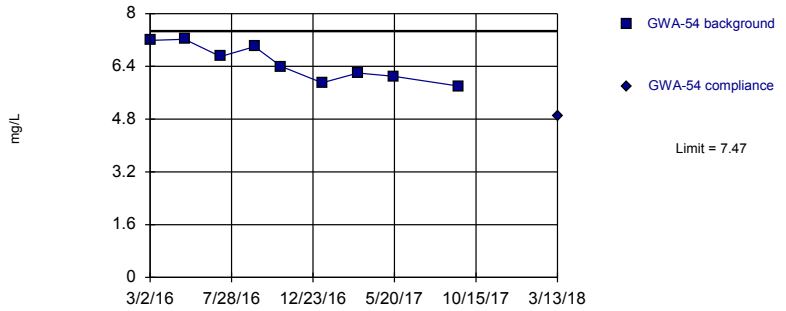
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=6.501, Std. Dev.=0.547, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9146, critical = 0.764. Kappa = 1.771 (c=3, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.001595.

Constituent: Sulfate Analysis Run 7/16/2018 10:35 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

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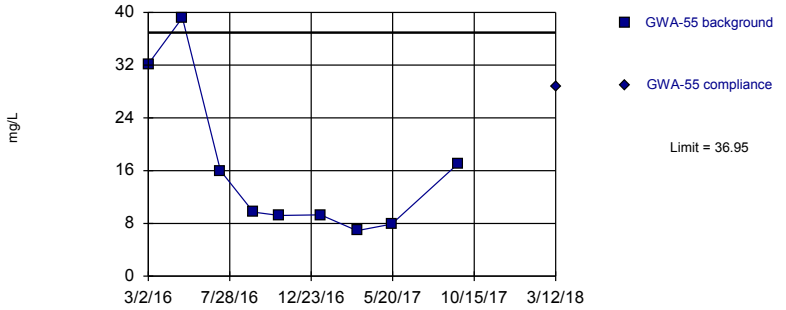
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=16.38, Std. Dev.=11.61, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7832, critical = 0.764. Kappa = 1.771 (c=3, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.001595.

Constituent: Sulfate Analysis Run 7/16/2018 10:35 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

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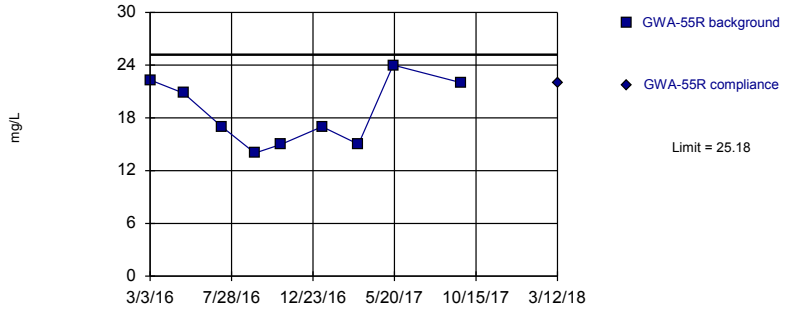
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=18.57, Std. Dev.=3.734, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8972, critical = 0.764. Kappa = 1.771 (c=3, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.001595.

Constituent: Sulfate Analysis Run 7/16/2018 10:35 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Prediction Limit

Constituent: Sulfate Analysis Run 7/16/2018 10:51 AM View: Cells3&4_AppIII_intrawell

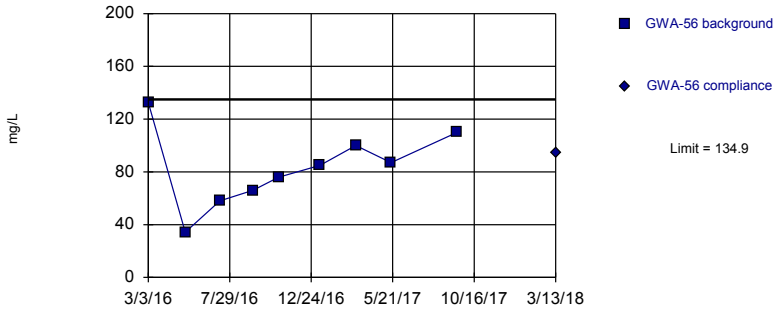
Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-53R	GWA-53R	GWA-54	GWA-54	GWA-55	GWA-55	GWA-55R	GWA-55R
3/2/2016	2.0407		7.1892		32.178			
3/3/2016							22.316	
5/3/2016	1.86				39.2		20.8	
5/4/2016			7.22					
7/8/2016			6.7					
7/11/2016	2				16		17	
9/7/2016	1.9							
9/8/2016			7					
9/9/2016					9.7		14	
10/26/2016			6.4		9.2			
10/27/2016	2.1						15	
1/6/2017	2							
1/9/2017			5.9		9.3		17	
3/15/2017			6.2					
3/16/2017	1.9				6.9		15	
5/18/2017			6.1		7.9		24	
5/19/2017	1.9							
9/15/2017			5.8		17			
9/18/2017							22	
9/19/2017	2.1							
3/12/2018						28.7		22
3/13/2018		1.9		4.9				

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=83.2, Std. Dev.=29.2, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9964, critical = 0.764. Kappa = 1.771 (c=3, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.001595.

Constituent: Sulfate Analysis Run 7/16/2018 10:35 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

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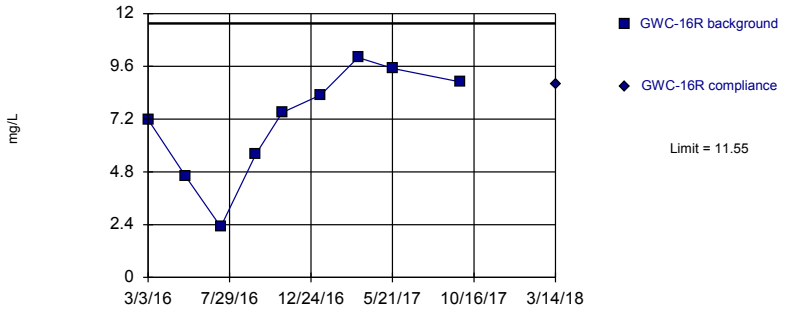
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=7.098, Std. Dev.=2.514, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9366, critical = 0.764. Kappa = 1.771 (c=3, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.001595.

Constituent: Sulfate Analysis Run 7/16/2018 10:35 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

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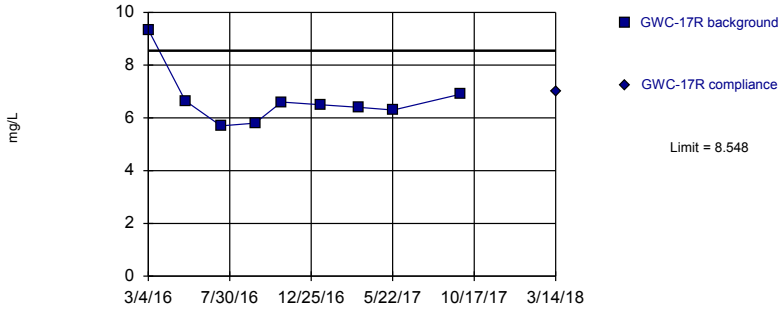
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube root transformation): Mean=1.88, Std. Dev.=0.09303, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7737, critical = 0.764. Kappa = 1.771 (c=3, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.001595.

Constituent: Sulfate Analysis Run 7/16/2018 10:35 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

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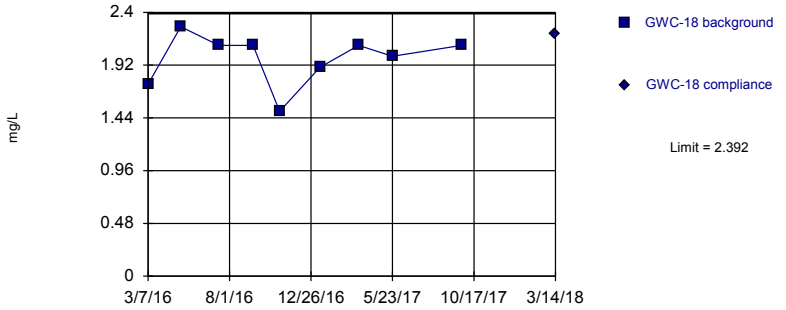
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=1.98, Std. Dev.=0.2327, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8785, critical = 0.764. Kappa = 1.771 (c=3, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.001595.

Constituent: Sulfate Analysis Run 7/16/2018 10:35 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Prediction Limit

Constituent: Sulfate Analysis Run 7/16/2018 10:51 AM View: Cells3&4_AppIII_intrawell

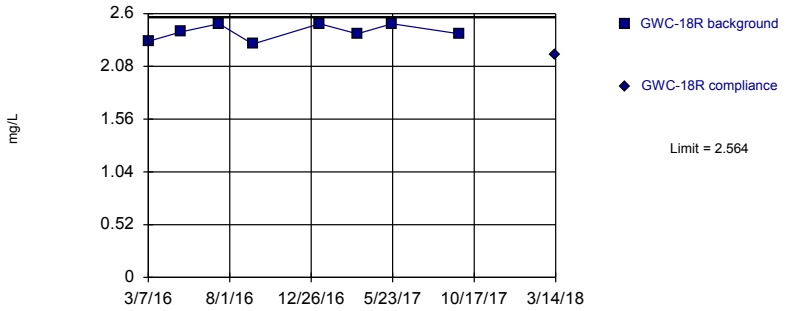
Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-56	GWA-56	GWC-16R	GWC-16R	GWC-17R	GWC-17R	GWC-18	GWC-18
3/3/2016	132.4615		7.1809 (D)					
3/4/2016					9.3417			
3/7/2016							1.7468	
5/5/2016							2.27	
5/9/2016	34.3							
5/10/2016			4.6		6.65			
7/11/2016	58							
7/13/2016			2.3				2.1	
7/14/2016					5.7			
9/9/2016	66							
9/13/2016							2.1	
9/14/2016					5.8			
9/15/2016			5.6					
10/26/2016	76							
10/31/2016							1.5	
11/1/2016					6.6			
11/2/2016			7.5					
1/9/2017	85							
1/11/2017			8.3		6.5			
1/12/2017							1.9	
3/15/2017	100							
3/20/2017			10					
3/21/2017					6.4			
3/23/2017							2.1	
5/18/2017	87							
5/23/2017			9.5		6.3		2	
9/15/2017	110							
9/21/2017			8.9					
9/22/2017					6.9			
9/25/2017							2.1	
3/13/2018		94.8						
3/14/2018				8.8		7		2.2

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=2.418, Std. Dev.=0.0786, n=8. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8766, critical = 0.749. Kappa = 1.86 (c=3, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.001595.

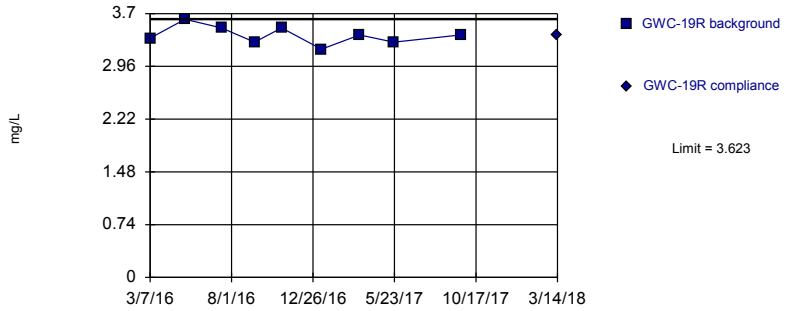
Constituent: Sulfate Analysis Run 7/16/2018 10:35 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=3.397, Std. Dev.=0.1276, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9721, critical = 0.764. Kappa = 1.771 (c=3, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.001595.

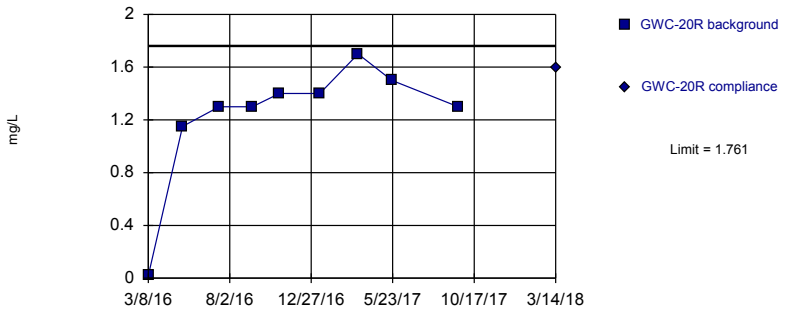
Constituent: Sulfate Analysis Run 7/16/2018 10:35 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square transformation): Mean=1.717, Std. Dev.=0.7812, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8871, critical = 0.764. Kappa = 1.771 (c=3, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.001595.

Constituent: Sulfate Analysis Run 7/16/2018 10:35 AM View: Cells3&4_AppIII_intrawell

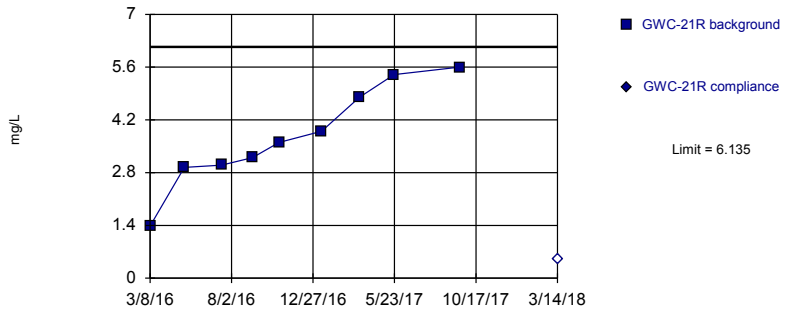
Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=3.758, Std. Dev.=1.342, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9512, critical = 0.764. Kappa = 1.771 (c=3, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.001595.

Constituent: Sulfate Analysis Run 7/16/2018 10:35 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Prediction Limit

Constituent: Sulfate Analysis Run 7/16/2018 10:51 AM View: Cells3&4_AppIII_intrawell

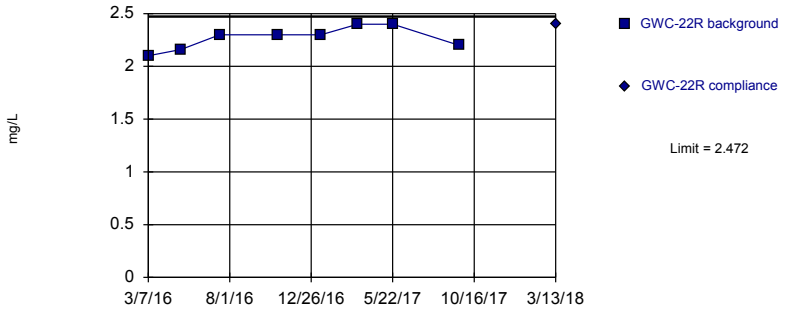
Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-18R	GWC-18R	GWC-19R	GWC-19R	GWC-20R	GWC-20R	GWC-21R	GWC-21R
3/7/2016	2.3258		3.3556					
3/8/2016					0.0196 (J)		1.3858	
5/5/2016	2.42							
5/9/2016			3.62		1.15		2.94	
7/13/2016	2.5							
7/14/2016			3.5		1.3			
7/15/2016							3	
9/9/2016							3.2	
9/12/2016	2.3		3.3		1.3			
10/27/2016							3.6	
10/31/2016			3.5		1.4			
1/11/2017	2.5		3.2					
1/12/2017					1.4		3.9	
3/20/2017	2.4							
3/21/2017			3.4				4.8	
3/22/2017					1.7			
5/22/2017	2.5		3.3		1.5			
5/23/2017							5.4	
9/19/2017					1.3		5.6	
9/20/2017			3.4					
9/21/2017	2.4							
3/14/2018		2.2		3.4		1.6		<1

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=2.27, Std. Dev.=0.1083, n=8. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9171, critical = 0.749. Kappa = 1.86 (c=3, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.001595.

Constituent: Sulfate Analysis Run 7/16/2018 10:36 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

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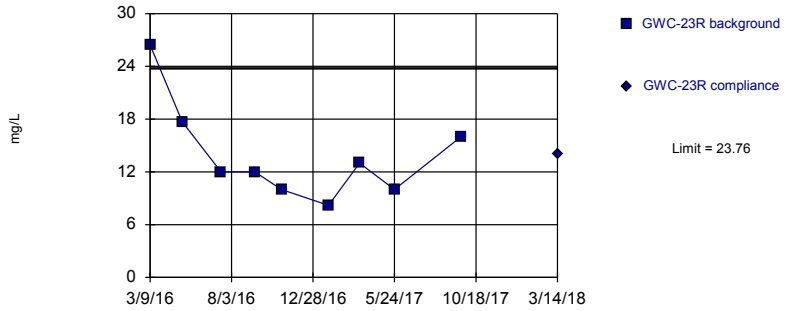
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=13.93, Std. Dev.=5.555, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8533, critical = 0.764. Kappa = 1.771 (c=3, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.001595.

Constituent: Sulfate Analysis Run 7/16/2018 10:36 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

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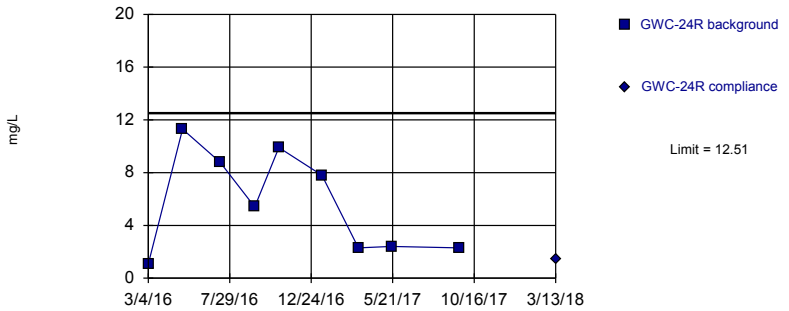
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=5.698, Std. Dev.=3.848, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8918, critical = 0.764. Kappa = 1.771 (c=3, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.001595.

Constituent: Sulfate Analysis Run 7/16/2018 10:36 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

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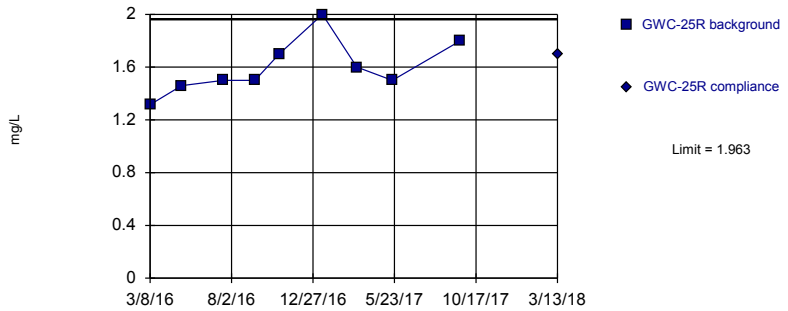
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=1.597, Std. Dev.=0.2063, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9286, critical = 0.764. Kappa = 1.771 (c=3, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.001595.

Constituent: Sulfate Analysis Run 7/16/2018 10:36 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Prediction Limit

Constituent: Sulfate Analysis Run 7/16/2018 10:51 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-22R	GWC-22R	GWC-23R	GWC-23R	GWC-24R	GWC-24R	GWC-25R	GWC-25R
3/4/2016					1.0816			
3/7/2016	2.1008							
3/8/2016							1.3157	
3/9/2016			26.4322					
5/4/2016							1.46	
5/5/2016	2.16				11.3			
5/6/2016			17.7					
7/12/2016					8.8			
7/14/2016	2.3							
7/15/2016			12					
7/18/2016							1.5	
9/13/2016					5.4		1.5	
9/14/2016			12					
10/27/2016	2.3				9.9		1.7	
11/1/2016			10					
1/13/2017	2.3				7.8		2	
1/25/2017			8.2					
3/16/2017							1.6	
3/20/2017	2.4				2.3			
3/22/2017			13					
5/19/2017					2.4		1.5	
5/23/2017	2.4							
5/24/2017			10					
9/19/2017	2.2				2.3		1.8	
9/21/2017			16					
3/13/2018		2.4				1.4		1.7
3/14/2018				14				

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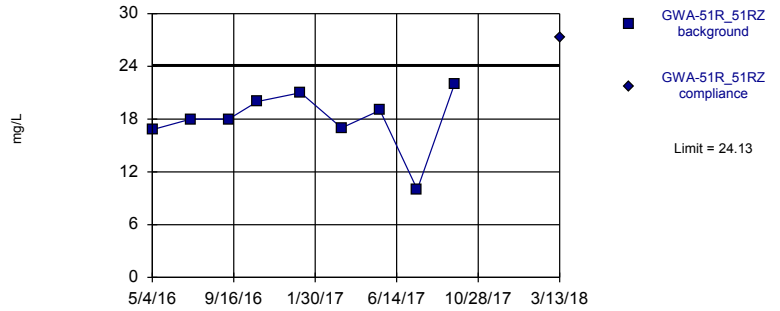
Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=17.98, Std. Dev.=3.472, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8617, critical = 0.764. Kappa = 1.771 (c=3, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.001595.

Constituent: Sulfate Analysis Run 7/16/2018 10:36 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

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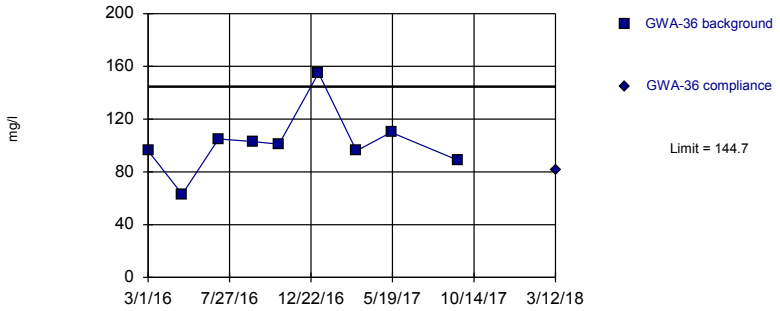
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=102, Std. Dev.=24.1, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8658, critical = 0.764. Kappa = 1.771 (c=3, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.001595.

Constituent: Total Dissolved Solids Analysis Run 7/16/2018 10:36 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

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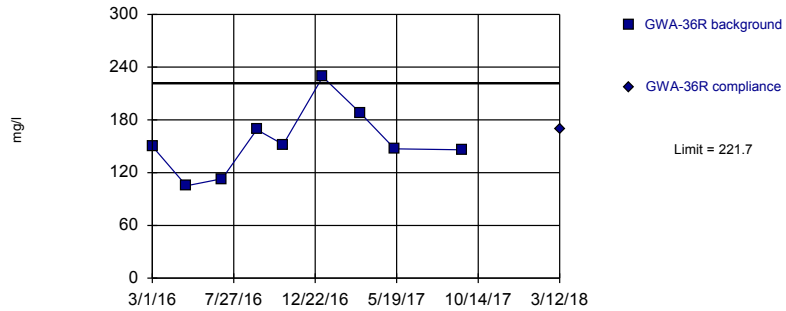
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=155.4, Std. Dev.=37.42, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9353, critical = 0.764. Kappa = 1.771 (c=3, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.001595.

Constituent: Total Dissolved Solids Analysis Run 7/16/2018 10:36 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

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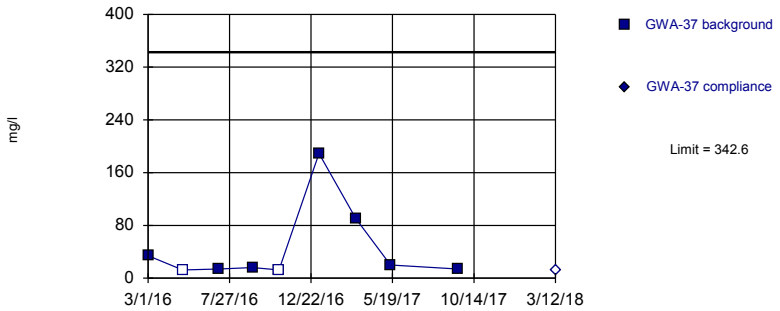
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation) (after Aitchison`s Adjustment): Mean=2.702, Std. Dev.=1.77, n=9, 22.22% NDs. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7795, critical = 0.764. Kappa = 1.771 (c=3, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.001595.

Constituent: Total Dissolved Solids Analysis Run 7/16/2018 10:36 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Prediction Limit

Constituent: Sulfate, Total Dissolved Solids Analysis Run 7/16/2018 10:51 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

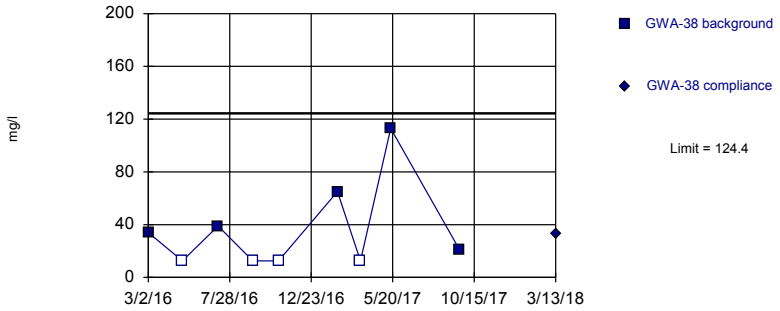
	GWA-51R_51RZ	GWA-51R_51RZ	GWA-36	GWA-36	GWA-36R	GWA-36R	GWA-37	GWA-37
3/1/2016			96 (D)		150 (D)		34 (D)	
5/2/2016			63 (D)		105 (D)			
5/3/2016							<25 (D)	
5/4/2016	16.8 (D)							
7/6/2016					113 (D)			
7/7/2016	18 (D)		105 (D)					
7/8/2016							14 (JD)	
9/7/2016			103 (D)		169 (D)		16 (JD)	
9/8/2016	18 (D)							
10/25/2016			101 (D)		152 (D)		<25 (D)	
10/26/2016	20 (D)							
1/5/2017			155		229			
1/6/2017	21 (D)						189	
3/14/2017					188		90	
3/15/2017	17 (D)		96					
5/16/2017					147		20 (J)	
5/17/2017			110					
5/18/2017	19 (D)							
7/19/2017	10 (D)							
9/15/2017			89		146		14 (J)	
9/19/2017	22 (D)							
3/12/2018				81		169		<25
3/13/2018		27.3						

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square root transformation) (after Aitchison`s Adjustment): Mean=3.928, Std. Dev.=4.08, n=9, 44.44% NDs. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8217, critical = 0.764. Kappa = 1.771 (c=3, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.001595.

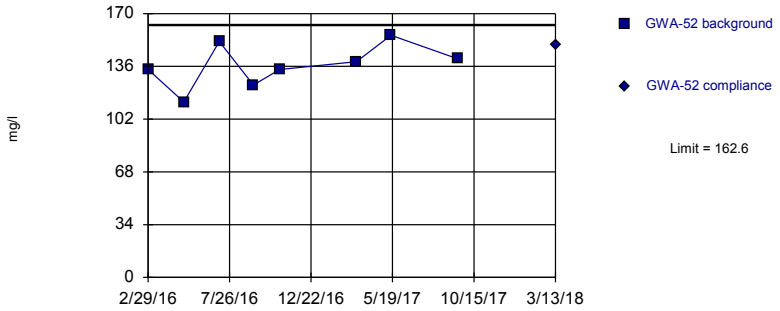
Constituent: Total Dissolved Solids Analysis Run 7/16/2018 10:36 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=136.6, Std. Dev.=13.98, n=8. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9677, critical = 0.749. Kappa = 1.86 (c=3, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.001595.

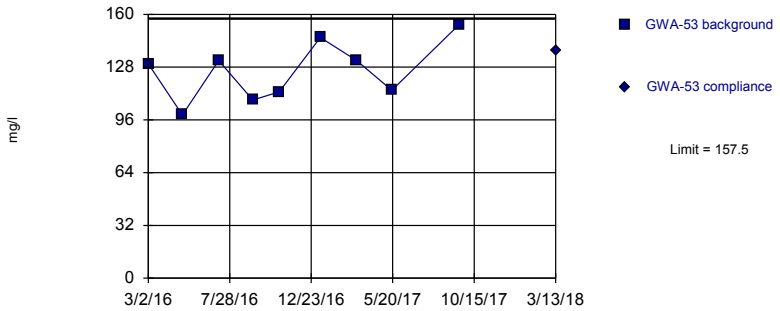
Constituent: Total Dissolved Solids Analysis Run 7/16/2018 10:36 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=125.3, Std. Dev.=18.15, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9556, critical = 0.764. Kappa = 1.771 (c=3, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.001595.

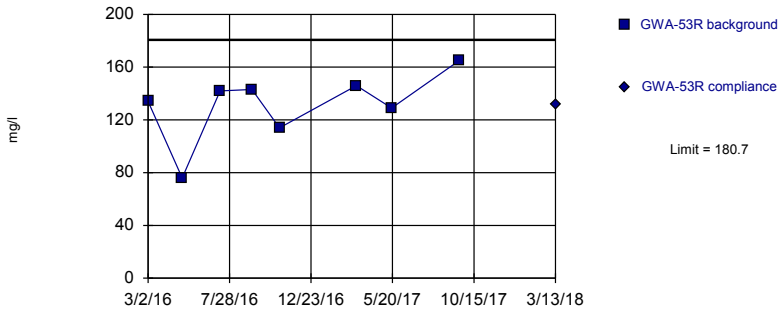
Constituent: Total Dissolved Solids Analysis Run 7/16/2018 10:36 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=131.1, Std. Dev.=26.65, n=8. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8994, critical = 0.749. Kappa = 1.86 (c=3, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.001595.

Constituent: Total Dissolved Solids Analysis Run 7/16/2018 10:36 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Prediction Limit

Constituent: Total Dissolved Solids Analysis Run 7/16/2018 10:51 AM View: Cells3&4_AppIII_intrawell

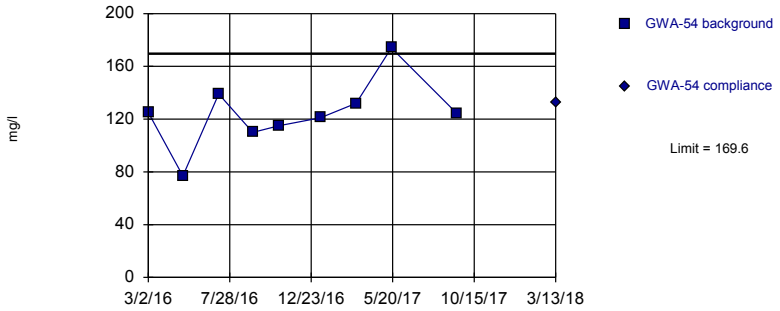
Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-38	GWA-38	GWA-52	GWA-52	GWA-53	GWA-53	GWA-53R	GWA-53R
2/29/2016			134 (D)					
3/2/2016	34 (D)				130 (D)		134 (D)	
5/3/2016	<25 (D)				99 (D)		76 (D)	
5/4/2016			113 (D)					
7/7/2016	39 (D)							
7/8/2016			152 (D)		132 (D)			
7/11/2016							142 (D)	
9/7/2016							143 (D)	
9/8/2016	<25 (D)		124 (D)		108 (D)			
10/25/2016	<25 (D)							
10/26/2016			134 (D)		113 (D)			
10/27/2016							114 (D)	
1/9/2017					146			
2/9/2017	65							
3/15/2017			139					
3/16/2017					132		146	
3/23/2017	<25							
5/17/2017	113		156					
5/19/2017					114		129	
9/15/2017			141					
9/19/2017	21 (J)				154		165	
3/13/2018		33		150		138		132

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=124.1, Std. Dev.=25.7, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9341, critical = 0.764. Kappa = 1.771 (c=3, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.001595.

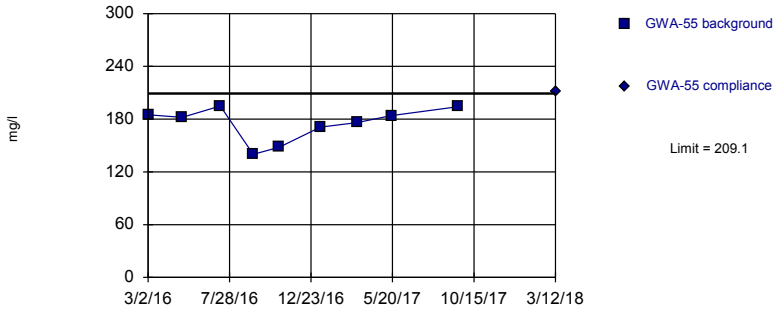
Constituent: Total Dissolved Solids Analysis Run 7/16/2018 10:36 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=175, Std. Dev.=19.24, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8723, critical = 0.764. Kappa = 1.771 (c=3, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.001595.

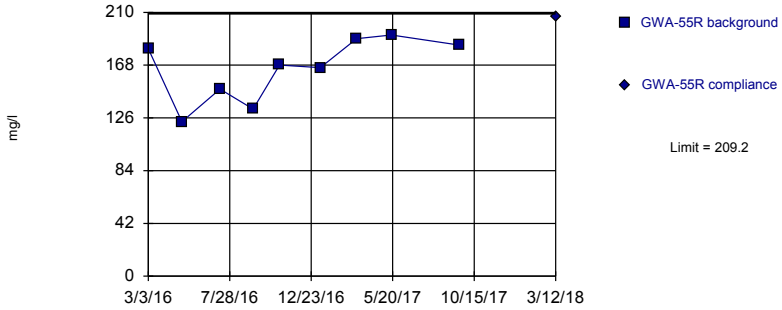
Constituent: Total Dissolved Solids Analysis Run 7/16/2018 10:36 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=165, Std. Dev.=24.94, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9056, critical = 0.764. Kappa = 1.771 (c=3, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.001595.

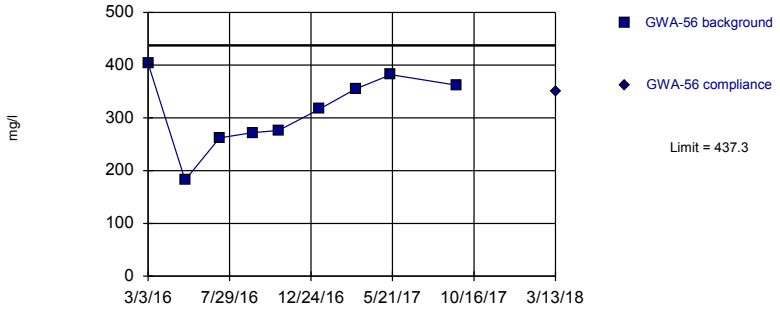
Constituent: Total Dissolved Solids Analysis Run 7/16/2018 10:36 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=312.3, Std. Dev.=70.58, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9475, critical = 0.764. Kappa = 1.771 (c=3, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.001595.

Constituent: Total Dissolved Solids Analysis Run 7/16/2018 10:36 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Prediction Limit

Constituent: Total Dissolved Solids Analysis Run 7/16/2018 10:51 AM View: Cells3&4_AppIII_intrawell

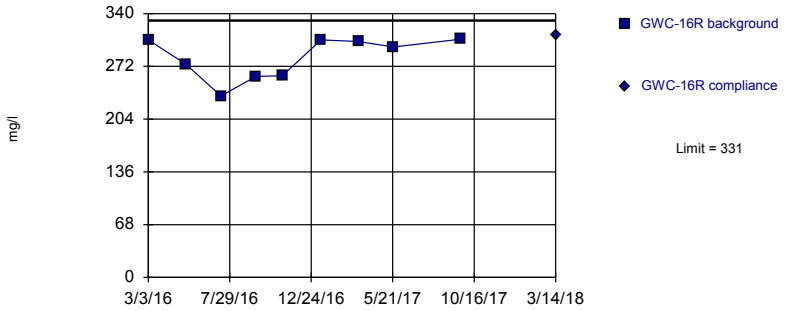
Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-54	GWA-54	GWA-55	GWA-55	GWA-55R	GWA-55R	GWA-56	GWA-56
3/2/2016	125 (D)		185 (D)					
3/3/2016					181 (D)		403 (D)	
5/3/2016			182 (D)		123 (D)			
5/4/2016	77 (D)							
5/9/2016							182 (D)	
7/8/2016	139 (D)							
7/11/2016			195 (D)		149 (D)		262 (D)	
9/8/2016	110 (D)							
9/9/2016			140 (D)		133 (D)		272 (D)	
10/26/2016	115 (D)		148 (D)				276 (D)	
10/27/2016					168 (D)			
1/9/2017	121		171		166		317	
3/15/2017	132						355	
3/16/2017			176		189			
5/18/2017	174		184		192		382	
9/15/2017	124		194				362	
9/18/2017					184			
3/12/2018				212		207		
3/13/2018		133						349

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=283.1, Std. Dev.=27.02, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8405, critical = 0.764. Kappa = 1.771 (c=3, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.001595.

Constituent: Total Dissolved Solids Analysis Run 7/16/2018 10:37 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

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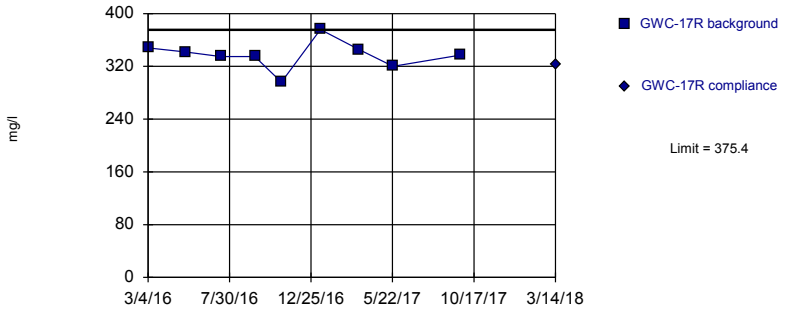
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=337.2, Std. Dev.=21.58, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9351, critical = 0.764. Kappa = 1.771 (c=3, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.001595.

Constituent: Total Dissolved Solids Analysis Run 7/16/2018 10:37 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

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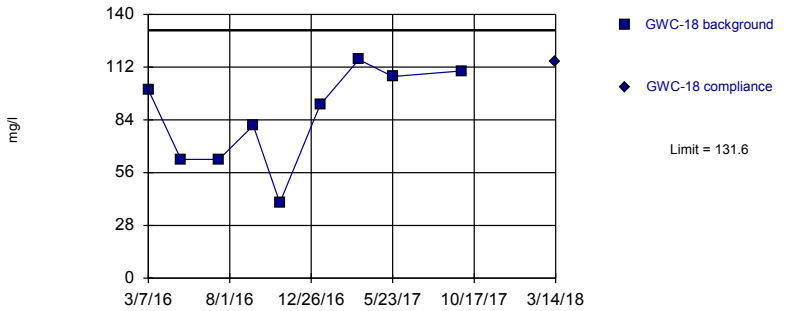
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=85.78, Std. Dev.=25.85, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9292, critical = 0.764. Kappa = 1.771 (c=3, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.001595.

Constituent: Total Dissolved Solids Analysis Run 7/16/2018 10:37 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

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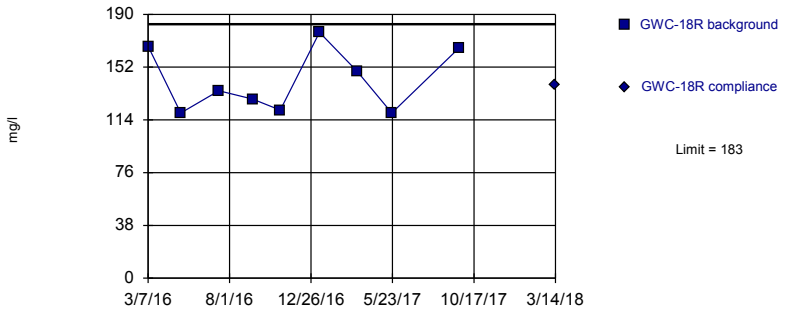
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=142.4, Std. Dev.=22.89, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8737, critical = 0.764. Kappa = 1.771 (c=3, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.001595.

Constituent: Total Dissolved Solids Analysis Run 7/16/2018 10:37 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Prediction Limit

Constituent: Total Dissolved Solids Analysis Run 7/16/2018 10:51 AM View: Cells3&4_AppIII_intrawell

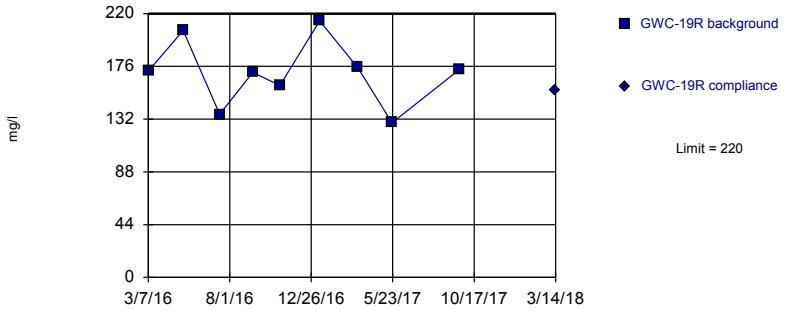
Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-16R	GWC-16R	GWC-17R	GWC-17R	GWC-18	GWC-18	GWC-18R	GWC-18R
3/3/2016	306 (D)							
3/4/2016			348 (D)					
3/7/2016					100 (D)		167 (D)	
5/5/2016					63 (D)		119 (D)	
5/10/2016	275 (D)		342 (D)					
7/13/2016	234 (D)				63 (D)		135 (D)	
7/14/2016			335 (D)					
9/12/2016							129 (D)	
9/13/2016					81 (D)			
9/14/2016			335 (D)					
9/15/2016	259 (D)							
10/31/2016					40 (D)			
11/1/2016			296 (D)				121 (D)	
11/2/2016	260 (D)							
1/11/2017	306		376				177	
1/12/2017					92			
3/20/2017	304						149	
3/21/2017			346					
3/23/2017					116			
5/22/2017							119	
5/23/2017	297		320		107			
9/21/2017	307						166	
9/22/2017			337					
9/25/2017					110			
3/14/2018		312		323		115		139

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=170.7, Std. Dev.=27.85, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9288, critical = 0.764. Kappa = 1.771 (c=3, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.001595.

Constituent: Total Dissolved Solids Analysis Run 7/16/2018 10:37 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

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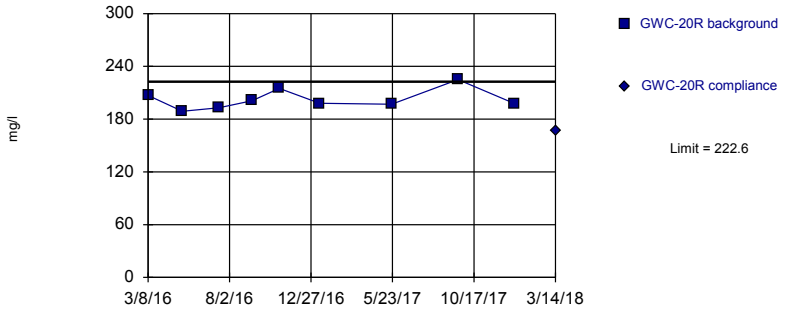
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=202.6, Std. Dev.=11.34, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9103, critical = 0.764. Kappa = 1.771 (c=3, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.001595.

Constituent: Total Dissolved Solids Analysis Run 7/16/2018 10:37 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

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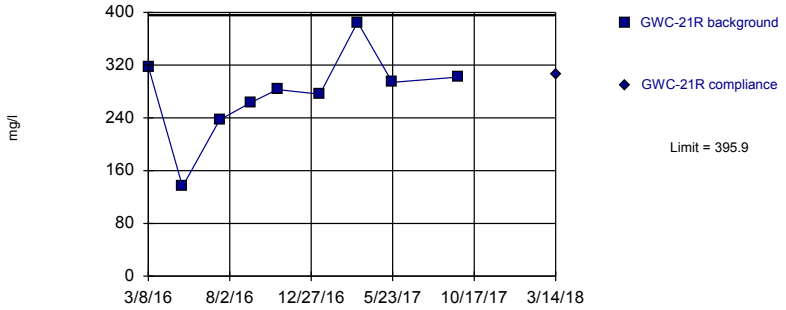
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=277.1, Std. Dev.=67.06, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9238, critical = 0.764. Kappa = 1.771 (c=3, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.001595.

Constituent: Total Dissolved Solids Analysis Run 7/16/2018 10:37 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

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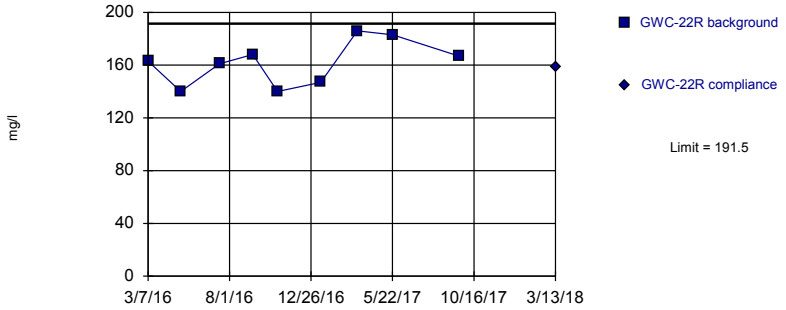
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=161.7, Std. Dev.=16.85, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9213, critical = 0.764. Kappa = 1.771 (c=3, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.001595.

Constituent: Total Dissolved Solids Analysis Run 7/16/2018 10:37 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Prediction Limit

Constituent: Total Dissolved Solids Analysis Run 7/16/2018 10:51 AM View: Cells3&4_AppIII_intrawell

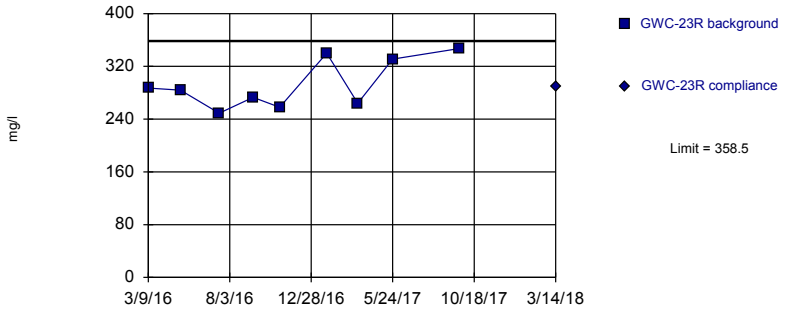
Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-19R	GWC-19R	GWC-20R	GWC-20R	GWC-21R	GWC-21R	GWC-22R	GWC-22R
3/7/2016	172 (D)						163 (D)	
3/8/2016			207 (D)		318 (D)			
5/5/2016							140 (D)	
5/9/2016	206 (D)		189 (D)		136 (D)			
7/14/2016	136 (D)		193 (D)				161 (D)	
7/15/2016					237 (D)			
9/9/2016					263 (D)			
9/12/2016	171 (D)		201 (D)				168 (D)	
10/27/2016					283 (D)		140 (D)	
10/31/2016	160 (D)		215 (D)					
1/11/2017	214							
1/12/2017			198		276			
1/13/2017							147 (J)	
3/20/2017							186	
3/21/2017	175 (J)				385			
5/22/2017	129		197					
5/23/2017					294		183	
9/19/2017			225		302		167	
9/20/2017	173							
12/29/2017			198 (Y)					
3/13/2018								159
3/14/2018		156		167		306		

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=292.6, Std. Dev.=37.23, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8817, critical = 0.764. Kappa = 1.771 (c=3, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.001595.

Constituent: Total Dissolved Solids Analysis Run 7/16/2018 10:37 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

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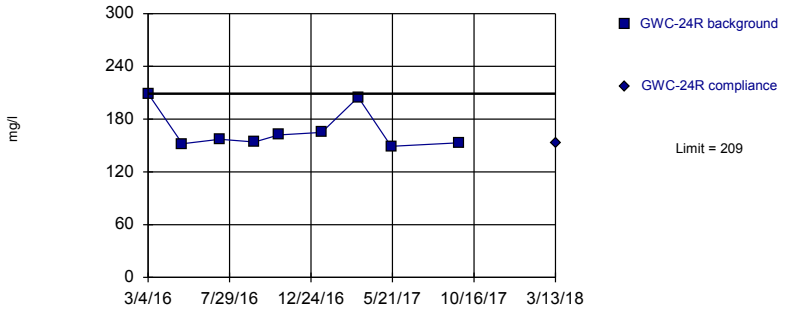
Within Limit

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 9 background values. Well-constituent pair annual alpha = 0.009329. Individual comparison alpha = 0.004675 (1 of 3). Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Total Dissolved Solids Analysis Run 7/16/2018 10:37 AM View: Cells3&4_AppIII_intrawell

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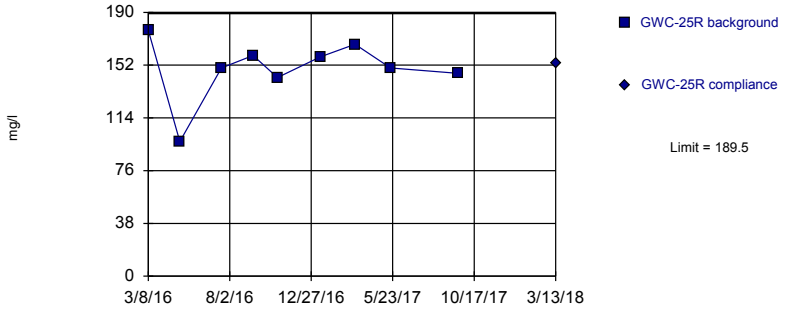
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=149.7, Std. Dev.=22.46, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8397, critical = 0.764. Kappa = 1.771 (c=3, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.001595.

Constituent: Total Dissolved Solids Analysis Run 7/16/2018 10:37 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

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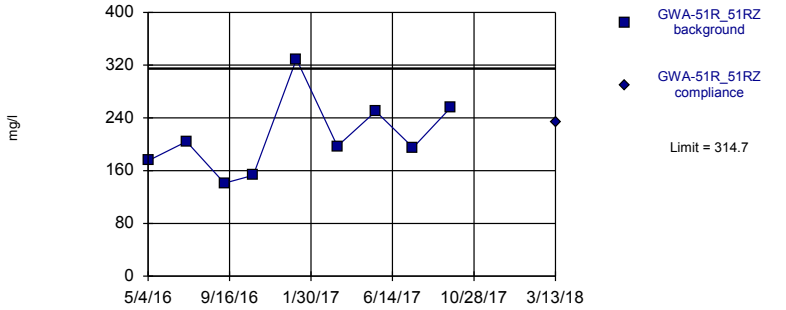
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=211, Std. Dev.=58.57, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9265, critical = 0.764. Kappa = 1.771 (c=3, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.001595.

Constituent: Total Dissolved Solids Analysis Run 7/16/2018 10:37 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Prediction Limit

Constituent: Total Dissolved Solids Analysis Run 7/16/2018 10:51 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-23R	GWC-23R	GWC-24R	GWC-24R	GWC-25R	GWC-25R	GWA-51R_51RZ	GWA-51R_51RZ
3/4/2016			209 (D)					
3/8/2016					177 (D)			
3/9/2016	287 (D)							
5/4/2016					97 (D)		175 (D)	
5/5/2016			152 (D)					
5/6/2016	284 (D)							
7/7/2016							204 (D)	
7/12/2016			157 (D)					
7/15/2016	249 (D)							
7/18/2016					150 (D)			
9/8/2016							141 (D)	
9/13/2016			154 (D)		159 (D)			
9/14/2016	273 (D)							
10/26/2016							153 (D)	
10/27/2016			162 (D)		143 (D)			
11/1/2016	258 (D)							
1/6/2017							329 (D)	
1/13/2017			165		158			
1/25/2017	340							
3/15/2017							197 (D)	
3/16/2017					167			
3/20/2017			205 (J)					
3/22/2017	264							
5/18/2017							250 (D)	
5/19/2017			149		150			
5/24/2017	331							
7/19/2017							195 (D)	
9/19/2017			153		146		255 (D)	
9/21/2017	347							
3/13/2018				153		153		233
3/14/2018		290						

Interwell Prediction Limit

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR Printed 6/25/2018, 3:56 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method

Interwell Prediction Limit

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR Printed 6/25/2018, 3:56 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Antimony (mg/L)	GWC-44	0.0078	n/a	3/15/2018	0.0015ND	No	80	71.25	n/a	0.01178	NP (NDs)
Antimony (mg/L)	GWC-45	0.0078	n/a	3/15/2018	0.00086	No	80	71.25	n/a	0.01178	NP (NDs)
Antimony (mg/L)	GWC-45R	0.0078	n/a	3/15/2018	0.0015ND	No	80	71.25	n/a	0.01178	NP (NDs)
Antimony (mg/L)	GWC-46R	0.0078	n/a	3/15/2018	0.0015ND	No	80	71.25	n/a	0.01178	NP (NDs)
Antimony (mg/L)	GWC-47	0.0078	n/a	3/15/2018	0.0015ND	No	80	71.25	n/a	0.01178	NP (NDs)
Antimony (mg/L)	GWC-47R	0.0078	n/a	3/16/2018	0.0015ND	No	80	71.25	n/a	0.01178	NP (NDs)
Antimony (mg/L)	GWC-48	0.0078	n/a	3/15/2018	0.0015ND	No	80	71.25	n/a	0.01178	NP (NDs)
Antimony (mg/L)	GWC-49R	0.0078	n/a	3/15/2018	0.0015ND	No	80	71.25	n/a	0.01178	NP (NDs)
Antimony (mg/L)	GWC-49Z	0.0078	n/a	3/15/2018	0.0012	No	80	71.25	n/a	0.01178	NP (NDs)
Arsenic (mg/L)	GWC-44	0.01425	n/a	3/15/2018	0.01209...	No	80	86.25	n/a	0.01178	NP (NDs) Deseas
Arsenic (mg/L)	GWC-45	0.01425	n/a	3/15/2018	0.01209...	No	80	86.25	n/a	0.01178	NP (NDs) Deseas
Arsenic (mg/L)	GWC-45R	0.01425	n/a	3/15/2018	0.01209...	No	80	86.25	n/a	0.01178	NP (NDs) Deseas
Arsenic (mg/L)	GWC-46R	0.01425	n/a	3/15/2018	0.01209...	No	80	86.25	n/a	0.01178	NP (NDs) Deseas
Arsenic (mg/L)	GWC-47	0.01425	n/a	3/15/2018	0.01209...	No	80	86.25	n/a	0.01178	NP (NDs) Deseas
Arsenic (mg/L)	GWC-47R	0.01425	n/a	3/16/2018	0.01209...	No	80	86.25	n/a	0.01178	NP (NDs) Deseas
Arsenic (mg/L)	GWC-48	0.01425	n/a	3/15/2018	0.01209...	No	80	86.25	n/a	0.01178	NP (NDs) Deseas
Arsenic (mg/L)	GWC-49R	0.01425	n/a	3/15/2018	0.01209...	No	80	86.25	n/a	0.01178	NP (NDs) Deseas
Arsenic (mg/L)	GWC-49Z	0.01425	n/a	3/15/2018	0.01209...	No	80	86.25	n/a	0.01178	NP (NDs) Deseas
Barium (mg/L)	GWC-44	1.5	n/a	3/15/2018	0.059	No	80	3.75	n/a	0.01178	NP (normality)
Barium (mg/L)	GWC-45	1.5	n/a	3/15/2018	0.0057	No	80	3.75	n/a	0.01178	NP (normality)
Barium (mg/L)	GWC-45R	1.5	n/a	3/15/2018	0.021	No	80	3.75	n/a	0.01178	NP (normality)
Barium (mg/L)	GWC-46R	1.5	n/a	3/15/2018	0.015	No	80	3.75	n/a	0.01178	NP (normality)
Barium (mg/L)	GWC-47	1.5	n/a	3/15/2018	0.011	No	80	3.75	n/a	0.01178	NP (normality)
Barium (mg/L)	GWC-47R	1.5	n/a	3/16/2018	0.01	No	80	3.75	n/a	0.01178	NP (normality)
Barium (mg/L)	GWC-48	1.5	n/a	3/15/2018	0.029	No	80	3.75	n/a	0.01178	NP (normality)
Cadmium (mg/L)	GWC-45R	0.05	n/a	3/15/2018	0.0005ND	No	80	83.75	n/a	0.01178	NP (NDs)
Cadmium (mg/L)	GWC-46R	0.05	n/a	3/15/2018	0.0005ND	No	80	83.75	n/a	0.01178	NP (NDs)
Cadmium (mg/L)	GWC-47	0.05	n/a	3/15/2018	0.000093	No	80	83.75	n/a	0.01178	NP (NDs)
Cadmium (mg/L)	GWC-47R	0.05	n/a	3/16/2018	0.0005ND	No	80	83.75	n/a	0.01178	NP (NDs)
Cadmium (mg/L)	GWC-48	0.05	n/a	3/15/2018	0.00018	No	80	83.75	n/a	0.01178	NP (NDs)
Cadmium (mg/L)	GWC-49R	0.05	n/a	3/15/2018	0.0005ND	No	80	83.75	n/a	0.01178	NP (NDs)
Cadmium (mg/L)	GWC-49Z	0.05	n/a	3/15/2018	0.0001	No	80	83.75	n/a	0.01178	NP (NDs)
Chromium (mg/L)	GWC-44	0.05	n/a	3/15/2018	0.005ND	No	80	80	n/a	0.01178	NP (NDs)
Chromium (mg/L)	GWC-45	0.05	n/a	3/15/2018	0.005ND	No	80	80	n/a	0.01178	NP (NDs)
Chromium (mg/L)	GWC-45R	0.05	n/a	3/15/2018	0.005ND	No	80	80	n/a	0.01178	NP (NDs)
Chromium (mg/L)	GWC-46R	0.05	n/a	3/15/2018	0.0021	No	80	80	n/a	0.01178	NP (NDs)
Chromium (mg/L)	GWC-47	0.05	n/a	3/15/2018	0.0023	No	80	80	n/a	0.01178	NP (NDs)
Chromium (mg/L)	GWC-47R	0.05	n/a	3/16/2018	0.003	No	80	80	n/a	0.01178	NP (NDs)
Chromium (mg/L)	GWC-48	0.05	n/a	3/15/2018	0.005ND	No	80	80	n/a	0.01178	NP (NDs)
Chromium (mg/L)	GWC-49R	0.05	n/a	3/15/2018	0.005ND	No	80	80	n/a	0.01178	NP (NDs)
Chromium (mg/L)	GWC-49Z	0.05	n/a	3/15/2018	0.005ND	No	80	80	n/a	0.01178	NP (NDs)
Cobalt (mg/L)	GWC-44	0.0114	n/a	3/15/2018	0.0018	No	80	80	n/a	0.01178	NP (NDs)
Barium (mg/L)	GWC-49R	1.5	n/a	3/15/2018	0.0093	No	80	3.75	n/a	0.01178	NP (normality)
Barium (mg/L)	GWC-49Z	1.5	n/a	3/15/2018	0.0032	No	80	3.75	n/a	0.01178	NP (normality)
Beryllium (mg/L)	GWC-44	0.0025	n/a	3/15/2018	0.000077	No	80	87.5	n/a	0.01178	NP (NDs)
Beryllium (mg/L)	GWC-45	0.0025	n/a	3/15/2018	0.0015ND	No	80	87.5	n/a	0.01178	NP (NDs)
Beryllium (mg/L)	GWC-45R	0.0025	n/a	3/15/2018	0.0015ND	No	80	87.5	n/a	0.01178	NP (NDs)
Beryllium (mg/L)	GWC-46R	0.0025	n/a	3/15/2018	0.0015ND	No	80	87.5	n/a	0.01178	NP (NDs)
Beryllium (mg/L)	GWC-47	0.0025	n/a	3/15/2018	0.0015ND	No	80	87.5	n/a	0.01178	NP (NDs)
Beryllium (mg/L)	GWC-47R	0.0025	n/a	3/16/2018	0.0015ND	No	80	87.5	n/a	0.01178	NP (NDs)

Interwell Prediction Limit

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR Printed 6/25/2018, 3:56 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Beryllium (mg/L)	GWC-48	0.0025	n/a	3/15/2018	0.00025	No	80	87.5	n/a	0.01178	NP (NDs)
Beryllium (mg/L)	GWC-49R	0.0025	n/a	3/15/2018	0.0015ND	No	80	87.5	n/a	0.01178	NP (NDs)
Beryllium (mg/L)	GWC-49Z	0.0025	n/a	3/15/2018	0.0015ND	No	80	87.5	n/a	0.01178	NP (NDs)
Cadmium (mg/L)	GWC-44	0.05	n/a	3/15/2018	0.0005ND	No	80	83.75	n/a	0.01178	NP (NDs)
Cadmium (mg/L)	GWC-45	0.05	n/a	3/15/2018	0.0005ND	No	80	83.75	n/a	0.01178	NP (NDs)
Cobalt (mg/L)	GWC-45	0.0114	n/a	3/15/2018	0.0012	No	80	80	n/a	0.01178	NP (NDs)
Cobalt (mg/L)	GWC-45R	0.0114	n/a	3/15/2018	0.005ND	No	80	80	n/a	0.01178	NP (NDs)
Cobalt (mg/L)	GWC-46R	0.0114	n/a	3/15/2018	0.005ND	No	80	80	n/a	0.01178	NP (NDs)
Cobalt (mg/L)	GWC-47	0.0114	n/a	3/15/2018	0.005ND	No	80	80	n/a	0.01178	NP (NDs)
Cobalt (mg/L)	GWC-47R	0.0114	n/a	3/16/2018	0.005ND	No	80	80	n/a	0.01178	NP (NDs)
Cobalt (mg/L)	GWC-48	0.0114	n/a	3/15/2018	0.0013	No	80	80	n/a	0.01178	NP (NDs)
Cobalt (mg/L)	GWC-49R	0.0114	n/a	3/15/2018	0.005ND	No	80	80	n/a	0.01178	NP (NDs)
Cobalt (mg/L)	GWC-49Z	0.0114	n/a	3/15/2018	0.0026	No	80	80	n/a	0.01178	NP (NDs)
Copper (mg/L)	GWC-44	0.03674	n/a	3/15/2018	0.02399...	No	69	84.06	n/a	0.01353	NP (NDs) Deseas
Copper (mg/L)	GWC-45	0.03674	n/a	3/15/2018	0.02399...	No	69	84.06	n/a	0.01353	NP (NDs) Deseas
Copper (mg/L)	GWC-45R	0.03674	n/a	3/15/2018	0.02399...	No	69	84.06	n/a	0.01353	NP (NDs) Deseas
Copper (mg/L)	GWC-46R	0.03674	n/a	3/15/2018	0.02399...	No	69	84.06	n/a	0.01353	NP (NDs) Deseas
Copper (mg/L)	GWC-47	0.03674	n/a	3/15/2018	0.02399...	No	69	84.06	n/a	0.01353	NP (NDs) Deseas
Copper (mg/L)	GWC-47R	0.03674	n/a	3/16/2018	0.02399...	No	69	84.06	n/a	0.01353	NP (NDs) Deseas
Copper (mg/L)	GWC-48	0.03674	n/a	3/15/2018	0.02399...	No	69	84.06	n/a	0.01353	NP (NDs) Deseas
Copper (mg/L)	GWC-49R	0.03674	n/a	3/15/2018	0.02399...	No	69	84.06	n/a	0.01353	NP (NDs) Deseas
Copper (mg/L)	GWC-49Z	0.03674	n/a	3/15/2018	0.02399...	No	69	84.06	n/a	0.01353	NP (NDs) Deseas
Lead (mg/L)	GWC-44	0.0224	n/a	3/15/2018	0.01054	No	80	78.75	n/a	0.01178	NP (NDs) Deseas
Lead (mg/L)	GWC-45	0.0224	n/a	3/15/2018	0.01239...	No	80	78.75	n/a	0.01178	NP (NDs) Deseas
Lead (mg/L)	GWC-45R	0.0224	n/a	3/15/2018	0.01239...	No	80	78.75	n/a	0.01178	NP (NDs) Deseas
Lead (mg/L)	GWC-46R	0.0224	n/a	3/15/2018	0.01239...	No	80	78.75	n/a	0.01178	NP (NDs) Deseas
Lead (mg/L)	GWC-47	0.0224	n/a	3/15/2018	0.01239...	No	80	78.75	n/a	0.01178	NP (NDs) Deseas
Lead (mg/L)	GWC-47R	0.0224	n/a	3/16/2018	0.01239...	No	80	78.75	n/a	0.01178	NP (NDs) Deseas
Lead (mg/L)	GWC-48	0.0224	n/a	3/15/2018	0.01239...	No	80	78.75	n/a	0.01178	NP (NDs) Deseas
Lead (mg/L)	GWC-49R	0.0224	n/a	3/15/2018	0.01239...	No	80	78.75	n/a	0.01178	NP (NDs) Deseas
Lead (mg/L)	GWC-49Z	0.0224	n/a	3/15/2018	0.01239...	No	80	78.75	n/a	0.01178	NP (NDs) Deseas
Mercury (mg/L)	GWC-44	0.03475	n/a	3/15/2018	0.01	No	80	100	n/a	0.01178	NP (NDs) Deseas
Mercury (mg/L)	GWC-45	0.03475	n/a	3/15/2018	0.01	No	80	100	n/a	0.01178	NP (NDs) Deseas
Mercury (mg/L)	GWC-45R	0.03475	n/a	3/15/2018	0.01	No	80	100	n/a	0.01178	NP (NDs) Deseas
Mercury (mg/L)	GWC-46R	0.03475	n/a	3/15/2018	0.01	No	80	100	n/a	0.01178	NP (NDs) Deseas
Mercury (mg/L)	GWC-47	0.03475	n/a	3/15/2018	0.01	No	80	100	n/a	0.01178	NP (NDs) Deseas
Mercury (mg/L)	GWC-47R	0.03475	n/a	3/16/2018	0.01	No	80	100	n/a	0.01178	NP (NDs) Deseas
Mercury (mg/L)	GWC-48	0.03475	n/a	3/15/2018	0.01	No	80	100	n/a	0.01178	NP (NDs) Deseas
Mercury (mg/L)	GWC-49R	0.03475	n/a	3/15/2018	0.01	No	80	100	n/a	0.01178	NP (NDs) Deseas
Mercury (mg/L)	GWC-49Z	0.03475	n/a	3/15/2018	0.01	No	80	100	n/a	0.01178	NP (NDs) Deseas
Nickel (mg/L)	GWC-44	0.0224	n/a	3/15/2018	0.005ND	No	69	53.62	n/a	0.01353	NP (NDs)
Nickel (mg/L)	GWC-45	0.0224	n/a	3/15/2018	0.0011	No	69	53.62	n/a	0.01353	NP (NDs)
Nickel (mg/L)	GWC-45R	0.0224	n/a	3/15/2018	0.005ND	No	69	53.62	n/a	0.01353	NP (NDs)
Nickel (mg/L)	GWC-46R	0.0224	n/a	3/15/2018	0.005ND	No	69	53.62	n/a	0.01353	NP (NDs)
Nickel (mg/L)	GWC-47	0.0224	n/a	3/15/2018	0.005ND	No	69	53.62	n/a	0.01353	NP (NDs)
Nickel (mg/L)	GWC-47R	0.0224	n/a	3/16/2018	0.005ND	No	69	53.62	n/a	0.01353	NP (NDs)
Nickel (mg/L)	GWC-48	0.0224	n/a	3/15/2018	0.0033	No	69	53.62	n/a	0.01353	NP (NDs)
Nickel (mg/L)	GWC-49R	0.0224	n/a	3/15/2018	0.005ND	No	69	53.62	n/a	0.01353	NP (NDs)
Nickel (mg/L)	GWC-49Z	0.0224	n/a	3/15/2018	0.0028	No	69	53.62	n/a	0.01353	NP (NDs)
Selenium (mg/L)	GWC-44	0.005	n/a	3/15/2018	0.0031	No	80	98.75	n/a	0.01178	NP (NDs)

Interwell Prediction Limit

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR Printed 6/25/2018, 3:56 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Selenium (mg/L)	GWC-45	0.005	n/a	3/15/2018	0.005ND	No	80	98.75	n/a	0.01178	NP (NDs)
Selenium (mg/L)	GWC-45R	0.005	n/a	3/15/2018	0.005ND	No	80	98.75	n/a	0.01178	NP (NDs)
Selenium (mg/L)	GWC-46R	0.005	n/a	3/15/2018	0.005ND	No	80	98.75	n/a	0.01178	NP (NDs)
Selenium (mg/L)	GWC-47	0.005	n/a	3/15/2018	0.005ND	No	80	98.75	n/a	0.01178	NP (NDs)
Selenium (mg/L)	GWC-47R	0.005	n/a	3/16/2018	0.005ND	No	80	98.75	n/a	0.01178	NP (NDs)
Selenium (mg/L)	GWC-48	0.005	n/a	3/15/2018	0.005ND	No	80	98.75	n/a	0.01178	NP (NDs)
Selenium (mg/L)	GWC-49R	0.005	n/a	3/15/2018	0.005ND	No	80	98.75	n/a	0.01178	NP (NDs)
Selenium (mg/L)	GWC-49Z	0.005	n/a	3/15/2018	0.005ND	No	80	98.75	n/a	0.01178	NP (NDs)
Silver (mg/L)	GWC-44	0.005	n/a	3/15/2018	0.005ND	No	69	98.55	n/a	0.01353	NP (NDs)
Silver (mg/L)	GWC-45	0.005	n/a	3/15/2018	0.005ND	No	69	98.55	n/a	0.01353	NP (NDs)
Silver (mg/L)	GWC-45R	0.005	n/a	3/15/2018	0.005ND	No	69	98.55	n/a	0.01353	NP (NDs)
Silver (mg/L)	GWC-46R	0.005	n/a	3/15/2018	0.005ND	No	69	98.55	n/a	0.01353	NP (NDs)
Silver (mg/L)	GWC-47	0.005	n/a	3/15/2018	0.005ND	No	69	98.55	n/a	0.01353	NP (NDs)
Silver (mg/L)	GWC-47R	0.005	n/a	3/16/2018	0.005ND	No	69	98.55	n/a	0.01353	NP (NDs)
Silver (mg/L)	GWC-48	0.005	n/a	3/15/2018	0.005ND	No	69	98.55	n/a	0.01353	NP (NDs)
Silver (mg/L)	GWC-49R	0.005	n/a	3/15/2018	0.005ND	No	69	98.55	n/a	0.01353	NP (NDs)
Silver (mg/L)	GWC-49Z	0.005	n/a	3/15/2018	0.005ND	No	69	98.55	n/a	0.01353	NP (NDs)
Thallium (mg/L)	GWC-44	0.5018	n/a	3/15/2018	0.01045...	No	80	92.5	n/a	0.01178	NP (NDs) Deseas
Thallium (mg/L)	GWC-45	0.5018	n/a	3/15/2018	0.01045...	No	80	92.5	n/a	0.01178	NP (NDs) Deseas
Thallium (mg/L)	GWC-45R	0.5018	n/a	3/15/2018	0.01045...	No	80	92.5	n/a	0.01178	NP (NDs) Deseas
Thallium (mg/L)	GWC-46R	0.5018	n/a	3/15/2018	0.01045...	No	80	92.5	n/a	0.01178	NP (NDs) Deseas
Thallium (mg/L)	GWC-47	0.5018	n/a	3/15/2018	0.01045...	No	80	92.5	n/a	0.01178	NP (NDs) Deseas
Thallium (mg/L)	GWC-47R	0.5018	n/a	3/16/2018	0.01031	No	80	92.5	n/a	0.01178	NP (NDs) Deseas
Thallium (mg/L)	GWC-48	0.5018	n/a	3/15/2018	0.01045...	No	80	92.5	n/a	0.01178	NP (NDs) Deseas
Thallium (mg/L)	GWC-49R	0.5018	n/a	3/15/2018	0.01045...	No	80	92.5	n/a	0.01178	NP (NDs) Deseas
Thallium (mg/L)	GWC-49Z	0.5018	n/a	3/15/2018	0.01045...	No	80	92.5	n/a	0.01178	NP (NDs) Deseas
Vanadium (mg/L)	GWC-44	0.005795	n/a	3/15/2018	0.00579...	No	69	95.65	n/a	0.01353	NP (NDs) Deseas
Vanadium (mg/L)	GWC-45	0.005795	n/a	3/15/2018	0.00579...	No	69	95.65	n/a	0.01353	NP (NDs) Deseas
Vanadium (mg/L)	GWC-45R	0.005795	n/a	3/15/2018	0.00579...	No	69	95.65	n/a	0.01353	NP (NDs) Deseas
Vanadium (mg/L)	GWC-46R	0.005795	n/a	3/15/2018	0.00579...	No	69	95.65	n/a	0.01353	NP (NDs) Deseas
Vanadium (mg/L)	GWC-47	0.005795	n/a	3/15/2018	0.00579...	No	69	95.65	n/a	0.01353	NP (NDs) Deseas
Vanadium (mg/L)	GWC-47R	0.005795	n/a	3/16/2018	0.00579...	No	69	95.65	n/a	0.01353	NP (NDs) Deseas
Vanadium (mg/L)	GWC-48	0.005795	n/a	3/15/2018	0.00579...	No	69	95.65	n/a	0.01353	NP (NDs) Deseas
Vanadium (mg/L)	GWC-49R	0.005795	n/a	3/15/2018	0.00579...	No	69	95.65	n/a	0.01353	NP (NDs) Deseas
Vanadium (mg/L)	GWC-49Z	0.005795	n/a	3/15/2018	0.00579...	No	69	95.65	n/a	0.01353	NP (NDs) Deseas
Zinc (mg/L)	GWC-44	0.0162	n/a	3/15/2018	0.005ND	No	69	60.87	n/a	0.01353	NP (NDs)
Zinc (mg/L)	GWC-45	0.0162	n/a	3/15/2018	0.005ND	No	69	60.87	n/a	0.01353	NP (NDs)
Zinc (mg/L)	GWC-45R	0.0162	n/a	3/15/2018	0.005ND	No	69	60.87	n/a	0.01353	NP (NDs)
Zinc (mg/L)	GWC-46R	0.0162	n/a	3/15/2018	0.005ND	No	69	60.87	n/a	0.01353	NP (NDs)
Zinc (mg/L)	GWC-47	0.0162	n/a	3/15/2018	0.018ND	No	69	60.87	n/a	0.01353	NP (NDs)
Zinc (mg/L)	GWC-47R	0.0162	n/a	3/16/2018	0.012	No	69	60.87	n/a	0.01353	NP (NDs)
Zinc (mg/L)	GWC-48	0.0162	n/a	3/15/2018	0.005ND	No	69	60.87	n/a	0.01353	NP (NDs)
Zinc (mg/L)	GWC-49R	0.0162	n/a	3/15/2018	0.005ND	No	69	60.87	n/a	0.01353	NP (NDs)
Zinc (mg/L)	GWC-49Z	0.0162	n/a	3/15/2018	0.005ND	No	69	60.87	n/a	0.01353	NP (NDs)

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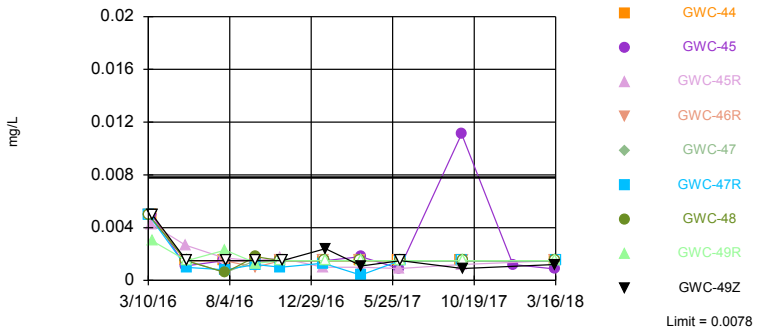
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 80 background values. 71.25% NDs. Report alpha = 0.1011. Individual comparison alpha = 0.01178. Most recent point for each compliance well compared to limit. Seasonality was not detected with 95% confidence.

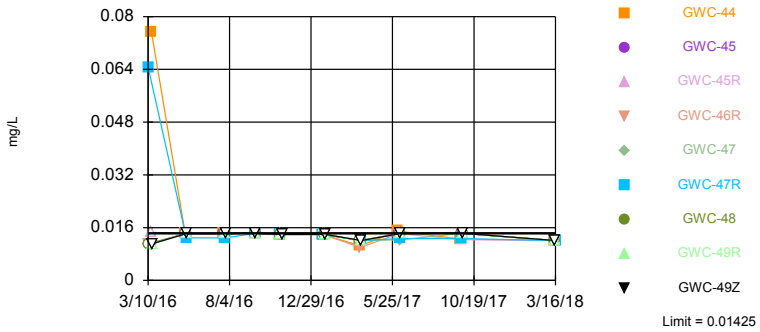
Constituent: Antimony Analysis Run 6/25/2018 3:42 PM View: cell9&10_metals_interwell
Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

Sanitas™ v.9.5.32 Sanitas software licensed to AMEC. EPA
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 80 background values. 86.25% NDs. Report alpha = 0.1011. Individual comparison alpha = 0.01178. Most recent point for each compliance well compared to limit. Data were deseasonalized.

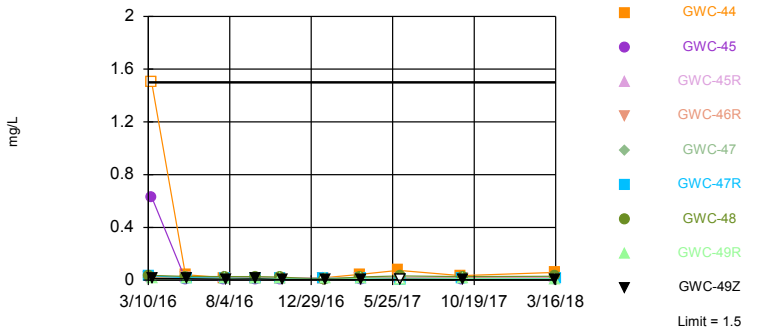
Constituent: Arsenic Analysis Run 6/25/2018 3:42 PM View: cell9&10_metals_interwell
Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

Sanitas™ v.9.5.32 Sanitas software licensed to AMEC. EPA
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.05 alpha level. Limit is highest of 80 background values. 3.75% NDs. Report alpha = 0.1011. Individual comparison alpha = 0.01178. Most recent point for each compliance well compared to limit. Seasonality was not detected with 95% confidence.

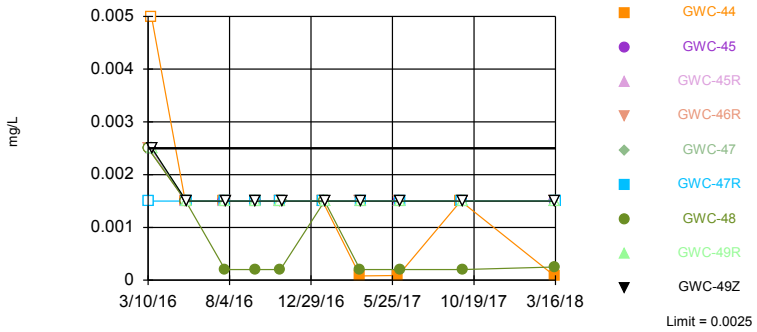
Constituent: Barium Analysis Run 6/25/2018 3:42 PM View: cell9&10_metals_interwell
Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

Sanitas™ v.9.5.32 Sanitas software licensed to AMEC. EPA
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 80 background values. 87.5% NDs. Report alpha = 0.1011. Individual comparison alpha = 0.01178. Most recent point for each compliance well compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Beryllium Analysis Run 6/25/2018 3:42 PM View: cell9&10_metals_interwell
Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 6/25/2018 3:56 PM View: cell9&10_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWC-47	GWC-47R	GWC-48	GWC-46R	GWA-42 (bg)	GWA-43 (bg)	GWA-43R (bg)	GWA-39Z (bg)	GWA-40 (bg)
3/10/2016	<0.01	<0.01	<0.01	<0.01					
3/11/2016					<0.01	<0.01	<0.001		
3/14/2016								0.003	
3/15/2016									<0.01
3/16/2016									
3/17/2016									
5/11/2016								0.000839 (J)	<0.003
5/12/2016									
5/13/2016						<0.003	<0.003		
5/16/2016					<0.003				
5/17/2016			<0.003	<0.003					
5/18/2016	<0.003	0.000987 (J)							
7/19/2016						<0.003 (*)	<0.003	0.0024 (J)	
7/20/2016									
7/21/2016									<0.003
7/22/2016					0.002 (J)				
7/25/2016									
7/26/2016				<0.003					
7/27/2016	0.0006 (J)	0.0008 (J)	0.0006 (J)						
7/28/2016									
9/15/2016								0.0009 (J)	<0.003
9/16/2016						<0.003	<0.003		
9/19/2016					<0.003				
9/20/2016	<0.003	0.0012 (J)	0.0018 (J)	0.001 (J)					
9/21/2016									
11/2/2016						<0.003	<0.003	0.001 (J)	
11/3/2016					<0.003				0.0021 (J)
11/4/2016		0.001 (J)	<0.003	<0.003					
11/7/2016	<0.003								
1/17/2017					<0.003				<0.003
1/18/2017						<0.003	0.0013 (J)	0.0017 (J)	
1/19/2017									
1/20/2017		0.0013 (J)		<0.003					
1/23/2017	<0.003		<0.003						
1/24/2017									
2/21/2017									
3/24/2017									<0.003
3/27/2017					<0.003				
3/28/2017			<0.003	<0.003		<0.003	<0.003	0.0006 (J)	
3/29/2017	<0.003	0.0004 (J)							
3/30/2017									
5/24/2017									<0.003
6/5/2017									
6/6/2017						<0.003	0.0007 (J)		
6/7/2017				<0.003	<0.003			0.0003 (J)	
6/8/2017	<0.003	<0.003 (*)	<0.003 (*)						
6/9/2017									
7/17/2017									
7/27/2017									
8/9/2017									
9/22/2017						<0.003	0.0012 (J)		
9/25/2017									

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 6/25/2018 3:56 PM View: cell9&10_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWC-47	GWC-47R	GWC-48	GWC-46R	GWA-42 (bg)	GWA-43 (bg)	GWA-43R (bg)	GWA-39Z (bg)	GWA-40 (bg)
9/26/2017					<0.003			<0.003	<0.003
9/27/2017	<0.003	<0.003							
9/29/2017			<0.003	<0.003					
12/29/2017									
3/14/2018					<0.003	<0.003		<0.003	<0.003
3/15/2018	<0.003		<0.003	<0.003			<0.003		
3/16/2018		<0.003							

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 6/25/2018 3:56 PM View: cell9&10_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWA-41R (bg)	GWA-41 (bg)	GWC-44	GWC-45R	GWC-45	GWC-49R	GWC-49Z	GWA-39R_39RZ ...
3/10/2016								
3/11/2016								
3/14/2016								
3/15/2016	<0.01	<0.01						
3/16/2016			<0.01	0.00426	<0.01			
3/17/2016						0.003	<0.01	
5/11/2016								
5/12/2016		<0.003						
5/13/2016	<0.003							
5/16/2016			<0.003	0.00267 (J)	0.00109 (J)			<0.003 (D)
5/17/2016								
5/18/2016						<0.003	<0.003	
7/19/2016								
7/20/2016		<0.003						
7/21/2016	<0.003 (*)							
7/22/2016								
7/25/2016			<0.003 (*)	0.0017 (J)	<0.003 (*)			
7/26/2016								
7/27/2016						0.0023 (J)		0.0003 (JD)
7/28/2016							<0.003	
9/15/2016		<0.003						
9/16/2016								
9/19/2016			<0.003	<0.003	<0.003			
9/20/2016								
9/21/2016	<0.003					0.0013 (J)	<0.003	
11/2/2016								
11/3/2016	<0.003	<0.003	<0.003	0.0017 (J)				
11/4/2016					<0.003	<0.003		
11/7/2016							<0.003 (*)	
1/17/2017	<0.003							
1/18/2017		<0.003						
1/19/2017			<0.003					
1/20/2017				0.001 (J)				
1/23/2017					<0.003			
1/24/2017						<0.003	0.0024 (J)	
2/21/2017								0.0057
3/24/2017		<0.003						
3/27/2017	0.0008 (J)							0.0013 (JD)
3/28/2017			<0.003					
3/29/2017				0.001 (J)	0.0018 (J)	<0.003		
3/30/2017							0.0011 (J)	
5/24/2017								
6/5/2017			<0.003					
6/6/2017	<0.003	<0.003						
6/7/2017				0.0009 (J)	0.0009 (J)			
6/8/2017						<0.003 (*)		<0.0035 (*)
6/9/2017							<0.003 (*)	
7/17/2017								0.005 (D)
7/27/2017								0.0033
8/9/2017								0.0012 (J)
9/22/2017								
9/25/2017	0.0035	<0.003						

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 6/25/2018 3:56 PM View: cell9&10_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWA-41R (bg)	GWA-41 (bg)	GWC-44	GWC-45R	GWC-45	GWC-49R	GWC-49Z	GWA-39R_39RZ ...
9/26/2017			<0.003					
9/27/2017				0.0012 (J)	0.0111			
9/29/2017						<0.003	0.0009 (J)	0.0013 (JD)
12/29/2017					0.0012 (Y)			
3/14/2018	<0.003	<0.003						
3/15/2018			<0.003	<0.003	0.00086 (J)	<0.003	0.0012 (J)	
3/16/2018								0.0078

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 6/25/2018 3:56 PM View: cell9&10_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWC-47R	GWC-46R	GWC-48	GWC-47	GWA-43R (bg)	GWA-43 (bg)	GWA-42 (bg)	GWA-39Z (bg)	GWA-41R (bg)
3/10/2016	0.0647 (J)	0.011100000..	0.011100000..	0.011100000..					
3/11/2016					0.011100000..	0.011100000..	0.011100000..		
3/14/2016								0.011100000..	
3/15/2016									0.011100000..
3/16/2016									
3/17/2016									
5/11/2016								0.014168453..	
5/12/2016									
5/13/2016					0.014168453..	0.014168453..			0.014168453..
5/16/2016							0.014168453..		
5/17/2016		0.014168453..	0.014168453..						
5/18/2016	0.01294 (J)			0.014168453..					
7/19/2016					0.014168453..	0.014168453..		0.014168453..	
7/20/2016									
7/21/2016									0.01287 (J)
7/22/2016							0.014168453..		
7/25/2016									
7/26/2016		0.014168453..							
7/27/2016	0.01287 (J)		0.014168453..	0.014168453..					
7/28/2016									
9/15/2016								0.014254901..	
9/16/2016					0.014254901..	0.014254901..			
9/19/2016							0.014254901..		
9/20/2016	0.014254901..	0.014254901..	0.014254901..	0.014254901..					
9/21/2016									0.014254901..
11/2/2016					0.013949019..	0.013949019..		0.013949019..	
11/3/2016							0.013949019..		0.013949019..
11/4/2016	0.013949019..	0.013949019..	0.013949019..						
11/7/2016				0.013949019..					
1/17/2017							0.013949019..		0.013949019..
1/18/2017					0.013949019..	0.013949019..		0.013949019..	
1/19/2017									
1/20/2017	0.013949019..	0.013949019..							
1/23/2017			0.013949019..	0.013949019..					
1/24/2017									
2/21/2017									
3/24/2017									
3/27/2017							0.012099999..		0.0104 (J)
3/28/2017		0.01 (J)	0.012099999..		0.0101 (J)	0.012099999..		0.0103 (J)	
3/29/2017	0.012099999..			0.012099999..					
3/30/2017									
5/24/2017									
6/5/2017									
6/6/2017					0.014168453.. (*)	0.014168453.. (*)			0.014168453.. (*)
6/7/2017		0.014168453.. (*)					0.014168453.. (*)	0.014168453..	
6/8/2017	0.01267 (J)		0.014168453..	0.01227 (J)					
6/9/2017									
7/17/2017									
7/27/2017									
8/9/2017									
9/22/2017					0.014254901..	0.014254901..			
9/25/2017									0.01275 (J)

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 6/25/2018 3:56 PM View: cell9&10_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWC-47R	GWC-46R	GWC-48	GWC-47	GWA-43R (bg)	GWA-43 (bg)	GWA-42 (bg)	GWA-39Z (bg)	GWA-41R (bg)
9/26/2017							0.014254901..	0.014254901..	
9/27/2017	0.01265 (J)			0.014254901..					
9/29/2017		0.014254901..	0.014254901..						
3/14/2018						0.012099999..	0.012099999..	0.012099999..	0.012099999..
3/15/2018		0.012099999..	0.012099999..	0.012099999..	0.012099999..				
3/16/2018	0.012099999..								

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 6/25/2018 3:56 PM View: cell9&10_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWA-41 (bg)	GWA-40 (bg)	GWC-45R	GWC-45	GWC-44	GWC-49Z	GWC-49R	GWA-39R_39RZ ...
3/10/2016								
3/11/2016								
3/14/2016								
3/15/2016	0.011100000..	0.011100000..						
3/16/2016			0.014599999..	0.011100000..	0.0753 (J)			
3/17/2016						0.011100000..	0.011100000..	
5/11/2016		0.014168453..						
5/12/2016	0.014168453..							
5/13/2016								
5/16/2016			0.014168453..	0.014168453..	0.014168453..			0.014168453.. (D)
5/17/2016								
5/18/2016						0.014168453..	0.014168453..	
7/19/2016								
7/20/2016	0.014168453..							
7/21/2016		0.014168453..						
7/22/2016								
7/25/2016			0.014168453..	0.014168453..	0.014168453..			
7/26/2016								
7/27/2016							0.014168453..	0.01277 (JD)
7/28/2016						0.014168453..		
9/15/2016	0.014254901..	0.014254901..						
9/16/2016								
9/19/2016			0.014254901..	0.014254901..	0.014254901..			
9/20/2016								
9/21/2016						0.014254901..	0.014254901..	
11/2/2016								
11/3/2016	0.013949019..	0.013949019..	0.013949019..		0.013949019..			
11/4/2016				0.013949019..			0.013949019..	
11/7/2016						0.013949019..		
1/17/2017		0.013949019..						
1/18/2017	0.013949019..							
1/19/2017					0.013949019..			
1/20/2017			0.013949019..					
1/23/2017				0.013949019..				
1/24/2017						0.013949019..	0.013949019..	
2/21/2017								0.012099999..
3/24/2017	0.012099999..	0.012099999..						
3/27/2017								0.0103 (JD)
3/28/2017					0.0105 (J)			
3/29/2017			0.012099999..	0.012099999..			0.012099999..	
3/30/2017						0.012099999..		
5/24/2017		0.014168453..						
6/5/2017					0.01497 (J)			
6/6/2017	0.014168453.. (*)							
6/7/2017			0.014168453.. (*)	0.014168453..				
6/8/2017							0.014168453..	0.01237 (JD)
6/9/2017						0.014168453..		
7/17/2017								0.01217 (JD)
7/27/2017								0.014168453..
8/9/2017								0.01255 (J)
9/22/2017								
9/25/2017	0.014254901..							

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 6/25/2018 3:56 PM View: cell9&10_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWA-41 (bg)	GWA-40 (bg)	GWC-45R	GWC-45	GWC-44	GWC-49Z	GWC-49R	GWA-39R_39RZ ...
9/26/2017		0.01225 (J)			0.01255 (J)			
9/27/2017			0.01235 (J)	0.014254901..				
9/29/2017						0.014254901..	0.014254901..	0.014254901.. (D)
3/14/2018	0.012099999..	0.012099999..						
3/15/2018			0.012099999..	0.012099999..	0.012099999..	0.012099999..	0.012099999..	
3/16/2018								0.012099999..

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 6/25/2018 3:56 PM View: cell9&10_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWC-47R	GWC-46R	GWC-48	GWC-47	GWA-43R (bg)	GWA-43 (bg)	GWA-42 (bg)	GWA-39Z (bg)	GWA-41R (bg)
3/10/2016	0.0344	0.0209	0.0361	0.0144					
3/11/2016					0.00819 (J)	0.0116	0.00639 (J)		
3/14/2016								<3	
3/15/2016									0.0462
3/16/2016									
3/17/2016									
5/11/2016								0.00793 (J)	
5/12/2016									
5/13/2016					0.00756 (J)	0.0361			0.0265
5/16/2016							0.00622 (J)		
5/17/2016		0.0202	0.0277						
5/18/2016	0.0184			0.0136					
7/19/2016					0.0079 (J)	0.036		0.0045 (J)	
7/20/2016									
7/21/2016									0.0243
7/22/2016							0.0062 (J)		
7/25/2016									
7/26/2016		0.0165							
7/27/2016	0.0146		0.0276	0.013					
7/28/2016									
9/15/2016								0.0057 (J)	
9/16/2016					0.0078 (J)	0.0259			
9/19/2016							0.0064 (J)		
9/20/2016	0.0122	0.0132	0.0266	0.0146					
9/21/2016									0.0145
11/2/2016					0.0082 (J)	0.037		0.0043 (J)	
11/3/2016							0.0058 (J)		0.0082 (J)
11/4/2016	0.0119	0.012	0.0239						
11/7/2016				0.0124					
1/17/2017							0.0061 (J)		0.007 (J)
1/18/2017					0.0085 (J)	0.0248		<0.01 (*)	
1/19/2017									
1/20/2017	0.0114	0.0133							
1/23/2017			<0.01	0.0158					
1/24/2017									
2/21/2017									
3/24/2017									
3/27/2017							0.0063 (J)		0.016
3/28/2017		0.0161	0.024		0.0084 (J)	0.0222		0.0188	
3/29/2017	0.0116			0.017					
3/30/2017									
5/24/2017									
6/5/2017									
6/6/2017					0.0078 (J)	0.02			0.0301
6/7/2017		0.0141					0.0064 (J)	0.0273	
6/8/2017	<0.011 (*)		0.0317	0.0149					
6/9/2017									
7/17/2017									
7/27/2017									
8/9/2017									
9/22/2017					0.0076 (J)	0.0179			
9/25/2017									0.0169

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 6/25/2018 3:56 PM View: cell9&10_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWC-47R	GWC-46R	GWC-48	GWC-47	GWA-43R (bg)	GWA-43 (bg)	GWA-42 (bg)	GWA-39Z (bg)	GWA-41R (bg)
9/26/2017							0.006 (J)	0.0236	
9/27/2017	0.0098 (J)			0.012					
9/29/2017		0.0151	0.0265						
3/14/2018						0.016	0.0065 (J)	0.027	0.036
3/15/2018		0.015	0.029	0.011	0.0092 (J)				
3/16/2018	0.01								

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 6/25/2018 3:56 PM View: cell9&10_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWA-41 (bg)	GWA-40 (bg)	GWC-45R	GWC-45	GWC-44	GWC-49Z	GWC-49R	GWA-39R_39RZ ...
3/10/2016								
3/11/2016								
3/14/2016								
3/15/2016	0.0291	<3						
3/16/2016			0.0244	0.6294 (J)	<3			
3/17/2016						0.0121	0.0112	
5/11/2016		0.00992 (J)						
5/12/2016	0.0322							
5/13/2016								
5/16/2016			0.0222	0.006 (J)	0.0418			0.0113 (D)
5/17/2016								
5/18/2016						0.0117	0.0107	
7/19/2016								
7/20/2016	0.0313							
7/21/2016		0.009 (J)						
7/22/2016								
7/25/2016			0.02	0.0056 (J)	0.0179			
7/26/2016								
7/27/2016							0.0104	0.0114 (D)
7/28/2016						0.0081 (J)		
9/15/2016	0.0217	0.0109						
9/16/2016								
9/19/2016			0.019	0.0059 (J)	0.0152			
9/20/2016								
9/21/2016						0.0106	0.0106	
11/2/2016								
11/3/2016	0.0272	0.0115	0.0177		0.0127			
11/4/2016				0.0054 (J)			0.0098 (J)	
11/7/2016						0.0047 (J)		
1/17/2017		0.0101						
1/18/2017	0.0286 (J)							
1/19/2017					0.0172			
1/20/2017			0.0173					
1/23/2017				0.006 (J)				
1/24/2017						0.0071 (J)	0.0101	
2/21/2017								0.0178
3/24/2017	0.0307	0.0086 (J)						
3/27/2017								0.0162 (D)
3/28/2017					0.0437			
3/29/2017			0.0184	0.0058 (J)			0.0103	
3/30/2017						0.0043 (J)		
5/24/2017		0.0087 (J)						
6/5/2017					0.0747			
6/6/2017	0.0242							
6/7/2017			0.019	0.0062 (J)				
6/8/2017							<0.0106 (*)	0.0156 (D)
6/9/2017						<0.01 (*)		
7/17/2017								0.016 (D)
7/27/2017								0.0184
8/9/2017								0.0162
9/22/2017								
9/25/2017	0.0252							

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 6/25/2018 3:56 PM View: cell9&10_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWA-41 (bg)	GWA-40 (bg)	GWC-45R	GWC-45	GWC-44	GWC-49Z	GWC-49R	GWA-39R_39RZ ...
9/26/2017		0.0075 (J)			0.0338			
9/27/2017			0.0197	0.0056 (J)				
9/29/2017						0.004 (J)	0.0097 (J)	0.0159 (D)
3/14/2018	0.021	0.0064 (J)						
3/15/2018			0.021	0.0057 (J)	0.059	0.0032 (J)	0.0093 (J)	
3/16/2018								0.016

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 6/25/2018 3:56 PM View: cell9&10_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWC-47R	GWC-46R	GWC-48	GWC-47	GWA-43R (bg)	GWA-43 (bg)	GWA-42 (bg)	GWA-39Z (bg)	GWA-41R (bg)
3/10/2016	<0.003	<0.005	<0.005	<0.005					
3/11/2016					<0.005	<0.005	<0.005		
3/14/2016								<0.005	
3/15/2016									<0.005
3/16/2016									
3/17/2016									
5/11/2016								<0.003	
5/12/2016									
5/13/2016					<0.003	<0.003			<0.003
5/16/2016							<0.003		
5/17/2016		<0.003	<0.003						
5/18/2016	<0.003			<0.003					
7/19/2016					<0.003	<0.003		<0.003	
7/20/2016									
7/21/2016									<0.003
7/22/2016							0.0002 (J)		
7/25/2016									
7/26/2016		<0.003							
7/27/2016	<0.003		0.0002 (J)	<0.003					
7/28/2016									
9/15/2016								<0.003	
9/16/2016					<0.003	<0.003			
9/19/2016							0.0001 (J)		
9/20/2016	<0.003	<0.003	0.0002 (J)	<0.003					
9/21/2016									<0.003
11/2/2016					<0.003	<0.003		<0.003	
11/3/2016							0.0002 (J)		<0.003
11/4/2016	<0.003	<0.003	0.0002 (J)						
11/7/2016				<0.003					
1/17/2017							0.0001 (J)		<0.003
1/18/2017					<0.003	<0.003		<0.003	
1/19/2017									
1/20/2017	<0.003	<0.003							
1/23/2017			<0.003	<0.003					
1/24/2017									
2/21/2017									
3/24/2017									
3/27/2017							0.0001 (J)		<0.003
3/28/2017		<0.003	0.0002 (J)		<0.003	<0.003		<0.003	
3/29/2017	<0.003			<0.003					
3/30/2017									
5/24/2017									
6/5/2017									
6/6/2017					<0.003	<0.003			<0.003
6/7/2017		<0.003					0.0001 (J)	<0.003	
6/8/2017	<0.003		0.0002 (J)	<0.003					
6/9/2017									
7/17/2017									
7/27/2017									
8/9/2017									
9/22/2017					<0.003	<0.003			
9/25/2017									<0.003

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 6/25/2018 3:56 PM View: cell9&10_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWC-47R	GWC-46R	GWC-48	GWC-47	GWA-43R (bg)	GWA-43 (bg)	GWA-42 (bg)	GWA-39Z (bg)	GWA-41R (bg)
9/26/2017							0.0001 (J)	<0.003	
9/27/2017	<0.003			<0.003					
9/29/2017		<0.003	0.0002 (J)						
3/14/2018						<0.003	0.00014 (J)	<0.003	<0.003
3/15/2018		<0.003	0.00025 (J)	<0.003	5.1E-05 (J)				
3/16/2018	<0.003								

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 6/25/2018 3:56 PM View: cell9&10_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWA-41 (bg)	GWA-40 (bg)	GWC-45R	GWC-45	GWC-44	GWC-49Z	GWC-49R	GWA-39R_39RZ ...
3/10/2016								
3/11/2016								
3/14/2016								
3/15/2016	<0.005	<0.005						
3/16/2016			<0.005	<0.005	<0.01			
3/17/2016						<0.005	<0.005	
5/11/2016		<0.003						
5/12/2016	<0.003							
5/13/2016								
5/16/2016			<0.003	<0.003	<0.003			<0.003 (D)
5/17/2016								
5/18/2016						<0.003	<0.003	
7/19/2016								
7/20/2016	<0.003							
7/21/2016		<0.003						
7/22/2016								
7/25/2016			<0.003	<0.003	<0.003			
7/26/2016								
7/27/2016							<0.003	0.0004 (JD)
7/28/2016						<0.003		
9/15/2016	<0.003	<0.003						
9/16/2016								
9/19/2016			<0.003	<0.003	<0.003			
9/20/2016								
9/21/2016						<0.003	<0.003	
11/2/2016								
11/3/2016	<0.003	<0.003	<0.003		<0.003			
11/4/2016				<0.003			<0.003	
11/7/2016						<0.003		
1/17/2017		<0.003						
1/18/2017	<0.003							
1/19/2017					<0.003			
1/20/2017			<0.003					
1/23/2017				<0.003				
1/24/2017						<0.003	<0.003	
2/21/2017								<0.003
3/24/2017	<0.003	<0.003						
3/27/2017								<0.003 (D)
3/28/2017					8E-05 (J)			
3/29/2017			<0.003	<0.003			<0.003	
3/30/2017						<0.003		
5/24/2017		<0.003						
6/5/2017					9E-05 (J)			
6/6/2017	<0.003							
6/7/2017			<0.003	<0.003				
6/8/2017							<0.003	<0.003 (D)
6/9/2017						<0.003		
7/17/2017								<0.003 (D)
7/27/2017								<0.003
8/9/2017								<0.003
9/22/2017								
9/25/2017	<0.003							

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 6/25/2018 3:57 PM View: cell9&10_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWA-41 (bg)	GWA-40 (bg)	GWC-45R	GWC-45	GWC-44	GWC-49Z	GWC-49R	GWA-39R_39RZ ...
9/26/2017		<0.003			<0.003			
9/27/2017			<0.003	<0.003				
9/29/2017						<0.003	<0.003	<0.003 (D)
3/14/2018	<0.003	<0.003						
3/15/2018			<0.003	<0.003	7.7E-05 (J)	<0.003	<0.003	
3/16/2018								<0.003

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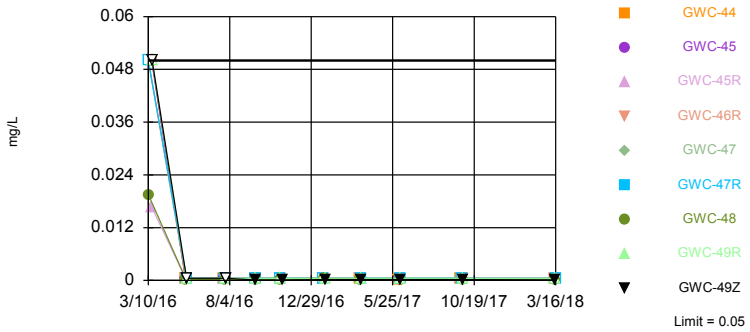
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 80 background values. 83.75% NDs. Report alpha = 0.1011. Individual comparison alpha = 0.01178. Most recent point for each compliance well compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Cadmium Analysis Run 6/25/2018 3:43 PM View: cell9&10_metals_interwell
Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

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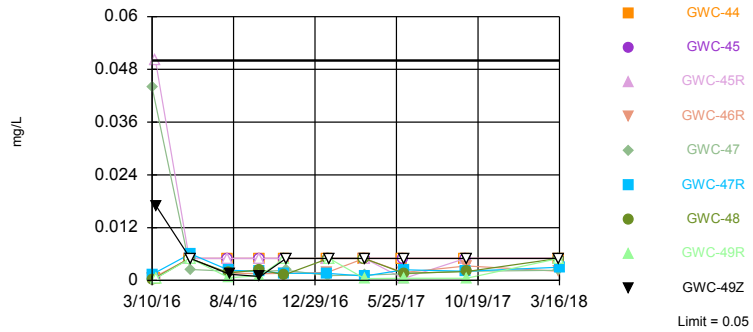
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 80 background values. 80% NDs. Report alpha = 0.1011. Individual comparison alpha = 0.01178. Most recent point for each compliance well compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Chromium Analysis Run 6/25/2018 3:43 PM View: cell9&10_metals_interwell
Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

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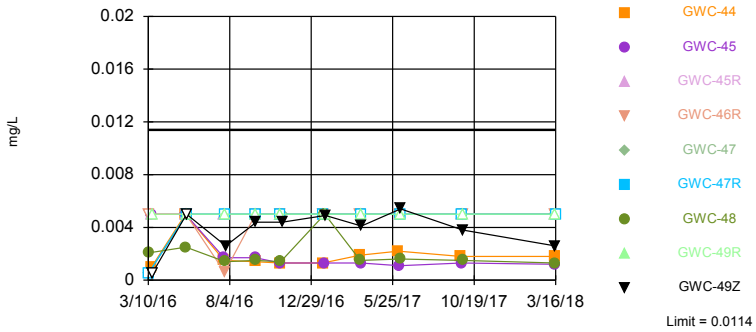
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 80 background values. 80% NDs. Report alpha = 0.1011. Individual comparison alpha = 0.01178. Most recent point for each compliance well compared to limit. Seasonality was not detected with 95% confidence.

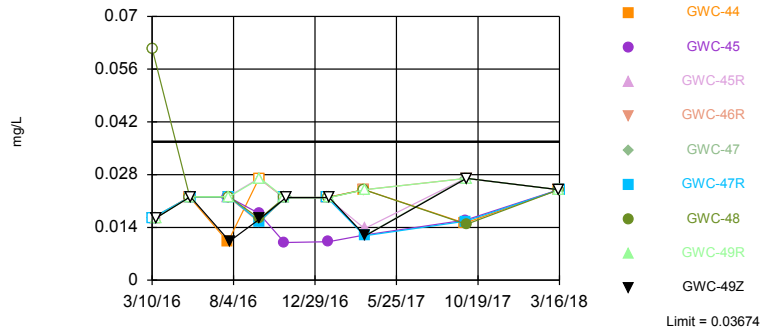
Constituent: Cobalt Analysis Run 6/25/2018 3:43 PM View: cell9&10_metals_interwell
Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

Sanitas™ v.9.5.32 Sanitas software licensed to AMEC. EPA
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 69 background values. 84.06% NDs. Report alpha = 0.1154. Individual comparison alpha = 0.01353. Most recent point for each compliance well compared to limit. Data were deseasonalized.

Constituent: Copper Analysis Run 6/25/2018 3:43 PM View: cell9&10_metals_interwell
Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 6/25/2018 3:57 PM View: cell9&10_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWC-47R	GWC-46R	GWC-48	GWC-47	GWA-43R (bg)	GWA-43 (bg)	GWA-42 (bg)	GWA-39Z (bg)	GWA-41R (bg)
3/10/2016	<0.1	<0.1	0.0195 (J)	<0.1					
3/11/2016					<0.1	<0.1	0.000121 (J)		
3/14/2016								<0.01	
3/15/2016									<0.1
3/16/2016									
3/17/2016									
5/11/2016								0.000177 (J)	
5/12/2016									
5/13/2016					<0.001	<0.001			<0.001
5/16/2016							0.000145 (J)		
5/17/2016		<0.001	0.000251 (J)						
5/18/2016	<0.001			<0.001					
7/19/2016					<0.001	<0.001		0.0001 (J)	
7/20/2016									
7/21/2016									<0.001
7/22/2016							<0.001		
7/25/2016									
7/26/2016		<0.001							
7/27/2016	<0.001		0.0002 (J)	<0.001					
7/28/2016									
9/15/2016								8E-05 (J)	
9/16/2016					<0.001	<0.001			
9/19/2016							0.0001 (J)		
9/20/2016	<0.001	<0.001	0.0002 (J)	8E-05 (J)					
9/21/2016									<0.001
11/2/2016					<0.001	<0.001		<0.001	
11/3/2016							8E-05 (J)		<0.001
11/4/2016	<0.001	<0.001	0.0001 (J)						
11/7/2016				<0.001					
1/17/2017							0.0001 (J)		<0.001
1/18/2017					<0.001	<0.001		<0.001	
1/19/2017									
1/20/2017	<0.001	<0.001							
1/23/2017			<0.001	<0.001					
1/24/2017									
2/21/2017									
3/24/2017									
3/27/2017							0.0002 (J)		<0.001
3/28/2017		<0.001	0.0001 (J)		<0.001	<0.001		<0.001	
3/29/2017	<0.001			<0.001					
3/30/2017									
5/24/2017									
6/5/2017									
6/6/2017					<0.001	8E-05 (J)			<0.001
6/7/2017		<0.001					0.0001 (J)	<0.001	
6/8/2017	<0.001		0.0002 (J)	<0.001					
6/9/2017									
7/17/2017									
7/27/2017									
8/9/2017									
9/22/2017					<0.001	<0.001			
9/25/2017									<0.001

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 6/25/2018 3:57 PM View: cell9&10_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWC-47R	GWC-46R	GWC-48	GWC-47	GWA-43R (bg)	GWA-43 (bg)	GWA-42 (bg)	GWA-39Z (bg)	GWA-41R (bg)
9/26/2017							<0.001	<0.001	
9/27/2017	<0.001			<0.001					
9/29/2017		<0.001	0.0002 (J)						
3/14/2018						<0.001	0.00011 (J)	<0.001	<0.001
3/15/2018		<0.001	0.00018 (J)	9.3E-05 (J)	<0.001				
3/16/2018	<0.001								

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 6/25/2018 3:57 PM View: cell9&10_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWA-41 (bg)	GWA-40 (bg)	GWC-45R	GWC-45	GWC-44	GWC-49Z	GWC-49R	GWA-39R_39RZ ...
3/10/2016								
3/11/2016								
3/14/2016								
3/15/2016	<0.1	<0.1						
3/16/2016			0.0167 (J)	<0.1	<0.1			
3/17/2016						<0.1	<0.1	
5/11/2016		<0.001						
5/12/2016	<0.001							
5/13/2016								
5/16/2016			<0.001	<0.001	<0.001			<0.001 (D)
5/17/2016								
5/18/2016						<0.001	<0.001	
7/19/2016								
7/20/2016	<0.001							
7/21/2016		<0.001						
7/22/2016								
7/25/2016			<0.001	<0.001	<0.001			
7/26/2016								
7/27/2016							<0.001	0.0001 (JD)
7/28/2016						<0.001		
9/15/2016	<0.001	<0.001						
9/16/2016								
9/19/2016			<0.001	<0.001	<0.001			
9/20/2016								
9/21/2016						9E-05 (J)	<0.001	
11/2/2016								
11/3/2016	<0.001	<0.001	<0.001		<0.001			
11/4/2016				<0.001			<0.001	
11/7/2016						0.0001 (J)		
1/17/2017		<0.001						
1/18/2017	<0.001							
1/19/2017					<0.001			
1/20/2017			<0.001					
1/23/2017				<0.001				
1/24/2017						0.0002 (J)	<0.001	
2/21/2017								<0.001
3/24/2017	<0.001	<0.001						
3/27/2017								<0.001 (D)
3/28/2017					<0.001			
3/29/2017			<0.001	<0.001			<0.001	
3/30/2017						0.0002 (J)		
5/24/2017		<0.001						
6/5/2017					8E-05 (J)			
6/6/2017	<0.001							
6/7/2017			<0.001	<0.001				
6/8/2017							<0.001	<0.001 (D)
6/9/2017						0.0002 (J)		
7/17/2017								<0.001 (D)
7/27/2017								<0.001
8/9/2017								<0.001
9/22/2017								
9/25/2017	<0.001							

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 6/25/2018 3:57 PM View: cell9&10_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWA-41 (bg)	GWA-40 (bg)	GWC-45R	GWC-45	GWC-44	GWC-49Z	GWC-49R	GWA-39R_39RZ ...
9/26/2017		<0.001			<0.001			
9/27/2017			<0.001	<0.001				
9/29/2017						0.0002 (J)	<0.001	<0.001 (D)
3/14/2018	<0.001	<0.001						
3/15/2018			<0.001	<0.001	<0.001	0.0001 (J)	<0.001	
3/16/2018								<0.001

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 6/25/2018 3:57 PM View: cell9&10_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWC-47R	GWC-46R	GWC-48	GWC-47	GWA-43R (bg)	GWA-43 (bg)	GWA-42 (bg)	GWA-39Z (bg)	GWA-41R (bg)
3/10/2016	0.00136 (J)	<0.001	0.000148 (J)	0.0439 (J)					
3/11/2016					0.00212 (J)	<0.001	<0.1		
3/14/2016								<0.1	
3/15/2016									<0.001
3/16/2016									
3/17/2016									
5/11/2016								<0.01	
5/12/2016									
5/13/2016					<0.01	<0.01			<0.01
5/16/2016							<0.01		
5/17/2016		<0.01	<0.01						
5/18/2016	0.00606 (J)			0.00248 (J)					
7/19/2016					0.0006 (J)	<0.01		<0.01	
7/20/2016									
7/21/2016									<0.01
7/22/2016							<0.01		
7/25/2016									
7/26/2016		0.0017 (J)							
7/27/2016	0.0023 (J)		0.0017 (J)	0.0021 (J)					
7/28/2016									
9/15/2016								<0.01	
9/16/2016					<0.01	<0.01			
9/19/2016							<0.01		
9/20/2016	0.0021 (J)	0.0015 (J)	0.0024 (J)	0.002 (J)					
9/21/2016									<0.01
11/2/2016					<0.01	<0.01		<0.01	
11/3/2016							<0.01		<0.01
11/4/2016	0.0016 (J)	0.0016 (J)	0.0013 (J)						
11/7/2016				0.0023 (J)					
1/17/2017							<0.01		<0.01
1/18/2017					0.0014 (J)	<0.01		<0.01	
1/19/2017									
1/20/2017	0.0016 (J)	0.0018 (J)							
1/23/2017			<0.01	0.0011 (J)					
1/24/2017									
2/21/2017									
3/24/2017									
3/27/2017							<0.01		<0.01
3/28/2017		<0.01 (*)	<0.01 (*)		<0.01 (*)	<0.01 (*)		<0.01 (*)	
3/29/2017	0.001 (J)			0.0012 (J)					
3/30/2017									
5/24/2017									
6/5/2017									
6/6/2017					0.0009 (J)	0.0004 (J)			0.0004 (J)
6/7/2017		0.0018 (J)					<0.01	<0.01	
6/8/2017	0.0024 (J)		0.0016 (J)	0.0015 (J)					
6/9/2017									
7/17/2017									
7/27/2017									
8/9/2017									
9/22/2017					0.0006 (J)	0.0008 (J)			
9/25/2017									<0.01

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 6/25/2018 3:57 PM View: cell9&10_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWC-47R	GWC-46R	GWC-48	GWC-47	GWA-43R (bg)	GWA-43 (bg)	GWA-42 (bg)	GWA-39Z (bg)	GWA-41R (bg)
9/26/2017							<0.01	<0.01	
9/27/2017	0.0021 (J)			0.0021 (J)					
9/29/2017		0.0033 (J)	0.002 (J)						
3/14/2018						<0.01	<0.01	<0.01	<0.01
3/15/2018		0.0021 (J)	<0.01	0.0023 (J)	0.0017 (J)				
3/16/2018	0.003 (J)								

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 6/25/2018 3:57 PM View: cell9&10_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWA-41 (bg)	GWA-40 (bg)	GWC-45R	GWC-45	GWC-44	GWC-49Z	GWC-49R	GWA-39R_39RZ ...
3/10/2016								
3/11/2016								
3/14/2016								
3/15/2016	<0.001	<0.001						
3/16/2016			<0.1	<0.001	<0.001			
3/17/2016						0.017 (J)	<0.001	
5/11/2016		<0.01						
5/12/2016	<0.01							
5/13/2016								
5/16/2016			<0.01	<0.01	<0.01			<0.01 (D)
5/17/2016								
5/18/2016						<0.01	<0.01	
7/19/2016								
7/20/2016	<0.01							
7/21/2016		<0.01						
7/22/2016								
7/25/2016			<0.01	<0.01	<0.01			
7/26/2016								
7/27/2016							0.0006 (J)	0.0017 (JD)
7/28/2016						0.0014 (J)		
9/15/2016	<0.01	<0.01						
9/16/2016								
9/19/2016			<0.01	<0.01	<0.01			
9/20/2016								
9/21/2016						0.0009 (J)	0.0011 (J)	
11/2/2016								
11/3/2016	<0.01	<0.01	<0.01		<0.01			
11/4/2016				<0.01			<0.01	
11/7/2016						<0.01		
1/17/2017		<0.01						
1/18/2017	<0.01							
1/19/2017					<0.01			
1/20/2017			<0.01					
1/23/2017				<0.01				
1/24/2017						<0.01	<0.01	
2/21/2017								0.001 (J)
3/24/2017	<0.01 (*)	<0.01 (*)						
3/27/2017								<0.01 (D)
3/28/2017					<0.01			
3/29/2017			<0.01	<0.01			0.0004 (J)	
3/30/2017						<0.01		
5/24/2017		0.0008 (J)						
6/5/2017					<0.01			
6/6/2017	<0.01							
6/7/2017			0.0004 (J)	<0.01				
6/8/2017							0.0005 (J)	<0.01 (D)
6/9/2017						<0.01		
7/17/2017								<0.01 (D)
7/27/2017								0.0005 (J)
8/9/2017								0.0005 (J)
9/22/2017								
9/25/2017	<0.01							

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 6/25/2018 3:57 PM View: cell9&10_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWA-41 (bg)	GWA-40 (bg)	GWC-45R	GWC-45	GWC-44	GWC-49Z	GWC-49R	GWA-39R_39RZ ...
9/26/2017		0.0005 (J)			<0.01			
9/27/2017			<0.01	<0.01				
9/29/2017						<0.01	0.0005 (J)	0.0006 (JD)
3/14/2018	<0.01	<0.01						
3/15/2018			<0.01	<0.01	<0.01	<0.01	<0.01	
3/16/2018								<0.01

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 6/25/2018 3:57 PM View: cell9&10_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWC-47R	GWC-46R	GWC-48	GWC-47	GWA-43R (bg)	GWA-43 (bg)	GWA-42 (bg)	GWA-39Z (bg)	GWA-41R (bg)
3/10/2016	<0.001	<0.01	0.00207 (J)	<0.001					
3/11/2016					<0.001	<0.01	<0.01		
3/14/2016								0.00503 (J)	
3/15/2016									<0.01
3/16/2016									
3/17/2016									
5/11/2016								0.0114	
5/12/2016									
5/13/2016					<0.01	<0.01			<0.01
5/16/2016							<0.01		
5/17/2016		<0.01	0.0025 (J)						
5/18/2016	<0.01			<0.01					
7/19/2016					<0.01	<0.01		0.0013 (J)	
7/20/2016									
7/21/2016									0.0006 (J)
7/22/2016							0.0004 (J)		
7/25/2016									
7/26/2016		0.0006 (J)							
7/27/2016	<0.01		0.0014 (J)	<0.01					
7/28/2016									
9/15/2016								0.002 (J)	
9/16/2016					<0.01	<0.01			
9/19/2016							<0.01		
9/20/2016	<0.01	<0.01	0.0015 (J)	<0.01					
9/21/2016									<0.01
11/2/2016					<0.01	<0.01		0.0005 (J)	
11/3/2016							<0.01		<0.01
11/4/2016	<0.01	<0.01	0.0014 (J)						
11/7/2016				<0.01					
1/17/2017							<0.01		<0.01
1/18/2017					<0.01	<0.01		0.0015 (J)	
1/19/2017									
1/20/2017	<0.01	<0.01							
1/23/2017			<0.01	<0.01					
1/24/2017									
2/21/2017									
3/24/2017									
3/27/2017							<0.01		0.0005 (J)
3/28/2017		<0.01	0.0015 (J)		<0.01	<0.01		0.0025 (J)	
3/29/2017	<0.01			<0.01					
3/30/2017									
5/24/2017									
6/5/2017									
6/6/2017					<0.01	<0.01			<0.01
6/7/2017		<0.01					<0.01	0.0023 (J)	
6/8/2017	<0.01		0.0016 (J)	<0.01					
6/9/2017									
7/17/2017									
7/27/2017									
8/9/2017									
9/22/2017					<0.01	<0.01			
9/25/2017									0.0006 (J)

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 6/25/2018 3:57 PM View: cell9&10_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWC-47R	GWC-46R	GWC-48	GWC-47	GWA-43R (bg)	GWA-43 (bg)	GWA-42 (bg)	GWA-39Z (bg)	GWA-41R (bg)
9/26/2017							<0.01	0.0011 (J)	
9/27/2017	<0.01			<0.01					
9/29/2017		<0.01	0.0015 (J)						
3/14/2018						<0.01	<0.01	0.00058 (J)	<0.01
3/15/2018		<0.01	0.0013 (J)	<0.01	<0.01				
3/16/2018	<0.01								

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 6/25/2018 3:57 PM View: cell9&10_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWA-41 (bg)	GWA-40 (bg)	GWC-45R	GWC-45	GWC-44	GWC-49Z	GWC-49R	GWA-39R_39RZ ...
3/10/2016								
3/11/2016								
3/14/2016								
3/15/2016	<0.01	<0.01						
3/16/2016			<0.01	<0.01	0.00101 (J)			
3/17/2016						<0.001	<0.01	
5/11/2016		<0.01						
5/12/2016	<0.01							
5/13/2016								
5/16/2016			<0.01	<0.01	<0.01			0.00313 (JD)
5/17/2016								
5/18/2016						<0.01	<0.01	
7/19/2016								
7/20/2016	<0.01							
7/21/2016		<0.01						
7/22/2016								
7/25/2016			<0.01	0.0017 (J)	0.0015 (J)			
7/26/2016								
7/27/2016							<0.01	0.0057 (JD)
7/28/2016						0.0026 (J)		
9/15/2016	<0.01	<0.01						
9/16/2016								
9/19/2016			<0.01	0.0017 (J)	0.0014 (J)			
9/20/2016								
9/21/2016						0.0044 (J)	<0.01	
11/2/2016								
11/3/2016	<0.01	<0.01	<0.01		0.0013 (J)			
11/4/2016				0.0013 (J)			<0.01	
11/7/2016						0.0044 (J)		
1/17/2017		<0.01						
1/18/2017	<0.01							
1/19/2017					0.0013 (J)			
1/20/2017			<0.01					
1/23/2017				0.0013 (J)				
1/24/2017						0.0049 (J)	<0.01	
2/21/2017								<0.01
3/24/2017	<0.01	<0.01						
3/27/2017								<0.01 (D)
3/28/2017					0.0019 (J)			
3/29/2017			<0.01	0.0013 (J)			<0.01	
3/30/2017						0.0041 (J)		
5/24/2017		<0.01						
6/5/2017					0.0022 (J)			
6/6/2017	<0.01							
6/7/2017			<0.01	0.0011 (J)				
6/8/2017							<0.01	<0.01 (D)
6/9/2017						0.0054 (J)		
7/17/2017								<0.01 (D)
7/27/2017								<0.01
8/9/2017								<0.01
9/22/2017								
9/25/2017	<0.01							

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 6/25/2018 3:57 PM View: cell9&10_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWA-41 (bg)	GWA-40 (bg)	GWC-45R	GWC-45	GWC-44	GWC-49Z	GWC-49R	GWA-39R_39RZ ...
9/26/2017		<0.01			0.0018 (J)			
9/27/2017			<0.01	0.0013 (J)				
9/29/2017						0.0038 (J)	<0.01	<0.01 (D)
3/14/2018	<0.01	<0.01						
3/15/2018			<0.01	0.0012 (J)	0.0018 (J)	0.0026 (J)	<0.01	
3/16/2018								<0.01

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 6/25/2018 3:57 PM View: cell9&10_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWC-48	GWC-47	GWC-47R	GWC-46R	GWA-43 (bg)	GWA-42 (bg)	GWA-43R (bg)	GWA-39Z (bg)	GWA-41 (bg)
3/10/2016	0.061491912..	0.016491911..	0.016491911..	0.016491911..					
3/11/2016					0.016491911..	0.016491911..	0.016491911..		
3/14/2016								0.016491911..	
3/15/2016									0.016491911..
3/16/2016									
3/17/2016									
5/11/2016								0.022138970..	
5/12/2016									0.022138970..
5/13/2016					0.022138970..		0.022138970..		
5/16/2016						0.022138970..			
5/17/2016	0.022138970..			0.022138970..					
5/18/2016		0.022138970..	0.022138970..						
7/19/2016					0.022138970..		0.022138970..	0.01014 (J)	
7/20/2016									0.022138970..
7/21/2016									
7/22/2016						0.022138970..			
7/25/2016									
7/26/2016				0.022138970..					
7/27/2016	0.022138970..	0.022138970..	0.022138970..						
7/28/2016									
9/15/2016								0.027017045..	0.01522 (J)
9/16/2016					0.027017045..		0.027017045..		
9/19/2016						0.01752 (J)			
9/20/2016	0.01632 (J)	0.01562 (J)	0.01552 (J)	0.01532 (J)					
9/21/2016									
11/2/2016					0.021900000..		0.021900000..	0.021900000..	
11/3/2016						0.021900000..			0.021900000..
11/4/2016	0.021900000..		0.021900000..	0.021900000..					
11/7/2016		0.021900000..							
1/17/2017						0.021900000..			
1/18/2017					0.021900000..		0.021900000..	0.021900000..	0.021900000..
1/19/2017									
1/20/2017			0.021900000..	0.021900000..					
1/23/2017	0.021900000..	0.021900000..							
1/24/2017									
2/21/2017									
3/24/2017									0.023991912..
3/27/2017						0.023991912..			
3/28/2017	0.023991912.. (*)			0.023991912..	0.023991912.. (*)		0.023991912.. (*)	0.023991912.. (*)	
3/29/2017		0.01179 (J)	0.01179 (J)						
3/30/2017									
9/22/2017					0.01492 (J)		0.01512 (J)		
9/25/2017									0.01482 (J)
9/26/2017						0.027017045..		0.01502 (J)	
9/27/2017		0.027017045..	0.01562 (J)						
9/29/2017	0.01482 (J)			0.027017045..					
3/14/2018					0.023991912..	0.023991912..		0.023991912..	0.023991912..
3/15/2018	0.023991912..	0.023991912..		0.023991912..			0.023991912..		
3/16/2018			0.023991912..						

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 6/25/2018 3:57 PM View: cell9&10_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

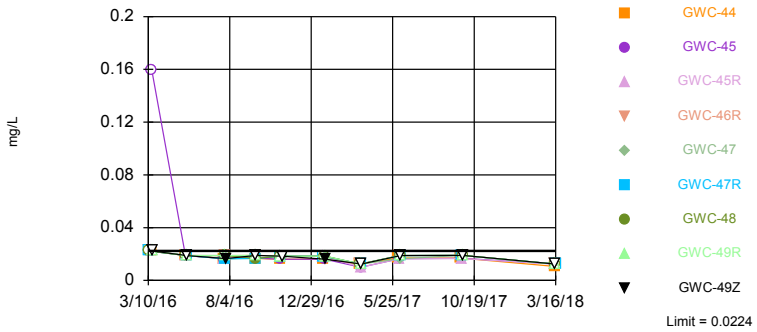
	GWA-41R (bg)	GWA-40 (bg)	GWC-45	GWC-45R	GWC-44	GWC-49R	GWC-49Z	GWA-39R_39RZ ...
3/10/2016								
3/11/2016								
3/14/2016								
3/15/2016	0.016491911..	0.016491911..						
3/16/2016			0.016491911..	0.016491911..	0.016491911..			
3/17/2016						0.016491911..	0.016491911..	
5/11/2016		0.022138970..						
5/12/2016								
5/13/2016	0.022138970..							
5/16/2016			0.022138970..	0.022138970..	0.022138970..			0.022138970.. (D)
5/17/2016								
5/18/2016						0.022138970..	0.022138970..	
7/19/2016								
7/20/2016								
7/21/2016	0.01014 (J)	0.022138970..						
7/22/2016								
7/25/2016			0.022138970..	0.022138970..	0.01014 (J)			
7/26/2016								
7/27/2016						0.022138970..		0.03674 (D)
7/28/2016							0.01034 (J)	
9/15/2016		0.027017045..						
9/16/2016								
9/19/2016			0.01772 (J)	0.027017045..	0.027017045..			
9/20/2016								
9/21/2016	0.027017045..					0.027017045..	0.01632 (J)	
11/2/2016								
11/3/2016	0.021900000..	0.021900000..		0.021900000..	0.021900000..			
11/4/2016			0.01 (J)			0.021900000..		
11/7/2016							0.021900000..	
1/17/2017	0.021900000..	0.021900000..						
1/18/2017								
1/19/2017					0.021900000..			
1/20/2017				0.021900000..				
1/23/2017			0.0102 (J)					
1/24/2017						0.021900000..	0.021900000..	
2/21/2017								0.023991912..
3/24/2017		0.023991912..						
3/27/2017	0.023991912..							0.023991912.. (D)
3/28/2017					0.023991912.. (*)			
3/29/2017			0.01199 (J)	0.01369 (J)		0.023991912..		
3/30/2017							0.01179 (J)	
9/22/2017								
9/25/2017	0.01522 (J)							
9/26/2017		0.027017045..			0.01512 (J)			
9/27/2017			0.01592 (J)	0.027017045..				
9/29/2017						0.027017045..	0.027017045..	0.027017045.. (D)
3/14/2018	0.01359 (J)	0.023991912..						
3/15/2018			0.023991912..	0.023991912..	0.023991912..	0.023991912..	0.023991912..	
3/16/2018								0.023991912..

Sanitas™ v.9.5.32 Sanitas software licensed to AMEC. EPA
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 80 background values. 78.75% NDs. Report alpha = 0.1011. Individual comparison alpha = 0.01178. Most recent point for each compliance well compared to limit. Data were deseasonalized.

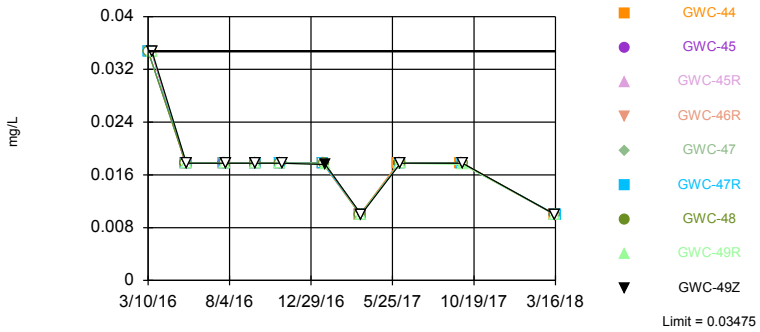
Constituent: Lead Analysis Run 6/25/2018 3:44 PM View: cell9&10_metals_interwell
Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

Sanitas™ v.9.5.32 Sanitas software licensed to AMEC. EPA
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 80 background values. 100% NDs. Report alpha = 0.1011. Individual comparison alpha = 0.01178. Most recent point for each compliance well compared to limit. Data were deseasonalized.

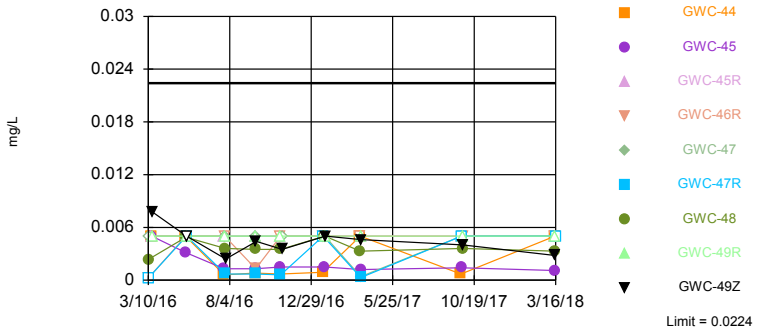
Constituent: Mercury Analysis Run 6/25/2018 3:44 PM View: cell9&10_metals_interwell
Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

Sanitas™ v.9.5.32 Sanitas software licensed to AMEC. EPA
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 69 background values. 53.62% NDs. Report alpha = 0.1154. Individual comparison alpha = 0.01353. Most recent point for each compliance well compared to limit. Seasonality was not detected with 95% confidence.

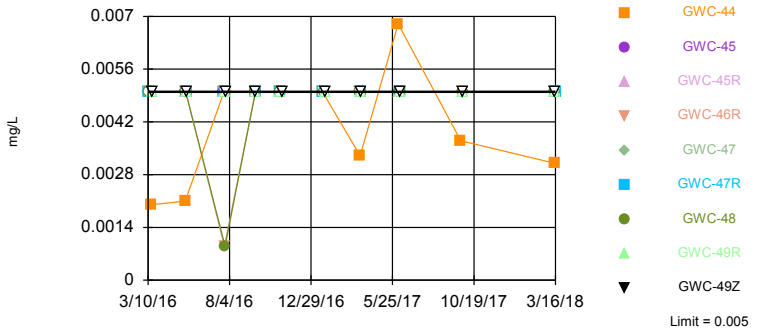
Constituent: Nickel Analysis Run 6/25/2018 3:44 PM View: cell9&10_metals_interwell
Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

Sanitas™ v.9.5.32 Sanitas software licensed to AMEC. EPA
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 80 background values. 98.75% NDs. Report alpha = 0.1011. Individual comparison alpha = 0.01178. Most recent point for each compliance well compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Selenium Analysis Run 6/25/2018 3:44 PM View: cell9&10_metals_interwell
Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 6/25/2018 3:57 PM View: cell9&10_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWC-47R	GWC-46R	GWC-48	GWC-47	GWA-43R (bg)	GWA-43 (bg)	GWA-42 (bg)	GWA-39Z (bg)	GWA-41R (bg)
3/10/2016	0.022400000..	0.022400000..	0.022400000..	0.022400000..					
3/11/2016					0.022400000..	0.022400000..	0.022400000..		
3/14/2016								0.022400000..	
3/15/2016									0.022400000..
3/16/2016									
3/17/2016									
5/11/2016								0.018824350..	
5/12/2016									
5/13/2016					0.018824350..	0.018824350..			0.018824350..
5/16/2016							0.018824350..		
5/17/2016		0.018824350..	0.018824350..						
5/18/2016	0.018824350..			0.018824350..					
7/19/2016					0.018824350..	0.018824350..		0.018824350..	
7/20/2016									
7/21/2016									0.01642 (J)
7/22/2016							0.01642 (J)		
7/25/2016									
7/26/2016		0.018824350..							
7/27/2016	0.01641 (J)		0.018824350..	0.01641 (J)					
7/28/2016									
9/15/2016								0.018994117..	
9/16/2016					0.018994117..	0.018994117..			
9/19/2016							0.01669 (J)		
9/20/2016	0.01659 (J)	0.018994117..	0.01669 (J)	0.01679 (J)					
9/21/2016									0.018994117..
11/2/2016					0.018404669..	0.018404669..		0.018404669..	
11/3/2016							0.018404669..		0.018404669..
11/4/2016	0.018404669..	0.018404669..	0.018404669..						
11/7/2016				0.018404669..					
1/17/2017							0.018404669..		0.018404669..
1/18/2017					0.018404669..	0.018404669..		0.018404669..	
1/19/2017									
1/20/2017	0.018404669..	0.018404669..							
1/23/2017			0.018404669..	0.018404669..					
1/24/2017									
2/21/2017									
3/24/2017									
3/27/2017							0.012399999..		0.012399999..
3/28/2017		0.012399999..	0.012399999.. (*)		0.012399999..	0.012399999..		0.012399999.. (*)	
3/29/2017	0.012399999..			0.012399999..					
3/30/2017									
5/24/2017									
6/5/2017									
6/6/2017					0.01642 (J)	0.01639 (J)			0.018824350..
6/7/2017		0.018824350..					0.018824350..	0.0164 (J)	
6/8/2017	0.018824350..		0.018824350..	0.01642 (J)					
6/9/2017									
7/17/2017									
7/27/2017									
8/9/2017									
9/22/2017					0.01656 (J)	0.01657 (J)			
9/25/2017									0.01659 (J)

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 6/25/2018 3:57 PM View: cell9&10_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWC-47R	GWC-46R	GWC-48	GWC-47	GWA-43R (bg)	GWA-43 (bg)	GWA-42 (bg)	GWA-39Z (bg)	GWA-41R (bg)
9/26/2017							0.018994117..	0.01669 (J)	
9/27/2017	0.018994117..			0.018994117..					
9/29/2017		0.018994117..	0.018994117..						
3/14/2018						0.012399999..	0.012399999..	0.012399999..	0.01021 (J)
3/15/2018		0.012399999..	0.012399999..	0.012399999..	0.0137 (J)				
3/16/2018	0.012399999..								

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 6/25/2018 3:57 PM View: cell9&10_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWA-41 (bg)	GWA-40 (bg)	GWC-45R	GWC-45	GWC-44	GWC-49Z	GWC-49R	GWA-39R_39RZ ...
3/10/2016								
3/11/2016								
3/14/2016								
3/15/2016	0.022400000..	0.022400000..						
3/16/2016			0.022400000..	0.159900005..	0.022400000..			
3/17/2016						0.022400000..	0.022400000..	
5/11/2016		0.018824350..						
5/12/2016	0.018824350..							
5/13/2016								
5/16/2016			0.018824350..	0.018824350..	0.018824350..			0.018824350.. (D)
5/17/2016								
5/18/2016						0.018824350..	0.018824350..	
7/19/2016								
7/20/2016	0.018824350..							
7/21/2016		0.018824350..						
7/22/2016								
7/25/2016			0.01642 (J)	0.01652 (J)	0.01662 (J)			
7/26/2016								
7/27/2016							0.018824350..	0.01742 (JD)
7/28/2016						0.01652 (J)		
9/15/2016	0.018994117..	0.018994117..						
9/16/2016								
9/19/2016			0.018994117..	0.01689 (J)	0.01669 (J)			
9/20/2016								
9/21/2016						0.018994117.. (*)	0.018994117..	
11/2/2016								
11/3/2016	0.018404669..	0.018404669..	0.018404669..		0.0161 (J)			
11/4/2016				0.0161 (J)			0.018404669..	
11/7/2016						0.018404669..		
1/17/2017		0.018404669..						
1/18/2017	0.018404669..							
1/19/2017					0.0162 (J)			
1/20/2017			0.018404669..					
1/23/2017				0.016 (J)				
1/24/2017						0.0161 (J)	0.018404669..	
2/21/2017								0.012399999..
3/24/2017	0.012399999..	0.012399999.. (*)						
3/27/2017								0.012399999.. (D)
3/28/2017					0.012399999.. (*)			
3/29/2017			0.01 (J)	0.01 (J)			0.012399999..	
3/30/2017						0.012399999..		
5/24/2017		0.01642 (J)						
6/5/2017					0.01702 (J)			
6/6/2017	0.018824350..							
6/7/2017			0.0164 (J)	0.01642 (J)				
6/8/2017							0.018824350..	0.018824350.. (D)
6/9/2017						0.018824350..		
7/17/2017								0.018824350.. (D)
7/27/2017								0.01642 (J)
8/9/2017								0.018994117..
9/22/2017								
9/25/2017	0.018994117..							

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 6/25/2018 3:57 PM View: cell9&10_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWA-41 (bg)	GWA-40 (bg)	GWC-45R	GWC-45	GWC-44	GWC-49Z	GWC-49R	GWA-39R_39RZ ...
9/26/2017		0.01659 (J)			0.01689 (J)			
9/27/2017			0.01658 (J)	0.01679 (J)				
9/29/2017						0.018994117..	0.018994117..	0.018994117.. (D)
3/14/2018	0.012399999..	0.01036 (J)						
3/15/2018			0.012399999..	0.012399999..	0.01054 (J)	0.012399999..	0.012399999..	
3/16/2018								0.012399999..

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 6/25/2018 3:57 PM View: cell9&10_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWC-47R	GWC-46R	GWC-48	GWC-47	GWA-43R (bg)	GWA-43 (bg)	GWA-42 (bg)	GWA-39Z (bg)	GWA-41R (bg)
3/10/2016	0.034750000..	0.034750000..	0.034750000..	0.034750000..					
3/11/2016					0.034750000..	0.034750000..	0.034750000..		
3/14/2016								0.034750000..	
3/15/2016									0.034750000..
3/16/2016									
3/17/2016									
5/11/2016								0.017764705..	
5/12/2016									
5/13/2016					0.017764705..	0.017764705..			0.017764705..
5/16/2016							0.017764705..		
5/17/2016		0.017764705..	0.017764705..						
5/18/2016	0.017764705..			0.017764705..					
7/19/2016					0.017764705..	0.017764705..		0.017764705..	
7/20/2016									
7/21/2016									0.017764705..
7/22/2016							0.017764705..		
7/25/2016									
7/26/2016		0.017764705..							
7/27/2016	0.017764705..		0.017764705..	0.017764705..					
7/28/2016									
9/15/2016								0.017770882..	
9/16/2016					0.017770882..	0.017770882..			
9/19/2016							0.017770882..		
9/20/2016	0.017770882..	0.017770882..	0.017770882..	0.017770882..					
9/21/2016									0.017770882..
11/2/2016					0.017777205..	0.017777205..		0.017777205..	
11/3/2016							0.017777205..		0.017777205..
11/4/2016	0.017777205..	0.017777205..	0.017777205..						
11/7/2016				0.017777205..					
1/17/2017							0.017777205..		0.017777205..
1/18/2017					0.017777205..	0.017777205..		0.017777205..	
1/19/2017									
1/20/2017	0.017777205..	0.017777205..							
1/23/2017			0.017777205..	0.017777205..					
1/24/2017									
2/21/2017									
3/24/2017									
3/27/2017							0.01		0.01
3/28/2017		0.01	0.01		0.01	0.01		0.01	
3/29/2017	0.01 (*)			0.01 (*)					
3/30/2017									
5/24/2017									
6/5/2017									
6/6/2017					0.017764705..	0.017764705..			0.017764705..
6/7/2017		0.017764705..					0.017764705..	0.017764705..	
6/8/2017	0.017764705..		0.017764705..	0.017764705..					
6/9/2017									
7/17/2017									
7/27/2017									
8/9/2017									
9/22/2017					0.017770882..	0.017770882..			
9/25/2017									0.017770882..

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 6/25/2018 3:57 PM View: cell9&10_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWC-47R	GWC-46R	GWC-48	GWC-47	GWA-43R (bg)	GWA-43 (bg)	GWA-42 (bg)	GWA-39Z (bg)	GWA-41R (bg)
9/26/2017							0.017770882..	0.017770882..	
9/27/2017	0.017770882..			0.017770882..					
9/29/2017		0.017770882..	0.017770882..						
3/14/2018						0.01	0.01	0.01	0.01
3/15/2018		0.01	0.01	0.01	0.01				
3/16/2018	0.01								

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 6/25/2018 3:57 PM View: cell9&10_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWA-41 (bg)	GWA-40 (bg)	GWC-45R	GWC-45	GWC-44	GWC-49Z	GWC-49R	GWA-39R_39RZ ...
3/10/2016								
3/11/2016								
3/14/2016								
3/15/2016	0.034750000..	0.034750000..						
3/16/2016			0.034750000..	0.034750000..	0.034750000..			
3/17/2016						0.034750000..	0.034750000..	
5/11/2016		0.017764705..						
5/12/2016	0.017764705..							
5/13/2016								
5/16/2016			0.017764705..	0.017764705..	0.017764705..			0.017764705.. (D)
5/17/2016								
5/18/2016						0.017764705..	0.017764705..	
7/19/2016								
7/20/2016	0.017764705..							
7/21/2016		0.017764705..						
7/22/2016								
7/25/2016			0.017764705..	0.017764705..	0.017764705..			
7/26/2016								
7/27/2016							0.017764705..	0.017764705.. (D)
7/28/2016						0.017764705..		
9/15/2016	0.017770882..	0.017770882..						
9/16/2016								
9/19/2016			0.017770882..	0.017770882..	0.017770882..			
9/20/2016								
9/21/2016						0.017770882..	0.017770882..	
11/2/2016								
11/3/2016	0.017777205..	0.017777205..	0.017777205..		0.017777205..			
11/4/2016				0.017777205..			0.017777205..	
11/7/2016						0.017777205..		
1/17/2017		0.017777205..						
1/18/2017	0.017777205..							
1/19/2017					0.017777205..			
1/20/2017			0.017777205..					
1/23/2017				0.017777205..				
1/24/2017						0.01758 (J)	0.01758 (J)	
2/21/2017								0.01
3/24/2017	0.01	0.01						
3/27/2017								0.01 (D)
3/28/2017					0.01			
3/29/2017			0.01 (*)	0.01 (*)			0.01 (*)	
3/30/2017						0.01 (*)		
5/24/2017		0.017764705..						
6/5/2017					0.017764705..			
6/6/2017	0.017764705..							
6/7/2017			0.017764705..	0.017764705..				
6/8/2017							0.017764705..	0.017764705.. (D)
6/9/2017						0.017764705..		
7/17/2017								0.017764705.. (D)
7/27/2017								0.017764705..
8/9/2017								0.017770882..
9/22/2017								
9/25/2017	0.017770882..							

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 6/25/2018 3:57 PM View: cell9&10_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWA-41 (bg)	GWA-40 (bg)	GWC-45R	GWC-45	GWC-44	GWC-49Z	GWC-49R	GWA-39R_39RZ ...
9/26/2017		0.017770882..			0.017770882..			
9/27/2017			0.017770882..	0.017770882..				
9/29/2017						0.017770882..	0.01756 (J)	0.017770882.. (D)
3/14/2018	0.01	0.01						
3/15/2018			0.01	0.01	0.01	0.01	0.01	
3/16/2018								0.01

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 6/25/2018 3:57 PM View: cell9&10_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWC-48	GWC-47	GWC-47R	GWC-46R	GWA-43 (bg)	GWA-42 (bg)	GWA-43R (bg)	GWA-39Z (bg)	GWA-41 (bg)
3/10/2016	0.00235 (J)	<0.01	<0.0005	<0.0005					
3/11/2016					0.00288 (J)	<0.01	<0.01		
3/14/2016								0.00544 (J)	
3/15/2016									<0.01
3/16/2016									
3/17/2016									
5/11/2016								0.0149	
5/12/2016									<0.01
5/13/2016					<0.01		<0.01		
5/16/2016						0.00233 (J)			
5/17/2016	0.00489 (J)			<0.01					
5/18/2016		<0.01	<0.01						
7/19/2016					0.0006 (J)		<0.01	0.0044 (J)	
7/20/2016									0.0006 (J)
7/21/2016									
7/22/2016						0.0014 (J)			
7/25/2016									
7/26/2016				<0.01					
7/27/2016	0.0036 (J)	<0.01	0.0007 (J)						
7/28/2016									
9/15/2016								0.0047 (J)	0.0009 (J)
9/16/2016					0.0008 (J)		<0.01		
9/19/2016						0.0014 (J)			
9/20/2016	0.0035 (J)	<0.01	0.0007 (J)	0.0013 (J)					
9/21/2016									
11/2/2016					0.0007 (J)		<0.01	0.0025 (J)	
11/3/2016						0.0013 (J)			0.0011 (J)
11/4/2016	0.0035 (J)		0.0006 (J)	<0.01					
11/7/2016		<0.01							
1/17/2017						0.0011 (J)			
1/18/2017					0.0006 (J)		0.0006 (J)	0.004 (J)	0.0007 (J)
1/19/2017									
1/20/2017			<0.01	<0.01					
1/23/2017	<0.01	<0.01							
1/24/2017									
2/21/2017									
3/24/2017									<0.01 (*)
3/27/2017						<0.01 (*)			
3/28/2017	0.0033 (J)			<0.01	<0.01 (*)		<0.01 (*)	0.0034 (J)	
3/29/2017		0.0004 (J)	0.0003 (J)						
3/30/2017									
9/22/2017					0.0007 (J)		<0.01		
9/25/2017									<0.01
9/26/2017						0.0011 (J)		0.0016 (J)	
9/27/2017		<0.01	<0.01						
9/29/2017	0.0036 (J)			<0.01					
3/14/2018					<0.01	0.0012 (J)		<0.01	<0.01
3/15/2018	0.0033 (J)	<0.01		<0.01			<0.01		
3/16/2018			<0.01						

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 6/25/2018 3:57 PM View: cell9&10_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWA-41R (bg)	GWA-40 (bg)	GWC-45	GWC-45R	GWC-44	GWC-49R	GWC-49Z	GWA-39R_39RZ ...
3/10/2016								
3/11/2016								
3/14/2016								
3/15/2016	<0.0005	<0.01						
3/16/2016			<0.01	<0.01	<0.01			
3/17/2016						<0.01	0.00778 (J)	
5/11/2016		<0.01						
5/12/2016								
5/13/2016	<0.01							
5/16/2016			0.00316 (J)	<0.01	<0.01			0.0136 (D)
5/17/2016								
5/18/2016						<0.01	<0.01	
7/19/2016								
7/20/2016								
7/21/2016	0.0009 (J)	<0.01						
7/22/2016								
7/25/2016			0.0013 (J)	<0.01	0.0006 (J)			
7/26/2016								
7/27/2016						<0.01		0.0224 (D)
7/28/2016							0.0024 (J)	
9/15/2016		<0.01						
9/16/2016								
9/19/2016			0.0013 (J)	<0.01	0.0008 (J)			
9/20/2016								
9/21/2016	<0.01					<0.01	0.0044 (J)	
11/2/2016								
11/3/2016	<0.01	<0.01		<0.01	0.0007 (J)			
11/4/2016			0.0015 (J)			<0.01		
11/7/2016							0.0035 (J)	
1/17/2017	<0.01	<0.01						
1/18/2017								
1/19/2017					0.0009 (J)			
1/20/2017				<0.01				
1/23/2017			0.0015 (J)					
1/24/2017						<0.01	0.005 (J)	
2/21/2017								0.0007 (J)
3/24/2017		<0.01 (*)						
3/27/2017	<0.01 (*)							<0.01 (D)
3/28/2017					<0.01 (*)			
3/29/2017			0.0012 (J)	<0.01		<0.01		
3/30/2017							0.0046 (J)	
9/22/2017								
9/25/2017	0.0012 (J)							
9/26/2017		<0.01			0.0007 (J)			
9/27/2017			0.0014 (J)	<0.01				
9/29/2017						<0.01	0.004 (J)	<0.01 (D)
3/14/2018	0.0014 (J)	<0.01						
3/15/2018			0.0011 (J)	<0.01	<0.01	<0.01	0.0028 (J)	
3/16/2018								<0.01

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 6/25/2018 3:58 PM View: cell9&10_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWC-46R	GWC-47R	GWC-47	GWC-48	GWA-42 (bg)	GWA-43 (bg)	GWA-43R (bg)	GWA-39Z (bg)	GWA-40 (bg)
3/10/2016	<0.01	<0.01	<0.01	<0.01					
3/11/2016					<0.01	0.00236 (J)	<0.01		
3/14/2016								<0.01	
3/15/2016									<0.01
3/16/2016									
3/17/2016									
5/11/2016								<0.01	<0.01
5/12/2016									
5/13/2016						<0.01	<0.01		
5/16/2016					<0.01				
5/17/2016	<0.01			<0.01					
5/18/2016		<0.01	<0.01						
7/19/2016						<0.01	<0.01	<0.01	
7/20/2016									
7/21/2016									<0.01
7/22/2016					<0.01				
7/25/2016									
7/26/2016	0.0009 (J)								
7/27/2016		<0.01	<0.01	0.0009 (J)					
7/28/2016									
9/15/2016								<0.01	<0.01
9/16/2016						<0.01	<0.01		
9/19/2016					<0.01				
9/20/2016	<0.01	<0.01	<0.01	<0.01					
9/21/2016									
11/2/2016						<0.01	<0.01	<0.01	
11/3/2016					<0.01				<0.01
11/4/2016	<0.01	<0.01		<0.01					
11/7/2016			<0.01						
1/17/2017					<0.01				<0.01
1/18/2017						<0.01	<0.01	<0.01	
1/19/2017									
1/20/2017	<0.01	<0.01							
1/23/2017			<0.01	<0.01					
1/24/2017									
2/21/2017									
3/24/2017									<0.01
3/27/2017					<0.01				
3/28/2017	<0.01			<0.01		<0.01	<0.01	<0.01	
3/29/2017		<0.01	<0.01						
3/30/2017									
5/24/2017									<0.01
6/5/2017									
6/6/2017						<0.01	<0.01		
6/7/2017	<0.01				<0.01			<0.01	
6/8/2017		<0.01	<0.01	<0.01					
6/9/2017									
7/17/2017									
7/27/2017									
8/9/2017									
9/22/2017						<0.01	<0.01		
9/25/2017									

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 6/25/2018 3:58 PM View: cell9&10_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWC-46R	GWC-47R	GWC-47	GWC-48	GWA-42 (bg)	GWA-43 (bg)	GWA-43R (bg)	GWA-39Z (bg)	GWA-40 (bg)
9/26/2017					<0.01			<0.01	<0.01
9/29/2017	<0.01			<0.01					
3/14/2018					<0.01	<0.01		<0.01	<0.01
3/15/2018	<0.01		<0.01	<0.01			<0.01		
3/16/2018		<0.01							

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 6/25/2018 3:58 PM View: cell9&10_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWA-41 (bg)	GWA-41R (bg)	GWC-45R	GWC-45	GWC-44	GWC-49Z	GWC-49R	GWA-39R_39RZ ...
3/10/2016								
3/11/2016								
3/14/2016								
3/15/2016	<0.01	<0.01						
3/16/2016			<0.01	<0.01	0.002 (J)			
3/17/2016						<0.01	<0.01	
5/11/2016								
5/12/2016	<0.01							
5/13/2016		<0.01						
5/16/2016			<0.01	<0.01	0.0021 (J)			<0.01 (D)
5/17/2016								
5/18/2016						<0.01	<0.01	
7/19/2016								
7/20/2016	<0.01							
7/21/2016		<0.01						
7/22/2016								
7/25/2016			<0.01	<0.01	<0.01			
7/26/2016								
7/27/2016							<0.01	<0.01 (D)
7/28/2016						<0.01		
9/15/2016	<0.01							
9/16/2016								
9/19/2016			<0.01	<0.01	<0.01			
9/20/2016								
9/21/2016		<0.01				<0.01	<0.01	
11/2/2016								
11/3/2016	<0.01	<0.01	<0.01		<0.01			
11/4/2016				<0.01			<0.01	
11/7/2016						<0.01		
1/17/2017		<0.01						
1/18/2017	<0.01							
1/19/2017					<0.01			
1/20/2017			<0.01					
1/23/2017				<0.01				
1/24/2017						<0.01	<0.01	
2/21/2017								<0.01
3/24/2017	<0.01							
3/27/2017		<0.01						<0.01 (D)
3/28/2017					0.0033 (J)			
3/29/2017			<0.01	<0.01			<0.01	
3/30/2017						<0.01		
5/24/2017								
6/5/2017					0.0068 (J)			
6/6/2017	<0.01	<0.01						
6/7/2017			<0.01	<0.01				
6/8/2017							<0.01	<0.01 (D)
6/9/2017						<0.01		
7/17/2017								<0.01 (D)
7/27/2017								<0.01
8/9/2017								<0.01
9/22/2017								
9/25/2017	<0.01	<0.01						

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 6/25/2018 3:58 PM View: cell9&10_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWA-41 (bg)	GWA-41R (bg)	GWC-45R	GWC-45	GWC-44	GWC-49Z	GWC-49R	GWA-39R_39RZ ...
9/26/2017					0.0037 (J)			
9/29/2017						<0.01	<0.01	<0.01 (D)
3/14/2018	<0.01	<0.01						
3/15/2018			<0.01	<0.01	0.0031 (J)	<0.01	<0.01	
3/16/2018								<0.01

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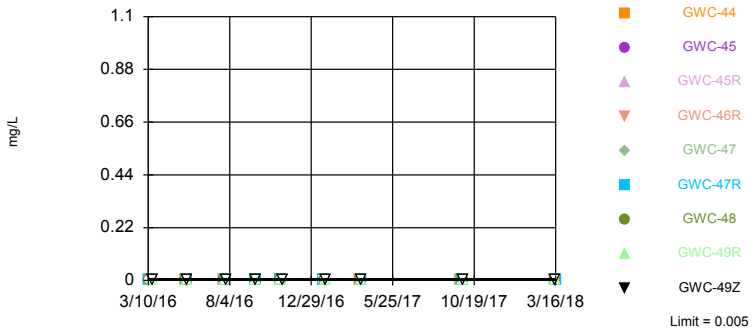
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 69 background values. 98.55% NDs. Report alpha = 0.1154. Individual comparison alpha = 0.01353. Most recent point for each compliance well compared to limit. Seasonality was not detected with 95% confidence.

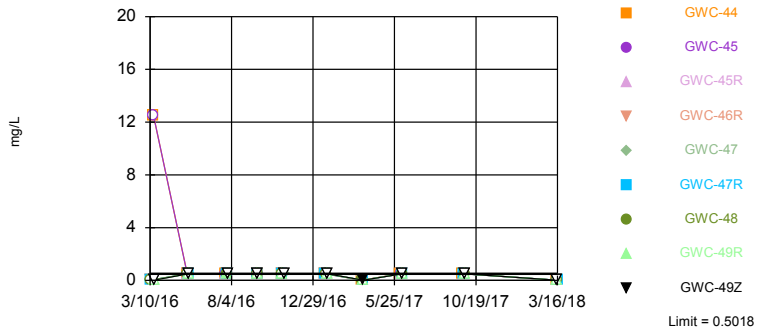
Constituent: Silver Analysis Run 6/25/2018 3:44 PM View: cell9&10_metals_interwell
Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

Sanitas™ v.9.5.32 Sanitas software licensed to AMEC. EPA
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 80 background values. 92.5% NDs. Report alpha = 0.1011. Individual comparison alpha = 0.01178. Most recent point for each compliance well compared to limit. Data were deseasonalized.

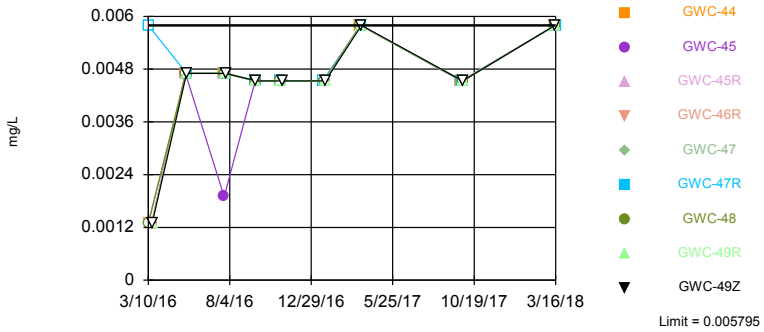
Constituent: Thallium Analysis Run 6/25/2018 3:45 PM View: cell9&10_metals_interwell
Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

Sanitas™ v.9.5.32 Sanitas software licensed to AMEC. EPA
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 69 background values. 95.65% NDs. Report alpha = 0.1154. Individual comparison alpha = 0.01353. Most recent point for each compliance well compared to limit. Data were deseasonalized.

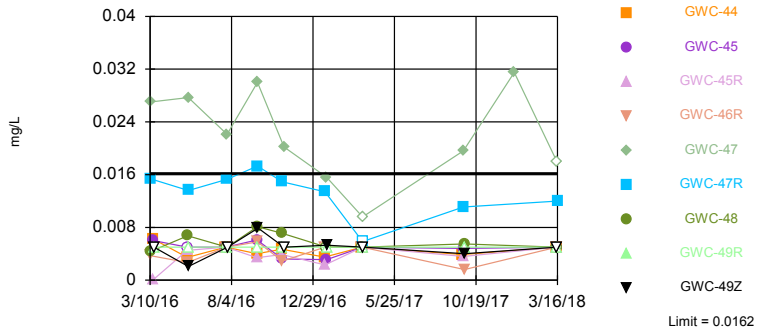
Constituent: Vanadium Analysis Run 6/25/2018 3:45 PM View: cell9&10_metals_interwell
Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

Sanitas™ v.9.5.32 Sanitas software licensed to AMEC. EPA
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 69 background values. 60.87% NDs. Report alpha = 0.1154. Individual comparison alpha = 0.01353. Most recent point for each compliance well compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Zinc Analysis Run 6/25/2018 3:45 PM View: cell9&10_metals_interwell
Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

Prediction Limit

Constituent: Silver (mg/L) Analysis Run 6/25/2018 3:58 PM View: cell9&10_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWC-48	GWC-47	GWC-47R	GWC-46R	GWA-43 (bg)	GWA-42 (bg)	GWA-43R (bg)	GWA-39Z (bg)	GWA-41 (bg)
3/10/2016	<0.01	<0.01	<0.01	<0.01					
3/11/2016					<0.01	<0.01	<0.01		
3/14/2016								<0.01	
3/15/2016									<0.01
3/16/2016									
3/17/2016									
5/11/2016								<0.01	
5/12/2016									<0.01
5/13/2016					<0.01		<0.01		
5/16/2016						<0.01			
5/17/2016	<0.01			<0.01					
5/18/2016		<0.01	<0.01						
7/19/2016					<0.01		<0.01	<0.01	
7/20/2016									<0.01
7/21/2016									
7/22/2016						<0.01			
7/25/2016									
7/26/2016				<0.01					
7/27/2016	<0.01	<0.01	<0.01						
7/28/2016									
9/15/2016								<0.01	<0.01
9/16/2016					<0.01		<0.01		
9/19/2016						<0.01			
9/20/2016	<0.01	<0.01	<0.01	<0.01					
9/21/2016									
11/2/2016					<0.01		<0.01	<0.01	
11/3/2016						<0.01			<0.01
11/4/2016	<0.01		<0.01	<0.01					
11/7/2016		<0.01							
1/17/2017						<0.01			
1/18/2017					<0.01		<0.01	<0.01	<0.01
1/19/2017									
1/20/2017			<0.01	<0.01					
1/23/2017	<0.01	<0.01							
1/24/2017									
2/21/2017									
3/24/2017									<0.01
3/27/2017						<0.01			
3/28/2017	<0.01			<0.01	<0.01		<0.01	<0.01	
3/29/2017		<0.01	<0.01						
3/30/2017									
9/22/2017					<0.01		<0.01		
9/25/2017									<0.01
9/26/2017						<0.01		<0.01	
9/27/2017		<0.01	<0.01						
9/29/2017	<0.01			<0.01					
3/14/2018					<0.01	<0.01		<0.01	<0.01
3/15/2018	<0.01	<0.01		<0.01			<0.01		
3/16/2018			<0.01						

Prediction Limit

Constituent: Silver (mg/L) Analysis Run 6/25/2018 3:58 PM View: cell9&10_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWA-41R (bg)	GWA-40 (bg)	GWC-45	GWC-45R	GWC-44	GWC-49R	GWC-49Z	GWA-39R_39RZ ...
3/10/2016								
3/11/2016								
3/14/2016								
3/15/2016	<0.01	<0.01						
3/16/2016			<0.01	<0.01	<0.01			
3/17/2016						<0.01	<0.01	
5/11/2016		<0.01						
5/12/2016								
5/13/2016	<0.01							
5/16/2016			<0.01	<0.01	<0.01			<0.01 (D)
5/17/2016								
5/18/2016						<0.01	<0.01	
7/19/2016								
7/20/2016								
7/21/2016	<0.01	<0.01						
7/22/2016								
7/25/2016			<0.01	<0.01	<0.01			
7/26/2016								
7/27/2016						<0.01		0.0012 (JD)
7/28/2016							<0.01	
9/15/2016		<0.01						
9/16/2016								
9/19/2016			<0.01	<0.01	<0.01			
9/20/2016								
9/21/2016	<0.01					<0.01	<0.01	
11/2/2016								
11/3/2016	<0.01	<0.01		<0.01	<0.01			
11/4/2016			<0.01			<0.01		
11/7/2016							<0.01	
1/17/2017	<0.01	<0.01						
1/18/2017								
1/19/2017					<0.01			
1/20/2017				<0.01				
1/23/2017			<0.01					
1/24/2017						<0.01	<0.01	
2/21/2017								<0.01
3/24/2017		<0.01						
3/27/2017	<0.01							<0.01 (D)
3/28/2017					<0.01			
3/29/2017			<0.01	<0.01		<0.01		
3/30/2017							<0.01	
9/22/2017								
9/25/2017	<0.01							
9/26/2017		<0.01			<0.01			
9/27/2017			<0.01	<0.01				
9/29/2017						<0.01	<0.01	<0.01 (D)
3/14/2018	<0.01	<0.01						
3/15/2018			<0.01	<0.01	<0.01	<0.01	<0.01	
3/16/2018								<0.01

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 6/25/2018 3:58 PM View: cell9&10_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWC-47R	GWC-46R	GWC-48	GWC-47	GWA-43R (bg)	GWA-43 (bg)	GWA-42 (bg)	GWA-39Z (bg)	GWA-41R (bg)
3/10/2016	0.01111	0.014949999..	0.014949999..	0.014949999..					
3/11/2016					0.014949999..	0.014949999..	0.014949999..		
3/14/2016								0.014949999..	
3/15/2016									0.014949999..
3/16/2016									
3/17/2016									
5/11/2016								0.501792453..	
5/12/2016									
5/13/2016					0.501792453..	0.501792453..			0.501792453..
5/16/2016							0.501792453..		
5/17/2016		0.501792453..	0.501792453..						
5/18/2016	0.5021 (J)			0.501792453..					
7/19/2016					0.501792453..	0.501792453.. (*)		0.501792453.. (*)	
7/20/2016									
7/21/2016									0.501792453..
7/22/2016							0.5015 (J)		
7/25/2016									
7/26/2016		0.5014 (J)							
7/27/2016	0.5017 (J)		0.5014 (J)	0.5014 (J)					
7/28/2016									
9/15/2016								0.501778431..	
9/16/2016					0.501778431..	0.501778431..			
9/19/2016							0.501778431..		
9/20/2016	0.5017 (J)	0.501778431..	0.501778431..	0.501778431..					
9/21/2016									0.501778431..
11/2/2016					0.501731519..	0.501731519..		0.501731519..	
11/3/2016							0.501731519..		0.501731519..
11/4/2016	0.5015 (J)	0.501731519..	0.501731519..						
11/7/2016				0.501731519..					
1/17/2017							0.501731519..		0.501731519..
1/18/2017					0.501731519..	0.501731519..		0.501731519..	
1/19/2017									
1/20/2017	0.5015 (J)	0.501731519..							
1/23/2017			0.501731519..	0.501731519..					
1/24/2017									
2/21/2017									
3/24/2017									
3/27/2017							0.010450000..		0.010450000..
3/28/2017		0.01002 (J)	0.01001 (J)		0.010450000..	0.01 (J)		0.01 (J)	
3/29/2017	0.01025 (J)			0.01002 (J)					
3/30/2017									
5/24/2017									
6/5/2017									
6/6/2017					0.501792453..	0.501792453..			0.5015 (J)
6/7/2017		0.5014 (J)					0.501792453..	0.501792453..	
6/8/2017	0.5016 (J)		0.5014 (J)	0.501792453..					
6/9/2017									
7/17/2017									
7/27/2017									
8/9/2017									
9/22/2017					0.501778431..	0.501778431..			
9/25/2017									0.501778431..

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 6/25/2018 3:58 PM View: cell9&10_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWC-47R	GWC-46R	GWC-48	GWC-47	GWA-43R (bg)	GWA-43 (bg)	GWA-42 (bg)	GWA-39Z (bg)	GWA-41R (bg)
9/26/2017							0.501778431..	0.5013 (J)	
9/27/2017	0.5016 (J)			0.5013 (J)					
9/29/2017		0.5013 (J)	0.5014 (J)						
3/14/2018						0.010450000..	0.010450000..	0.010450000..	0.010450000..
3/15/2018		0.010450000..	0.010450000..	0.010450000..	0.010450000..				
3/16/2018	0.01031 (J)								

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 6/25/2018 3:58 PM View: cell9&10_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWA-41 (bg)	GWA-40 (bg)	GWC-45R	GWC-45	GWC-44	GWC-49Z	GWC-49R	GWA-39R_39RZ ...
3/10/2016								
3/11/2016								
3/14/2016								
3/15/2016	0.014949999..	0.014949999..						
3/16/2016			0.014949999..	12.50995	12.50995			
3/17/2016						0.014949999..	0.014949999..	
5/11/2016		0.501792453..						
5/12/2016	0.501792453..							
5/13/2016								
5/16/2016			0.501792453..	0.501792453..	0.501792453..			0.501792453.. (D)
5/17/2016								
5/18/2016						0.501792453..	0.501792453..	
7/19/2016								
7/20/2016	0.501792453..							
7/21/2016		0.501792453..						
7/22/2016								
7/25/2016			0.501792453..	0.501792453..	0.501792453..			
7/26/2016								
7/27/2016							0.5014 (J)	0.5015 (JD)
7/28/2016						0.501792453..		
9/15/2016	0.501778431..	0.501778431..						
9/16/2016								
9/19/2016			0.501778431..	0.501778431..	0.501778431..			
9/20/2016								
9/21/2016						0.501778431..	0.501778431..	
11/2/2016								
11/3/2016	0.501731519..	0.501731519..	0.501731519..		0.501731519..			
11/4/2016				0.501731519..			0.501731519..	
11/7/2016						0.501731519..		
1/17/2017		0.501731519..						
1/18/2017	0.501731519..							
1/19/2017					0.501731519..			
1/20/2017			0.501731519..					
1/23/2017				0.501731519..				
1/24/2017						0.501731519..	0.501731519..	
2/21/2017								0.010450000..
3/24/2017	0.010450000..	0.010450000..						
3/27/2017								0.010450000.. (D)
3/28/2017					0.01 (J)			
3/29/2017			0.010450000..	0.010450000..			0.010450000..	
3/30/2017						0.01 (J)		
5/24/2017		0.501792453..						
6/5/2017					0.5013 (J)			
6/6/2017	0.501792453..							
6/7/2017			0.501792453..	0.501792453..				
6/8/2017							0.501792453..	0.501792453.. (D)
6/9/2017						0.501792453..		
7/17/2017								0.501792453.. (D)
7/27/2017								0.501792453..
8/9/2017								0.501778431..
9/22/2017								
9/25/2017	0.501778431..							

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 6/25/2018 3:58 PM View: cell9&10_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWA-41 (bg)	GWA-40 (bg)	GWC-45R	GWC-45	GWC-44	GWC-49Z	GWC-49R	GWA-39R_39RZ ...
9/26/2017		0.501778431..			0.501778431..			
9/27/2017			0.501778431..	0.501778431..				
9/29/2017						0.501778431..	0.501778431..	0.501778431.. (D)
3/14/2018	0.010450000..	0.010450000..						
3/15/2018			0.010450000..	0.010450000..	0.010450000..	0.010450000..	0.010450000..	
3/16/2018								0.010450000..

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 6/25/2018 3:58 PM View: cell9&10_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWC-48	GWC-47	GWC-47R	GWC-46R	GWA-43 (bg)	GWA-42 (bg)	GWA-43R (bg)	GWA-39Z (bg)	GWA-41 (bg)
3/10/2016	0.001295262..	0.001295262..	0.005795262..	0.001295262..					
3/11/2016					0.002835 (J)	0.001295262..	0.002815 (J)		
3/14/2016								0.001295262..	
3/15/2016									0.001295262..
3/16/2016									
3/17/2016									
5/11/2016								0.004702321..	
5/12/2016									0.004702321..
5/13/2016					0.004702321..		0.004702321..		
5/16/2016						0.004702321..			
5/17/2016	0.004702321..			0.004702321..					
5/18/2016		0.004702321..	0.004702321..						
7/19/2016					0.004702321..		0.004702321..	0.004702321..	
7/20/2016									0.004702321..
7/21/2016									
7/22/2016						0.004702321..			
7/25/2016									
7/26/2016				0.004702321..					
7/27/2016	0.004702321..	0.004702321..	0.004702321..						
7/28/2016									
9/15/2016								0.004531733..	0.004531733..
9/16/2016					0.004531733..		0.004531733..		
9/19/2016						0.004531733..			
9/20/2016	0.004531733..	0.004531733..	0.004531733..	0.004531733..					
9/21/2016									
11/2/2016					0.004531733..		0.004531733..	0.004531733..	
11/3/2016						0.004531733..			0.004531733..
11/4/2016	0.004531733..		0.004531733..	0.004531733..					
11/7/2016		0.004531733..							
1/17/2017						0.004531733..			
1/18/2017					0.004531733..		0.004531733..	0.004531733..	0.004531733..
1/19/2017									
1/20/2017			0.004531733..	0.004531733..					
1/23/2017	0.004531733..	0.004531733..							
1/24/2017									
2/21/2017									
3/24/2017									0.005795262..
3/27/2017						0.005795262..			
3/28/2017	0.005795262..			0.005795262..	0.005795262..		0.005795262..	0.005795262..	
3/29/2017		0.005795262..	0.005795262..						
3/30/2017									
9/22/2017					0.004531733..		0.004531733..		
9/25/2017									0.004531733..
9/26/2017						0.004531733..		0.004531733..	
9/27/2017		0.004531733..	0.004531733..						
9/29/2017	0.004531733..			0.004531733..					
3/14/2018					0.005795262..	0.005795262..		0.005795262..	0.005795262..
3/15/2018	0.005795262..	0.005795262..		0.005795262..			0.005795262..		
3/16/2018			0.005795262..						

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 6/25/2018 3:58 PM View: cell9&10_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWA-41R (bg)	GWA-40 (bg)	GWC-45	GWC-45R	GWC-44	GWC-49R	GWC-49Z	GWA-39R_39RZ ...
3/10/2016								
3/11/2016								
3/14/2016								
3/15/2016	0.001295262..	0.001295262..						
3/16/2016			0.001295262..	0.001295262..	0.001295262..			
3/17/2016						0.001295262..	0.001295262..	
5/11/2016		0.004702321..						
5/12/2016								
5/13/2016	0.004702321..							
5/16/2016			0.004702321..	0.004702321..	0.004702321..			0.004702321.. (D)
5/17/2016								
5/18/2016						0.004702321..	0.004702321..	
7/19/2016								
7/20/2016								
7/21/2016	0.004702321..	0.004702321..						
7/22/2016								
7/25/2016			0.001902 (J)	0.004702321..	0.004702321..			
7/26/2016								
7/27/2016						0.004702321..		0.001702 (JD)
7/28/2016							0.004702321..	
9/15/2016		0.004531733..						
9/16/2016								
9/19/2016			0.004531733..	0.004531733..	0.004531733..			
9/20/2016								
9/21/2016	0.004531733..					0.004531733..	0.004531733..	
11/2/2016								
11/3/2016	0.004531733..	0.004531733..		0.004531733..	0.004531733..			
11/4/2016			0.004531733..			0.004531733..		
11/7/2016							0.004531733..	
1/17/2017	0.004531733..	0.004531733..						
1/18/2017								
1/19/2017					0.004531733..			
1/20/2017				0.004531733..				
1/23/2017			0.004531733..					
1/24/2017						0.004531733..	0.004531733..	
2/21/2017								0.005795262..
3/24/2017		0.005795262..						
3/27/2017	0.005795262..							0.005795262.. (D)
3/28/2017					0.005795262..			
3/29/2017			0.005795262..	0.005795262..		0.005795262..		
3/30/2017							0.005795262..	
9/22/2017								
9/25/2017	0.004531733..							
9/26/2017		0.004531733..			0.004531733..			
9/27/2017			0.004531733..	0.004531733..				
9/29/2017						0.004531733..	0.004531733..	0.004531733.. (D)
3/14/2018	0.005795262..	0.005795262..						
3/15/2018			0.005795262..	0.005795262..	0.005795262..	0.005795262..	0.005795262..	
3/16/2018								0.005795262..

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 6/25/2018 3:58 PM View: cell9&10_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWC-47	GWC-46R	GWC-48	GWC-47R	GWA-43 (bg)	GWA-42 (bg)	GWA-43R (bg)	GWA-39Z (bg)	GWA-41 (bg)
3/10/2016	0.027	0.00373 (J)	0.00432 (J)	0.0154					
3/11/2016					0.0093 (J)	0.00862 (J)	0.00722 (J)		
3/14/2016								<0.01	
3/15/2016									<0.01
3/16/2016									
3/17/2016									
5/11/2016								0.00467 (J)	
5/12/2016									<0.01
5/13/2016					0.00336 (J)		0.00666 (J)		
5/16/2016						0.00744 (J)			
5/17/2016		0.00268 (J)	0.00672 (J)						
5/18/2016	0.0277			0.0136					
7/19/2016					<0.01 (*)		<0.01 (*)	<0.01 (*)	
7/20/2016									<0.01
7/21/2016									
7/22/2016						<0.01 (*)			
7/25/2016									
7/26/2016		<0.01 (*)							
7/27/2016	0.0221		<0.01 (*)	0.0153					
7/28/2016									
9/15/2016								0.0044 (J)	0.0027 (J)
9/16/2016					0.0023 (J)		<0.01		
9/19/2016						0.0162			
9/20/2016	0.03	0.0058 (J)	0.0081 (J)	0.0173					
9/21/2016									
11/2/2016					0.0047 (J)		0.0057 (J)	0.0043 (J)	
11/3/2016						0.011			<0.01
11/4/2016		0.0029 (J)	0.0071 (J)	0.0149					
11/7/2016	0.0202								
1/17/2017						0.0104			
1/18/2017					<0.01		0.0022 (J)	<0.01 (*)	<0.01 (*)
1/19/2017									
1/20/2017		<0.01		0.0134					
1/23/2017	0.0156		<0.01						
1/24/2017									
2/21/2017									
3/24/2017									<0.01 (*)
3/27/2017						<0.01 (*)			
3/28/2017		<0.01 (*)	<0.01 (*)		<0.01 (*)		<0.01	<0.01 (*)	
3/29/2017	<0.0192 (*)			<0.0117 (*)					
3/30/2017									
9/22/2017					0.0013 (J)		0.0014 (J)		
9/25/2017									<0.01
9/26/2017						0.0094 (J)		0.0029 (J)	
9/27/2017	0.0196			0.0111					
9/29/2017		0.0016 (J)	0.0055 (J)						
12/28/2017	0.0315 (Y)								
3/14/2018					<0.01	<0.01		<0.01	<0.01
3/15/2018	<0.036	<0.01	<0.01				<0.01		
3/16/2018				0.012					

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 6/25/2018 3:58 PM View: cell9&10_metals_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWA-40 (bg)	GWA-41R (bg)	GWC-44	GWC-45	GWC-45R	GWC-49R	GWC-49Z	GWA-39R_39RZ ...
3/10/2016								
3/11/2016								
3/14/2016								
3/15/2016	<0.01	0.00286 (J)						
3/16/2016			0.00622 (J)	0.00599 (J)	0.000113 (J)			
3/17/2016						<0.01	<0.01	
5/11/2016	<0.01							
5/12/2016								
5/13/2016		<0.01						
5/16/2016			0.00345 (J)	<0.01	0.00452 (J)			<0.01 (D)
5/17/2016								
5/18/2016						<0.01	0.00208 (J)	
7/19/2016								
7/20/2016								
7/21/2016	<0.01 (*)	<0.01 (*)						
7/22/2016								
7/25/2016			<0.01 (*)	<0.01 (*)	<0.01 (*)			
7/26/2016								
7/27/2016						<0.01 (*)		<0.01 (*)
7/28/2016							<0.01 (*)	
9/15/2016	<0.01							
9/16/2016								
9/19/2016			0.004 (J)	0.0061 (J)	0.0034 (J)			
9/20/2016								
9/21/2016		<0.01				<0.01	0.0079 (J)	
11/2/2016								
11/3/2016	<0.01	<0.01	0.0047 (J)		0.0039 (J)			
11/4/2016				0.0032 (J)		<0.01		
11/7/2016							<0.01 (*)	
1/17/2017	<0.01	<0.01						
1/18/2017								
1/19/2017			0.0035 (J)					
1/20/2017					0.0023 (J)			
1/23/2017				0.0031 (J)				
1/24/2017						<0.01	0.0053 (J)	
2/21/2017								0.0049 (J)
3/24/2017	<0.01 (*)							
3/27/2017		<0.01 (*)						<0.01 (*)
3/28/2017			<0.01 (*)					
3/29/2017				<0.01 (*)	<0.01 (*)	<0.01 (*)		
3/30/2017							<0.01 (*)	
9/22/2017								
9/25/2017		0.0023 (J)						
9/26/2017	0.0019 (J)		0.0039 (J)					
9/27/2017				0.0048 (J)	0.0036 (J)			
9/29/2017						<0.01	0.004 (J)	0.0012 (JD)
12/28/2017								
3/14/2018	<0.01	<0.01						
3/15/2018			<0.01	<0.01	<0.01	<0.01	<0.01	
3/16/2018								0.0042 (J)

Interwell Prediction Limit

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR Printed 7/16/2018, 1:34 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
pH (pH units)	**GWC-44**	**7.89**	**5.77**	**3/15/2018**	**4.34**	**Yes**	**85**	**0**	**n/a**	**0.000534**	NP (normality) 1 of 2
pH (pH units)	**GWC-45**	**7.89**	**5.77**	**3/15/2018**	**4.6**	**Yes**	**85**	**0**	**n/a**	**0.000534**	NP (normality) 1 of 2
pH (pH units)	**GWC-48**	**7.89**	**5.77**	**3/15/2018**	**5.14**	**Yes**	**85**	**0**	**n/a**	**0.000534**	NP (normality) 1 of 2
pH (pH units)	**GWC-49Z**	**7.89**	**5.77**	**3/15/2018**	**5.12**	**Yes**	**85**	**0**	**n/a**	**0.000534**	NP (normality) 1 of 2

Interwell Prediction Limit

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR Printed 7/16/2018, 1:34 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Boron (mg/L)	GWC-44	0.0651	n/a	3/15/2018	0.04382	No	80	70	n/a	0.000...	NP (NDs) 1 of 2 Deseas
Boron (mg/L)	GWC-45	0.0651	n/a	3/15/2018	0.03752	No	80	70	n/a	0.000...	NP (NDs) 1 of 2 Deseas
Boron (mg/L)	GWC-45R	0.0651	n/a	3/15/2018	0.03612	No	80	70	n/a	0.000...	NP (NDs) 1 of 2 Deseas
Boron (mg/L)	GWC-46R	0.0651	n/a	3/15/2018	0.03402	No	80	70	n/a	0.000...	NP (NDs) 1 of 2 Deseas
Boron (mg/L)	GWC-47	0.0651	n/a	3/15/2018	0.04982...	No	80	70	n/a	0.000...	NP (NDs) 1 of 2 Deseas
Boron (mg/L)	GWC-47R	0.0651	n/a	3/16/2018	0.04982...	No	80	70	n/a	0.000...	NP (NDs) 1 of 2 Deseas
Boron (mg/L)	GWC-48	0.0651	n/a	3/15/2018	0.04982...	No	80	70	n/a	0.000...	NP (NDs) 1 of 2 Deseas
Boron (mg/L)	GWC-49R	0.0651	n/a	3/15/2018	0.04982...	No	80	70	n/a	0.000...	NP (NDs) 1 of 2 Deseas
Boron (mg/L)	GWC-49Z	0.0651	n/a	3/15/2018	0.03502	No	80	70	n/a	0.000...	NP (NDs) 1 of 2 Deseas
Fluoride (mg/L)	GWC-44	0.2848	n/a	3/15/2018	0.1248	No	80	47.5	n/a	0.000...	NP (normality) 1 of 2...
Fluoride (mg/L)	GWC-45	0.2848	n/a	3/15/2018	0.16475...	No	80	47.5	n/a	0.000...	NP (normality) 1 of 2...
Fluoride (mg/L)	GWC-45R	0.2848	n/a	3/15/2018	0.16475...	No	80	47.5	n/a	0.000...	NP (normality) 1 of 2...
Fluoride (mg/L)	GWC-46R	0.2848	n/a	3/15/2018	0.16475...	No	80	47.5	n/a	0.000...	NP (normality) 1 of 2...
Fluoride (mg/L)	GWC-47	0.2848	n/a	3/15/2018	0.16475...	No	80	47.5	n/a	0.000...	NP (normality) 1 of 2...
Fluoride (mg/L)	GWC-47R	0.2848	n/a	3/16/2018	0.1448	No	80	47.5	n/a	0.000...	NP (normality) 1 of 2...
Fluoride (mg/L)	GWC-48	0.2848	n/a	3/15/2018	0.16475...	No	80	47.5	n/a	0.000...	NP (normality) 1 of 2...
Fluoride (mg/L)	GWC-49R	0.2848	n/a	3/15/2018	0.16475...	No	80	47.5	n/a	0.000...	NP (normality) 1 of 2...
Fluoride (mg/L)	GWC-49Z	0.2848	n/a	3/15/2018	0.16475...	No	80	47.5	n/a	0.000...	NP (normality) 1 of 2...
pH (pH units)	**GWC-44**	**7.89**	**5.77**	**3/15/2018**	**4.34**	**Yes**	**85**	**0**	**n/a**	**0.000534**	NP (normality) 1 of 2
pH (pH units)	**GWC-45**	**7.89**	**5.77**	**3/15/2018**	**4.6**	**Yes**	**85**	**0**	**n/a**	**0.000534**	NP (normality) 1 of 2
pH (pH units)	GWC-45R	7.89	5.77	3/15/2018	6.87	No	85	0	n/a	0.000534	NP (normality) 1 of 2
pH (pH units)	GWC-46R	7.89	5.77	3/15/2018	7.22	No	85	0	n/a	0.000534	NP (normality) 1 of 2
pH (pH units)	GWC-47	7.89	5.77	3/15/2018	7.42	No	85	0	n/a	0.000534	NP (normality) 1 of 2
pH (pH units)	GWC-47R	7.89	5.77	3/16/2018	7.72	No	85	0	n/a	0.000534	NP (normality) 1 of 2
pH (pH units)	**GWC-48**	**7.89**	**5.77**	**3/15/2018**	**5.14**	**Yes**	**85**	**0**	**n/a**	**0.000534**	NP (normality) 1 of 2
pH (pH units)	GWC-49R	7.89	5.77	3/15/2018	7.51	No	85	0	n/a	0.000534	NP (normality) 1 of 2
pH (pH units)	**GWC-49Z**	**7.89**	**5.77**	**3/15/2018**	**5.12**	**Yes**	**85**	**0**	**n/a**	**0.000534**	NP (normality) 1 of 2

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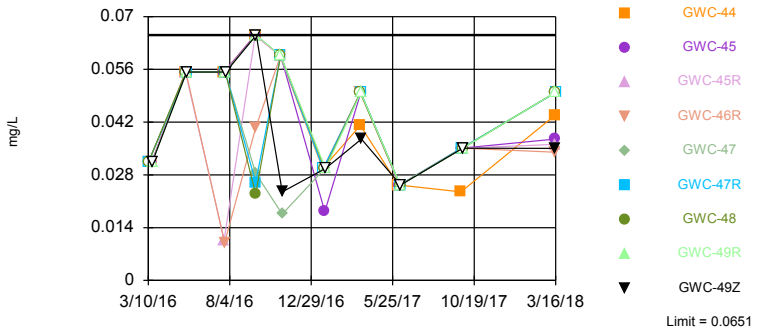
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 80 background values. 70% NDs. Annual per-constituent alpha = 0.005341. Individual comparison alpha = 0.0002975 (1 of 2). Comparing 9 points to limit. Data were deseasonalized.

Constituent: Boron Analysis Run 7/16/2018 1:26 PM View: cells9&10_AppIII_interwell
Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

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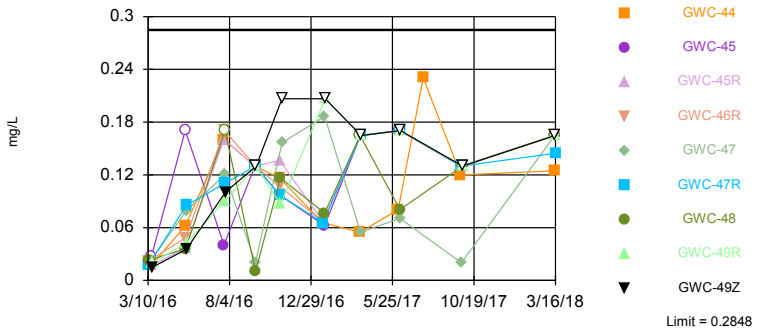
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 80 background values. 47.5% NDs. Annual per-constituent alpha = 0.005341. Individual comparison alpha = 0.0002975 (1 of 2). Comparing 9 points to limit. Data were deseasonalized.

Constituent: Fluoride Analysis Run 7/16/2018 1:26 PM View: cells9&10_AppIII_interwell
Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

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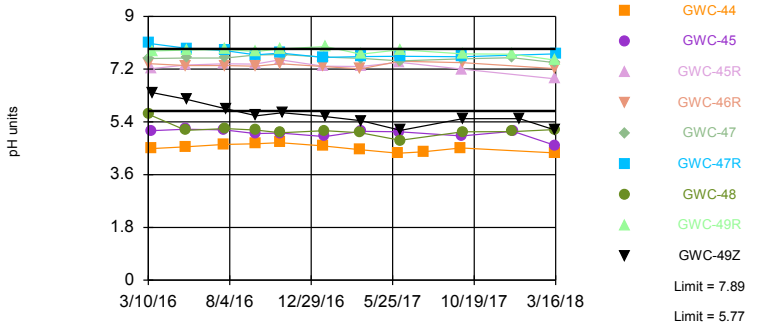
Exceeds Limits: GWC-44, GWC-45, GWC-48, GWC-49Z

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. Limits are highest and lowest of 85 background values. Annual per-constituent alpha = 0.009591. Individual comparison alpha = 0.000534 (1 of 2). Comparing 9 points to limit. Seasonality was not detected with 95% confidence.

Constituent: pH Analysis Run 7/16/2018 1:27 PM View: cells9&10_AppIII_interwell
Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 7/16/2018 1:34 PM View: cells9&10_AppIII_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWC-47R	GWC-46R	GWC-48	GWC-47	GWA-43R (bg)	GWA-43 (bg)	GWA-42 (bg)	GWA-39Z (bg)	GWA-41R (bg)
3/10/2016	0.031320977..	0.031320977..	0.031320977..	0.031320977..					
3/11/2016					0.031320977..	0.031320977..	0.031320977..		
3/14/2016								0.031320977..	
3/15/2016									0.031320977..
3/16/2016									
3/17/2016									
5/11/2016								0.055300000..	
5/12/2016									
5/13/2016					0.055300000..	0.055300000..			0.055300000..
5/16/2016							0.055300000..		
5/17/2016		0.055300000..	0.055300000..						
5/18/2016	0.055300000..			0.055300000..					
7/19/2016					0.055300000.. (*)	0.055300000.. (*)		0.055300000.. (*)	
7/20/2016									
7/21/2016									0.055300000.. (*)
7/22/2016							0.0129 (J)		
7/25/2016									
7/26/2016		0.01 (J)							
7/27/2016	0.055300000..		0.055300000.. (*)	0.055300000.. (*)					
7/28/2016									
9/15/2016								0.0218 (J)	
9/16/2016					0.0397 (J)	0.065097448..			
9/19/2016							0.065097448..		
9/20/2016	0.026 (J)	0.0405 (J)	0.0229 (J)	0.0284 (J)					
9/21/2016									0.065097448.. (*)
11/2/2016					0.03758 (J)	0.059683845..		0.059683845..	
11/3/2016							0.059683845..		0.059683845..
11/4/2016	0.059683845..	0.059683845..	0.059683845..						
11/7/2016				0.01758 (J)					
1/17/2017							0.029683844..		0.029683844..
1/18/2017					0.04328 (J)	0.029683844..		0.029683844..	
1/19/2017									
1/20/2017	0.029683844..	0.029683844..							
1/23/2017			0.029683844..	0.029683844..					
1/24/2017									
2/21/2017									
3/24/2017									
3/27/2017							0.03992 (J)		0.04712 (J)
3/28/2017		0.049820976..	0.049820976..		0.06112 (J)	0.049820976..		0.049820976..	
3/29/2017	0.049820976..			0.049820976..					
3/30/2017									
5/24/2017									
6/5/2017									
6/6/2017					0.025299999.. (*)	0.025299999.. (*)			0.025299999.. (*)
6/7/2017		0.025299999.. (*)					0.025299999.. (*)	0.025299999.. (*)	
6/8/2017	0.025299999..		0.025299999..	0.025299999..					
6/9/2017									
7/17/2017									
7/27/2017									
8/9/2017									
9/22/2017					0.0445 (J)	0.035097447..			
9/25/2017									0.0292 (J)

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 7/16/2018 1:34 PM View: cells9&10_AppIII_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWC-47R	GWC-46R	GWC-48	GWC-47	GWA-43R (bg)	GWA-43 (bg)	GWA-42 (bg)	GWA-39Z (bg)	GWA-41R (bg)
9/26/2017							0.035097447..	0.035097447..	
9/27/2017	0.035097447..			0.035097447..					
9/29/2017		0.035097447..	0.035097447..						
3/14/2018						0.049820976..	0.049820976..	0.049820976..	0.04382 (J)
3/15/2018		0.03402 (J)	0.049820976..	0.049820976..	0.04782 (J)				
3/16/2018	0.049820976..								

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 7/16/2018 1:34 PM View: cells9&10_AppIII_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWA-41 (bg)	GWA-40 (bg)	GWC-45R	GWC-45	GWC-44	GWC-49Z	GWC-49R	GWA-39R_39RZ ...
3/10/2016								
3/11/2016								
3/14/2016								
3/15/2016	0.031320977..	0.031320977..						
3/16/2016			0.031320977..	0.031320977..	0.031320977..			
3/17/2016						0.031320977..	0.031320977..	
5/11/2016		0.055300000..						
5/12/2016	0.055300000..							
5/13/2016								
5/16/2016			0.055300000..	0.055300000..	0.055300000..			0.055300000.. (D)
5/17/2016								
5/18/2016						0.055300000..	0.055300000..	
7/19/2016								
7/20/2016	0.055300000..							
7/21/2016		0.055300000..						
7/22/2016								
7/25/2016			0.0107 (J)	0.055300000..	0.055300000..			
7/26/2016								
7/27/2016							0.055300000.. (*)	0.055300000.. (*)
7/28/2016						0.055300000.. (*)		
9/15/2016	0.065097448..	0.065097448..						
9/16/2016								
9/19/2016			0.065097448..	0.065097448..	0.065097448..			
9/20/2016								
9/21/2016						0.065097448.. (*)	0.065097448.. (*)	
11/2/2016								
11/3/2016	0.059683845..	0.059683845.. (*)	0.059683845..		0.059683845..			
11/4/2016				0.059683845..			0.059683845..	
11/7/2016						0.02348 (J)		
1/17/2017		0.029683844..						
1/18/2017	0.029683844..							
1/19/2017					0.029683844..			
1/20/2017			0.029683844..					
1/23/2017				0.01828 (J)				
1/24/2017						0.029683844..	0.029683844..	
2/21/2017								0.05162 (JD)
3/24/2017	0.04522 (J)	0.049820976..						
3/27/2017								0.05602 (JD)
3/28/2017					0.04112 (J)			
3/29/2017			0.049820976..	0.049820976..			0.049820976..	
3/30/2017						0.03752 (J)		
5/24/2017		0.025299999..						
6/5/2017					0.025299999.. (*)			
6/6/2017	0.025299999..							
6/7/2017			0.025299999.. (*)	0.025299999.. (*)				
6/8/2017							0.025299999..	0.012 (JD)
6/9/2017						0.025299999..		
7/17/2017								0.0218 (JD)
7/27/2017								0.0191 (JD)
8/9/2017								0.022 (JD)
9/22/2017								
9/25/2017	0.035097447..							

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 7/16/2018 1:34 PM View: cells9&10_AppIII_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWA-41 (bg)	GWA-40 (bg)	GWC-45R	GWC-45	GWC-44	GWC-49Z	GWC-49R	GWA-39R_39RZ ...
9/26/2017		0.0226 (J)			0.0235 (J)			
9/27/2017			0.035097447..	0.035097447..				
9/29/2017						0.035097447..	0.035097447..	0.0217 (JD)
3/14/2018	0.04082 (J)	0.03912 (J)						
3/15/2018			0.03612 (J)	0.03752 (J)	0.04382 (J)	0.03502 (J)	0.049820976..	
3/16/2018								0.03652 (J)

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 7/16/2018 1:34 PM View: cells9&10_AppIII_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWC-47R	GWC-46R	GWC-48	GWC-47	GWA-43R (bg)	GWA-43 (bg)	GWA-42 (bg)	GWA-39Z (bg)	GWA-41R (bg)
3/10/2016	0.01677 (J)	0.02172 (J)	0.02272 (J)	0.01812 (J)					
3/11/2016					0.02885 (J)	0.04765 (J)	0.04435 (J)		
3/14/2016								0.08045 (J)	
3/15/2016									0.05415 (J)
3/16/2016									
3/17/2016									
5/11/2016								0.06052 (J)	
5/12/2016									
5/13/2016					0.03452 (J)	0.06632 (J)			0.04382 (J)
5/16/2016							0.04912 (J)		
5/17/2016		0.04852 (J)	0.03602 (J)						
5/18/2016	0.08542 (J)			0.07942 (J)					
7/19/2016					0.170416784..	0.170416784..		0.170416784..	
7/20/2016									
7/21/2016									0.170416784..
7/22/2016							0.06042 (J)		
7/25/2016									
7/26/2016		0.170416784..							
7/27/2016	0.1104 (J)		0.170416784..	0.1204 (J)					
7/28/2016									
9/15/2016								0.130000005..	
9/16/2016					0.130000005..	0.130000005..			
9/19/2016							0.130000005..		
9/20/2016	0.130000005..	0.130000005..	0.01 (J)	0.02 (J)					
9/21/2016									0.130000005..
11/2/2016					0.09655 (J)	0.09655 (J)		0.09655 (J)	
11/3/2016							0.09655 (J)		0.1765 (J)
11/4/2016	0.09655 (J)	0.1065 (J)	0.1165 (J)						
11/7/2016				0.1565 (J)					
1/17/2017							0.07655 (J)		0.06655 (J)
1/18/2017					0.07655 (J)	0.206547804..		0.08655 (J)	
1/19/2017									
1/20/2017	0.06555 (J)	0.06655 (J)							
1/23/2017			0.07655 (J)	0.1865 (J)					
1/24/2017									
2/21/2017									
3/24/2017									
3/27/2017							0.164751968..		0.164751968..
3/28/2017		0.164751968..	0.164751968..		0.164751968..	0.164751968..		0.07475 (J)	
3/29/2017	0.164751968..			0.05475 (J)					
3/30/2017									
5/24/2017									
6/5/2017									
6/6/2017					0.170416784..	0.170416784..			0.170416784..
6/7/2017		0.170416784..					0.170416784..	0.08042 (J)	
6/8/2017	0.170416784.. (*)		0.08042 (J)	0.07042 (J)					
6/9/2017									
7/17/2017									
7/20/2017									
7/27/2017									
8/9/2017									
9/22/2017					0.130000005..	0.130000005..			

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 7/16/2018 1:34 PM View: cells9&10_AppIII_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWC-47R	GWC-46R	GWC-48	GWC-47	GWA-43R (bg)	GWA-43 (bg)	GWA-42 (bg)	GWA-39Z (bg)	GWA-41R (bg)
9/25/2017									0.130000005..
9/26/2017							0.130000005..	0.02 (J)	
9/27/2017	0.130000005..			0.02 (J)					
9/29/2017		0.130000005..	0.130000005..						
3/14/2018						0.164751968..	0.07475 (J)	0.1548 (J)	0.164751968..
3/15/2018		0.164751968..	0.164751968..	0.164751968..	0.164751968..				
3/16/2018	0.1448 (J)								

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 7/16/2018 1:34 PM View: cells9&10_AppIII_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWA-41 (bg)	GWA-40 (bg)	GWC-45R	GWC-45	GWC-44	GWC-49Z	GWC-49R	GWA-39R_39RZ ...
3/10/2016								
3/11/2016								
3/14/2016								
3/15/2016	0.04325 (J)	0.019751962..						
3/16/2016			0.01719 (J)	0.027251963..	0.01693 (J)			
3/17/2016						0.01475 (J)	0.019751962..	
5/11/2016		0.04592 (J)						
5/12/2016	0.04242 (J)							
5/13/2016								
5/16/2016			0.03652 (J)	0.170416784..	0.06192 (J)			0.04062 (JD)
5/17/2016								
5/18/2016						0.03542 (J)	0.04242 (J)	
7/19/2016								
7/20/2016	0.170416784..							
7/21/2016		0.170416784..						
7/22/2016								
7/25/2016			0.1604 (J)	0.04042 (J)	0.1604 (J)			
7/26/2016								
7/27/2016							0.09042 (J)	0.1004 (JD)
7/28/2016						0.1004 (J)		
9/15/2016	0.130000005..							
9/16/2016								
9/19/2016		0.130000005..	0.130000005..	0.130000005..	0.130000005..			
9/20/2016								
9/21/2016						0.130000005..	0.130000005..	
11/2/2016								
11/3/2016	0.1065 (J)	0.1665 (J)	0.1365 (J)		0.1165 (J)			
11/4/2016				0.09655 (J)			0.08655 (J)	
11/7/2016						0.206547804..		
1/17/2017		0.07655 (J)						
1/18/2017	0.07655 (J)							
1/19/2017					0.06555 (J)			
1/20/2017			0.06655 (J)					
1/23/2017				0.06255 (J)				
1/24/2017						0.206547804..	0.206547804..	
2/21/2017								0.1848 (JD)
3/24/2017	0.164751968..	0.164751968..						
3/27/2017								0.1048 (JD)
3/28/2017					0.05475 (J)			
3/29/2017			0.164751968..	0.164751968..			0.164751968..	
3/30/2017						0.164751968..		
5/24/2017		0.170416784..						
6/5/2017					0.08042 (J)			
6/6/2017	0.170416784..							
6/7/2017			0.170416784..	0.170416784..				
6/8/2017							0.170416784.. (*)	0.07042 (JD)
6/9/2017						0.170416784..		
7/17/2017								0.07042 (JD)
7/20/2017					0.2304 (J)			
7/27/2017								0.1004 (JD)
8/9/2017								0.130000005.. (*)
9/22/2017								

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 7/16/2018 1:34 PM View: cells9&10_AppIII_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWA-41 (bg)	GWA-40 (bg)	GWC-45R	GWC-45	GWC-44	GWC-49Z	GWC-49R	GWA-39R_39RZ ...
9/25/2017	0.130000005..							
9/26/2017		0.130000005..			0.12 (J)			
9/27/2017			0.130000005..	0.130000005..				
9/29/2017						0.130000005..	0.130000005..	0.02 (JD)
3/14/2018	0.164751968..	0.06975 (J)						
3/15/2018			0.164751968..	0.164751968..	0.1248 (J)	0.164751968..	0.164751968..	
3/16/2018								0.2848 (J)

Prediction Limit

Constituent: pH (pH units) Analysis Run 7/16/2018 1:34 PM View: cells9&10_AppIII_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWC-47R	GWC-48	GWC-47	GWC-46R	GWA-43 (bg)	GWA-42 (bg)	GWA-43R (bg)	GWA-39Z (bg)	GWA-40 (bg)
3/10/2016	8.08	5.66	7.56	7.39					
3/11/2016					6.43	7.37	7.89		
3/14/2016								6.91	
3/15/2016									7.58
3/16/2016									
3/17/2016									
5/11/2016								6.51	7.24
5/12/2016									
5/13/2016					6.8		7.86		
5/16/2016						7.55			
5/17/2016		5.11		7.32					
5/18/2016	7.91		7.58						
7/19/2016					6.42		7.83	6.12	
7/20/2016									
7/21/2016									7.53
7/22/2016						7.51			
7/25/2016									
7/26/2016				7.32					
7/27/2016	7.83	5.17	7.58						
7/28/2016									
9/15/2016								5.96	7
9/16/2016					6.19		7.75		
9/19/2016						7.52			7.19
9/20/2016	7.69	5.12	7.68	7.3					
9/21/2016									
11/2/2016					6.36		7.77	5.78	
11/3/2016						7.56			7.13
11/4/2016	7.75	5.03		7.38					
11/7/2016			7.7						
1/17/2017						7.59			7.51
1/18/2017					6.16		7.65	6.13	
1/19/2017									
1/20/2017	7.6			7.29					
1/23/2017		5.1	7.61						
1/24/2017									
2/21/2017									
3/24/2017									7.55
3/27/2017						7.63			
3/28/2017		5.03		7.21	5.8		7.79	6.59	
3/29/2017	7.63		7.57						
3/30/2017									
5/24/2017									7.6
6/5/2017									
6/6/2017					5.97		7.89		
6/7/2017				7.47		7.55		6.72	
6/8/2017	7.64	4.77	7.48						
6/9/2017									
7/17/2017									
7/20/2017									
7/26/2017									
7/27/2017									
8/8/2017									

Prediction Limit

Constituent: pH (pH units) Analysis Run 7/16/2018 1:34 PM View: cells9&10_AppIII_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWC-47R	GWC-48	GWC-47	GWC-46R	GWA-43 (bg)	GWA-42 (bg)	GWA-43R (bg)	GWA-39Z (bg)	GWA-40 (bg)
8/9/2017									
9/22/2017					5.77		7.8		
9/25/2017									
9/26/2017						7.59		7.05	7.66
9/27/2017	7.62		7.55						
9/29/2017		5.06		7.42					
12/28/2017		5.07 (Y)	7.59 (Y)				7.78 (Y)	6.79 (Y)	7.34 (Y)
12/29/2017									
1/10/2018									
3/14/2018					5.85	7.6		7.42	7.56
3/15/2018		5.14	7.42	7.22			7.66		
3/16/2018	7.72								

Prediction Limit

Constituent: pH (pH units) Analysis Run 7/16/2018 1:34 PM View: cells9&10_AppIII_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWA-41 (bg)	GWA-41R (bg)	GWC-44	GWC-45R	GWC-45	GWC-49R	GWC-49Z	GWA-39R_39RZ ...
3/10/2016								
3/11/2016								
3/14/2016								
3/15/2016	6.74	7.15						
3/16/2016			4.49	7.22	5.1			
3/17/2016						7.82	6.4	
5/11/2016								
5/12/2016	6.41							
5/13/2016		7.29						
5/16/2016			4.55	7.34	5.15			7.61 (D)
5/17/2016								
5/18/2016						7.85	6.17	
7/19/2016								
7/20/2016	6.59							
7/21/2016		7.43						
7/22/2016								
7/25/2016			4.63	7.38	5.13			
7/26/2016								
7/27/2016						7.87		7.51 (D)
7/28/2016							5.85	
9/15/2016								
9/16/2016								
9/19/2016			4.65	7.37	5			
9/20/2016								
9/21/2016		7.05				7.8	5.61	
11/2/2016								
11/3/2016	6.45	7.4	4.69	7.52				
11/4/2016					5.02	7.89		
11/7/2016							5.71	
1/17/2017		7.06						
1/18/2017	6.34							
1/19/2017			4.58					
1/20/2017				7.3				
1/23/2017					4.9			
1/24/2017						7.97	5.58	
2/21/2017								7.76 (D)
3/24/2017	6.42							
3/27/2017		7.13						7.7 (D)
3/28/2017			4.45					
3/29/2017				7.29	5.08	7.71		
3/30/2017							5.44	
5/24/2017								
6/5/2017			4.33					
6/6/2017	6.82	7.18						
6/7/2017				7.43	5.06			
6/8/2017						7.86		7.69 (D)
6/9/2017							5.11	
7/17/2017								7.57 (D)
7/20/2017			4.38					
7/26/2017								7.63
7/27/2017								7.63
8/8/2017								7.73

Prediction Limit

Constituent: pH (pH units) Analysis Run 7/16/2018 1:34 PM View: cells9&10_AppIII_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWA-41 (bg)	GWA-41R (bg)	GWC-44	GWC-45R	GWC-45	GWC-49R	GWC-49Z	GWA-39R_39RZ ...
8/9/2017								7.73
9/22/2017								
9/25/2017	6.63	6.88						
9/26/2017			4.51					
9/27/2017				7.2	4.92			
9/29/2017						7.72	5.51	7.7 (D)
12/28/2017						7.71 (Y)		
12/29/2017					5.08 (Y)			
1/10/2018							5.51 (Y)	
3/14/2018	7.08	7.04						
3/15/2018			4.34	6.87	4.6	7.51	5.12	
3/16/2018								7.49

Intrawell Prediction Limit

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR Printed 7/16/2018, 1:48 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Calcium (mg/L)	**GWA-39Z**	**25.4**	**n/a**	**3/14/2018**	**26.4**	**Yes**	**10**	**0**	**No**	**0.001462**	Param 1 of 3
Calcium (mg/L)	**GWA-40**	**25.65**	**n/a**	**3/14/2018**	**25.7**	**Yes**	**9**	**0**	**No**	**0.001462**	Param 1 of 3
Calcium (mg/L)	**GWA-41**	**28.85**	**n/a**	**3/14/2018**	**39.6**	**Yes**	**9**	**0**	**No**	**0.001462**	Param 1 of 3
Sulfate (mg/L)	**GWA-41**	**4.688**	**n/a**	**3/14/2018**	**11.5**	**Yes**	**9**	**0**	**No**	**0.001462**	Param 1 of 3
Sulfate (mg/L)	**GWC-47R**	**9.918**	**n/a**	**3/16/2018**	**13.4**	**Yes**	**9**	**0**	**No**	**0.001462**	Param 1 of 3
Total Dissolved Solids (mg/l)	**GWA-39Z**	**117.1**	**n/a**	**3/14/2018**	**126**	**Yes**	**8**	**0**	**No**	**0.001462**	Param 1 of 3
Total Dissolved Solids (mg/l)	**GWA-41**	**138**	**n/a**	**3/14/2018**	**192**	**Yes**	**9**	**0**	**No**	**0.001462**	Param 1 of 3

Intrawell Prediction Limit

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR Printed 7/16/2018, 1:48 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Calcium (mg/L)	**GWA-39Z**	**25.4**	**n/a**	**3/14/2018**	**26.4**	**Yes**	**10**	**0**	**No**	**0.001462**	Param 1 of 3
Calcium (mg/L)	**GWA-40**	**25.65**	**n/a**	**3/14/2018**	**25.7**	**Yes**	**9**	**0**	**No**	**0.001462**	Param 1 of 3
Calcium (mg/L)	**GWA-41**	**28.85**	**n/a**	**3/14/2018**	**39.6**	**Yes**	**9**	**0**	**No**	**0.001462**	Param 1 of 3
Calcium (mg/L)	GWA-41R	41.92	n/a	3/14/2018	41.4	No	9	0	No	0.001462	Param 1 of 3
Calcium (mg/L)	GWA-42	32.71	n/a	3/14/2018	32.6	No	9	0	No	0.001462	Param 1 of 3
Calcium (mg/L)	GWA-43	18.02	n/a	3/14/2018	3.6	No	9	0	No	0.001462	Param 1 of 3
Calcium (mg/L)	GWA-43R	31.79	n/a	3/15/2018	28	No	10	0	No	0.001462	Param 1 of 3
Calcium (mg/L)	GWC-44	9.047	n/a	3/15/2018	9	No	9	0	No	0.001462	Param 1 of 3
Calcium (mg/L)	GWC-45	0.9197	n/a	3/15/2018	0.77	No	9	0	x^(1/3)	0.001462	Param 1 of 3
Calcium (mg/L)	GWC-45R	38.28	n/a	3/15/2018	34.6	No	9	0	No	0.001462	Param 1 of 3
Calcium (mg/L)	GWC-46R	52.77	n/a	3/15/2018	46.2	No	9	0	No	0.001462	Param 1 of 3
Calcium (mg/L)	GWC-47	29.56	n/a	3/15/2018	21.6	No	9	0	No	0.001462	Param 1 of 3
Calcium (mg/L)	GWC-47R	36.7	n/a	3/16/2018	30.2	No	9	0	No	0.001462	Param 1 of 3
Calcium (mg/L)	GWC-48	9.657	n/a	3/15/2018	3.5	No	9	11.11	sqrt(x)	0.001462	Param 1 of 3
Calcium (mg/L)	GWC-49R	28.81	n/a	3/15/2018	24.4	No	9	0	No	0.001462	Param 1 of 3
Calcium (mg/L)	GWC-49Z	5.865	n/a	3/15/2018	0.81	No	9	0	sqrt(x)	0.001462	Param 1 of 3
Calcium (mg/L)	GWA-39R_39RZ	40.1	n/a	3/16/2018	32.6	No	9	0	No	0.001462	Param 1 of 3
Chloride (mg/L)	GWA-39Z	2.241	n/a	3/14/2018	1.4	No	9	0	No	0.001462	Param 1 of 3
Chloride (mg/L)	GWA-40	3.076	n/a	3/14/2018	2.4	No	10	0	x^(1/3)	0.001462	Param 1 of 3
Chloride (mg/L)	GWA-41	3.649	n/a	3/14/2018	3	No	9	0	x^(1/3)	0.001462	Param 1 of 3
Chloride (mg/L)	GWA-41R	5.729	n/a	3/14/2018	4	No	9	0	No	0.001462	Param 1 of 3
Chloride (mg/L)	GWA-42	3.316	n/a	3/14/2018	3.2	No	9	0	No	0.001462	Param 1 of 3
Chloride (mg/L)	GWA-43	1.454	n/a	3/14/2018	1.3	No	9	0	No	0.001462	Param 1 of 3
Chloride (mg/L)	GWA-43R	5.391	n/a	3/15/2018	2.8	No	9	0	No	0.001462	Param 1 of 3
Chloride (mg/L)	GWC-44	8.561	n/a	3/15/2018	6.5	No	10	0	No	0.001462	Param 1 of 3
Chloride (mg/L)	GWC-45	1.25	n/a	3/15/2018	0.6ND	No	9	0	No	0.001462	Param 1 of 3
Chloride (mg/L)	GWC-45R	3.3	n/a	3/15/2018	3.3	No	9	0	No	0.001462	Param 1 of 3
Chloride (mg/L)	GWC-46R	2.733	n/a	3/15/2018	2	No	9	0	No	0.001462	Param 1 of 3
Chloride (mg/L)	GWC-47	2.834	n/a	3/15/2018	2.7	No	9	0	No	0.001462	Param 1 of 3
Chloride (mg/L)	GWC-47R	2.867	n/a	3/16/2018	2.7	No	9	0	No	0.001462	Param 1 of 3
Chloride (mg/L)	GWC-48	2.89	n/a	3/15/2018	2.6	No	9	0	No	0.001462	Param 1 of 3
Chloride (mg/L)	GWC-49R	1.756	n/a	3/15/2018	1.6	No	9	0	No	0.001462	Param 1 of 3
Chloride (mg/L)	GWC-49Z	1.674	n/a	3/15/2018	1.4	No	9	11.11	No	0.001462	Param 1 of 3
Chloride (mg/L)	GWA-39R_39RZ	3.764	n/a	3/16/2018	2.6	No	9	0	No	0.001462	Param 1 of 3
Sulfate (mg/L)	GWA-39Z	9.143	n/a	3/14/2018	3.8	No	9	0	No	0.001462	Param 1 of 3
Sulfate (mg/L)	GWA-40	5.45	n/a	3/14/2018	3.8	No	10	10	ln(x)	0.001462	Param 1 of 3
Sulfate (mg/L)	**GWA-41**	**4.688**	**n/a**	**3/14/2018**	**11.5**	**Yes**	**9**	**0**	**No**	**0.001462**	Param 1 of 3
Sulfate (mg/L)	GWA-41R	8.045	n/a	3/14/2018	10.9	No	9	11.11	No	0.001462	Param 1 of 3
Sulfate (mg/L)	GWA-42	2.275	n/a	3/14/2018	2.1	No	9	11.11	No	0.001462	Param 1 of 3
Sulfate (mg/L)	GWA-43	1.851	n/a	3/14/2018	0.39	No	9	0	No	0.001462	Param 1 of 3
Sulfate (mg/L)	GWA-43R	10.25	n/a	3/15/2018	5.1	No	9	0	No	0.001462	Param 1 of 3
Sulfate (mg/L)	GWC-44	42.55	n/a	3/15/2018	32.4	No	10	0	No	0.001462	Param 1 of 3
Sulfate (mg/L)	GWC-45	1.544	n/a	3/15/2018	0.75	No	9	11.11	No	0.001462	Param 1 of 3
Sulfate (mg/L)	GWC-45R	3.278	n/a	3/15/2018	2.9	No	9	0	No	0.001462	Param 1 of 3
Sulfate (mg/L)	GWC-46R	8.912	n/a	3/15/2018	6.4	No	9	0	No	0.001462	Param 1 of 3
Sulfate (mg/L)	GWC-47	5.291	n/a	3/15/2018	3.7	No	9	0	No	0.001462	Param 1 of 3
Sulfate (mg/L)	**GWC-47R**	**9.918**	**n/a**	**3/16/2018**	**13.4**	**Yes**	**9**	**0**	**No**	**0.001462**	Param 1 of 3
Sulfate (mg/L)	GWC-48	3.471	n/a	3/15/2018	0.76	No	10	10	No	0.001462	Param 1 of 3
Sulfate (mg/L)	GWC-49R	4.085	n/a	3/15/2018	3.1	No	10	0	No	0.001462	Param 1 of 3
Sulfate (mg/L)	GWC-49Z	8.536	n/a	3/15/2018	2.4	No	9	0	sqrt(x)	0.001462	Param 1 of 3

Intrawell Prediction Limit

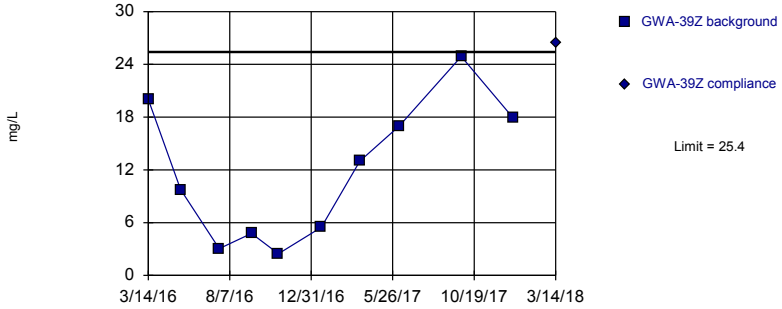
Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR Printed 7/16/2018, 1:48 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Sulfate (mg/L)	GWA-39R_39RZ	27.78	n/a	3/16/2018	15.5	No	9	0	No	0.001462	Param 1 of 3
Total Dissolved Solids (mg/l)	**GWA-39Z**	**117.1**	**n/a**	**3/14/2018**	**126**	**Yes**	**8**	**0**	**No**	**0.001462**	Param 1 of 3
Total Dissolved Solids (mg/l)	GWA-40	147.5	n/a	3/14/2018	123	No	9	0	No	0.001462	Param 1 of 3
Total Dissolved Solids (mg/l)	**GWA-41**	**138**	**n/a**	**3/14/2018**	**192**	**Yes**	**9**	**0**	**No**	**0.001462**	Param 1 of 3
Total Dissolved Solids (mg/l)	GWA-41R	222.2	n/a	3/14/2018	210	No	9	0	No	0.001462	Param 1 of 3
Total Dissolved Solids (mg/l)	GWA-42	175.9	n/a	3/14/2018	134	No	9	0	No	0.001462	Param 1 of 3
Total Dissolved Solids (mg/l)	GWA-43	87.05	n/a	3/14/2018	12.5ND	No	9	11.11	No	0.001462	Param 1 of 3
Total Dissolved Solids (mg/l)	GWA-43R	167.9	n/a	3/15/2018	117	No	9	0	No	0.001462	Param 1 of 3
Total Dissolved Solids (mg/l)	GWC-44	154.3	n/a	3/15/2018	41	No	10	20	sqrt(x)	0.001462	Param 1 of 3
Total Dissolved Solids (mg/l)	GWC-45	26.32	n/a	3/15/2018	12.5ND	No	9	44.44	No	0.001462	Param 1 of 3
Total Dissolved Solids (mg/l)	GWC-45R	201.4	n/a	3/15/2018	146	No	9	0	No	0.001462	Param 1 of 3
Total Dissolved Solids (mg/l)	GWC-46R	277.3	n/a	3/15/2018	231	No	9	0	No	0.001462	Param 1 of 3
Total Dissolved Solids (mg/l)	GWC-47	162.6	n/a	3/15/2018	102	No	9	0	No	0.001462	Param 1 of 3
Total Dissolved Solids (mg/l)	GWC-47R	176.6	n/a	3/16/2018	141	No	9	0	No	0.001462	Param 1 of 3
Total Dissolved Solids (mg/l)	GWC-48	70.01	n/a	3/15/2018	12.5ND	No	9	22.22	sqrt(x)	0.001462	Param 1 of 3
Total Dissolved Solids (mg/l)	GWC-49R	171.6	n/a	3/15/2018	88	No	9	0	No	0.001462	Param 1 of 3
Total Dissolved Solids (mg/l)	GWC-49Z	69.64	n/a	3/15/2018	12.5ND	No	9	22.22	No	0.001462	Param 1 of 3
Total Dissolved Solids (mg/l)	GWA-39R_39RZ	255	n/a	3/16/2018	150	No	9	0	No	0.001462	Param 1 of 3

Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=11.83, Std. Dev.=7.903, n=10. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9256, critical = 0.781. Kappa = 1.718 (c=4, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.001462.

Constituent: Calcium Analysis Run 7/16/2018 1:42 PM View: cells9&10_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

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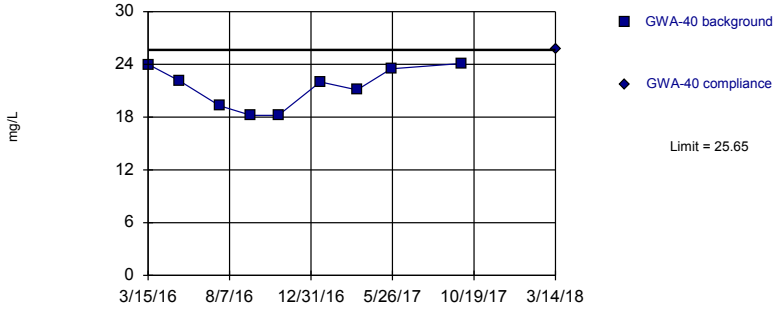
Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=21.39, Std. Dev.=2.353, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8905, critical = 0.764. Kappa = 1.811 (c=4, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.001462.

Constituent: Calcium Analysis Run 7/16/2018 1:42 PM View: cells9&10_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

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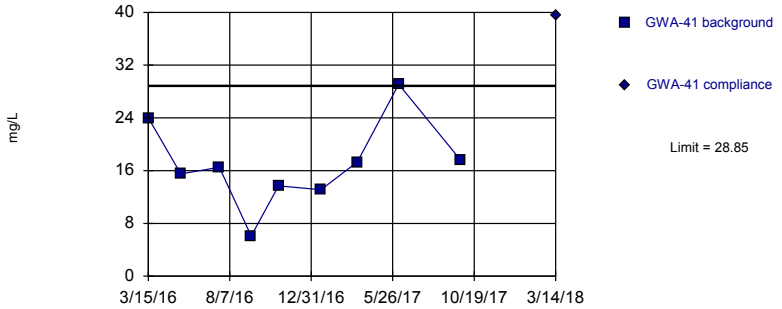
Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=16.99, Std. Dev.=6.55, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9459, critical = 0.764. Kappa = 1.811 (c=4, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.001462.

Constituent: Calcium Analysis Run 7/16/2018 1:42 PM View: cells9&10_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

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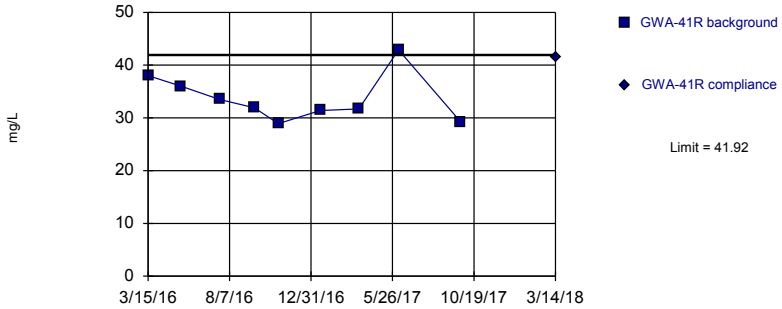
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=33.73, Std. Dev.=4.519, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9028, critical = 0.764. Kappa = 1.811 (c=4, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.001462.

Constituent: Calcium Analysis Run 7/16/2018 1:42 PM View: cells9&10_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

Prediction Limit

Constituent: Calcium Analysis Run 7/16/2018 1:48 PM View: cells9&10_AppIII_intrawell

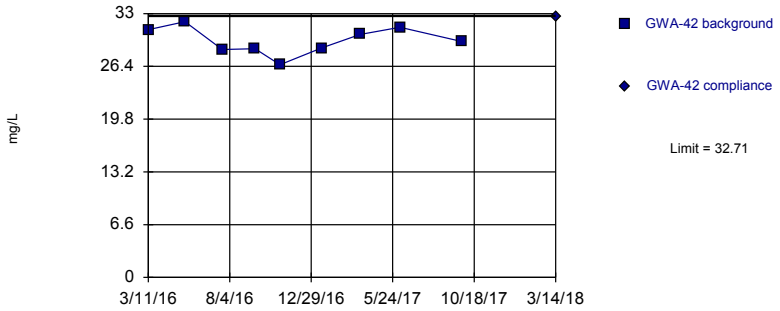
Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWA-39Z	GWA-39Z	GWA-40	GWA-40	GWA-41	GWA-41	GWA-41R	GWA-41R
3/14/2016	20							
3/15/2016			24		24		38	
5/11/2016	9.76		22.1					
5/12/2016					15.5			
5/13/2016							36	
7/19/2016	3.04							
7/20/2016					16.5			
7/21/2016			19.3				33.5	
9/15/2016	4.78		18.2		6.1			
9/21/2016							31.9	
11/2/2016	2.46							
11/3/2016			18.2		13.7		28.9	
1/17/2017			22				31.4	
1/18/2017	5.46				13.1			
3/24/2017			21.1		17.3			
3/27/2017							31.7	
3/28/2017	13							
5/24/2017			23.5					
6/6/2017					29.1		42.9	
6/7/2017	17							
9/25/2017					17.6		29.3	
9/26/2017	24.9		24.1					
12/28/2017	17.9 (Y)							
3/14/2018		26.4		25.7		39.6		41.4

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=29.62, Std. Dev.=1.706, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9584, critical = 0.764. Kappa = 1.811 (c=4, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.001462.

Constituent: Calcium Analysis Run 7/16/2018 1:42 PM View: cells9&10_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

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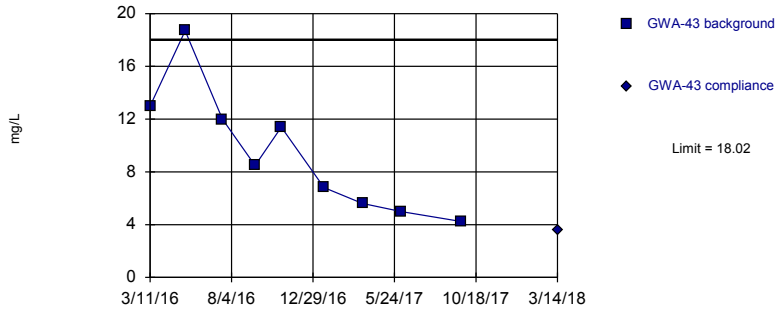
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=9.47, Std. Dev.=4.719, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.921, critical = 0.764. Kappa = 1.811 (c=4, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.001462.

Constituent: Calcium Analysis Run 7/16/2018 1:42 PM View: cells9&10_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

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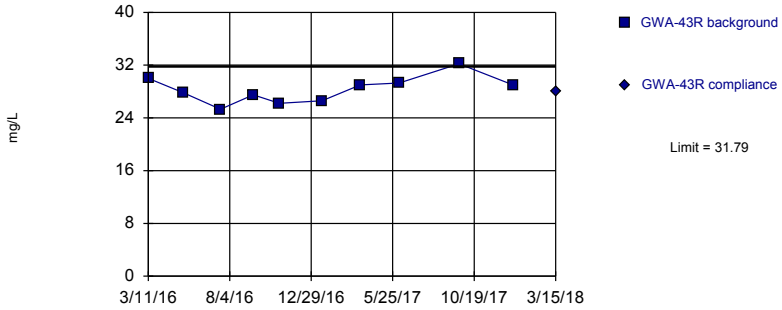
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=28.29, Std. Dev.=2.035, n=10. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9724, critical = 0.781. Kappa = 1.718 (c=4, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.001462.

Constituent: Calcium Analysis Run 7/16/2018 1:42 PM View: cells9&10_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

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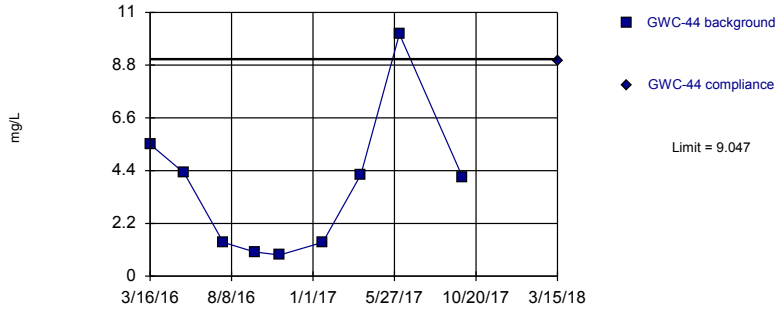
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=3.665, Std. Dev.=2.972, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8435, critical = 0.764. Kappa = 1.811 (c=4, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.001462.

Constituent: Calcium Analysis Run 7/16/2018 1:42 PM View: cells9&10_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

Prediction Limit

Constituent: Calcium Analysis Run 7/16/2018 1:48 PM View: cells9&10_AppIII_intrawell

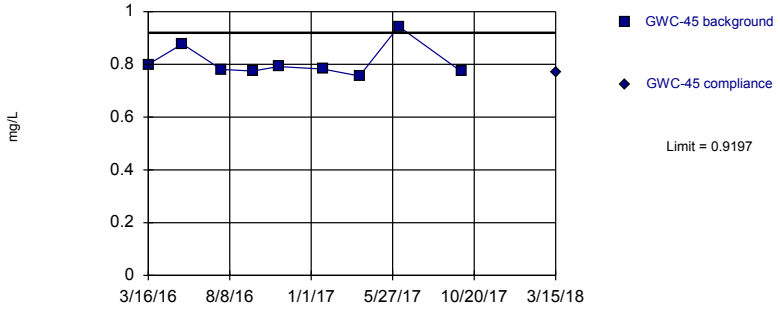
Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWA-42	GWA-42	GWA-43	GWA-43	GWA-43R	GWA-43R	GWC-44	GWC-44
3/11/2016	31		13		30			
3/16/2016							5.5	
5/13/2016			18.7		27.8			
5/16/2016	32						4.3	
7/19/2016			12		25.3			
7/22/2016	28.5							
7/25/2016							1.41	
9/16/2016			8.48		27.5			
9/19/2016	28.6						1.01	
11/2/2016			11.4		26.2			
11/3/2016	26.6						0.884	
1/17/2017	28.7							
1/18/2017			6.81		26.6			
1/19/2017							1.41	
3/27/2017	30.4							
3/28/2017			5.61		29		4.23	
6/5/2017							10.1	
6/6/2017			4.99		29.3			
6/7/2017	31.3							
9/22/2017			4.24		32.2			
9/26/2017	29.5						4.14	
12/28/2017					29 (Y)			
3/14/2018		32.6		3.6				
3/15/2018						28		9

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube root transformation): Mean=0.9312, Std. Dev.=0.02278, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7649, critical = 0.764. Kappa = 1.811 (c=4, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.001462.

Constituent: Calcium Analysis Run 7/16/2018 1:43 PM View: cells9&10_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

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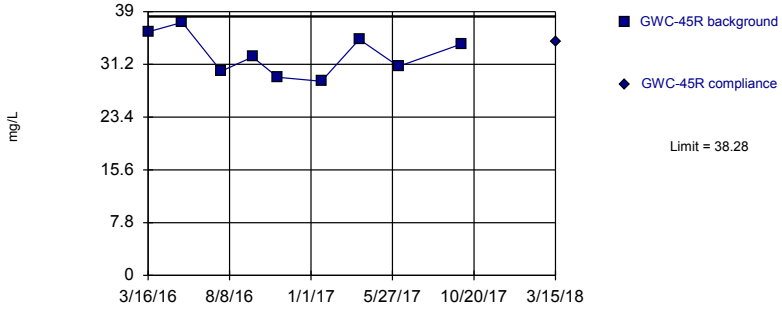
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=32.66, Std. Dev.=3.108, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9433, critical = 0.764. Kappa = 1.811 (c=4, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.001462.

Constituent: Calcium Analysis Run 7/16/2018 1:43 PM View: cells9&10_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

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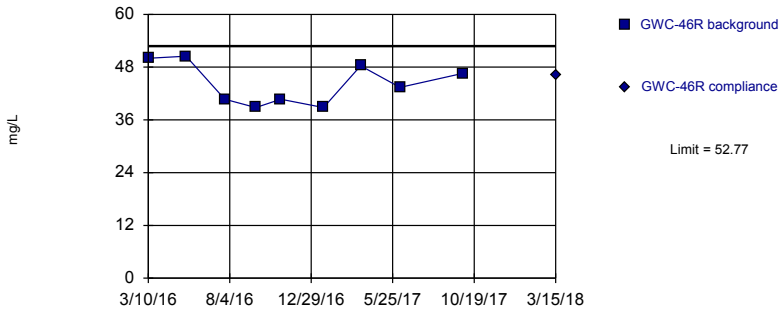
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=44.2, Std. Dev.=4.735, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8827, critical = 0.764. Kappa = 1.811 (c=4, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.001462.

Constituent: Calcium Analysis Run 7/16/2018 1:43 PM View: cells9&10_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

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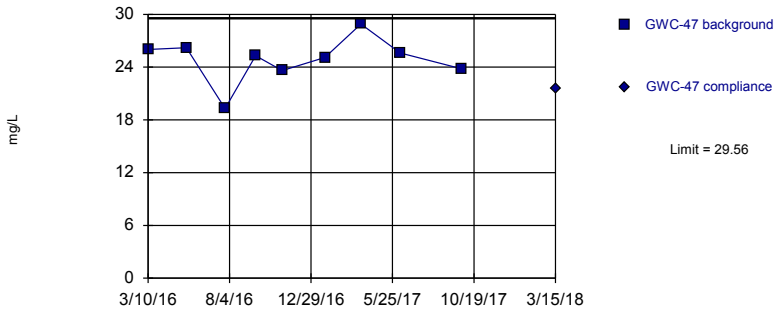
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=24.87, Std. Dev.=2.594, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9044, critical = 0.764. Kappa = 1.811 (c=4, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.001462.

Constituent: Calcium Analysis Run 7/16/2018 1:43 PM View: cells9&10_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

Prediction Limit

Constituent: Calcium Analysis Run 7/16/2018 1:48 PM View: cells9&10_AppIII_intrawell

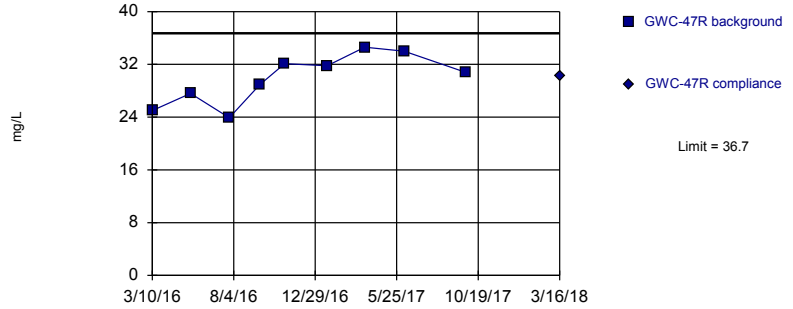
Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWC-45	GWC-45	GWC-45R	GWC-45R	GWC-46R	GWC-46R	GWC-47	GWC-47
3/10/2016					50		26	
3/16/2016	0.8		36					
5/16/2016	0.877		37.4					
5/17/2016					50.5			
5/18/2016							26.2	
7/25/2016	0.781		30.2					
7/26/2016					40.7			
7/27/2016							19.3	
9/19/2016	0.775		32.3					
9/20/2016					38.8		25.3	
11/3/2016			29.3					
11/4/2016	0.792				40.7			
11/7/2016							23.6	
1/20/2017			28.7		38.8			
1/23/2017	0.782						25.1	
3/28/2017					48.3			
3/29/2017	0.756		34.9				28.9	
6/7/2017	0.944		30.9		43.4			
6/8/2017							25.6	
9/27/2017	0.773		34.2				23.8	
9/29/2017					46.6			
3/15/2018		0.77		34.6		46.2		21.6 (J)

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=29.86, Std. Dev.=3.782, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9421, critical = 0.764. Kappa = 1.811 (c=4, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.001462.

Constituent: Calcium Analysis Run 7/16/2018 1:43 PM View: cells9&10_AppIII_intrawell

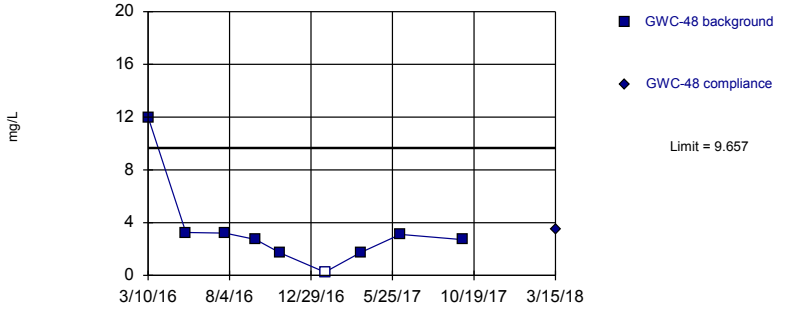
Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square root transformation): Mean=1.692, Std. Dev.=0.7819, n=9, 11.11% NDs. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8293, critical = 0.764. Kappa = 1.811 (c=4, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.001462.

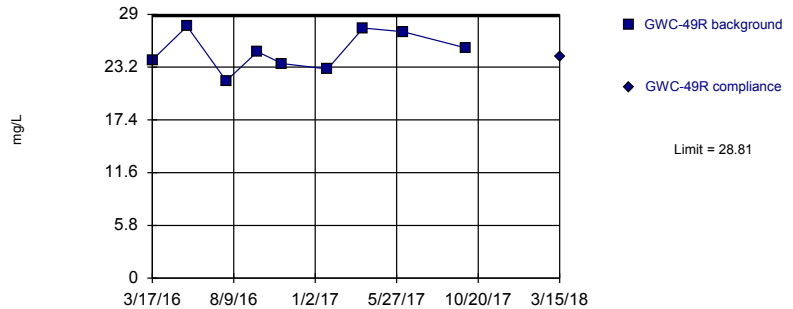
Constituent: Calcium Analysis Run 7/16/2018 1:43 PM View: cells9&10_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=24.98, Std. Dev.=2.118, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9395, critical = 0.764. Kappa = 1.811 (c=4, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.001462.

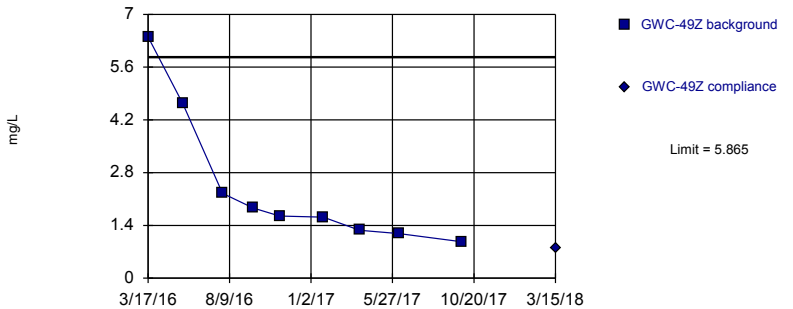
Constituent: Calcium Analysis Run 7/16/2018 1:43 PM View: cells9&10_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square root transformation): Mean=1.478, Std. Dev.=0.5214, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8239, critical = 0.764. Kappa = 1.811 (c=4, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.001462.

Constituent: Calcium Analysis Run 7/16/2018 1:43 PM View: cells9&10_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

Prediction Limit

Constituent: Calcium Analysis Run 7/16/2018 1:48 PM View: cells9&10_AppIII_intrawell

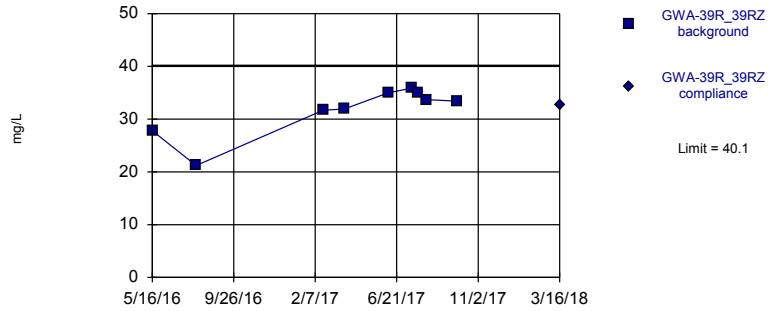
Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWC-47R	GWC-47R	GWC-48	GWC-48	GWC-49R	GWC-49R	GWC-49Z	GWC-49Z
3/10/2016	25		12					
3/17/2016					24		6.4	
5/17/2016			3.25					
5/18/2016	27.6				27.7		4.63	
7/27/2016	23.9		3.2		21.7			
7/28/2016							2.25	
9/20/2016	28.9		2.72					
9/21/2016					24.9		1.86	
11/4/2016	32.1		1.69		23.6			
11/7/2016							1.65	
1/20/2017	31.8							
1/23/2017			<0.5					
1/24/2017					23		1.62	
3/28/2017			1.72					
3/29/2017	34.6				27.5			
3/30/2017							1.27	
6/8/2017	34		3.11		27.1			
6/9/2017							1.18	
9/27/2017	30.8							
9/29/2017			2.71		25.3		0.967	
3/15/2018				3.5		24.4 (J)		0.81
3/16/2018		30.2						

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=31.72, Std. Dev.=4.625, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8127, critical = 0.764. Kappa = 1.811 (c=4, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.001462.

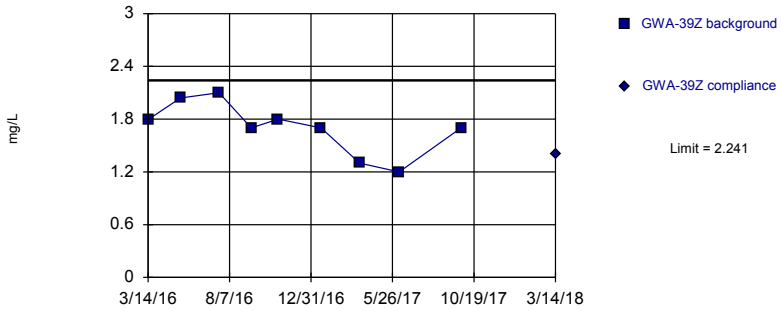
Constituent: Calcium Analysis Run 7/16/2018 1:43 PM View: cells9&10_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=1.704, Std. Dev.=0.2968, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9056, critical = 0.764. Kappa = 1.811 (c=4, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.001462.

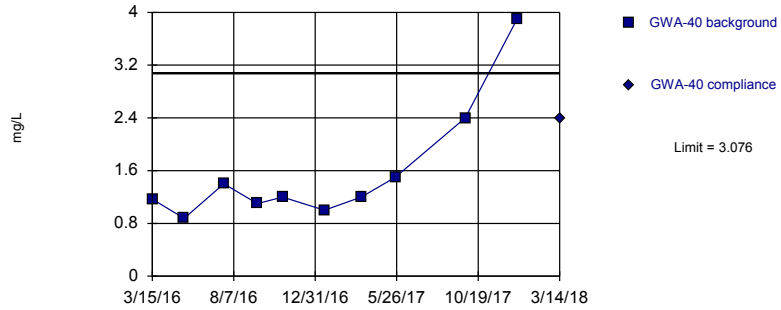
Constituent: Chloride Analysis Run 7/16/2018 1:43 PM View: cells9&10_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube root transformation): Mean=1.134, Std. Dev.=0.1863, n=10. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7933, critical = 0.781. Kappa = 1.718 (c=4, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.001462.

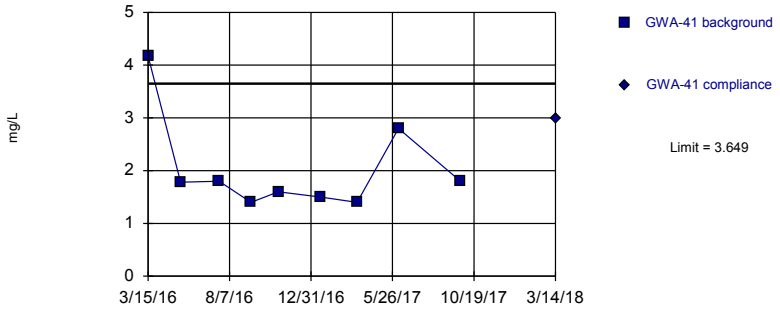
Constituent: Chloride Analysis Run 7/16/2018 1:43 PM View: cells9&10_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube root transformation): Mean=1.246, Std. Dev.=0.162, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7684, critical = 0.764. Kappa = 1.811 (c=4, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.001462.

Constituent: Chloride Analysis Run 7/16/2018 1:43 PM View: cells9&10_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

Prediction Limit

Constituent: Calcium, Chloride Analysis Run 7/16/2018 1:48 PM View: cells9&10_AppIII_intrawell

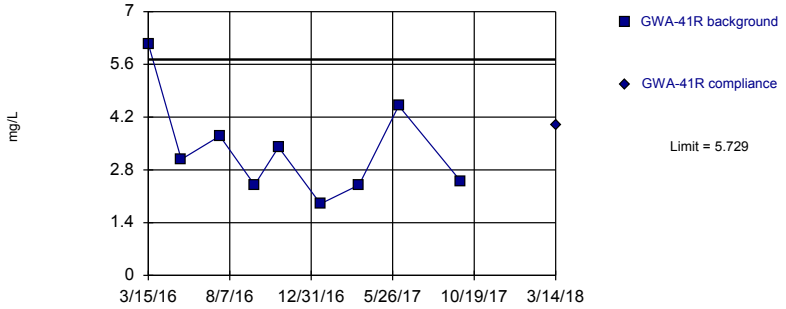
Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWA-39R_39RZ	GWA-39R_39RZ	GWA-39Z	GWA-39Z	GWA-40	GWA-40	GWA-41	GWA-41
3/14/2016			1.795					
3/15/2016					1.1671		4.1666	
5/11/2016			2.04		0.8763			
5/12/2016							1.78	
5/16/2016	27.8 (D)							
7/19/2016			2.1					
7/20/2016							1.8	
7/21/2016					1.4			
7/27/2016	21.2 (D)							
9/15/2016			1.7				1.4	
9/19/2016					1.1			
11/2/2016			1.8					
11/3/2016					1.2		1.6	
1/17/2017					1			
1/18/2017			1.7				1.5	
2/21/2017	31.7 (D)							
3/24/2017					1.2		1.4	
3/27/2017	31.9 (D)							
3/28/2017			1.3					
5/24/2017					1.5			
6/6/2017							2.8	
6/7/2017			1.2					
6/8/2017	35 (D)							
7/17/2017	35.9 (D)							
7/27/2017	34.9 (D)							
8/9/2017	33.7 (D)							
9/25/2017							1.8	
9/26/2017			1.7		2.4			
9/29/2017	33.4 (D)							
12/28/2017					3.9 (Y)			
3/14/2018				1.4		2.4		3
3/16/2018		32.6						

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=3.336, Std. Dev.=1.321, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8888, critical = 0.764. Kappa = 1.811 (c=4, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.001462.

Constituent: Chloride Analysis Run 7/16/2018 1:43 PM View: cells9&10_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

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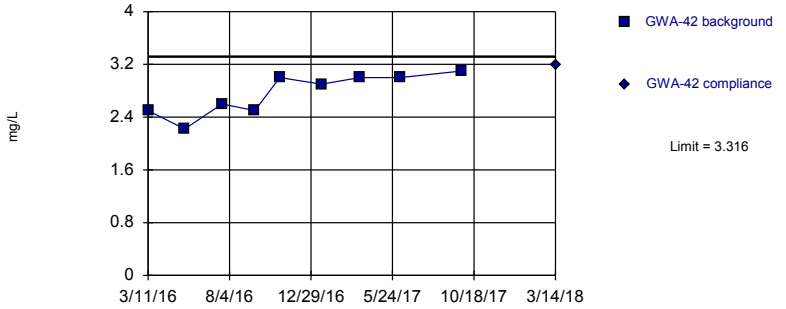
Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=2.758, Std. Dev.=0.3085, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8781, critical = 0.764. Kappa = 1.811 (c=4, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.001462.

Constituent: Chloride Analysis Run 7/16/2018 1:43 PM View: cells9&10_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

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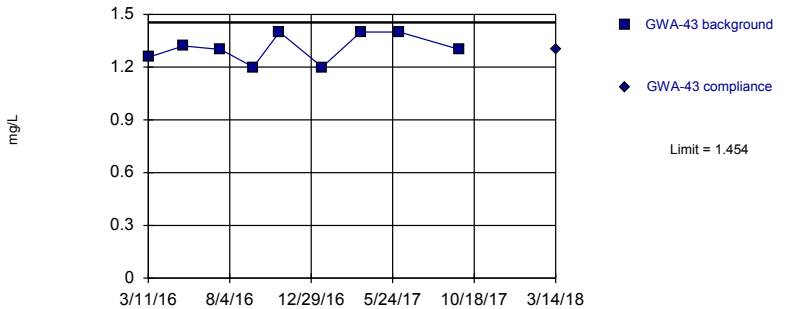
Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=1.308, Std. Dev.=0.08037, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8776, critical = 0.764. Kappa = 1.811 (c=4, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.001462.

Constituent: Chloride Analysis Run 7/16/2018 1:43 PM View: cells9&10_AppIII_intrawell

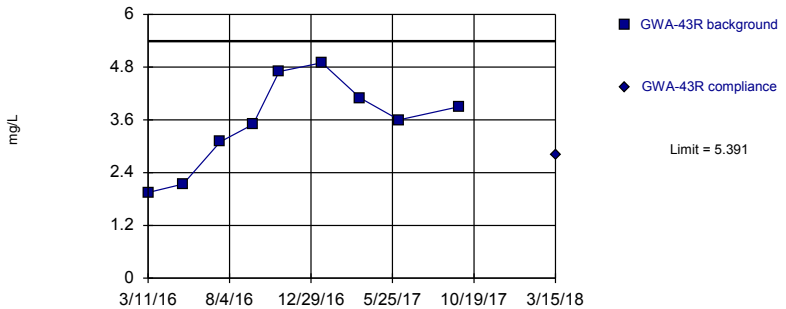
Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

Sanitas™ v.9.5.32 Sanitas software licensed to AMEC. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=3.543, Std. Dev.=1.021, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9438, critical = 0.764. Kappa = 1.811 (c=4, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.001462.

Constituent: Chloride Analysis Run 7/16/2018 1:43 PM View: cells9&10_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

Prediction Limit

Constituent: Chloride Analysis Run 7/16/2018 1:48 PM View: cells9&10_AppIII_intrawell

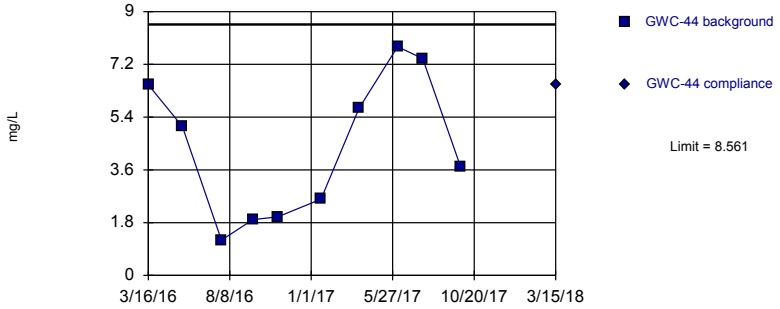
Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWA-41R	GWA-41R	GWA-42	GWA-42	GWA-43	GWA-43	GWA-43R	GWA-43R
3/11/2016			2.4984		1.2562		1.9467	
3/15/2016	6.1465							
5/13/2016	3.08				1.32		2.14	
5/16/2016			2.22					
7/19/2016					1.3		3.1	
7/21/2016	3.7							
7/22/2016			2.6					
9/16/2016					1.2		3.5	
9/19/2016			2.5					
9/21/2016	2.4							
11/2/2016					1.4		4.7	
11/3/2016	3.4		3					
1/17/2017	1.9		2.9					
1/18/2017					1.2		4.9	
3/27/2017	2.4		3					
3/28/2017					1.4		4.1	
6/6/2017	4.5				1.4		3.6	
6/7/2017			3					
9/22/2017					1.3		3.9	
9/25/2017	2.5							
9/26/2017			3.1					
3/14/2018		4 (J)		3.2		1.3		
3/15/2018								2.8

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=4.389, Std. Dev.=2.429, n=10. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9216, critical = 0.781. Kappa = 1.718 (c=4, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.001462.

Constituent: Chloride Analysis Run 7/16/2018 1:44 PM View: cells9&10_AppIII_intrawell

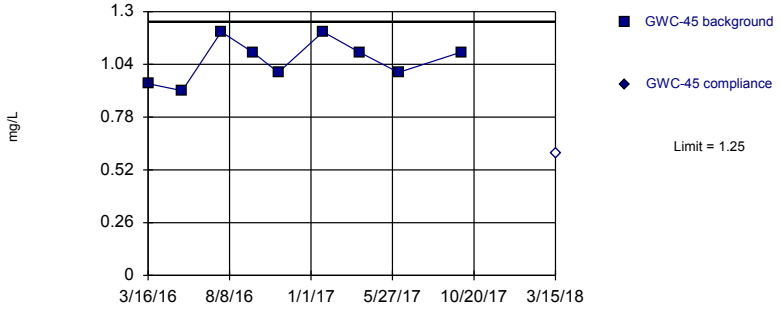
Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=1.062, Std. Dev.=0.1042, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9193, critical = 0.764. Kappa = 1.811 (c=4, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.001462.

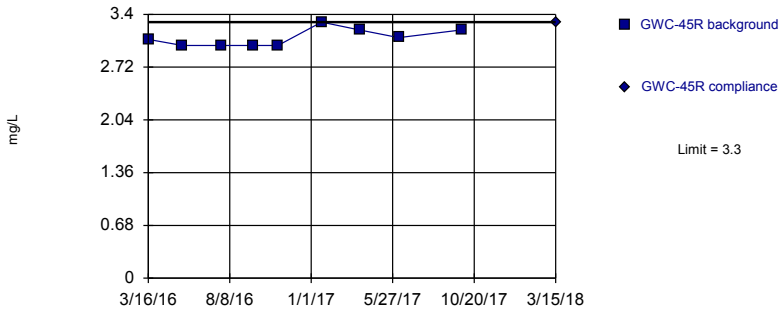
Constituent: Chloride Analysis Run 7/16/2018 1:44 PM View: cells9&10_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=3.097, Std. Dev.=0.1121, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8401, critical = 0.764. Kappa = 1.811 (c=4, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.001462.

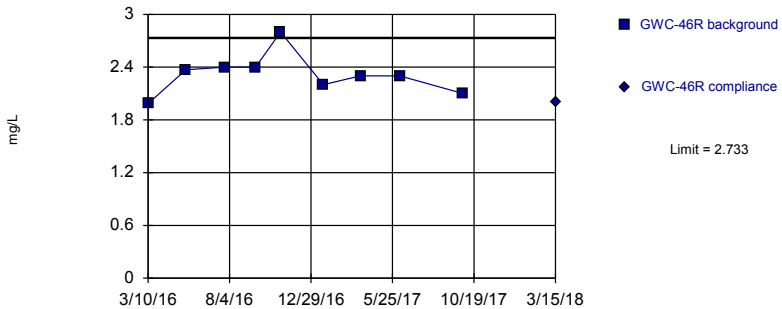
Constituent: Chloride Analysis Run 7/16/2018 1:44 PM View: cells9&10_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=2.317, Std. Dev.=0.2294, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9217, critical = 0.764. Kappa = 1.811 (c=4, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.001462.

Constituent: Chloride Analysis Run 7/16/2018 1:44 PM View: cells9&10_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

Prediction Limit

Constituent: Chloride Analysis Run 7/16/2018 1:48 PM View: cells9&10_AppIII_intrawell

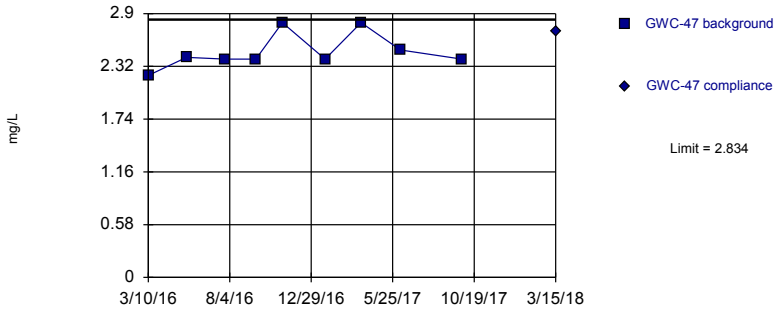
Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWC-44	GWC-44	GWC-45	GWC-45	GWC-45R	GWC-45R	GWC-46R	GWC-46R
3/10/2016							1.9859	
3/16/2016	6.505		0.9445		3.0774			
5/16/2016	5.08		0.9104		3			
5/17/2016							2.37	
7/25/2016	1.2		1.2		3			
7/26/2016							2.4	
9/19/2016	1.9		1.1		3			
9/20/2016							2.4	
11/3/2016	2				3			
11/4/2016			1				2.8	
1/19/2017	2.6							
1/20/2017					3.3		2.2	
1/23/2017			1.2					
3/28/2017	5.7						2.3	
3/29/2017			1.1		3.2			
6/5/2017	7.8							
6/7/2017			1		3.1		2.3	
7/20/2017	7.4							
9/26/2017	3.7							
9/27/2017			1.1		3.2			
9/29/2017							2.1	
3/15/2018		6.5		<1.2		3.3		2

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=2.482, Std. Dev.=0.1942, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8043, critical = 0.764. Kappa = 1.811 (c=4, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.001462.

Constituent: Chloride Analysis Run 7/16/2018 1:44 PM View: cells9&10_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

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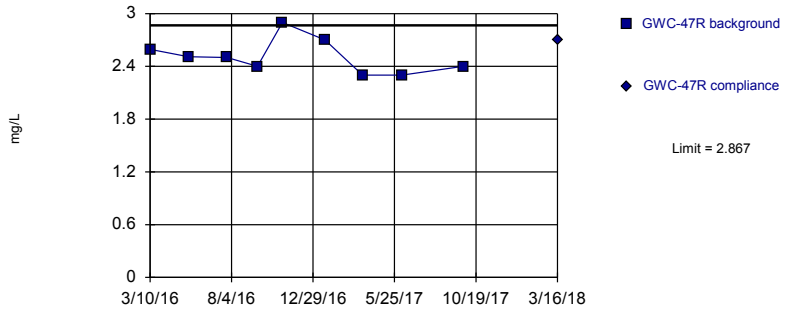
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=2.511, Std. Dev.=0.1961, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9189, critical = 0.764. Kappa = 1.811 (c=4, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.001462.

Constituent: Chloride Analysis Run 7/16/2018 1:44 PM View: cells9&10_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

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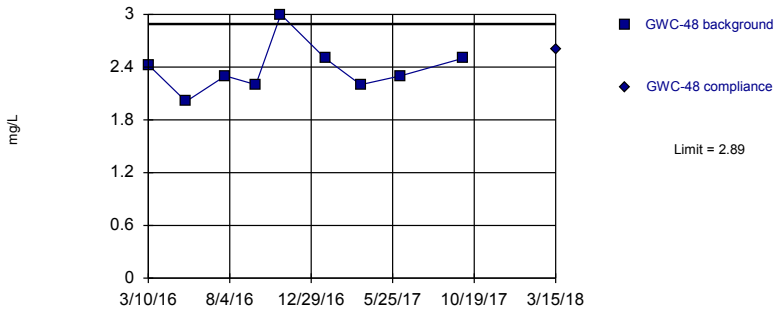
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=2.382, Std. Dev.=0.2806, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8967, critical = 0.764. Kappa = 1.811 (c=4, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.001462.

Constituent: Chloride Analysis Run 7/16/2018 1:44 PM View: cells9&10_AppIII_intrawell

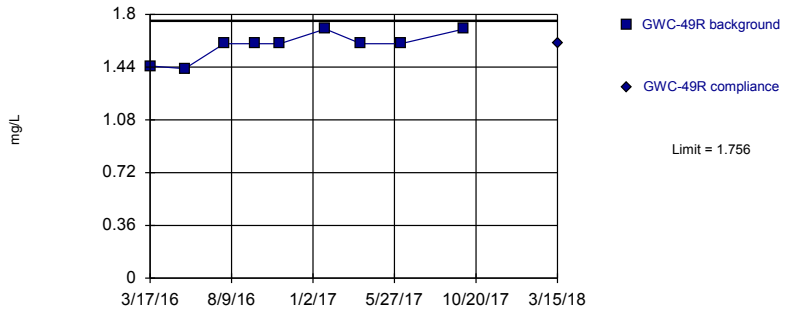
Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

Sanitas™ v.9.5.32 Sanitas software licensed to AMEC. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=1.586, Std. Dev.=0.09385, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8233, critical = 0.764. Kappa = 1.811 (c=4, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.001462.

Constituent: Chloride Analysis Run 7/16/2018 1:44 PM View: cells9&10_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

Prediction Limit

Constituent: Chloride Analysis Run 7/16/2018 1:48 PM View: cells9&10_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

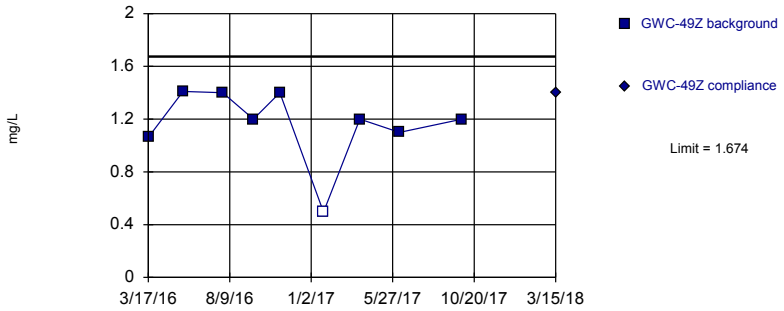
	GWC-47	GWC-47	GWC-47R	GWC-47R	GWC-48	GWC-48	GWC-49R	GWC-49R
3/10/2016	2.2206		2.5934		2.4266			
3/17/2016							1.4476	
5/17/2016					2.01			
5/18/2016	2.42		2.51				1.43	
7/27/2016	2.4		2.5		2.3		1.6	
9/20/2016	2.4		2.4		2.2			
9/21/2016							1.6	
11/4/2016			2.9		3		1.6	
11/7/2016	2.8							
1/20/2017			2.7					
1/23/2017	2.4				2.5			
1/24/2017							1.7	
3/28/2017					2.2			
3/29/2017	2.8		2.3				1.6	
6/8/2017	2.5		2.3		2.3		1.6	
9/27/2017	2.4		2.4					
9/29/2017					2.5		1.7	
3/15/2018		2.7				2.6		1.6
3/16/2018				2.7				

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=1.163, Std. Dev.=0.2823, n=9, 11.11% NDs. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.785, critical = 0.764. Kappa = 1.811 (c=4, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.001462.

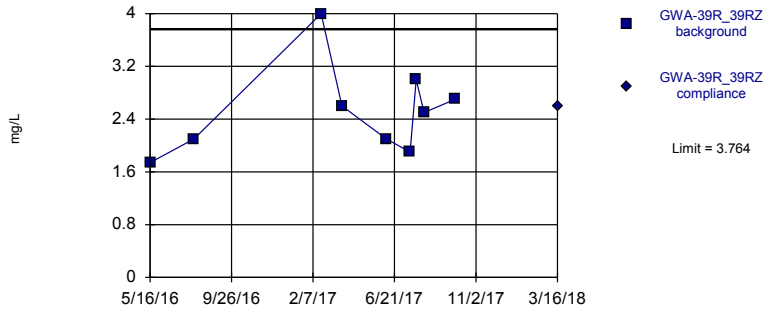
Constituent: Chloride Analysis Run 7/16/2018 1:44 PM View: cells9&10_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=2.516, Std. Dev.=0.6897, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9027, critical = 0.764. Kappa = 1.811 (c=4, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.001462.

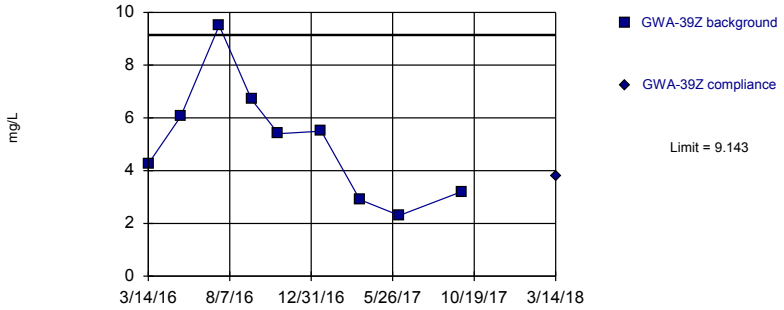
Constituent: Chloride Analysis Run 7/16/2018 1:44 PM View: cells9&10_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=5.09, Std. Dev.=2.238, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9448, critical = 0.764. Kappa = 1.811 (c=4, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.001462.

Constituent: Sulfate Analysis Run 7/16/2018 1:44 PM View: cells9&10_AppIII_intrawell

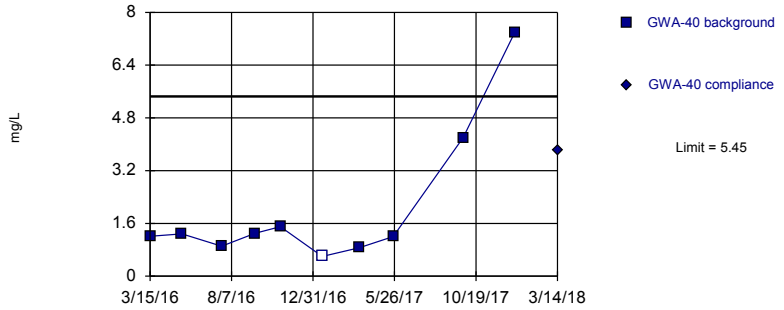
Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=0.3969, Std. Dev.=0.7562, n=10, 10% NDs. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8428, critical = 0.781. Kappa = 1.718 (c=4, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.001462.

Constituent: Sulfate Analysis Run 7/16/2018 1:44 PM View: cells9&10_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

Prediction Limit

Constituent: Chloride, Sulfate Analysis Run 7/16/2018 1:48 PM View: cells9&10_AppIII_intrawell

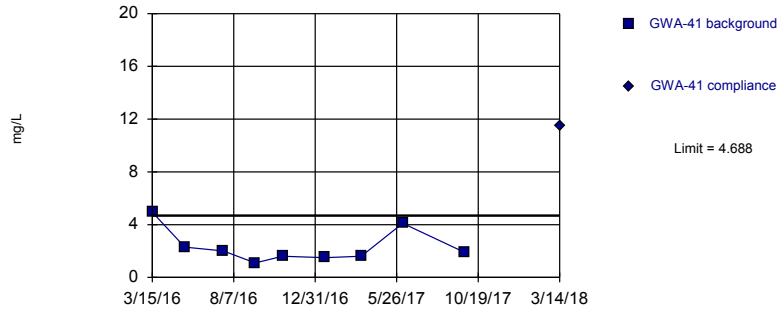
Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWC-49Z	GWC-49Z	GWA-39R_39RZ	GWA-39R_39RZ	GWA-39Z	GWA-39Z	GWA-40	GWA-40
3/14/2016					4.2598			
3/15/2016							1.2104	
3/17/2016	1.0624							
5/11/2016					6.05		1.28	
5/16/2016			1.74 (D)					
5/18/2016	1.41							
7/19/2016					9.5			
7/21/2016							0.91 (J)	
7/27/2016			2.1 (D)					
7/28/2016	1.4							
9/15/2016					6.7			
9/19/2016							1.3	
9/21/2016	1.2							
11/2/2016					5.4			
11/3/2016							1.5	
11/7/2016	1.4							
1/17/2017							<1.2 (*)	
1/18/2017					5.5			
1/24/2017	<0.99 (*)							
2/21/2017			4 (D)					
3/24/2017							0.86 (J)	
3/27/2017			2.6 (D)					
3/28/2017					2.9			
3/30/2017	1.2							
5/24/2017							1.2	
6/7/2017					2.3			
6/8/2017			2.1 (D)					
6/9/2017	1.1							
7/17/2017			1.9 (D)					
7/27/2017			3 (D)					
8/9/2017			2.5 (D)					
9/26/2017					3.2		4.2	
9/29/2017	1.2		2.7 (D)					
12/28/2017							7.4 (Y)	
3/14/2018						3.8		3.8
3/15/2018		1.4						
3/16/2018				2.6				

Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=2.337, Std. Dev.=1.298, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7969, critical = 0.764. Kappa = 1.811 (c=4, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.001462.

Constituent: Sulfate Analysis Run 7/16/2018 1:44 PM View: cells9&10_AppIII_intrawell

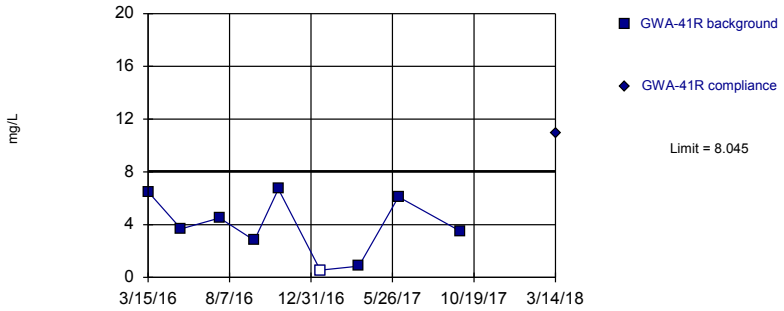
Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=3.909, Std. Dev.=2.284, n=9, 11.11% NDs. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9211, critical = 0.764. Kappa = 1.811 (c=4, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.001462.

Constituent: Sulfate Analysis Run 7/16/2018 1:44 PM View: cells9&10_AppIII_intrawell

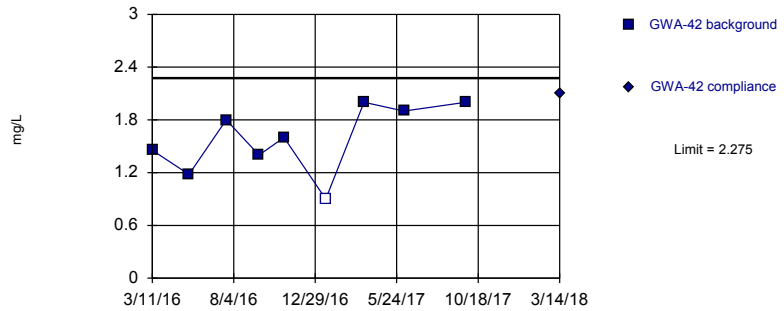
Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=1.582, Std. Dev.=0.3832, n=9, 11.11% NDs. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9301, critical = 0.764. Kappa = 1.811 (c=4, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.001462.

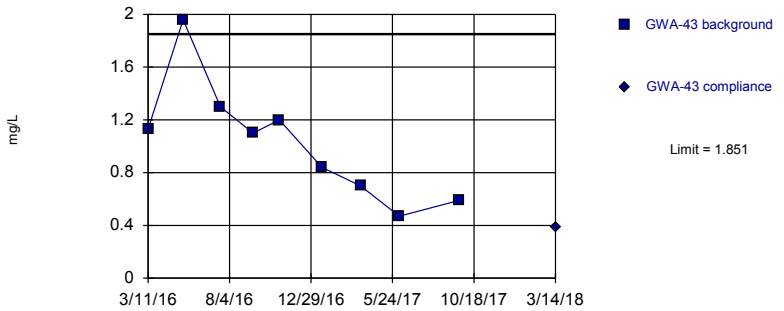
Constituent: Sulfate Analysis Run 7/16/2018 1:44 PM View: cells9&10_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=1.032, Std. Dev.=0.4519, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9319, critical = 0.764. Kappa = 1.811 (c=4, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.001462.

Constituent: Sulfate Analysis Run 7/16/2018 1:44 PM View: cells9&10_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

Prediction Limit

Constituent: Sulfate Analysis Run 7/16/2018 1:48 PM View: cells9&10_AppIII_intrawell

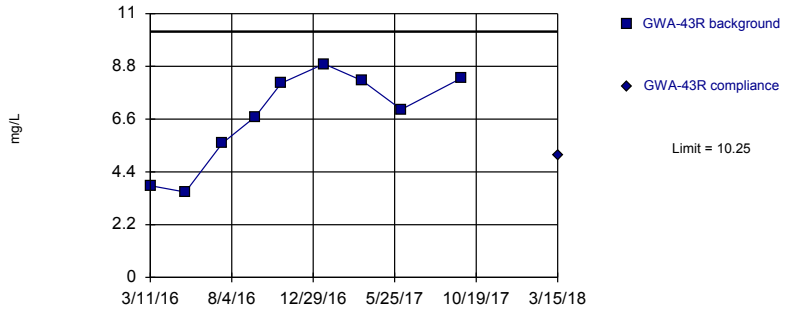
Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWA-41	GWA-41	GWA-41R	GWA-41R	GWA-42	GWA-42	GWA-43	GWA-43
3/11/2016					1.4538		1.1313	
3/15/2016	4.9347		6.4987					
5/12/2016	2.3							
5/13/2016			3.68				1.96	
5/16/2016					1.18			
7/19/2016							1.3	
7/20/2016	2							
7/21/2016			4.5					
7/22/2016					1.8			
9/15/2016	1.1							
9/16/2016							1.1	
9/19/2016					1.4			
9/21/2016			2.8					
11/2/2016							1.2	
11/3/2016	1.6		6.7		1.6			
1/17/2017			<1.1 (*)		<1.8 (*)			
1/18/2017	1.5						0.84 (J)	
3/24/2017	1.6							
3/27/2017			0.85 (J)		2			
3/28/2017							0.7 (J)	
6/6/2017	4.1		6.1				0.47 (J)	
6/7/2017					1.9			
9/22/2017							0.59 (J)	
9/25/2017	1.9		3.5					
9/26/2017					2			
3/14/2018		11.5		10.9 (J)		2.1		0.39 (J)

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=6.688, Std. Dev.=1.969, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8857, critical = 0.764. Kappa = 1.811 (c=4, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.001462.

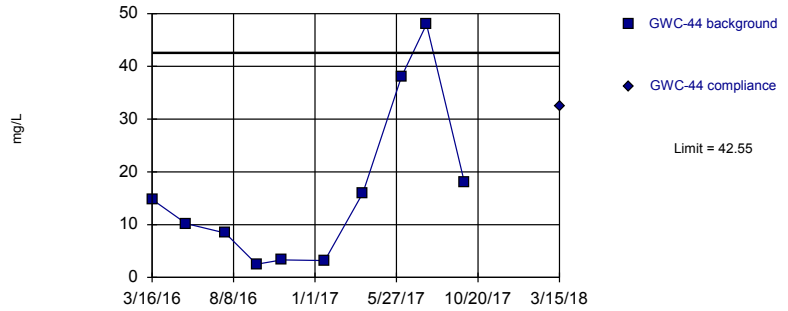
Constituent: Sulfate Analysis Run 7/16/2018 1:44 PM View: cells9&10_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=16.24, Std. Dev.=15.32, n=10. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8284, critical = 0.781. Kappa = 1.718 (c=4, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.001462.

Constituent: Sulfate Analysis Run 7/16/2018 1:45 PM View: cells9&10_AppIII_intrawell

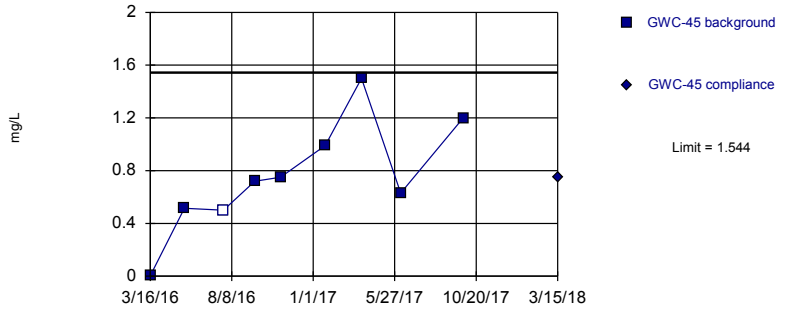
Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.7566, Std. Dev.=0.4346, n=9, 11.11% NDs. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9735, critical = 0.764. Kappa = 1.811 (c=4, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.001462.

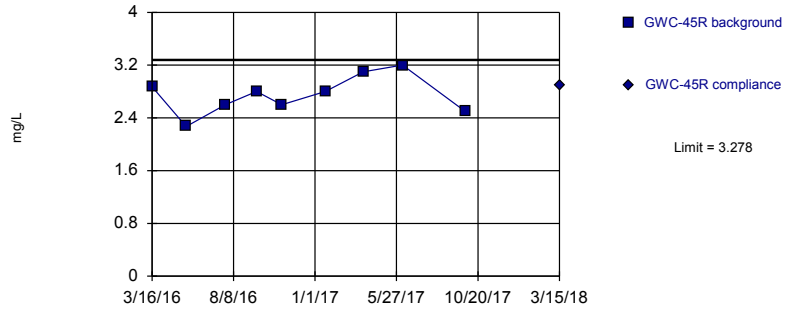
Constituent: Sulfate Analysis Run 7/16/2018 1:45 PM View: cells9&10_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=2.749, Std. Dev.=0.2921, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9726, critical = 0.764. Kappa = 1.811 (c=4, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.001462.

Constituent: Sulfate Analysis Run 7/16/2018 1:45 PM View: cells9&10_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

Prediction Limit

Constituent: Sulfate Analysis Run 7/16/2018 1:48 PM View: cells9&10_AppIII_intrawell

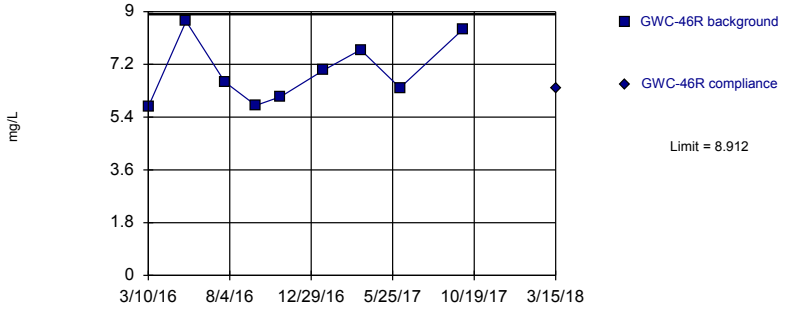
Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWA-43R	GWA-43R	GWC-44	GWC-44	GWC-45	GWC-45	GWC-45R	GWC-45R
3/11/2016	3.8282							
3/16/2016			14.7828		0.00424 (J)		2.8721	
5/13/2016	3.56							
5/16/2016			10.2		0.5151 (J)		2.27	
7/19/2016	5.6							
7/25/2016			8.4		<1 (*)		2.6	
9/16/2016	6.7							
9/19/2016			2.5		0.72 (J)		2.8	
11/2/2016	8.1							
11/3/2016			3.3				2.6	
11/4/2016					0.75 (J)			
1/18/2017	8.9							
1/19/2017			3.2					
1/20/2017							2.8	
1/23/2017					0.99 (J)			
3/28/2017	8.2		16 (J)					
3/29/2017					1.5		3.1	
6/5/2017			38					
6/6/2017	7							
6/7/2017					0.63 (J)		3.2	
7/20/2017			48					
9/22/2017	8.3							
9/26/2017			18					
9/27/2017					1.2		2.5	
3/15/2018		5.1		32.4		0.75 (J)		2.9

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=6.936, Std. Dev.=1.091, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9032, critical = 0.764. Kappa = 1.811 (c=4, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.001462.

Constituent: Sulfate Analysis Run 7/16/2018 1:45 PM View: cells9&10_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

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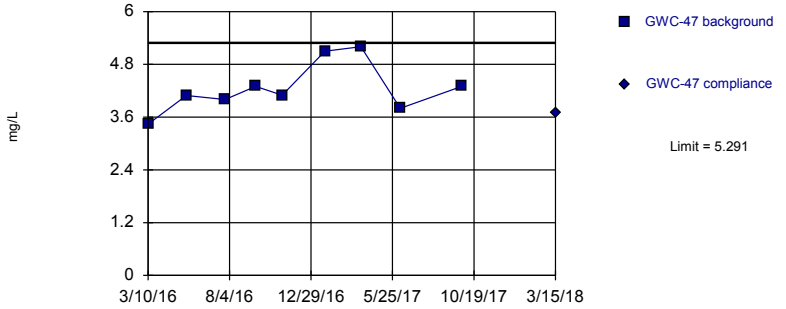
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=4.259, Std. Dev.=0.5698, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9092, critical = 0.764. Kappa = 1.811 (c=4, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.001462.

Constituent: Sulfate Analysis Run 7/16/2018 1:45 PM View: cells9&10_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

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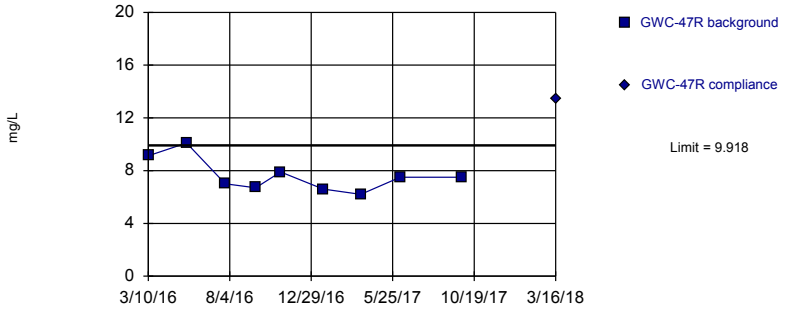
Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=7.625, Std. Dev.=1.266, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9023, critical = 0.764. Kappa = 1.811 (c=4, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.001462.

Constituent: Sulfate Analysis Run 7/16/2018 1:45 PM View: cells9&10_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

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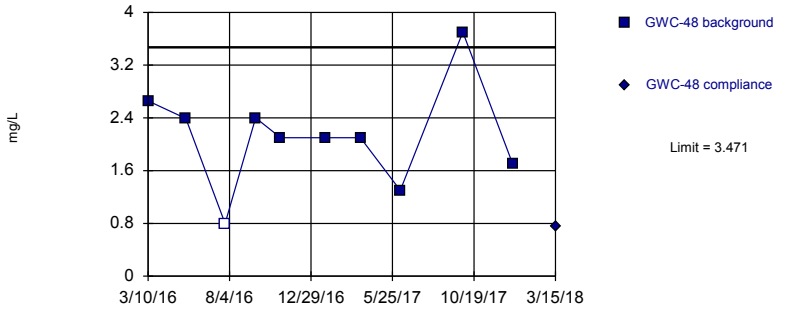
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=2.125, Std. Dev.=0.7837, n=10, 10% NDs. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9538, critical = 0.781. Kappa = 1.718 (c=4, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.001462.

Constituent: Sulfate Analysis Run 7/16/2018 1:45 PM View: cells9&10_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

Prediction Limit

Constituent: Sulfate Analysis Run 7/16/2018 1:49 PM View: cells9&10_AppIII_intrawell

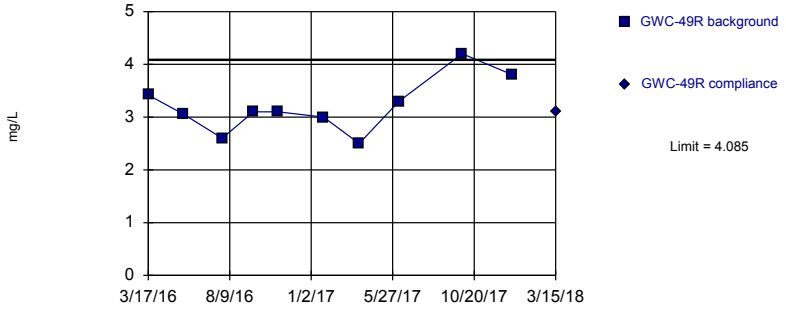
Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWC-46R	GWC-46R	GWC-47	GWC-47	GWC-47R	GWC-47R	GWC-48	GWC-48
3/10/2016	5.7554		3.4409		9.1279		2.6569	
5/17/2016	8.67						2.39	
5/18/2016			4.09		10.1			
7/26/2016	6.6							
7/27/2016			4		7		<1.6 (*)	
9/20/2016	5.8		4.3		6.7		2.4	
11/4/2016	6.1				7.9		2.1	
11/7/2016			4.1					
1/20/2017	7				6.6			
1/23/2017			5.1				2.1	
3/28/2017	7.7						2.1	
3/29/2017			5.2		6.2			
6/7/2017	6.4							
6/8/2017			3.8		7.5		1.3	
9/27/2017			4.3		7.5			
9/29/2017	8.4						3.7	
12/28/2017							1.7 (Y)	
3/15/2018		6.4		3.7				0.76 (J)
3/16/2018						13.4		

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=3.208, Std. Dev.=0.5107, n=10. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9456, critical = 0.781. Kappa = 1.718 (c=4, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.001462.

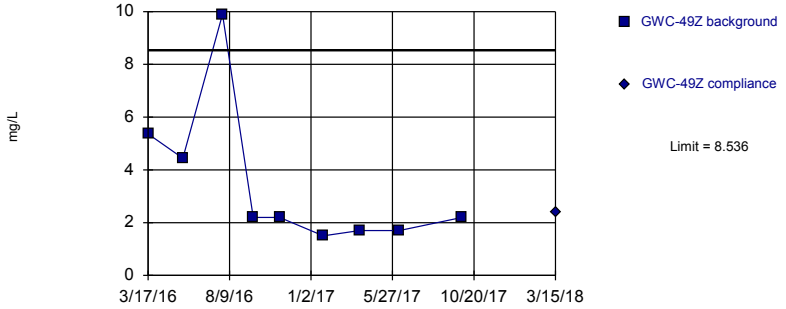
Constituent: Sulfate Analysis Run 7/16/2018 1:45 PM View: cells9&10_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square root transformation): Mean=1.761, Std. Dev.=0.6408, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7977, critical = 0.764. Kappa = 1.811 (c=4, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.001462.

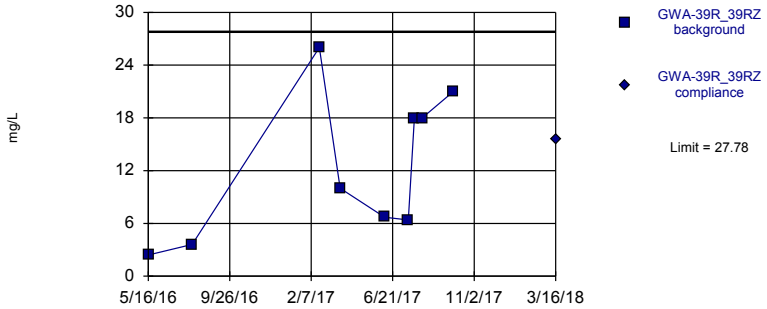
Constituent: Sulfate Analysis Run 7/16/2018 1:45 PM View: cells9&10_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=12.46, Std. Dev.=8.465, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9149, critical = 0.764. Kappa = 1.811 (c=4, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.001462.

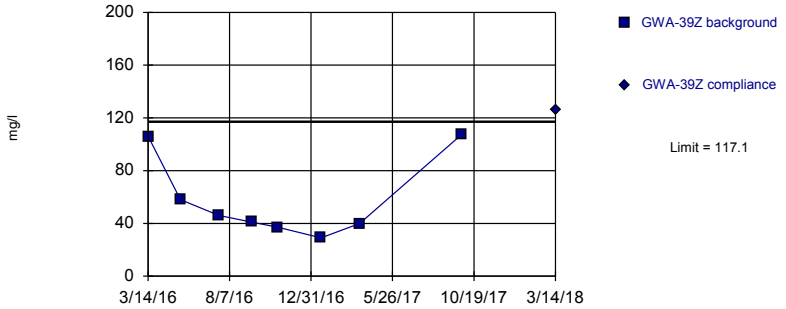
Constituent: Sulfate Analysis Run 7/16/2018 1:45 PM View: cells9&10_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=58, Std. Dev.=31.04, n=8. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7784, critical = 0.749. Kappa = 1.904 (c=4, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.001462.

Constituent: Total Dissolved Solids Analysis Run 7/16/2018 1:45 PM View: cells9&10_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

Prediction Limit

Constituent: Sulfate, Total Dissolved Solids Analysis Run 7/16/2018 1:49 PM View: cells9&10_AppIII_intrawell

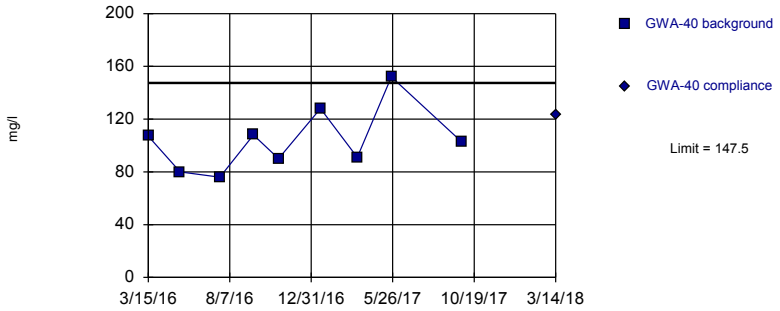
Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWC-49R	GWC-49R	GWC-49Z	GWC-49Z	GWA-39R_39RZ	GWA-39R_39RZ	GWA-39Z	GWA-39Z
3/14/2016							106	
3/17/2016	3.4197		5.3658					
5/11/2016							58	
5/16/2016					2.4 (D)			
5/18/2016	3.06		4.44					
7/19/2016							46	
7/27/2016	2.6				3.6 (D)			
7/28/2016			9.9					
9/15/2016							41	
9/21/2016	3.1		2.2					
11/2/2016							37	
11/4/2016	3.1							
11/7/2016			2.2					
1/18/2017							29	
1/24/2017	3		1.5					
2/21/2017					26 (D)			
3/27/2017					10 (D)			
3/28/2017							40	
3/29/2017	2.5							
3/30/2017			1.7					
6/8/2017	3.3				6.7 (D)			
6/9/2017			1.7					
7/17/2017					6.4 (D)			
7/27/2017					18 (D)			
8/9/2017					18 (D)			
9/26/2017							107	
9/29/2017	4.2		2.2		21 (D)			
12/28/2017	3.8 (Y)							
3/14/2018								126
3/15/2018		3.1		2.4				
3/16/2018						15.5		

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=103.9, Std. Dev.=24.06, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9234, critical = 0.764. Kappa = 1.811 (c=4, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.001462.

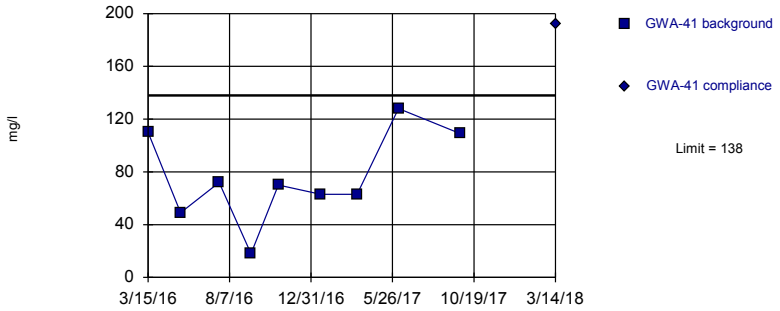
Constituent: Total Dissolved Solids Analysis Run 7/16/2018 1:45 PM View: cells9&10_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=75.78, Std. Dev.=34.34, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9468, critical = 0.764. Kappa = 1.811 (c=4, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.001462.

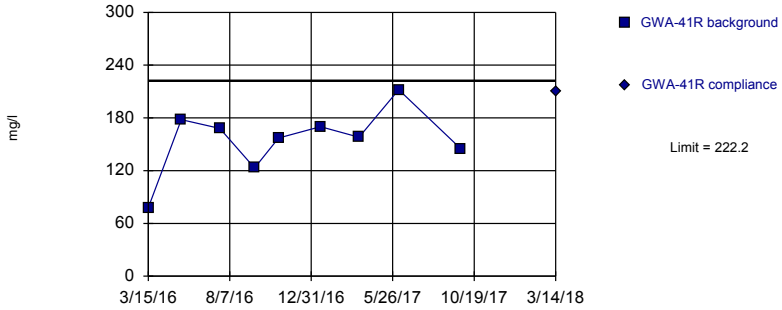
Constituent: Total Dissolved Solids Analysis Run 7/16/2018 1:45 PM View: cells9&10_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=154.3, Std. Dev.=37.47, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9393, critical = 0.764. Kappa = 1.811 (c=4, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.001462.

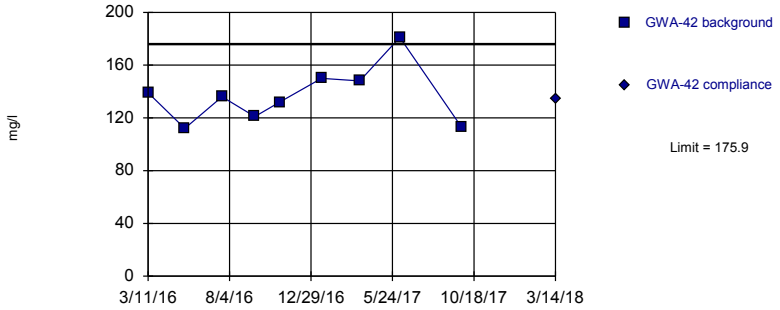
Constituent: Total Dissolved Solids Analysis Run 7/16/2018 1:45 PM View: cells9&10_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=136.9, Std. Dev.=21.54, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9258, critical = 0.764. Kappa = 1.811 (c=4, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.001462.

Constituent: Total Dissolved Solids Analysis Run 7/16/2018 1:45 PM View: cells9&10_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

Prediction Limit

Constituent: Total Dissolved Solids Analysis Run 7/16/2018 1:49 PM View: cells9&10_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWA-40	GWA-40	GWA-41	GWA-41	GWA-41R	GWA-41R	GWA-42	GWA-42
3/11/2016							139	
3/15/2016	107		110		78			
5/11/2016	80							
5/12/2016			49					
5/13/2016					178			
5/16/2016							112	
7/20/2016			72					
7/21/2016	76				168			
7/22/2016							136	
9/15/2016			18 (J)					
9/19/2016	108						121	
9/21/2016					123			
11/3/2016	90		70		157		132	
1/17/2017	128				170		150	
1/18/2017			63					
3/24/2017	91		63					
3/27/2017					158		148	
5/24/2017	152							
6/6/2017			128		212			
6/7/2017							181	
9/25/2017			109		145			
9/26/2017	103						113	
3/14/2018		123		192		210		134

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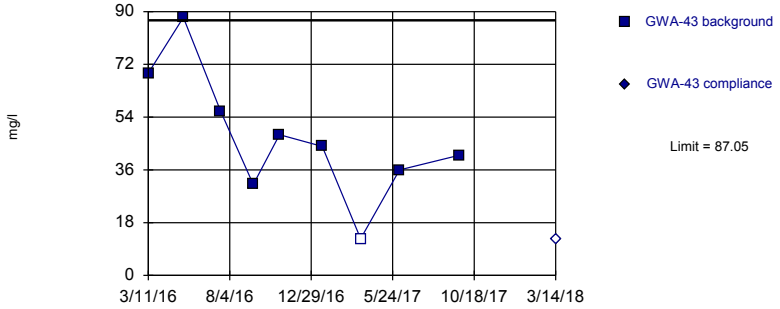
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=47.28, Std. Dev.=21.96, n=9, 11.11% NDs. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9769, critical = 0.764. Kappa = 1.811 (c=4, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.001462.

Constituent: Total Dissolved Solids Analysis Run 7/16/2018 1:45 PM View: cells9&10_AppIII_intrawell
Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

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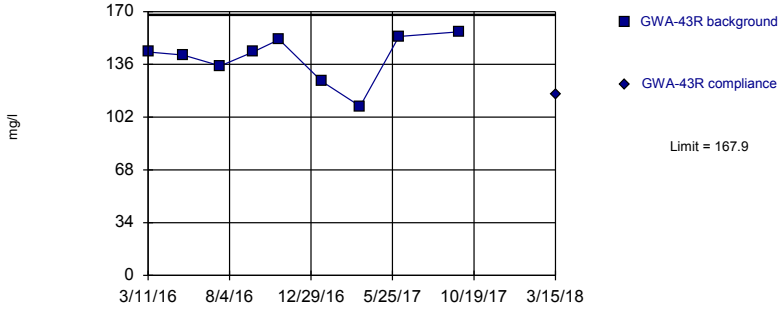
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=140.2, Std. Dev.=15.31, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9059, critical = 0.764. Kappa = 1.811 (c=4, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.001462.

Constituent: Total Dissolved Solids Analysis Run 7/16/2018 1:45 PM View: cells9&10_AppIII_intrawell
Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

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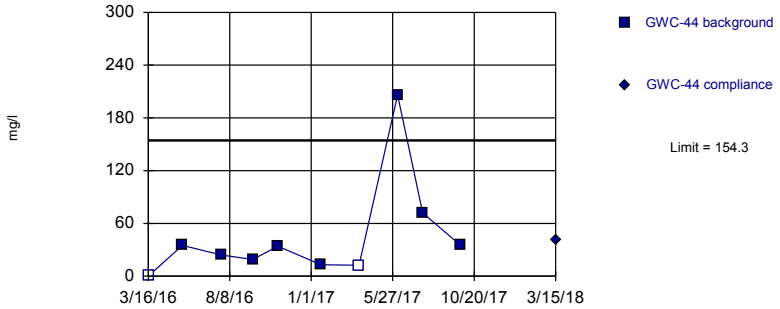
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square root transformation) (after Aitchison`s Adjustment): Mean=5.336, Std. Dev.=4.126, n=10, 20% NDs. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8834, critical = 0.781. Kappa = 1.718 (c=4, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.001462.

Constituent: Total Dissolved Solids Analysis Run 7/16/2018 1:45 PM View: cells9&10_AppIII_intrawell
Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

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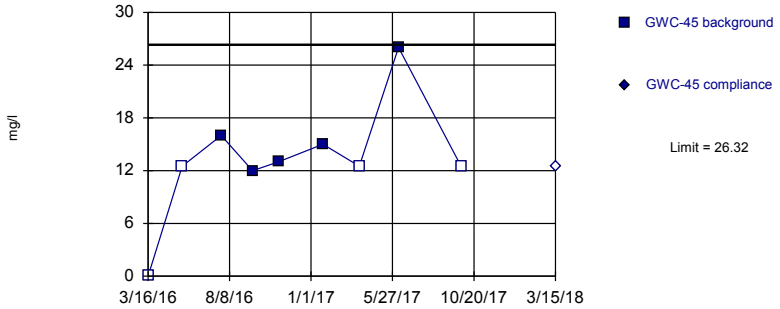
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (after Aitchison`s Adjustment): Mean=9.111, Std. Dev.=9.506, n=9, 44.44% NDs. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8353, critical = 0.764. Kappa = 1.811 (c=4, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.001462.

Constituent: Total Dissolved Solids Analysis Run 7/16/2018 1:46 PM View: cells9&10_AppIII_intrawell
Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

Prediction Limit

Constituent: Total Dissolved Solids Analysis Run 7/16/2018 1:49 PM View: cells9&10_AppIII_intrawell

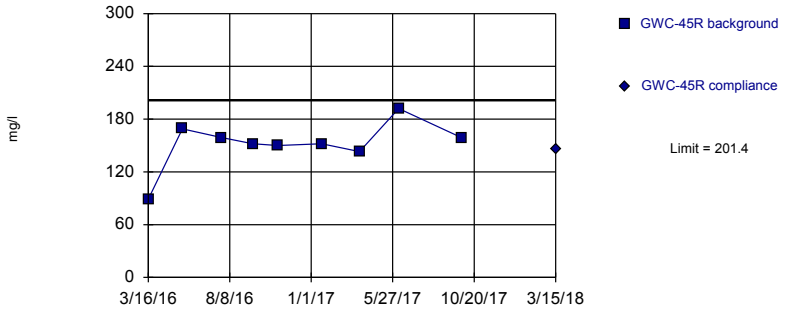
Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWA-43	GWA-43	GWA-43R	GWA-43R	GWC-44	GWC-44	GWC-45	GWC-45
3/11/2016	69		144					
3/16/2016					<0.01		<0.01	
5/13/2016	88		142					
5/16/2016					35		<25	
7/19/2016	56		135					
7/25/2016					24 (J)		16 (J)	
9/16/2016	31		144					
9/19/2016					19 (J)		12 (J)	
11/2/2016	48		152					
11/3/2016					34			
11/4/2016							13 (J)	
1/18/2017	44		125					
1/19/2017					13 (J)			
1/23/2017							15 (J)	
3/28/2017	<25		109		<25			
3/29/2017							<25	
6/5/2017					206			
6/6/2017	36		154					
6/7/2017							26	
7/20/2017					72			
9/22/2017	41		157					
9/26/2017					35			
9/27/2017							<25	
3/14/2018		<25						
3/15/2018				117		41		<25

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=151.7, Std. Dev.=27.48, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8469, critical = 0.764. Kappa = 1.811 (c=4, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.001462.

Constituent: Total Dissolved Solids Analysis Run 7/16/2018 1:46 PM View: cells9&10_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

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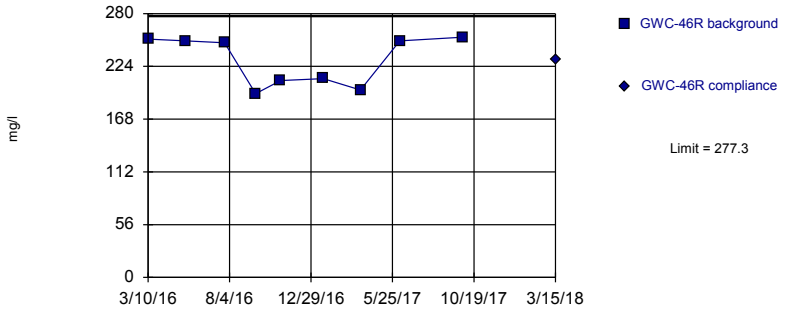
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=230.3, Std. Dev.=25.94, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7831, critical = 0.764. Kappa = 1.811 (c=4, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.001462.

Constituent: Total Dissolved Solids Analysis Run 7/16/2018 1:46 PM View: cells9&10_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

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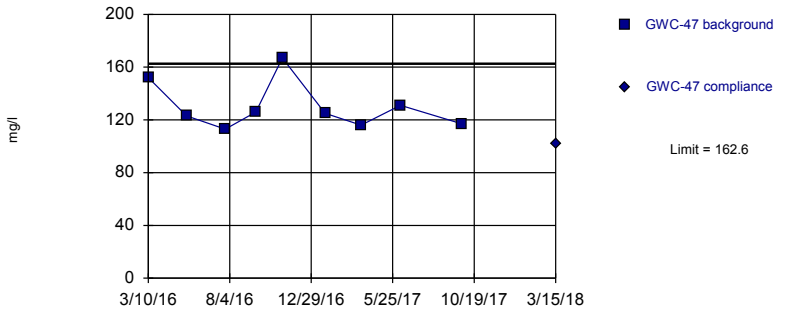
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=130, Std. Dev.=18.02, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8331, critical = 0.764. Kappa = 1.811 (c=4, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.001462.

Constituent: Total Dissolved Solids Analysis Run 7/16/2018 1:46 PM View: cells9&10_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

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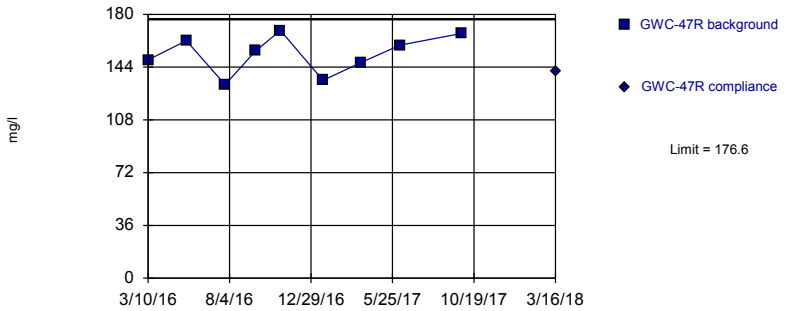
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=152.8, Std. Dev.=13.18, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9367, critical = 0.764. Kappa = 1.811 (c=4, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.001462.

Constituent: Total Dissolved Solids Analysis Run 7/16/2018 1:46 PM View: cells9&10_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

Prediction Limit

Constituent: Total Dissolved Solids Analysis Run 7/16/2018 1:49 PM View: cells9&10_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWC-45R	GWC-45R	GWC-46R	GWC-46R	GWC-47	GWC-47	GWC-47R	GWC-47R
3/10/2016			253		152		149	
3/16/2016	89							
5/16/2016	169							
5/17/2016			251					
5/18/2016					123		162	
7/25/2016	159							
7/26/2016			249					
7/27/2016					113		132	
9/19/2016	152							
9/20/2016			195		126		155	
11/3/2016	150							
11/4/2016			209				169	
11/7/2016					167			
1/20/2017	152		211				135	
1/23/2017					125			
3/28/2017			199					
3/29/2017	143				116		147	
6/7/2017	192		251					
6/8/2017					131		159	
9/27/2017	159				117		167	
9/29/2017			255					
3/15/2018		146		231		102		
3/16/2018								141

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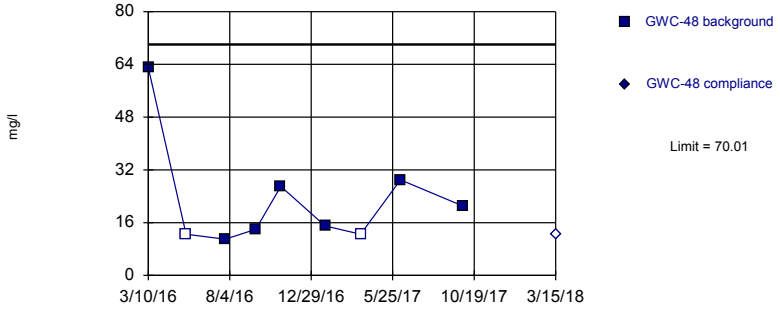
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square root transformation) (after Aitchison`s Adjustment): Mean=3.781, Std. Dev.=2.533, n=9, 22.22% NDs. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8045, critical = 0.764. Kappa = 1.811 (c=4, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.001462.

Constituent: Total Dissolved Solids Analysis Run 7/16/2018 1:46 PM View: cells9&10_AppIII_intrawell
Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

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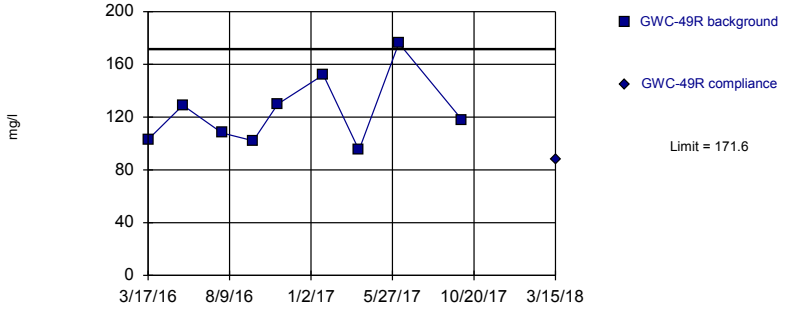
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=123.7, Std. Dev.=26.47, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9052, critical = 0.764. Kappa = 1.811 (c=4, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.001462.

Constituent: Total Dissolved Solids Analysis Run 7/16/2018 1:46 PM View: cells9&10_AppIII_intrawell
Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

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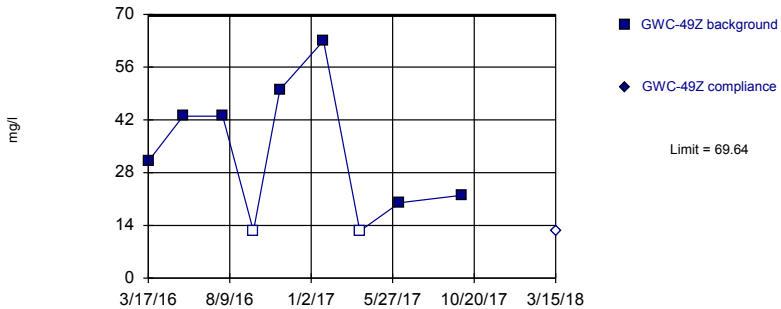
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (after Aitchison`s Adjustment): Mean=30.22, Std. Dev.=21.77, n=9, 22.22% NDs. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9296, critical = 0.764. Kappa = 1.811 (c=4, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.001462.

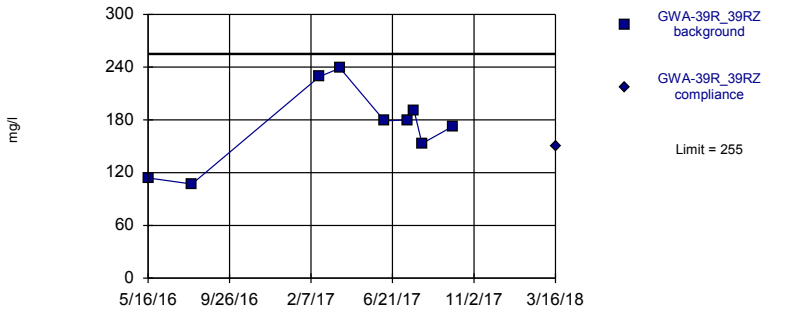
Constituent: Total Dissolved Solids Analysis Run 7/16/2018 1:46 PM View: cells9&10_AppIII_intrawell
Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

Sanitas™ v.9.5.32 Sanitas software licensed to AMEC. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=173.8, Std. Dev.=44.86, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9399, critical = 0.764. Kappa = 1.811 (c=4, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.001462.

Constituent: Total Dissolved Solids Analysis Run 7/16/2018 1:46 PM View: cells9&10_AppIII_intrawell
Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

Prediction Limit

Constituent: Total Dissolved Solids Analysis Run 7/16/2018 1:49 PM View: cells9&10_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWC-48	GWC-48	GWC-49R	GWC-49R	GWC-49Z	GWC-49Z	GWA-39R_39RZ	GWA-39R_39RZ
3/10/2016	63							
3/17/2016			103		31			
5/16/2016							114 (D)	
5/17/2016	<25							
5/18/2016			129		43			
7/27/2016	11 (J)		108				107 (D)	
7/28/2016					43			
9/20/2016	14 (J)							
9/21/2016			102		<25			
11/4/2016	27		130					
11/7/2016					50			
1/23/2017	15 (J)							
1/24/2017			152		63			
2/21/2017							229 (D)	
3/27/2017							239 (D)	
3/28/2017	<25							
3/29/2017			95					
3/30/2017					<25			
6/8/2017	29		176				179 (D)	
6/9/2017					20 (J)			
7/17/2017							180 (D)	
7/27/2017							190 (D)	
8/9/2017							153 (D)	
9/29/2017	21 (J)		118		22 (J)		173 (D)	
3/15/2018		<25		88		<25		
3/16/2018								150

Interwell Prediction Limit

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR Printed 12/7/2018, 9:38 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Barium (mg/L)	**GWC-6R**	**0.064**	**n/a**	**4/9/2013**	**0.24**	**Yes**	**186**	**1.075**	**ln(x)**	**0.000...**	Param 1 of 2
Barium (mg/L)	**GWC-13R_13RZ**	**0.064**	**n/a**	**9/20/2018**	**0.093**	**Yes**	**186**	**1.075**	**ln(x)**	**0.000...**	Param 1 of 2

Interwell Prediction Limit

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR Printed 12/7/2018, 9:38 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Antimony (mg/L)	GWC-10	0.021	n/a	9/18/2018	0.0015ND	No	191	74.87	n/a	0.000...	NP (NDs) 1 of 2
Antimony (mg/L)	GWC-10R	0.021	n/a	9/18/2018	0.0015ND	No	191	74.87	n/a	0.000...	NP (NDs) 1 of 2
Antimony (mg/L)	GWC-11	0.021	n/a	9/18/2018	0.0015ND	No	191	74.87	n/a	0.000...	NP (NDs) 1 of 2
Antimony (mg/L)	GWC-11R	0.021	n/a	9/18/2018	0.0015ND	No	191	74.87	n/a	0.000...	NP (NDs) 1 of 2
Antimony (mg/L)	GWC-12	0.021	n/a	9/18/2018	0.0015ND	No	191	74.87	n/a	0.000...	NP (NDs) 1 of 2
Antimony (mg/L)	GWC-13	0.021	n/a	9/19/2018	0.0015ND	No	191	74.87	n/a	0.000...	NP (NDs) 1 of 2
Antimony (mg/L)	GWC-14_14Z	0.021	n/a	9/19/2018	0.0015ND	No	191	74.87	n/a	0.000...	NP (NDs) 1 of 2
Antimony (mg/L)	GWC-15R	0.021	n/a	9/19/2018	0.0011	No	191	74.87	n/a	0.000...	NP (NDs) 1 of 2
Antimony (mg/L)	GWC-15_15Z	0.021	n/a	9/19/2018	0.0015ND	No	191	74.87	n/a	0.000...	NP (NDs) 1 of 2
Antimony (mg/L)	GWC-5	0.021	n/a	9/17/2018	0.0015ND	No	191	74.87	n/a	0.000...	NP (NDs) 1 of 2
Antimony (mg/L)	GWC-6	0.021	n/a	9/17/2018	0.0015ND	No	191	74.87	n/a	0.000...	NP (NDs) 1 of 2
Antimony (mg/L)	GWC-6R	0.021	n/a	4/9/2013	0.013	No	191	74.87	n/a	0.000...	NP (NDs) 1 of 2
Antimony (mg/L)	GWC-6RZ	0.021	n/a	9/17/2018	0.0023	No	191	74.87	n/a	0.000...	NP (NDs) 1 of 2
Antimony (mg/L)	GWC-7Z	0.021	n/a	9/18/2018	0.0015ND	No	191	74.87	n/a	0.000...	NP (NDs) 1 of 2
Antimony (mg/L)	GWC-8RR	0.021	n/a	9/18/2018	0.0015ND	No	191	74.87	n/a	0.000...	NP (NDs) 1 of 2
Antimony (mg/L)	GWC-8Z	0.021	n/a	9/18/2018	0.0015ND	No	191	74.87	n/a	0.000...	NP (NDs) 1 of 2
Antimony (mg/L)	GWC-9	0.021	n/a	9/18/2018	0.0015ND	No	191	74.87	n/a	0.000...	NP (NDs) 1 of 2
Antimony (mg/L)	GWC-13R_13RZ	0.021	n/a	9/20/2018	0.0013	No	191	74.87	n/a	0.000...	NP (NDs) 1 of 2
Arsenic (mg/L)	GWC-10	0.012	n/a	9/18/2018	0.0025ND	No	191	90.05	n/a	0.000...	NP (NDs) 1 of 2
Arsenic (mg/L)	GWC-10R	0.012	n/a	9/18/2018	0.0025ND	No	191	90.05	n/a	0.000...	NP (NDs) 1 of 2
Arsenic (mg/L)	GWC-11	0.012	n/a	9/18/2018	0.0025ND	No	191	90.05	n/a	0.000...	NP (NDs) 1 of 2
Arsenic (mg/L)	GWC-11R	0.012	n/a	9/18/2018	0.0025ND	No	191	90.05	n/a	0.000...	NP (NDs) 1 of 2
Arsenic (mg/L)	GWC-12	0.012	n/a	9/18/2018	0.0064	No	191	90.05	n/a	0.000...	NP (NDs) 1 of 2
Arsenic (mg/L)	GWC-13	0.012	n/a	9/19/2018	0.0025ND	No	191	90.05	n/a	0.000...	NP (NDs) 1 of 2
Arsenic (mg/L)	GWC-14_14Z	0.012	n/a	9/19/2018	0.0025ND	No	191	90.05	n/a	0.000...	NP (NDs) 1 of 2
Arsenic (mg/L)	GWC-15R	0.012	n/a	9/19/2018	0.0025ND	No	191	90.05	n/a	0.000...	NP (NDs) 1 of 2
Arsenic (mg/L)	GWC-15_15Z	0.012	n/a	9/19/2018	0.0025ND	No	191	90.05	n/a	0.000...	NP (NDs) 1 of 2
Arsenic (mg/L)	GWC-5	0.012	n/a	9/17/2018	0.0025ND	No	191	90.05	n/a	0.000...	NP (NDs) 1 of 2
Arsenic (mg/L)	GWC-6	0.012	n/a	9/17/2018	0.0025ND	No	191	90.05	n/a	0.000...	NP (NDs) 1 of 2
Arsenic (mg/L)	GWC-6R	0.012	n/a	4/9/2013	0.0025ND	No	191	90.05	n/a	0.000...	NP (NDs) 1 of 2
Arsenic (mg/L)	GWC-6RZ	0.012	n/a	9/17/2018	0.0025ND	No	191	90.05	n/a	0.000...	NP (NDs) 1 of 2
Arsenic (mg/L)	GWC-7Z	0.012	n/a	9/18/2018	0.0025ND	No	191	90.05	n/a	0.000...	NP (NDs) 1 of 2
Arsenic (mg/L)	GWC-8RR	0.012	n/a	9/18/2018	0.0025ND	No	191	90.05	n/a	0.000...	NP (NDs) 1 of 2
Arsenic (mg/L)	GWC-8Z	0.012	n/a	9/18/2018	0.0025ND	No	191	90.05	n/a	0.000...	NP (NDs) 1 of 2
Arsenic (mg/L)	GWC-9	0.012	n/a	9/18/2018	0.0025ND	No	191	90.05	n/a	0.000...	NP (NDs) 1 of 2
Arsenic (mg/L)	GWC-13R_13RZ	0.012	n/a	9/20/2018	0.0025ND	No	191	90.05	n/a	0.000...	NP (NDs) 1 of 2
Barium (mg/L)	GWC-10	0.064	n/a	9/18/2018	0.02	No	186	1.075	ln(x)	0.000...	Param 1 of 2
Barium (mg/L)	GWC-10R	0.064	n/a	9/18/2018	0.03	No	186	1.075	ln(x)	0.000...	Param 1 of 2
Barium (mg/L)	GWC-11	0.064	n/a	9/18/2018	0.011	No	186	1.075	ln(x)	0.000...	Param 1 of 2
Barium (mg/L)	GWC-11R	0.064	n/a	9/18/2018	0.017	No	186	1.075	ln(x)	0.000...	Param 1 of 2
Barium (mg/L)	GWC-12	0.064	n/a	9/18/2018	0.025	No	186	1.075	ln(x)	0.000...	Param 1 of 2
Barium (mg/L)	GWC-13	0.064	n/a	9/19/2018	0.034	No	186	1.075	ln(x)	0.000...	Param 1 of 2
Barium (mg/L)	GWC-14_14Z	0.064	n/a	9/19/2018	0.013	No	186	1.075	ln(x)	0.000...	Param 1 of 2
Barium (mg/L)	GWC-15R	0.064	n/a	9/19/2018	0.02	No	186	1.075	ln(x)	0.000...	Param 1 of 2
Barium (mg/L)	GWC-15_15Z	0.064	n/a	9/19/2018	0.015	No	186	1.075	ln(x)	0.000...	Param 1 of 2
Barium (mg/L)	GWC-5	0.064	n/a	9/17/2018	0.014	No	186	1.075	ln(x)	0.000...	Param 1 of 2
Barium (mg/L)	GWC-6	0.064	n/a	9/17/2018	0.0065	No	186	1.075	ln(x)	0.000...	Param 1 of 2
Barium (mg/L)	**GWC-6R**	**0.064**	**n/a**	**4/9/2013**	**0.24**	**Yes**	**186**	**1.075**	**ln(x)**	**0.000...**	Param 1 of 2
Barium (mg/L)	GWC-6RZ	0.064	n/a	9/17/2018	0.0082	No	186	1.075	ln(x)	0.000...	Param 1 of 2
Barium (mg/L)	GWC-7Z	0.064	n/a	9/18/2018	0.027	No	186	1.075	ln(x)	0.000...	Param 1 of 2

Interwell Prediction Limit

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR Printed 12/7/2018, 9:38 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Barium (mg/L)	GWC-8RR	0.064	n/a	9/18/2018	0.014	No	186	1.075	ln(x)	0.000...	Param 1 of 2
Barium (mg/L)	GWC-8Z	0.064	n/a	9/18/2018	0.025	No	186	1.075	ln(x)	0.000...	Param 1 of 2
Barium (mg/L)	GWC-9	0.064	n/a	9/18/2018	0.037	No	186	1.075	ln(x)	0.000...	Param 1 of 2
Barium (mg/L)	**GWC-13R_13RZ**	**0.064**	**n/a**	**9/20/2018**	**0.093**	**Yes**	**186**	**1.075**	**ln(x)**	**0.000...**	Param 1 of 2
Beryllium (mg/L)	GWC-10	0.0015	n/a	9/18/2018	0.000054	No	95	97.89	n/a	0.000...	NP (NDs) 1 of 2
Beryllium (mg/L)	GWC-10R	0.0015	n/a	9/18/2018	0.0015ND	No	95	97.89	n/a	0.000...	NP (NDs) 1 of 2
Beryllium (mg/L)	GWC-11	0.0015	n/a	9/18/2018	0.0015ND	No	95	97.89	n/a	0.000...	NP (NDs) 1 of 2
Beryllium (mg/L)	GWC-8Z	0.0015	n/a	9/18/2018	0.0015ND	No	95	97.89	n/a	0.000...	NP (NDs) 1 of 2
Beryllium (mg/L)	GWC-9	0.0015	n/a	9/18/2018	0.00014	No	95	97.89	n/a	0.000...	NP (NDs) 1 of 2
Beryllium (mg/L)	GWC-13R_13RZ	0.0015	n/a	9/20/2018	0.0015ND	No	95	97.89	n/a	0.000...	NP (NDs) 1 of 2
Cadmium (mg/L)	GWC-10	0.00065	n/a	9/18/2018	0.0005ND	No	191	98.43	n/a	0.000...	NP (NDs) 1 of 2
Cadmium (mg/L)	GWC-10R	0.00065	n/a	9/18/2018	0.0005ND	No	191	98.43	n/a	0.000...	NP (NDs) 1 of 2
Cadmium (mg/L)	GWC-11	0.00065	n/a	9/18/2018	0.0005ND	No	191	98.43	n/a	0.000...	NP (NDs) 1 of 2
Cadmium (mg/L)	GWC-11R	0.00065	n/a	9/18/2018	0.0005ND	No	191	98.43	n/a	0.000...	NP (NDs) 1 of 2
Cadmium (mg/L)	GWC-12	0.00065	n/a	9/18/2018	0.00057	No	191	98.43	n/a	0.000...	NP (NDs) 1 of 2
Cadmium (mg/L)	GWC-13	0.00065	n/a	9/19/2018	0.0005ND	No	191	98.43	n/a	0.000...	NP (NDs) 1 of 2
Cadmium (mg/L)	GWC-14_14Z	0.00065	n/a	9/19/2018	0.0005ND	No	191	98.43	n/a	0.000...	NP (NDs) 1 of 2
Cadmium (mg/L)	GWC-15R	0.00065	n/a	9/19/2018	0.0005ND	No	191	98.43	n/a	0.000...	NP (NDs) 1 of 2
Cadmium (mg/L)	GWC-15_15Z	0.00065	n/a	9/19/2018	0.0005ND	No	191	98.43	n/a	0.000...	NP (NDs) 1 of 2
Cadmium (mg/L)	GWC-5	0.00065	n/a	9/17/2018	0.0005ND	No	191	98.43	n/a	0.000...	NP (NDs) 1 of 2
Cadmium (mg/L)	GWC-6	0.00065	n/a	9/17/2018	0.0005ND	No	191	98.43	n/a	0.000...	NP (NDs) 1 of 2
Cadmium (mg/L)	GWC-6R	0.00065	n/a	4/9/2013	0.00065ND	No	191	98.43	n/a	0.000...	NP (NDs) 1 of 2
Cadmium (mg/L)	GWC-6RZ	0.00065	n/a	9/17/2018	0.0005ND	No	191	98.43	n/a	0.000...	NP (NDs) 1 of 2
Chromium (mg/L)	GWC-6R	0.17	n/a	4/9/2013	0.0063	No	190	74.21	n/a	0.000...	NP (NDs) 1 of 2
Chromium (mg/L)	GWC-6RZ	0.17	n/a	9/17/2018	0.002	No	190	74.21	n/a	0.000...	NP (NDs) 1 of 2
Chromium (mg/L)	GWC-7Z	0.17	n/a	9/18/2018	0.005ND	No	190	74.21	n/a	0.000...	NP (NDs) 1 of 2
Chromium (mg/L)	GWC-8RR	0.17	n/a	9/18/2018	0.005ND	No	190	74.21	n/a	0.000...	NP (NDs) 1 of 2
Chromium (mg/L)	GWC-8Z	0.17	n/a	9/18/2018	0.005ND	No	190	74.21	n/a	0.000...	NP (NDs) 1 of 2
Chromium (mg/L)	GWC-9	0.17	n/a	9/18/2018	0.005ND	No	190	74.21	n/a	0.000...	NP (NDs) 1 of 2
Chromium (mg/L)	GWC-13R_13RZ	0.17	n/a	9/20/2018	0.005ND	No	190	74.21	n/a	0.000...	NP (NDs) 1 of 2
Cobalt (mg/L)	GWC-10	0.017	n/a	9/18/2018	0.005ND	No	190	77.37	n/a	0.000...	NP (NDs) 1 of 2
Cobalt (mg/L)	GWC-10R	0.017	n/a	9/18/2018	0.005ND	No	190	77.37	n/a	0.000...	NP (NDs) 1 of 2
Cobalt (mg/L)	GWC-11	0.017	n/a	9/18/2018	0.005ND	No	190	77.37	n/a	0.000...	NP (NDs) 1 of 2
Cobalt (mg/L)	GWC-11R	0.017	n/a	9/18/2018	0.005ND	No	190	77.37	n/a	0.000...	NP (NDs) 1 of 2
Cobalt (mg/L)	GWC-12	0.017	n/a	9/18/2018	0.0031	No	190	77.37	n/a	0.000...	NP (NDs) 1 of 2
Cobalt (mg/L)	GWC-13	0.017	n/a	9/19/2018	0.005ND	No	190	77.37	n/a	0.000...	NP (NDs) 1 of 2
Cobalt (mg/L)	GWC-14_14Z	0.017	n/a	9/19/2018	0.00058	No	190	77.37	n/a	0.000...	NP (NDs) 1 of 2
Cobalt (mg/L)	GWC-15R	0.017	n/a	9/19/2018	0.005ND	No	190	77.37	n/a	0.000...	NP (NDs) 1 of 2
Cobalt (mg/L)	GWC-15_15Z	0.017	n/a	9/19/2018	0.005ND	No	190	77.37	n/a	0.000...	NP (NDs) 1 of 2
Copper (mg/L)	GWC-15R	0.051	n/a	9/19/2018	0.0125ND	No	152	39.47	n/a	0.000...	NP (normality) 1 of 2
Copper (mg/L)	GWC-15_15Z	0.051	n/a	9/19/2018	0.0125ND	No	152	39.47	n/a	0.000...	NP (normality) 1 of 2
Copper (mg/L)	GWC-5	0.051	n/a	9/17/2018	0.018	No	152	39.47	n/a	0.000...	NP (normality) 1 of 2
Copper (mg/L)	GWC-6	0.051	n/a	9/17/2018	0.0125ND	No	152	39.47	n/a	0.000...	NP (normality) 1 of 2
Copper (mg/L)	GWC-6R	0.051	n/a	4/9/2013	0.0051	No	152	39.47	n/a	0.000...	NP (normality) 1 of 2
Copper (mg/L)	GWC-6RZ	0.051	n/a	9/17/2018	0.0125ND	No	152	39.47	n/a	0.000...	NP (normality) 1 of 2
Copper (mg/L)	GWC-7Z	0.051	n/a	9/18/2018	0.0125ND	No	152	39.47	n/a	0.000...	NP (normality) 1 of 2
Copper (mg/L)	GWC-8RR	0.051	n/a	9/18/2018	0.0125ND	No	152	39.47	n/a	0.000...	NP (normality) 1 of 2
Copper (mg/L)	GWC-8Z	0.051	n/a	9/18/2018	0.0125ND	No	152	39.47	n/a	0.000...	NP (normality) 1 of 2
Copper (mg/L)	GWC-9	0.051	n/a	9/18/2018	0.0125ND	No	152	39.47	n/a	0.000...	NP (normality) 1 of 2
Copper (mg/L)	GWC-13R_13RZ	0.051	n/a	9/20/2018	0.0125ND	No	152	39.47	n/a	0.000...	NP (normality) 1 of 2

Interwell Prediction Limit

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR Printed 12/7/2018, 9:38 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Lead (mg/L)	GWC-10	0.0065	n/a	9/18/2018	0.0025ND	No	191	94.24	n/a	0.000...	NP (NDs) 1 of 2
Lead (mg/L)	GWC-10R	0.0065	n/a	9/18/2018	0.0025ND	No	191	94.24	n/a	0.000...	NP (NDs) 1 of 2
Lead (mg/L)	GWC-11	0.0065	n/a	9/18/2018	0.0025ND	No	191	94.24	n/a	0.000...	NP (NDs) 1 of 2
Lead (mg/L)	GWC-11R	0.0065	n/a	9/18/2018	0.0025ND	No	191	94.24	n/a	0.000...	NP (NDs) 1 of 2
Lead (mg/L)	GWC-12	0.0065	n/a	9/18/2018	0.0025ND	No	191	94.24	n/a	0.000...	NP (NDs) 1 of 2
Mercury (mg/L)	GWC-11R	0.00030	n/a	9/18/2018	0.00025ND	No	191	98.95	n/a	0.000...	NP (NDs) 1 of 2
Mercury (mg/L)	GWC-12	0.00030	n/a	9/18/2018	0.00025ND	No	191	98.95	n/a	0.000...	NP (NDs) 1 of 2
Mercury (mg/L)	GWC-13	0.00030	n/a	9/19/2018	0.00025ND	No	191	98.95	n/a	0.000...	NP (NDs) 1 of 2
Mercury (mg/L)	GWC-14_14Z	0.00030	n/a	9/19/2018	0.00025ND	No	191	98.95	n/a	0.000...	NP (NDs) 1 of 2
Mercury (mg/L)	GWC-15R	0.00030	n/a	9/19/2018	0.00025ND	No	191	98.95	n/a	0.000...	NP (NDs) 1 of 2
Mercury (mg/L)	GWC-15_15Z	0.00030	n/a	9/19/2018	0.00025ND	No	191	98.95	n/a	0.000...	NP (NDs) 1 of 2
Mercury (mg/L)	GWC-5	0.00030	n/a	9/17/2018	0.00025ND	No	191	98.95	n/a	0.000...	NP (NDs) 1 of 2
Mercury (mg/L)	GWC-6	0.00030	n/a	9/17/2018	0.00025ND	No	191	98.95	n/a	0.000...	NP (NDs) 1 of 2
Mercury (mg/L)	GWC-6R	0.00030	n/a	4/9/2013	0.00005ND	No	191	98.95	n/a	0.000...	NP (NDs) 1 of 2
Mercury (mg/L)	GWC-6RZ	0.00030	n/a	9/17/2018	0.00025ND	No	191	98.95	n/a	0.000...	NP (NDs) 1 of 2
Mercury (mg/L)	GWC-7Z	0.00030	n/a	9/18/2018	0.00025ND	No	191	98.95	n/a	0.000...	NP (NDs) 1 of 2
Mercury (mg/L)	GWC-8RR	0.00030	n/a	9/18/2018	0.00025ND	No	191	98.95	n/a	0.000...	NP (NDs) 1 of 2
Mercury (mg/L)	GWC-8Z	0.00030	n/a	9/18/2018	0.00025ND	No	191	98.95	n/a	0.000...	NP (NDs) 1 of 2
Mercury (mg/L)	GWC-9	0.00030	n/a	9/18/2018	0.00025ND	No	191	98.95	n/a	0.000...	NP (NDs) 1 of 2
Mercury (mg/L)	GWC-13R_13RZ	0.00030	n/a	9/20/2018	0.00025ND	No	191	98.95	n/a	0.000...	NP (NDs) 1 of 2
Nickel (mg/L)	GWC-10	0.14	n/a	9/18/2018	0.005ND	No	154	47.4	n/a	0.000...	NP (normality) 1 of 2
Nickel (mg/L)	GWC-13R_13RZ	0.14	n/a	9/20/2018	0.005ND	No	154	47.4	n/a	0.000...	NP (normality) 1 of 2
Selenium (mg/L)	GWC-10	0.0065	n/a	9/18/2018	0.005ND	No	191	98.43	n/a	0.000...	NP (NDs) 1 of 2
Selenium (mg/L)	GWC-10R	0.0065	n/a	9/18/2018	0.005ND	No	191	98.43	n/a	0.000...	NP (NDs) 1 of 2
Selenium (mg/L)	GWC-11	0.0065	n/a	9/18/2018	0.005ND	No	191	98.43	n/a	0.000...	NP (NDs) 1 of 2
Selenium (mg/L)	GWC-11R	0.0065	n/a	9/18/2018	0.005ND	No	191	98.43	n/a	0.000...	NP (NDs) 1 of 2
Selenium (mg/L)	GWC-12	0.0065	n/a	9/18/2018	0.005ND	No	191	98.43	n/a	0.000...	NP (NDs) 1 of 2
Selenium (mg/L)	GWC-13	0.0065	n/a	9/19/2018	0.0019	No	191	98.43	n/a	0.000...	NP (NDs) 1 of 2
Selenium (mg/L)	GWC-14_14Z	0.0065	n/a	9/19/2018	0.005ND	No	191	98.43	n/a	0.000...	NP (NDs) 1 of 2
Selenium (mg/L)	GWC-15R	0.0065	n/a	9/19/2018	0.005ND	No	191	98.43	n/a	0.000...	NP (NDs) 1 of 2
Selenium (mg/L)	GWC-15_15Z	0.0065	n/a	9/19/2018	0.005ND	No	191	98.43	n/a	0.000...	NP (NDs) 1 of 2
Selenium (mg/L)	GWC-5	0.0065	n/a	9/17/2018	0.005ND	No	191	98.43	n/a	0.000...	NP (NDs) 1 of 2
Selenium (mg/L)	GWC-6	0.0065	n/a	9/17/2018	0.005ND	No	191	98.43	n/a	0.000...	NP (NDs) 1 of 2
Selenium (mg/L)	GWC-6R	0.0065	n/a	4/9/2013	0.0025ND	No	191	98.43	n/a	0.000...	NP (NDs) 1 of 2
Selenium (mg/L)	GWC-6RZ	0.0065	n/a	9/17/2018	0.005ND	No	191	98.43	n/a	0.000...	NP (NDs) 1 of 2
Selenium (mg/L)	GWC-7Z	0.0065	n/a	9/18/2018	0.005ND	No	191	98.43	n/a	0.000...	NP (NDs) 1 of 2
Selenium (mg/L)	GWC-8RR	0.0065	n/a	9/18/2018	0.005ND	No	191	98.43	n/a	0.000...	NP (NDs) 1 of 2
Silver (mg/L)	GWC-7Z	0.0050	n/a	9/18/2018	0.005ND	No	154	88.96	n/a	0.000...	NP (NDs) 1 of 2
Silver (mg/L)	GWC-8RR	0.0050	n/a	9/18/2018	0.005ND	No	154	88.96	n/a	0.000...	NP (NDs) 1 of 2
Silver (mg/L)	GWC-8Z	0.0050	n/a	9/18/2018	0.005ND	No	154	88.96	n/a	0.000...	NP (NDs) 1 of 2
Silver (mg/L)	GWC-9	0.0050	n/a	9/18/2018	0.005ND	No	154	88.96	n/a	0.000...	NP (NDs) 1 of 2
Silver (mg/L)	GWC-13R_13RZ	0.0050	n/a	9/20/2018	0.005ND	No	154	88.96	n/a	0.000...	NP (NDs) 1 of 2
Thallium (mg/L)	GWC-10	0.00050	n/a	9/18/2018	0.0005ND	No	84	98.81	n/a	0.000...	NP (NDs) 1 of 2
Thallium (mg/L)	GWC-10R	0.00050	n/a	9/18/2018	0.0005ND	No	84	98.81	n/a	0.000...	NP (NDs) 1 of 2
Thallium (mg/L)	GWC-11	0.00050	n/a	9/18/2018	0.0005ND	No	84	98.81	n/a	0.000...	NP (NDs) 1 of 2
Thallium (mg/L)	GWC-11R	0.00050	n/a	9/18/2018	0.0005ND	No	84	98.81	n/a	0.000...	NP (NDs) 1 of 2
Thallium (mg/L)	GWC-12	0.00050	n/a	9/18/2018	0.0005ND	No	84	98.81	n/a	0.000...	NP (NDs) 1 of 2
Thallium (mg/L)	GWC-13	0.00050	n/a	9/19/2018	0.0005ND	No	84	98.81	n/a	0.000...	NP (NDs) 1 of 2
Thallium (mg/L)	GWC-14_14Z	0.00050	n/a	9/19/2018	0.0005ND	No	84	98.81	n/a	0.000...	NP (NDs) 1 of 2
Thallium (mg/L)	GWC-15R	0.00050	n/a	9/19/2018	0.0005ND	No	84	98.81	n/a	0.000...	NP (NDs) 1 of 2

Interwell Prediction Limit

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR Printed 12/7/2018, 9:38 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Thallium (mg/L)	GWC-15_15Z	0.00050	n/a	9/19/2018	0.0005ND	No	84	98.81	n/a	0.000...	NP (NDs) 1 of 2
Thallium (mg/L)	GWC-5	0.00050	n/a	9/17/2018	0.0005ND	No	84	98.81	n/a	0.000...	NP (NDs) 1 of 2
Thallium (mg/L)	GWC-6	0.00050	n/a	9/17/2018	0.0005ND	No	84	98.81	n/a	0.000...	NP (NDs) 1 of 2
Vanadium (mg/L)	GWC-6	0.016	n/a	9/17/2018	0.005ND	No	154	86.36	n/a	0.000...	NP (NDs) 1 of 2
Vanadium (mg/L)	GWC-6R	0.016	n/a	4/9/2013	0.0025ND	No	154	86.36	n/a	0.000...	NP (NDs) 1 of 2
Vanadium (mg/L)	GWC-6RZ	0.016	n/a	9/17/2018	0.005ND	No	154	86.36	n/a	0.000...	NP (NDs) 1 of 2
Vanadium (mg/L)	GWC-7Z	0.016	n/a	9/18/2018	0.005ND	No	154	86.36	n/a	0.000...	NP (NDs) 1 of 2
Vanadium (mg/L)	GWC-8RR	0.016	n/a	9/18/2018	0.005ND	No	154	86.36	n/a	0.000...	NP (NDs) 1 of 2
Vanadium (mg/L)	GWC-8Z	0.016	n/a	9/18/2018	0.005ND	No	154	86.36	n/a	0.000...	NP (NDs) 1 of 2
Vanadium (mg/L)	GWC-9	0.016	n/a	9/18/2018	0.005ND	No	154	86.36	n/a	0.000...	NP (NDs) 1 of 2
Vanadium (mg/L)	GWC-13R_13RZ	0.016	n/a	9/20/2018	0.005ND	No	154	86.36	n/a	0.000...	NP (NDs) 1 of 2
Zinc (mg/L)	GWC-10	0.13	n/a	9/18/2018	0.005ND	No	153	29.41	n/a	0.000...	NP (normality) 1 of 2
Zinc (mg/L)	GWC-10R	0.13	n/a	9/18/2018	0.005ND	No	153	29.41	n/a	0.000...	NP (normality) 1 of 2
Zinc (mg/L)	GWC-11	0.13	n/a	9/18/2018	0.005ND	No	153	29.41	n/a	0.000...	NP (normality) 1 of 2
Zinc (mg/L)	GWC-11R	0.13	n/a	9/18/2018	0.005ND	No	153	29.41	n/a	0.000...	NP (normality) 1 of 2
Zinc (mg/L)	GWC-12	0.13	n/a	9/18/2018	0.013	No	153	29.41	n/a	0.000...	NP (normality) 1 of 2
Zinc (mg/L)	GWC-13	0.13	n/a	9/19/2018	0.005ND	No	153	29.41	n/a	0.000...	NP (normality) 1 of 2
Zinc (mg/L)	GWC-14_14Z	0.13	n/a	9/19/2018	0.005ND	No	153	29.41	n/a	0.000...	NP (normality) 1 of 2
Zinc (mg/L)	GWC-15R	0.13	n/a	9/19/2018	0.005ND	No	153	29.41	n/a	0.000...	NP (normality) 1 of 2
Beryllium (mg/L)	GWC-11R	0.0015	n/a	9/18/2018	0.0015ND	No	95	97.89	n/a	0.000...	NP (NDs) 1 of 2
Beryllium (mg/L)	GWC-12	0.0015	n/a	9/18/2018	0.0015ND	No	95	97.89	n/a	0.000...	NP (NDs) 1 of 2
Beryllium (mg/L)	GWC-13	0.0015	n/a	9/19/2018	0.00007	No	95	97.89	n/a	0.000...	NP (NDs) 1 of 2
Beryllium (mg/L)	GWC-14_14Z	0.0015	n/a	9/19/2018	0.00014	No	95	97.89	n/a	0.000...	NP (NDs) 1 of 2
Beryllium (mg/L)	GWC-15R	0.0015	n/a	9/19/2018	0.0015ND	No	95	97.89	n/a	0.000...	NP (NDs) 1 of 2
Beryllium (mg/L)	GWC-15_15Z	0.0015	n/a	9/19/2018	0.0015ND	No	95	97.89	n/a	0.000...	NP (NDs) 1 of 2
Beryllium (mg/L)	GWC-5	0.0015	n/a	9/17/2018	0.00053	No	95	97.89	n/a	0.000...	NP (NDs) 1 of 2
Beryllium (mg/L)	GWC-6	0.0015	n/a	9/17/2018	0.0015ND	No	95	97.89	n/a	0.000...	NP (NDs) 1 of 2
Beryllium (mg/L)	GWC-6RZ	0.0015	n/a	9/17/2018	0.000058	No	95	97.89	n/a	0.000...	NP (NDs) 1 of 2
Beryllium (mg/L)	GWC-7Z	0.0015	n/a	9/18/2018	0.0015ND	No	95	97.89	n/a	0.000...	NP (NDs) 1 of 2
Beryllium (mg/L)	GWC-8RR	0.0015	n/a	9/18/2018	0.0015ND	No	95	97.89	n/a	0.000...	NP (NDs) 1 of 2
Cadmium (mg/L)	GWC-7Z	0.00065	n/a	9/18/2018	0.0005ND	No	191	98.43	n/a	0.000...	NP (NDs) 1 of 2
Cadmium (mg/L)	GWC-8RR	0.00065	n/a	9/18/2018	0.0005ND	No	191	98.43	n/a	0.000...	NP (NDs) 1 of 2
Cadmium (mg/L)	GWC-8Z	0.00065	n/a	9/18/2018	0.0005ND	No	191	98.43	n/a	0.000...	NP (NDs) 1 of 2
Cadmium (mg/L)	GWC-9	0.00065	n/a	9/18/2018	0.0005ND	No	191	98.43	n/a	0.000...	NP (NDs) 1 of 2
Cadmium (mg/L)	GWC-13R_13RZ	0.00065	n/a	9/20/2018	0.0005ND	No	191	98.43	n/a	0.000...	NP (NDs) 1 of 2
Chromium (mg/L)	GWC-10	0.17	n/a	9/18/2018	0.005ND	No	190	74.21	n/a	0.000...	NP (NDs) 1 of 2
Chromium (mg/L)	GWC-10R	0.17	n/a	9/18/2018	0.005ND	No	190	74.21	n/a	0.000...	NP (NDs) 1 of 2
Chromium (mg/L)	GWC-11	0.17	n/a	9/18/2018	0.0081	No	190	74.21	n/a	0.000...	NP (NDs) 1 of 2
Chromium (mg/L)	GWC-11R	0.17	n/a	9/18/2018	0.0062	No	190	74.21	n/a	0.000...	NP (NDs) 1 of 2
Chromium (mg/L)	GWC-12	0.17	n/a	9/18/2018	0.005ND	No	190	74.21	n/a	0.000...	NP (NDs) 1 of 2
Chromium (mg/L)	GWC-13	0.17	n/a	9/19/2018	0.0059	No	190	74.21	n/a	0.000...	NP (NDs) 1 of 2
Chromium (mg/L)	GWC-14_14Z	0.17	n/a	9/19/2018	0.005ND	No	190	74.21	n/a	0.000...	NP (NDs) 1 of 2
Chromium (mg/L)	GWC-15R	0.17	n/a	9/19/2018	0.005ND	No	190	74.21	n/a	0.000...	NP (NDs) 1 of 2
Chromium (mg/L)	GWC-15_15Z	0.17	n/a	9/19/2018	0.005ND	No	190	74.21	n/a	0.000...	NP (NDs) 1 of 2
Chromium (mg/L)	GWC-5	0.17	n/a	9/17/2018	0.005ND	No	190	74.21	n/a	0.000...	NP (NDs) 1 of 2
Chromium (mg/L)	GWC-6	0.17	n/a	9/17/2018	0.0024	No	190	74.21	n/a	0.000...	NP (NDs) 1 of 2
Cobalt (mg/L)	GWC-5	0.017	n/a	9/17/2018	0.005ND	No	190	77.37	n/a	0.000...	NP (NDs) 1 of 2
Cobalt (mg/L)	GWC-6	0.017	n/a	9/17/2018	0.005ND	No	190	77.37	n/a	0.000...	NP (NDs) 1 of 2
Cobalt (mg/L)	GWC-6R	0.017	n/a	4/9/2013	0.00065ND	No	190	77.37	n/a	0.000...	NP (NDs) 1 of 2
Cobalt (mg/L)	GWC-6RZ	0.017	n/a	9/17/2018	0.005ND	No	190	77.37	n/a	0.000...	NP (NDs) 1 of 2

Interwell Prediction Limit

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR Printed 12/7/2018, 9:38 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Cobalt (mg/L)	GWC-7Z	0.017	n/a	9/18/2018	0.00055	No	190	77.37	n/a	0.000...	NP (NDs) 1 of 2
Cobalt (mg/L)	GWC-8RR	0.017	n/a	9/18/2018	0.005ND	No	190	77.37	n/a	0.000...	NP (NDs) 1 of 2
Cobalt (mg/L)	GWC-8Z	0.017	n/a	9/18/2018	0.005ND	No	190	77.37	n/a	0.000...	NP (NDs) 1 of 2
Cobalt (mg/L)	GWC-9	0.017	n/a	9/18/2018	0.005ND	No	190	77.37	n/a	0.000...	NP (NDs) 1 of 2
Cobalt (mg/L)	GWC-13R_13RZ	0.017	n/a	9/20/2018	0.005ND	No	190	77.37	n/a	0.000...	NP (NDs) 1 of 2
Copper (mg/L)	GWC-10	0.051	n/a	9/18/2018	0.0125ND	No	152	39.47	n/a	0.000...	NP (normality) 1 of 2
Copper (mg/L)	GWC-10R	0.051	n/a	9/18/2018	0.0125ND	No	152	39.47	n/a	0.000...	NP (normality) 1 of 2
Copper (mg/L)	GWC-11	0.051	n/a	9/18/2018	0.0125ND	No	152	39.47	n/a	0.000...	NP (normality) 1 of 2
Copper (mg/L)	GWC-11R	0.051	n/a	9/18/2018	0.0125ND	No	152	39.47	n/a	0.000...	NP (normality) 1 of 2
Copper (mg/L)	GWC-12	0.051	n/a	9/18/2018	0.0125ND	No	152	39.47	n/a	0.000...	NP (normality) 1 of 2
Copper (mg/L)	GWC-13	0.051	n/a	9/19/2018	0.0125ND	No	152	39.47	n/a	0.000...	NP (normality) 1 of 2
Copper (mg/L)	GWC-14_14Z	0.051	n/a	9/19/2018	0.0125ND	No	152	39.47	n/a	0.000...	NP (normality) 1 of 2
Lead (mg/L)	GWC-13	0.0065	n/a	9/19/2018	0.0025ND	No	191	94.24	n/a	0.000...	NP (NDs) 1 of 2
Lead (mg/L)	GWC-14_14Z	0.0065	n/a	9/19/2018	0.0025ND	No	191	94.24	n/a	0.000...	NP (NDs) 1 of 2
Lead (mg/L)	GWC-15R	0.0065	n/a	9/19/2018	0.00029	No	191	94.24	n/a	0.000...	NP (NDs) 1 of 2
Lead (mg/L)	GWC-15_15Z	0.0065	n/a	9/19/2018	0.0025ND	No	191	94.24	n/a	0.000...	NP (NDs) 1 of 2
Lead (mg/L)	GWC-5	0.0065	n/a	9/17/2018	0.0025ND	No	191	94.24	n/a	0.000...	NP (NDs) 1 of 2
Lead (mg/L)	GWC-6	0.0065	n/a	9/17/2018	0.0025ND	No	191	94.24	n/a	0.000...	NP (NDs) 1 of 2
Lead (mg/L)	GWC-6R	0.0065	n/a	4/9/2013	0.0065ND	No	191	94.24	n/a	0.000...	NP (NDs) 1 of 2
Lead (mg/L)	GWC-6RZ	0.0065	n/a	9/17/2018	0.0025ND	No	191	94.24	n/a	0.000...	NP (NDs) 1 of 2
Lead (mg/L)	GWC-7Z	0.0065	n/a	9/18/2018	0.0025ND	No	191	94.24	n/a	0.000...	NP (NDs) 1 of 2
Lead (mg/L)	GWC-8RR	0.0065	n/a	9/18/2018	0.0025ND	No	191	94.24	n/a	0.000...	NP (NDs) 1 of 2
Lead (mg/L)	GWC-8Z	0.0065	n/a	9/18/2018	0.0025ND	No	191	94.24	n/a	0.000...	NP (NDs) 1 of 2
Lead (mg/L)	GWC-9	0.0065	n/a	9/18/2018	0.0025ND	No	191	94.24	n/a	0.000...	NP (NDs) 1 of 2
Lead (mg/L)	GWC-13R_13RZ	0.0065	n/a	9/20/2018	0.0025ND	No	191	94.24	n/a	0.000...	NP (NDs) 1 of 2
Mercury (mg/L)	GWC-10	0.00030	n/a	9/18/2018	0.00025ND	No	191	98.95	n/a	0.000...	NP (NDs) 1 of 2
Mercury (mg/L)	GWC-10R	0.00030	n/a	9/18/2018	0.00025ND	No	191	98.95	n/a	0.000...	NP (NDs) 1 of 2
Mercury (mg/L)	GWC-11	0.00030	n/a	9/18/2018	0.00025ND	No	191	98.95	n/a	0.000...	NP (NDs) 1 of 2
Nickel (mg/L)	GWC-10R	0.14	n/a	9/18/2018	0.005ND	No	154	47.4	n/a	0.000...	NP (normality) 1 of 2
Nickel (mg/L)	GWC-11	0.14	n/a	9/18/2018	0.005ND	No	154	47.4	n/a	0.000...	NP (normality) 1 of 2
Nickel (mg/L)	GWC-11R	0.14	n/a	9/18/2018	0.005ND	No	154	47.4	n/a	0.000...	NP (normality) 1 of 2
Nickel (mg/L)	GWC-12	0.14	n/a	9/18/2018	0.0024	No	154	47.4	n/a	0.000...	NP (normality) 1 of 2
Nickel (mg/L)	GWC-13	0.14	n/a	9/19/2018	0.005ND	No	154	47.4	n/a	0.000...	NP (normality) 1 of 2
Nickel (mg/L)	GWC-14_14Z	0.14	n/a	9/19/2018	0.00096	No	154	47.4	n/a	0.000...	NP (normality) 1 of 2
Nickel (mg/L)	GWC-15R	0.14	n/a	9/19/2018	0.005ND	No	154	47.4	n/a	0.000...	NP (normality) 1 of 2
Nickel (mg/L)	GWC-15_15Z	0.14	n/a	9/19/2018	0.005ND	No	154	47.4	n/a	0.000...	NP (normality) 1 of 2
Nickel (mg/L)	GWC-5	0.14	n/a	9/17/2018	0.0085	No	154	47.4	n/a	0.000...	NP (normality) 1 of 2
Nickel (mg/L)	GWC-6	0.14	n/a	9/17/2018	0.005ND	No	154	47.4	n/a	0.000...	NP (normality) 1 of 2
Nickel (mg/L)	GWC-6R	0.14	n/a	4/9/2013	0.0048	No	154	47.4	n/a	0.000...	NP (normality) 1 of 2
Nickel (mg/L)	GWC-6RZ	0.14	n/a	9/17/2018	0.005ND	No	154	47.4	n/a	0.000...	NP (normality) 1 of 2
Nickel (mg/L)	GWC-7Z	0.14	n/a	9/18/2018	0.005ND	No	154	47.4	n/a	0.000...	NP (normality) 1 of 2
Nickel (mg/L)	GWC-8RR	0.14	n/a	9/18/2018	0.005ND	No	154	47.4	n/a	0.000...	NP (normality) 1 of 2
Nickel (mg/L)	GWC-8Z	0.14	n/a	9/18/2018	0.005ND	No	154	47.4	n/a	0.000...	NP (normality) 1 of 2
Nickel (mg/L)	GWC-9	0.14	n/a	9/18/2018	0.005ND	No	154	47.4	n/a	0.000...	NP (normality) 1 of 2
Selenium (mg/L)	GWC-8Z	0.0065	n/a	9/18/2018	0.005ND	No	191	98.43	n/a	0.000...	NP (NDs) 1 of 2
Selenium (mg/L)	GWC-9	0.0065	n/a	9/18/2018	0.005ND	No	191	98.43	n/a	0.000...	NP (NDs) 1 of 2
Selenium (mg/L)	GWC-13R_13RZ	0.0065	n/a	9/20/2018	0.005ND	No	191	98.43	n/a	0.000...	NP (NDs) 1 of 2
Silver (mg/L)	GWC-10	0.0050	n/a	9/18/2018	0.005ND	No	154	88.96	n/a	0.000...	NP (NDs) 1 of 2
Silver (mg/L)	GWC-10R	0.0050	n/a	9/18/2018	0.005ND	No	154	88.96	n/a	0.000...	NP (NDs) 1 of 2
Silver (mg/L)	GWC-11	0.0050	n/a	9/18/2018	0.005ND	No	154	88.96	n/a	0.000...	NP (NDs) 1 of 2

Interwell Prediction Limit

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR Printed 12/7/2018, 9:38 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Silver (mg/L)	GWC-11R	0.0050	n/a	9/18/2018	0.005ND	No	154	88.96	n/a	0.000...	NP (NDs) 1 of 2
Silver (mg/L)	GWC-12	0.0050	n/a	9/18/2018	0.005ND	No	154	88.96	n/a	0.000...	NP (NDs) 1 of 2
Silver (mg/L)	GWC-13	0.0050	n/a	9/19/2018	0.005ND	No	154	88.96	n/a	0.000...	NP (NDs) 1 of 2
Silver (mg/L)	GWC-14_14Z	0.0050	n/a	9/19/2018	0.005ND	No	154	88.96	n/a	0.000...	NP (NDs) 1 of 2
Silver (mg/L)	GWC-15R	0.0050	n/a	9/19/2018	0.005ND	No	154	88.96	n/a	0.000...	NP (NDs) 1 of 2
Silver (mg/L)	GWC-15_15Z	0.0050	n/a	9/19/2018	0.005ND	No	154	88.96	n/a	0.000...	NP (NDs) 1 of 2
Silver (mg/L)	GWC-5	0.0050	n/a	9/17/2018	0.005ND	No	154	88.96	n/a	0.000...	NP (NDs) 1 of 2
Silver (mg/L)	GWC-6	0.0050	n/a	9/17/2018	0.005ND	No	154	88.96	n/a	0.000...	NP (NDs) 1 of 2
Silver (mg/L)	GWC-6R	0.0050	n/a	4/9/2013	0.00125ND	No	154	88.96	n/a	0.000...	NP (NDs) 1 of 2
Silver (mg/L)	GWC-6RZ	0.0050	n/a	9/17/2018	0.005ND	No	154	88.96	n/a	0.000...	NP (NDs) 1 of 2
Thallium (mg/L)	GWC-6RZ	0.00050	n/a	9/17/2018	0.0005ND	No	84	98.81	n/a	0.000...	NP (NDs) 1 of 2
Thallium (mg/L)	GWC-7Z	0.00050	n/a	9/18/2018	0.0005ND	No	84	98.81	n/a	0.000...	NP (NDs) 1 of 2
Thallium (mg/L)	GWC-8RR	0.00050	n/a	9/18/2018	0.0005ND	No	84	98.81	n/a	0.000...	NP (NDs) 1 of 2
Thallium (mg/L)	GWC-8Z	0.00050	n/a	9/18/2018	0.0005ND	No	84	98.81	n/a	0.000...	NP (NDs) 1 of 2
Thallium (mg/L)	GWC-9	0.00050	n/a	9/18/2018	0.0005ND	No	84	98.81	n/a	0.000...	NP (NDs) 1 of 2
Thallium (mg/L)	GWC-13R_13RZ	0.00050	n/a	9/20/2018	0.0005ND	No	84	98.81	n/a	0.000...	NP (NDs) 1 of 2
Vanadium (mg/L)	GWC-10	0.016	n/a	9/18/2018	0.005ND	No	154	86.36	n/a	0.000...	NP (NDs) 1 of 2
Vanadium (mg/L)	GWC-10R	0.016	n/a	9/18/2018	0.005ND	No	154	86.36	n/a	0.000...	NP (NDs) 1 of 2
Vanadium (mg/L)	GWC-11	0.016	n/a	9/18/2018	0.005ND	No	154	86.36	n/a	0.000...	NP (NDs) 1 of 2
Vanadium (mg/L)	GWC-11R	0.016	n/a	9/18/2018	0.0022	No	154	86.36	n/a	0.000...	NP (NDs) 1 of 2
Vanadium (mg/L)	GWC-12	0.016	n/a	9/18/2018	0.005ND	No	154	86.36	n/a	0.000...	NP (NDs) 1 of 2
Vanadium (mg/L)	GWC-13	0.016	n/a	9/19/2018	0.0022	No	154	86.36	n/a	0.000...	NP (NDs) 1 of 2
Vanadium (mg/L)	GWC-14_14Z	0.016	n/a	9/19/2018	0.005ND	No	154	86.36	n/a	0.000...	NP (NDs) 1 of 2
Vanadium (mg/L)	GWC-15R	0.016	n/a	9/19/2018	0.005ND	No	154	86.36	n/a	0.000...	NP (NDs) 1 of 2
Vanadium (mg/L)	GWC-15_15Z	0.016	n/a	9/19/2018	0.005ND	No	154	86.36	n/a	0.000...	NP (NDs) 1 of 2
Vanadium (mg/L)	GWC-5	0.016	n/a	9/17/2018	0.005ND	No	154	86.36	n/a	0.000...	NP (NDs) 1 of 2
Zinc (mg/L)	GWC-15_15Z	0.13	n/a	9/19/2018	0.005ND	No	153	29.41	n/a	0.000...	NP (normality) 1 of 2
Zinc (mg/L)	GWC-5	0.13	n/a	9/17/2018	0.03	No	153	29.41	n/a	0.000...	NP (normality) 1 of 2
Zinc (mg/L)	GWC-6	0.13	n/a	9/17/2018	0.005ND	No	153	29.41	n/a	0.000...	NP (normality) 1 of 2
Zinc (mg/L)	GWC-6R	0.13	n/a	4/9/2013	0.0046	No	153	29.41	n/a	0.000...	NP (normality) 1 of 2
Zinc (mg/L)	GWC-6RZ	0.13	n/a	9/17/2018	0.005ND	No	153	29.41	n/a	0.000...	NP (normality) 1 of 2
Zinc (mg/L)	GWC-7Z	0.13	n/a	9/18/2018	0.005ND	No	153	29.41	n/a	0.000...	NP (normality) 1 of 2
Zinc (mg/L)	GWC-8RR	0.13	n/a	9/18/2018	0.005ND	No	153	29.41	n/a	0.000...	NP (normality) 1 of 2
Zinc (mg/L)	GWC-8Z	0.13	n/a	9/18/2018	0.005ND	No	153	29.41	n/a	0.000...	NP (normality) 1 of 2
Zinc (mg/L)	GWC-9	0.13	n/a	9/18/2018	0.005ND	No	153	29.41	n/a	0.000...	NP (normality) 1 of 2
Zinc (mg/L)	GWC-13R_13RZ	0.13	n/a	9/20/2018	0.005ND	No	153	29.41	n/a	0.000...	NP (normality) 1 of 2

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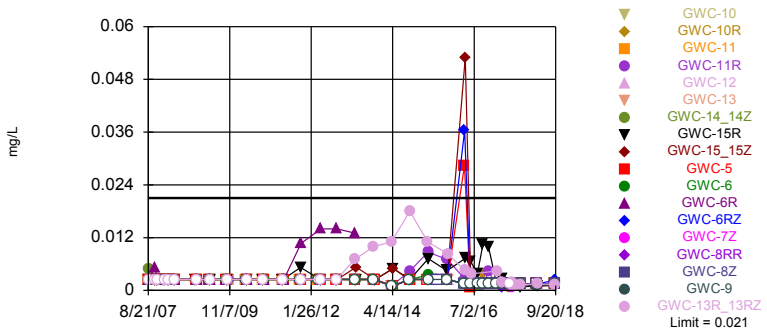
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 191 background values. 74.87% NDs. Annual per-constituent alpha = 0.00184. Individual comparison alpha = 0.00005418 (1 of 2). Comparing 18 points to limit.

Constituent: Antimony Analysis Run 12/7/2018 9:17 AM View: Cells 1&2 metals OB and BR combined
Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

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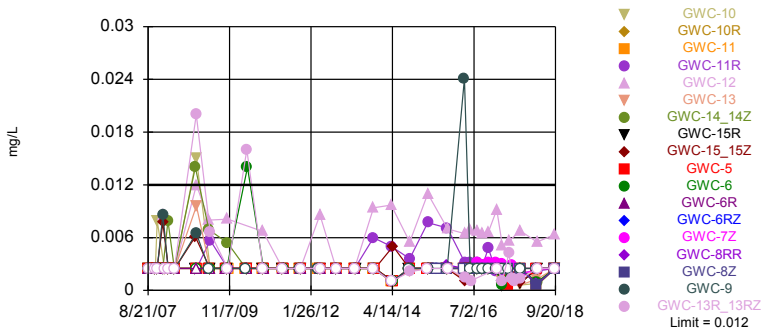
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 191 background values. 90.05% NDs. Annual per-constituent alpha = 0.00184. Individual comparison alpha = 0.00005418 (1 of 2). Comparing 18 points to limit.

Constituent: Arsenic Analysis Run 12/7/2018 9:18 AM View: Cells 1&2 metals OB and BR combined
Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

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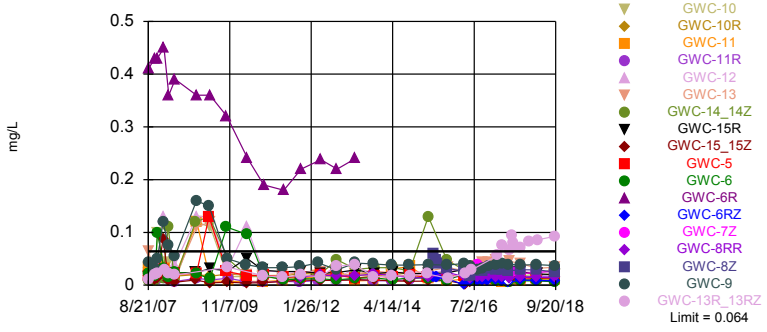
Hollow symbols indicate censored values.

Exceeds Limit: GWC-6R, GWC-13R_13RZ

Prediction Limit

Interwell Parametric



Background Data Summary (based on natural log transformation): Mean=-4.302, Std. Dev.=0.6906, n=186, 1.075% NDs. Normality test: Chi Squared @alpha = 0.01, calculated = 6.581, critical = 14.07. Kappa = 2.246 (c=16, w=17, 1 of 2, event alpha = 0.05132). N exceeds UG tables; Kappa based on n=150. Report alpha = 0.003287. Individual comparison alpha = 0.0001937. Comparing 18 points to limit.

Constituent: Barium Analysis Run 12/7/2018 9:19 AM View: Cells 1&2 metals OB and BR combined
Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

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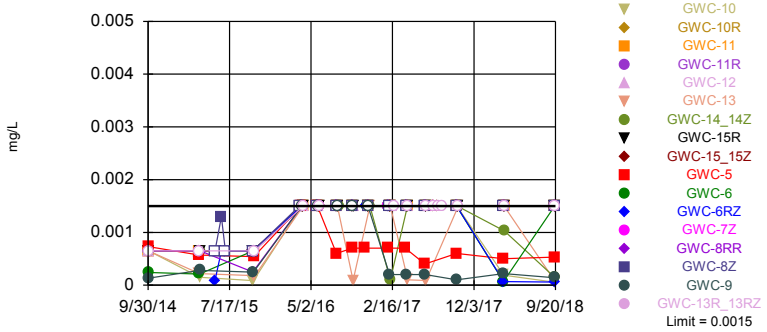
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 95 background values. 97.89% NDs. Annual per-constituent alpha = 0.007213. Individual comparison alpha = 0.0002129 (1 of 2). Comparing 17 points to limit.

Constituent: Beryllium Analysis Run 12/7/2018 9:19 AM View: Cells 1&2 metals OB and BR combined
Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 12/7/2018 9:38 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-11	GWC-10R	GWC-13	GWC-12	GWC-11R	GWC-10	GWC-13R_13RZ	GWC-6	GWC-6R
8/21/2007	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005		
8/22/2007								<0.005	<0.005
8/23/2007									
8/24/2007									
10/23/2007									
10/24/2007									
10/25/2007								<0.005	0.0051
11/1/2007	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005		
11/2/2007									
11/17/2007									
11/18/2007	<0.005				<0.005				
11/19/2007			<0.005	<0.005			<0.005		<0.005
11/20/2007		<0.005				<0.005		<0.005	
1/15/2008									
1/16/2008				<0.005					
1/23/2008								<0.005	<0.005
1/30/2008	<0.005	<0.005			<0.005	<0.005			
1/31/2008			<0.005				<0.005		
3/5/2008	<0.005		<0.005	<0.005			<0.005		
3/6/2008		<0.005			<0.005	<0.005			
3/10/2008									
3/11/2008								<0.005	<0.005
5/6/2008									
5/7/2008	<0.005				<0.005		<0.005		
5/8/2008		<0.005							
5/12/2008			<0.005			<0.005			
5/13/2008				<0.005					
5/14/2008								<0.005	<0.005
12/2/2008									
12/4/2008									
12/5/2008									
12/11/2008								<0.005	
12/12/2008							<0.005		<0.005
12/13/2008			<0.005	<0.005		<0.005			
12/14/2008	<0.005	<0.005			<0.005				
4/15/2009									
4/16/2009				<0.005					
4/21/2009									
4/23/2009								<0.005	
4/24/2009									<0.005
4/28/2009			<0.005						
4/29/2009	<0.005	<0.005			<0.005	<0.005	<0.005		
10/6/2009									
10/7/2009									
10/8/2009									
10/9/2009								<0.005	<0.005
10/13/2009									
10/19/2009									
10/20/2009						<0.005			
10/21/2009		<0.005	<0.005	<0.005			<0.005		
10/22/2009	<0.005				<0.005				
4/20/2010									

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 12/7/2018 9:38 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-11	GWC-10R	GWC-13	GWC-12	GWC-11R	GWC-10	GWC-13R_13RZ	GWC-6	GWC-6R
4/21/2010	<0.005	<0.005			<0.005				
4/26/2010						<0.005			
4/27/2010				<0.005					
4/28/2010			<0.005				<0.005		
5/3/2010									
5/4/2010								<0.005	<0.005
9/28/2010	<0.005	<0.005							
9/29/2010					<0.005	<0.005			
9/30/2010									
10/4/2010									
10/5/2010			<0.005	<0.005					
10/6/2010							<0.005		
10/11/2010								<0.005	
10/12/2010									<0.005
4/12/2011	<0.005	<0.005							
4/13/2011					<0.005	<0.005			
4/14/2011									
4/18/2011									
4/19/2011			<0.005	<0.005					
4/20/2011							<0.005		
4/21/2011									
4/26/2011								<0.005	
4/27/2011									
4/28/2011									<0.005
10/4/2011	<0.005	<0.005			<0.005				
10/5/2011						<0.005			
10/12/2011				<0.005			<0.005		
10/13/2011									
10/17/2011									
10/18/2011			<0.005					<0.005	0.0107
10/19/2011									
4/3/2012	<0.005	<0.005							
4/4/2012					<0.005	<0.005			
4/11/2012									
4/23/2012									
4/24/2012				<0.005					
4/25/2012			<0.005				<0.005		
4/30/2012									
5/1/2012									0.014
5/2/2012								<0.005	
10/2/2012			<0.005	<0.005			<0.005		
10/3/2012	<0.005				<0.005	<0.005			
10/8/2012		<0.005						<0.005	
10/9/2012									0.014
10/10/2012									
4/2/2013			<0.005	<0.005			0.007		
4/3/2013	<0.005	<0.005			<0.005	<0.005			
4/8/2013									
4/9/2013									0.013
4/10/2013								<0.005	
4/11/2013									
4/12/2013									

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 12/7/2018 9:38 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-11	GWC-10R	GWC-13	GWC-12	GWC-11R	GWC-10	GWC-13R_13RZ	GWC-6	GWC-6R
4/15/2013									
4/16/2013									
10/8/2013			<0.005				0.01	<0.005	
10/9/2013	<0.005			<0.005	<0.005				
10/15/2013		<0.005				<0.005			
10/16/2013									
10/22/2013									
4/1/2014			<0.002	<0.002			0.011		
4/2/2014	<0.002				<0.002				
4/9/2014		<0.002				<0.002			
4/10/2014									
4/11/2014									
4/14/2014								<0.002	
4/21/2014									
4/22/2014									
4/23/2014									
9/30/2014									
10/1/2014			<0.005				0.018		
10/2/2014	<0.005	<0.005		<0.005	0.0044 (J)	<0.005			
10/3/2014								<0.005	
10/4/2014									
3/30/2015									
3/31/2015							0.011		
4/1/2015	<0.005		<0.005	<0.005	0.0087			0.0035 (J)	
4/2/2015		<0.005				<0.005			
4/3/2015									
5/26/2015									
6/18/2015									
7/2/2015									
10/6/2015									
10/7/2015									
10/8/2015									
10/9/2015								<0.005	
10/10/2015						<0.005			
10/11/2015	<0.005				0.007				
10/12/2015		<0.005							
10/13/2015									
10/14/2015				<0.005			0.0083		
10/15/2015			<0.005						
3/22/2016									
3/23/2016									
3/28/2016									
3/29/2016								<0.003	
3/30/2016									
3/31/2016		<0.003				<0.003			
4/4/2016	<0.003		<0.003	<0.003	0.00252 (J)		0.00447		
4/5/2016									
5/19/2016									
5/20/2016									
5/23/2016									
5/24/2016								<0.003	
5/25/2016									

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 12/7/2018 9:38 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-11	GWC-10R	GWC-13	GWC-12	GWC-11R	GWC-10	GWC-13R_13RZ	GWC-6	GWC-6R
5/26/2016	0.000722 (J)	0.000659 (J)			0.00351	<0.003			
5/27/2016				<0.003					
5/31/2016			<0.003						
6/1/2016							0.00377		
7/29/2016									
8/1/2016								<0.003	
8/2/2016									
8/3/2016	<0.003 (*)	<0.003 (*)		<0.003 (*)					
8/4/2016			<0.003 (*)		<0.003 (*)				
8/5/2016						<0.003			
8/9/2016									
9/22/2016									
9/23/2016									
9/26/2016								<0.003	
9/27/2016									
9/28/2016	<0.003	0.0037			0.0012 (J)	<0.003			
9/29/2016			<0.003 (*)						
9/30/2016				<0.003					
11/9/2016									
11/10/2016									
11/11/2016									
11/14/2016									
11/18/2016								<0.003	
11/21/2016									
11/22/2016	<0.003	<0.003		<0.003	0.0042	<0.003			
11/23/2016									
11/28/2016			<0.003						
1/30/2017									
1/31/2017									
2/1/2017								<0.003 (*)	
2/3/2017									
2/6/2017									
2/7/2017		<0.003				<0.003			
2/8/2017	<0.003				<0.003				
2/9/2017			<0.003						
2/10/2017									
2/13/2017				<0.003					
2/22/2017							0.0044		
3/30/2017									
4/3/2017									
4/6/2017								0.001 (J)	
4/7/2017									
4/10/2017	<0.003	<0.003			<0.003	<0.003			
4/11/2017				<0.003			0.0019 (J)		
4/12/2017			<0.003						
6/9/2017									
6/12/2017									
6/13/2017								<0.003 (*)	
6/14/2017		<0.003 (*)		<0.003		<0.003 (*)			
6/15/2017	<0.003 (*)				<0.003				
6/16/2017			<0.003 (*)				<0.003 (*)		
7/12/2017							0.0018 (J)		

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 12/7/2018 9:38 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-11	GWC-10R	GWC-13	GWC-12	GWC-11R	GWC-10	GWC-13R_13RZ	GWC-6	GWC-6R
7/14/2017									
7/20/2017									
7/26/2017									
7/28/2017							0.0011 (J)		
8/9/2017									
8/10/2017							0.0012 (J)		
8/24/2017									
10/2/2017									
10/3/2017								<0.003	
10/4/2017	<0.003	<0.003		<0.003	<0.003	<0.003			
10/5/2017									
10/6/2017							0.0013 (J)		
10/9/2017			<0.003						
3/16/2018									
3/19/2018								<0.003	
3/20/2018						<0.003			
3/21/2018	<0.003	<0.003	<0.003						
3/22/2018				<0.003	<0.003				
3/23/2018							0.0015 (J)		
9/14/2018									
9/17/2018								<0.003	
9/18/2018	<0.003	<0.003		<0.003	<0.003	<0.003			
9/19/2018			<0.003						
9/20/2018							0.0013 (J)		

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 12/7/2018 9:38 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-2 (bg)	GWC-15R	GWA-3 (bg)	GWA-2R (bg)	GWC-5	GWA-1 (bg)	GWC-9	GWC-15_15Z	GWC-14_14Z
8/21/2007									
8/22/2007									
8/23/2007	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005		
8/24/2007								<0.005	0.005
10/23/2007						<0.005			
10/24/2007	<0.005			<0.005					
10/25/2007					<0.005				
11/1/2007							<0.005		
11/2/2007		<0.005	<0.005					<0.005	<0.005
11/17/2007		<0.005							<0.005
11/18/2007	<0.005		<0.005	<0.005		<0.005		<0.005	
11/19/2007					<0.005		<0.005		
11/20/2007									
1/15/2008		<0.005					<0.005	<0.005	<0.005
1/16/2008									
1/23/2008					<0.005				
1/30/2008						<0.005			
1/31/2008	<0.005		<0.005	<0.005					
3/5/2008									<0.005
3/6/2008		<0.005					<0.005		
3/10/2008				<0.005		<0.005		<0.005	
3/11/2008	<0.005		<0.005		<0.005				
5/6/2008	<0.005								
5/7/2008		<0.005							<0.005
5/8/2008									
5/12/2008					<0.005				
5/13/2008				<0.005		<0.005	<0.005	<0.005	
5/14/2008			<0.005						
12/2/2008		<0.005						<0.005	<0.005
12/4/2008	<0.005			<0.005					
12/5/2008			<0.005			<0.005			
12/11/2008					<0.005				
12/12/2008							<0.005		
12/13/2008									
12/14/2008									
4/15/2009			<0.005		<0.005	<0.005			
4/16/2009							<0.005		<0.005
4/21/2009	<0.005			<0.005					
4/23/2009									
4/24/2009									
4/28/2009		<0.005						<0.005	
4/29/2009									
10/6/2009									
10/7/2009	<0.005					<0.005			
10/8/2009			<0.005	<0.005					
10/9/2009					<0.005				
10/13/2009							<0.005		
10/19/2009		<0.005							
10/20/2009								<0.005	<0.005
10/21/2009									
10/22/2009									
4/20/2010									<0.005

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 12/7/2018 9:38 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-2 (bg)	GWC-15R	GWA-3 (bg)	GWA-2R (bg)	GWC-5	GWA-1 (bg)	GWC-9	GWC-15_15Z	GWC-14_14Z
4/21/2010				<0.005			<0.005		
4/26/2010	<0.005								
4/27/2010		<0.005						<0.005	
4/28/2010			<0.005						
5/3/2010						<0.005			
5/4/2010					<0.005				
9/28/2010				<0.005					
9/29/2010							<0.005		<0.005
9/30/2010									
10/4/2010	<0.005	<0.005							
10/5/2010								<0.005	
10/6/2010			<0.005						
10/11/2010									
10/12/2010					<0.005	<0.005			
4/12/2011				<0.005					<0.005
4/13/2011	<0.005						<0.005		
4/14/2011									
4/18/2011		<0.005							
4/19/2011								<0.005	
4/20/2011									
4/21/2011			<0.005						
4/26/2011									
4/27/2011						<0.005			
4/28/2011					<0.005				
10/4/2011				<0.005					<0.005
10/5/2011	<0.005						<0.005		
10/12/2011		0.0052						<0.005	
10/13/2011			<0.005						
10/17/2011						0.0054			
10/18/2011									
10/19/2011					<0.005				
4/3/2012				0.0053					
4/4/2012							<0.005		<0.005
4/11/2012	<0.005								
4/23/2012		<0.005							
4/24/2012									
4/25/2012								<0.005	
4/30/2012									
5/1/2012			<0.005						
5/2/2012					<0.005	<0.005			
10/2/2012									
10/3/2012									
10/8/2012						<0.005	<0.005		
10/9/2012	<0.005		<0.005	<0.005	<0.005				
10/10/2012		<0.005						<0.005	<0.005
4/2/2013									
4/3/2013									
4/8/2013							<0.005		
4/9/2013									
4/10/2013									
4/11/2013			<0.005	0.0075	<0.005				
4/12/2013						0.0058			

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 12/7/2018 9:38 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-2 (bg)	GWC-15R	GWA-3 (bg)	GWA-2R (bg)	GWC-5	GWA-1 (bg)	GWC-9	GWC-15_15Z	GWC-14_14Z
4/15/2013	<0.005	<0.005							<0.005
4/16/2013								0.0053	
10/8/2013									
10/9/2013							<0.005		
10/15/2013	<0.005								
10/16/2013			<0.005	<0.005	<0.005	0.01			
10/22/2013		<0.005						<0.005	<0.005
4/1/2014									
4/2/2014									
4/9/2014							<0.002		
4/10/2014				0.0081					
4/11/2014						0.005 (J)			
4/14/2014									
4/21/2014		0.005 (J)						0.005 (J)	<0.002
4/22/2014	<0.002								
4/23/2014			<0.002		<0.002				
9/30/2014	<0.005	0.0024 (J)		0.0022 (J)		0.0068	<0.005	<0.005	<0.005
10/1/2014									
10/2/2014									
10/3/2014					<0.005				
10/4/2014			0.0031 (J)						
3/30/2015	<0.005			0.011		0.0074			
3/31/2015			0.0068		<0.005				
4/1/2015									
4/2/2015							<0.005		
4/3/2015		0.0072						<0.005	<0.005
5/26/2015									
6/18/2015									
7/2/2015									
10/6/2015								0.0025 (J)	
10/7/2015		0.0045 (J)							<0.005
10/8/2015									
10/9/2015									
10/10/2015							<0.005 (D)		
10/11/2015									
10/12/2015			<0.005		<0.005				
10/13/2015	<0.005			0.0045 (J)		0.017			
10/14/2015									
10/15/2015									
3/22/2016						0.00567			
3/23/2016	<0.003		0.0035	0.00281 (J)					
3/28/2016					0.0284 (J)				
3/29/2016									
3/30/2016							<0.003		
3/31/2016									
4/4/2016									
4/5/2016		0.00727						0.053 (J)	<0.003
5/19/2016				0.00264 (J)		0.00319			
5/20/2016	<0.003								
5/23/2016			<0.003						
5/24/2016									
5/25/2016					0.000686 (J)				

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 12/7/2018 9:38 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-2 (bg)	GWC-15R	GWA-3 (bg)	GWA-2R (bg)	GWC-5	GWA-1 (bg)	GWC-9	GWC-15_15Z	GWC-14_14Z
5/26/2016							<0.003		
5/27/2016									
5/31/2016		0.00649						0.00088 (J)	
6/1/2016									0.000895 (J)
7/29/2016	<0.003		0.0029 (J)	0.0069		0.0025 (J)			
8/1/2016					<0.003 (*)				
8/2/2016									
8/3/2016									
8/4/2016		0.0038							
8/5/2016							<0.003 (*)		
8/9/2016									0.00095 (JD)
9/22/2016			0.0041	0.0066					
9/23/2016	<0.003					0.0051			
9/26/2016									
9/27/2016					<0.003				
9/28/2016							<0.003		
9/29/2016		0.0106							
9/30/2016									
11/9/2016	<0.003 (*)					0.0097 (J)			
11/10/2016			0.0048 (J)	<0.003 (*)					
11/11/2016					<0.003				
11/14/2016									
11/18/2016									
11/21/2016							<0.003		
11/22/2016									
11/23/2016		0.0098						<0.003	
11/28/2016									<0.003
1/30/2017						0.0032			
1/31/2017	<0.003		<0.003	0.0064	<0.003				
2/1/2017									
2/3/2017									
2/6/2017							<0.003		
2/7/2017									
2/8/2017									
2/9/2017									<0.003
2/10/2017		0.0014 (J)						<0.003	
2/13/2017									
2/22/2017									
3/30/2017	<0.003		0.001 (J)			0.0028 (J)			
4/3/2017				0.0049	<0.003				
4/6/2017							<0.003		
4/7/2017									
4/10/2017									
4/11/2017								<0.003	<0.003
4/12/2017		0.0026 (J)							
6/9/2017				<0.003 (*)		<0.003 (*)			
6/12/2017	<0.003 (*)		<0.003 (*)		<0.003				
6/13/2017							<0.003		
6/14/2017									0.0006 (J)
6/15/2017		<0.003 (*)						<0.003 (*)	
6/16/2017									
7/12/2017								<0.003	<0.003

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 12/7/2018 9:38 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-2 (bg)	GWC-15R	GWA-3 (bg)	GWA-2R (bg)	GWC-5	GWA-1 (bg)	GWC-9	GWC-15_15Z	GWC-14_14Z
7/14/2017									
7/20/2017									
7/26/2017								<0.003	
7/28/2017									
8/9/2017									
8/10/2017									
8/24/2017									
10/2/2017	<0.003			0.0045		0.0014 (J)			
10/3/2017					<0.003		<0.003		
10/4/2017			0.0009 (J)						
10/5/2017									<0.003
10/6/2017		0.0008 (J)						<0.003	
10/9/2017									
3/16/2018				0.021		0.0014 (J)			
3/19/2018	<0.003		0.0019 (J)		<0.003				
3/20/2018							0.001 (J)		
3/21/2018									
3/22/2018									<0.003
3/23/2018		0.001 (J)						0.00089 (J)	
9/14/2018	<0.003			0.0054					
9/17/2018			0.0011 (J)		<0.003	0.00105 (JD)			
9/18/2018							<0.003 (D)		
9/19/2018		0.0011 (J)						<0.003	<0.003
9/20/2018									

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 12/7/2018 9:38 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50 (bg)	GWA-50R (bg)	GWC-8RR	GWC-6RZ	GWC-8Z	GWC-7Z	GWA-4RZ (bg)
8/21/2007							
8/22/2007							
8/23/2007							
8/24/2007							
10/23/2007							
10/24/2007							
10/25/2007							
11/1/2007							
11/2/2007							
11/17/2007							
11/18/2007							
11/19/2007							
11/20/2007							
1/15/2008							
1/16/2008							
1/23/2008							
1/30/2008							
1/31/2008							
3/5/2008							
3/6/2008							
3/10/2008							
3/11/2008							
5/6/2008							
5/7/2008							
5/8/2008							
5/12/2008							
5/13/2008							
5/14/2008							
12/2/2008							
12/4/2008							
12/5/2008							
12/11/2008							
12/12/2008	<0.005	<0.005					
12/13/2008							
12/14/2008							
4/15/2009							
4/16/2009							
4/21/2009							
4/23/2009	<0.005	<0.005					
4/24/2009							
4/28/2009							
4/29/2009							
10/6/2009	<0.005	<0.005					
10/7/2009							
10/8/2009							
10/9/2009							
10/13/2009							
10/19/2009							
10/20/2009							
10/21/2009							
10/22/2009							
4/20/2010							

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 12/7/2018 9:38 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50 (bg)	GWA-50R (bg)	GWC-8RR	GWC-6RZ	GWC-8Z	GWC-7Z	GWA-4RZ (bg)
4/21/2010							
4/26/2010							
4/27/2010	<0.005						
4/28/2010							
5/3/2010		<0.005					
5/4/2010							
9/28/2010							
9/29/2010							
9/30/2010	<0.005						
10/4/2010							
10/5/2010							
10/6/2010							
10/11/2010		<0.005					
10/12/2010							
4/12/2011							
4/13/2011							
4/14/2011	<0.005						
4/18/2011							
4/19/2011							
4/20/2011							
4/21/2011							
4/26/2011							
4/27/2011		<0.005					
4/28/2011							
10/4/2011							
10/5/2011	<0.005						
10/12/2011							
10/13/2011							
10/17/2011							
10/18/2011			<0.005				
10/19/2011		<0.005					
4/3/2012							
4/4/2012							
4/11/2012	<0.005						
4/23/2012							
4/24/2012							
4/25/2012							
4/30/2012			<0.005				
5/1/2012		<0.005					
5/2/2012							
10/2/2012	<0.005	<0.005					
10/3/2012			<0.005				
10/8/2012							
10/9/2012							
10/10/2012							
4/2/2013							
4/3/2013							
4/8/2013			<0.005				
4/9/2013	<0.005						
4/10/2013		<0.005					
4/11/2013							
4/12/2013							

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 12/7/2018 9:38 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50 (bg)	GWA-50R (bg)	GWC-8RR	GWC-6RZ	GWC-8Z	GWC-7Z	GWA-4RZ (bg)
4/15/2013							
4/16/2013							
10/8/2013							
10/9/2013			<0.005				
10/15/2013	<0.005						
10/16/2013		<0.005					
10/22/2013							
4/1/2014							
4/2/2014							
4/9/2014							
4/10/2014	<0.002		<0.002				
4/11/2014							
4/14/2014							
4/21/2014							
4/22/2014		<0.002					
4/23/2014							
9/30/2014							
10/1/2014	<0.005	<0.005					
10/2/2014			0.0025 (J)				
10/3/2014							
10/4/2014							
3/30/2015	<0.005	<0.005					
3/31/2015							
4/1/2015							
4/2/2015							
4/3/2015			<0.005				
5/26/2015				<0.005	<0.005		
6/18/2015				<0.005 (D)	<0.005 (D)		
7/2/2015				<0.005	<0.005		
10/6/2015							
10/7/2015							
10/8/2015			<0.005		<0.005		
10/9/2015				<0.005			
10/10/2015							
10/11/2015	<0.005	<0.005					
10/12/2015							
10/13/2015							
10/14/2015							
10/15/2015							
3/22/2016					<0.003		
3/23/2016							
3/28/2016	0.00139 (J)	<0.003					
3/29/2016				0.0364 (J)			
3/30/2016			<0.003				
3/31/2016							
4/4/2016							
4/5/2016							
5/19/2016							
5/20/2016							
5/23/2016	0.000677 (J)						
5/24/2016			<0.003	<0.003			
5/25/2016		<0.003			<0.003		

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 12/7/2018 9:38 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50 (bg)	GWA-50R (bg)	GWC-8RR	GWC-6RZ	GWC-8Z	GWC-7Z	GWA-4RZ (bg)
5/26/2016							
5/27/2016							
5/31/2016						<0.003	
6/1/2016							
7/29/2016							
8/1/2016	<0.003 (*)	<0.003 (*)		<0.003 (*)			
8/2/2016			<0.003 (*)		<0.003	<0.003	
8/3/2016							
8/4/2016							
8/5/2016							
8/9/2016							
9/22/2016							
9/23/2016							
9/26/2016	<0.003	<0.003		<0.003	<0.003		
9/27/2016			<0.003			<0.003	
9/28/2016							
9/29/2016							
9/30/2016							
11/9/2016							
11/10/2016	<0.003 (*)						
11/11/2016		<0.003					
11/14/2016				<0.003			
11/18/2016							
11/21/2016					<0.003	<0.003	
11/22/2016			<0.003				
11/23/2016							
11/28/2016							
1/30/2017	<0.003	<0.003					
1/31/2017							
2/1/2017				<0.003		<0.003	
2/3/2017					<0.003		
2/6/2017			0.0015 (J)				
2/7/2017							
2/8/2017							
2/9/2017							
2/10/2017							
2/13/2017							
2/22/2017							0.0018 (J)
3/30/2017							
4/3/2017		<0.003					
4/6/2017			0.0007 (J)	0.0006 (J)		<0.003	
4/7/2017	<0.003				<0.003		0.0008 (J)
4/10/2017							
4/11/2017							
4/12/2017							
6/9/2017							
6/12/2017	<0.003 (*)	<0.003					
6/13/2017				<0.003 (*)	<0.003 (*)	<0.003 (*)	
6/14/2017			<0.003 (*)				<0.003 (*)
6/15/2017							
6/16/2017							
7/12/2017							0.0015 (J)

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 12/7/2018 9:38 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50 (bg)	GWA-50R (bg)	GWC-8RR	GWC-6RZ	GWC-8Z	GWC-7Z	GWA-4RZ (bg)
7/14/2017						0.0008 (J)	
7/20/2017							<0.003
7/26/2017							
7/28/2017							<0.003
8/9/2017							<0.003
8/10/2017							
8/24/2017							0.0007 (J)
10/2/2017	<0.003	<0.003					
10/3/2017				<0.003	<0.003	<0.003	<0.003
10/4/2017			<0.003				
10/5/2017							
10/6/2017							
10/9/2017							
3/16/2018	<0.003	<0.003					
3/19/2018							
3/20/2018				<0.003	<0.003	<0.003	
3/21/2018			<0.003				<0.003
3/22/2018							
3/23/2018							
9/14/2018							
9/17/2018	<0.003			0.0023 (J)			
9/18/2018		<0.003	<0.003		<0.003	<0.003	<0.003
9/19/2018							
9/20/2018							

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 12/7/2018 9:38 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-11R	GWC-13	GWC-12	GWC-11	GWC-10	GWC-13R_13RZ	GWC-10R	GWC-6R	GWC-6
8/21/2007	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005		
8/22/2007								<0.005	<0.005
8/23/2007									
8/24/2007									
10/23/2007									
10/24/2007									
10/25/2007								<0.005	<0.005
11/1/2007	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005		
11/2/2007									
11/17/2007									
11/18/2007	<0.005			<0.005					
11/19/2007		<0.005	<0.005			<0.005		<0.005	
11/20/2007					0.0079		<0.005		<0.005
1/15/2008									
1/16/2008			0.0086						
1/23/2008								<0.005	<0.005
1/30/2008	<0.005			<0.005	<0.005		<0.005		
1/31/2008		<0.005				<0.005			
3/5/2008		<0.005	<0.005	<0.005		<0.005			
3/6/2008	<0.005				<0.005		<0.005		
3/10/2008									
3/11/2008								<0.005	<0.005
5/6/2008									
5/7/2008	<0.005			<0.005		<0.005			
5/8/2008							<0.005		
5/12/2008		<0.005			<0.005				
5/13/2008			<0.005						
5/14/2008								<0.005	<0.005
12/2/2008									
12/4/2008									
12/5/2008									
12/11/2008									<0.005
12/12/2008						0.02		<0.005	
12/13/2008		0.0096	0.012		0.015				
12/14/2008	<0.005			<0.005			<0.005		
4/15/2009									
4/16/2009			0.008						
4/21/2009									
4/23/2009									<0.005
4/24/2009								<0.005	
4/28/2009		<0.005							
4/29/2009	0.0057			<0.005	<0.005	0.0066	<0.005		
10/6/2009									
10/7/2009									
10/8/2009									
10/9/2009								<0.005	<0.005
10/13/2009									
10/19/2009									
10/20/2009					<0.005				
10/21/2009		<0.005	0.0081			<0.005	<0.005		
10/22/2009	<0.005			<0.005					
4/20/2010									

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 12/7/2018 9:38 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-11R	GWC-13	GWC-12	GWC-11	GWC-10	GWC-13R_13RZ	GWC-10R	GWC-6R	GWC-6
4/21/2010	<0.005			<0.005			<0.005		
4/26/2010					<0.005				
4/27/2010									
4/28/2010		<0.005				0.016			
5/3/2010									
5/4/2010								<0.005	0.014
9/28/2010				<0.005			<0.005		
9/29/2010	<0.005				<0.005				
9/30/2010									
10/4/2010									
10/5/2010		<0.005	0.0067						
10/6/2010						<0.005			
10/11/2010									<0.005
10/12/2010								<0.005	
4/12/2011				<0.005			<0.005		
4/13/2011	<0.005				<0.005				
4/14/2011									
4/18/2011									
4/19/2011		<0.005	<0.005						
4/20/2011						<0.005			
4/21/2011									
4/26/2011									<0.005
4/27/2011									
4/28/2011								<0.005	
10/4/2011	<0.005			<0.005			<0.005		
10/5/2011					<0.005				
10/12/2011			<0.005			<0.005			
10/13/2011									
10/17/2011									
10/18/2011		<0.005						<0.005	<0.005
10/19/2011									
4/3/2012				<0.005			<0.005		
4/4/2012	<0.005				<0.005				
4/11/2012									
4/23/2012									
4/24/2012			0.0086						
4/25/2012		<0.005				<0.005			
4/30/2012									
5/1/2012								<0.005	
5/2/2012									<0.005
10/2/2012		<0.005	<0.005			<0.005			
10/3/2012	<0.005			<0.005	<0.005				
10/8/2012							<0.005		<0.005
10/9/2012								<0.005	
10/10/2012									
4/2/2013		<0.005	<0.005			<0.005			
4/3/2013	<0.005			<0.005	<0.005		<0.005		
4/8/2013									
4/9/2013								<0.005	
4/10/2013									<0.005
4/11/2013									
4/12/2013									

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 12/7/2018 9:38 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-11R	GWC-13	GWC-12	GWC-11	GWC-10	GWC-13R_13RZ	GWC-10R	GWC-6R	GWC-6
4/15/2013									
4/16/2013									
10/8/2013		<0.005				<0.005			<0.005
10/9/2013	0.006		0.0094	<0.005					
10/15/2013					<0.005		<0.005		
10/16/2013									
10/22/2013									
4/1/2014		<0.002	0.0097			<0.002			
4/2/2014	0.005 (J)			<0.002					
4/9/2014					<0.002		<0.002		
4/10/2014									
4/11/2014									
4/14/2014									<0.002
4/21/2014									
4/22/2014									
4/23/2014									
9/30/2014									
10/1/2014		0.0022 (J)				0.0021 (J)			
10/2/2014	0.0036 (J)		0.0055	<0.005	<0.005		<0.005		
10/3/2014									<0.005
10/4/2014									
3/30/2015									
3/31/2015						<0.005			
4/1/2015	0.0077	<0.005	0.011	<0.005					<0.005
4/2/2015					<0.005		<0.005		
4/3/2015									
5/26/2015									
6/18/2015									
7/2/2015									
10/6/2015									
10/7/2015									
10/8/2015									
10/9/2015									<0.005
10/10/2015					<0.005				
10/11/2015	0.0071			<0.005					
10/12/2015							<0.005		
10/13/2015									
10/14/2015			0.007			<0.005			
10/15/2015		<0.005							
3/22/2016									
3/23/2016									
3/28/2016									
3/29/2016									<0.005
3/30/2016									
3/31/2016					<0.005		<0.005		
4/4/2016	0.00315 (J)	0.00124 (J)	0.00645	<0.005		0.00144 (JD)			
4/5/2016									
5/19/2016									
5/20/2016									
5/23/2016									
5/24/2016									<0.005
5/25/2016									

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 12/7/2018 9:38 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-11R	GWC-13	GWC-12	GWC-11	GWC-10	GWC-13R_13RZ	GWC-10R	GWC-6R	GWC-6
5/26/2016	0.00313 (J)			<0.005	<0.005		<0.005		
5/27/2016			0.00692						
5/31/2016		<0.005							
6/1/2016						0.0011 (JD)			
7/29/2016									
8/1/2016									<0.005
8/2/2016									
8/3/2016			0.0068	<0.005			<0.005		
8/4/2016	0.0032 (J)	<0.005							
8/5/2016					<0.005				
8/9/2016									
9/22/2016									
9/23/2016									
9/26/2016									<0.005
9/27/2016									
9/28/2016	0.0029 (J)			<0.005	<0.005		<0.005		
9/29/2016		<0.005							
9/30/2016			0.0065						
11/9/2016									
11/10/2016									
11/11/2016									
11/14/2016									
11/18/2016									<0.005
11/21/2016									
11/22/2016	0.0048 (J)		0.0066	<0.005	<0.005		<0.005		
11/23/2016									
11/28/2016		<0.005							
1/30/2017									
1/31/2017									
2/1/2017									<0.005
2/3/2017									
2/6/2017									
2/7/2017					<0.005		<0.005		
2/8/2017	0.0022 (J)			<0.005					
2/9/2017		<0.005							
2/10/2017									
2/13/2017			0.0092						
2/22/2017						<0.005			
3/30/2017									
4/3/2017									
4/6/2017									0.0006 (J)
4/7/2017									
4/10/2017	0.002 (J)			<0.005	<0.005		<0.005		
4/11/2017			0.0051			0.0011 (JD)			
4/12/2017		0.001 (J)							
6/9/2017									
6/12/2017									
6/13/2017									<0.005
6/14/2017			0.0056		<0.005		<0.005		
6/15/2017	0.0014 (J)			<0.005					
6/16/2017		0.0007 (J)				0.0043 (JD)			
7/12/2017						0.0013 (JD)			

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 12/7/2018 9:38 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-11R	GWC-13	GWC-12	GWC-11	GWC-10	GWC-13R_13RZ	GWC-10R	GWC-6R	GWC-6
7/14/2017									
7/20/2017									
7/26/2017									
7/28/2017						0.0013 (J)			
8/9/2017									
8/10/2017						0.0011 (J)			
8/24/2017									
10/2/2017									
10/3/2017									<0.005
10/4/2017	0.002 (J)		0.0068	<0.005	0.0006 (J)		<0.005		
10/5/2017									
10/6/2017						0.0013 (JD)			
10/9/2017		0.0006 (J)							
3/16/2018									
3/19/2018									0.00089 (J)
3/20/2018					0.00079 (J)				
3/21/2018		0.0013 (J)		0.00058 (J)			<0.005		
3/22/2018	0.0022 (J)		0.0055						
3/23/2018						<0.005			
9/14/2018									
9/17/2018									<0.005
9/18/2018	<0.005		0.0064	<0.005	<0.005		<0.005		
9/19/2018		<0.005							
9/20/2018						<0.005			

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 12/7/2018 9:38 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-3 (bg)	GWC-5	GWA-2 (bg)	GWA-2R (bg)	GWC-15R	GWA-1 (bg)	GWC-9	GWC-15_15Z	GWC-14_14Z
8/21/2007									
8/22/2007									
8/23/2007	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005		
8/24/2007								<0.005	<0.005
10/23/2007						<0.005			
10/24/2007			<0.005	<0.005					
10/25/2007		<0.005							
11/1/2007							<0.005		
11/2/2007	<0.005				<0.005			<0.005	<0.005
11/17/2007					<0.005				<0.005
11/18/2007	<0.005		<0.005	<0.005		<0.005		<0.005	
11/19/2007		<0.005					<0.005		
11/20/2007									
1/15/2008					<0.005		0.0086	0.0077	<0.005
1/16/2008									
1/23/2008		<0.005							
1/30/2008						<0.005			
1/31/2008	<0.005		<0.005	0.005					
3/5/2008									0.0079
3/6/2008					<0.005		<0.005		
3/10/2008				<0.005		<0.005		<0.005	
3/11/2008	<0.005	<0.005	<0.005						
5/6/2008			<0.005						
5/7/2008					<0.005				<0.005
5/8/2008									
5/12/2008		<0.005							
5/13/2008				<0.005		<0.005	<0.005	<0.005	
5/14/2008	<0.005								
12/2/2008					<0.005			0.0061	0.014
12/4/2008			0.012	<0.005					
12/5/2008	<0.005					<0.005			
12/11/2008		<0.005							
12/12/2008							0.0065		
12/13/2008									
12/14/2008									
4/15/2009	<0.005	<0.005				<0.005			
4/16/2009							<0.005		0.0069
4/21/2009			<0.005	<0.005					
4/23/2009									
4/24/2009									
4/28/2009					<0.005			<0.005	
4/29/2009									
10/6/2009									
10/7/2009			<0.005			<0.005			
10/8/2009	<0.005			<0.005					
10/9/2009		<0.005							
10/13/2009							<0.005		
10/19/2009					<0.005				
10/20/2009								<0.005	0.0054
10/21/2009									
10/22/2009									
4/20/2010									<0.005

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 12/7/2018 9:38 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-3 (bg)	GWC-5	GWA-2 (bg)	GWA-2R (bg)	GWC-15R	GWA-1 (bg)	GWC-9	GWC-15_15Z	GWC-14_14Z
4/21/2010				<0.005			<0.005		
4/26/2010			<0.005						
4/27/2010					<0.005			<0.005	
4/28/2010	<0.005								
5/3/2010						<0.005			
5/4/2010		<0.005							
9/28/2010				<0.005					
9/29/2010							<0.005		<0.005
9/30/2010									
10/4/2010			<0.005		<0.005				
10/5/2010								<0.005	
10/6/2010	<0.005								
10/11/2010									
10/12/2010		<0.005				<0.005			
4/12/2011				<0.005					<0.005
4/13/2011			<0.005				<0.005		
4/14/2011									
4/18/2011					<0.005				
4/19/2011								<0.005	
4/20/2011									
4/21/2011	<0.005								
4/26/2011									
4/27/2011						<0.005			
4/28/2011		<0.005							
10/4/2011				<0.005					<0.005
10/5/2011			<0.005				<0.005		
10/12/2011					<0.005			<0.005	
10/13/2011	<0.005								
10/17/2011						<0.005			
10/18/2011									
10/19/2011		<0.005							
4/3/2012				<0.005					
4/4/2012							<0.005		<0.005
4/11/2012			<0.005						
4/23/2012					<0.005				
4/24/2012									
4/25/2012								<0.005	
4/30/2012									
5/1/2012	<0.005								
5/2/2012		<0.005				<0.005			
10/2/2012									
10/3/2012									
10/8/2012						<0.005	<0.005		
10/9/2012	<0.005	<0.005	<0.005	<0.005					
10/10/2012					<0.005			<0.005	<0.005
4/2/2013									
4/3/2013									
4/8/2013							<0.005		
4/9/2013									
4/10/2013									
4/11/2013	<0.005	<0.005		<0.005					
4/12/2013						<0.005			

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 12/7/2018 9:38 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-3 (bg)	GWC-5	GWA-2 (bg)	GWA-2R (bg)	GWC-15R	GWA-1 (bg)	GWC-9	GWC-15_15Z	GWC-14_14Z
4/15/2013			<0.005		<0.005				<0.005
4/16/2013								<0.005	
10/8/2013									
10/9/2013							<0.005		
10/15/2013			<0.005						
10/16/2013	<0.005	<0.005		0.0056		<0.005			
10/22/2013					<0.005			<0.005	<0.005
4/1/2014									
4/2/2014									
4/9/2014							<0.002		
4/10/2014				<0.002					
4/11/2014						<0.002			
4/14/2014									
4/21/2014					<0.002			0.005 (J)	<0.002
4/22/2014			<0.002						
4/23/2014	<0.002	<0.002							
9/30/2014			<0.005	<0.005	<0.005	<0.005	<0.005	0.0025 (J)	<0.005
10/1/2014									
10/2/2014									
10/3/2014		<0.005							
10/4/2014	<0.005								
3/30/2015			<0.005	<0.005		<0.005			
3/31/2015	<0.005	<0.005							
4/1/2015									
4/2/2015							<0.005		
4/3/2015					<0.005			<0.005	<0.005
5/26/2015									
6/18/2015									
7/2/2015									
10/6/2015								<0.005	
10/7/2015					<0.005				<0.005
10/8/2015									
10/9/2015									
10/10/2015							<0.005 (D)		
10/11/2015									
10/12/2015	<0.005	<0.005							
10/13/2015			<0.005	<0.005		<0.005			
10/14/2015									
10/15/2015									
3/22/2016						<0.005			
3/23/2016	<0.005		<0.005	<0.005					
3/28/2016		<0.005							
3/29/2016									
3/30/2016							0.0241 (J)		
3/31/2016									
4/4/2016									
4/5/2016					<0.005			0.00105 (J)	<0.005
5/19/2016				<0.005		<0.005			
5/20/2016			<0.005						
5/23/2016	<0.005								
5/24/2016									
5/25/2016		<0.005							

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 12/7/2018 9:38 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-3 (bg)	GWC-5	GWA-2 (bg)	GWA-2R (bg)	GWC-15R	GWA-1 (bg)	GWC-9	GWC-15_15Z	GWC-14_14Z
5/26/2016							<0.005		
5/27/2016									
5/31/2016					<0.005			0.00261 (J)	
6/1/2016									<0.005
7/29/2016	<0.005		<0.005	0.0008 (J)		<0.005			
8/1/2016		<0.005							
8/2/2016									
8/3/2016									
8/4/2016					<0.005				
8/5/2016							<0.005		
8/9/2016									<0.005
9/22/2016	<0.005			<0.005					
9/23/2016			<0.005			<0.005			
9/26/2016									
9/27/2016		<0.005							
9/28/2016							<0.005		
9/29/2016					<0.005				
9/30/2016									
11/9/2016			<0.005			<0.005			
11/10/2016	<0.005			<0.005					
11/11/2016		<0.005							
11/14/2016									
11/18/2016									
11/21/2016							<0.005		
11/22/2016									
11/23/2016					<0.005			<0.005	
11/28/2016									<0.005
1/30/2017						<0.005			
1/31/2017	<0.005	<0.005	<0.005	<0.005					
2/1/2017									
2/3/2017									
2/6/2017							<0.005		
2/7/2017									
2/8/2017									
2/9/2017									<0.005
2/10/2017					<0.005			<0.005	
2/13/2017									
2/22/2017									
3/30/2017	<0.005		<0.005			<0.005			
4/3/2017		<0.005		0.0007 (J)					
4/6/2017							<0.005		
4/7/2017									
4/10/2017									
4/11/2017								0.0007 (J)	<0.005
4/12/2017					0.0005 (J)				
6/9/2017				0.0006 (J)		0.0005 (J)			
6/12/2017	<0.005	0.0006 (J)	<0.005						
6/13/2017							<0.005		
6/14/2017									<0.005
6/15/2017					<0.005			<0.005	
6/16/2017									
7/12/2017								<0.005	<0.005

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 12/7/2018 9:38 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-3 (bg)	GWC-5	GWA-2 (bg)	GWA-2R (bg)	GWC-15R	GWA-1 (bg)	GWC-9	GWC-15_15Z	GWC-14_14Z
7/14/2017									
7/20/2017									
7/26/2017								<0.005	
7/28/2017									
8/9/2017									
8/10/2017									
8/24/2017									
10/2/2017			<0.005	0.0005 (J)		<0.005			
10/3/2017		<0.005					<0.005		
10/4/2017	<0.005								
10/5/2017									<0.005
10/6/2017					0.0008 (J)			0.0009 (J)	
10/9/2017									
3/16/2018				0.001 (J)		0.00085 (J)			
3/19/2018	<0.005	<0.005	<0.005						
3/20/2018							<0.005		
3/21/2018									
3/22/2018									0.00096 (J)
3/23/2018					<0.005			<0.005	
9/14/2018			<0.005	<0.005					
9/17/2018	<0.005	<0.005				<0.005 (D)			
9/18/2018							<0.005 (D)		
9/19/2018					<0.005			<0.005	<0.005
9/20/2018									

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 12/7/2018 9:38 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50R (bg)	GWA-50 (bg)	GWC-8RR	GWC-6RZ	GWC-8Z	GWC-7Z	GWA-4RZ (bg)
8/21/2007							
8/22/2007							
8/23/2007							
8/24/2007							
10/23/2007							
10/24/2007							
10/25/2007							
11/1/2007							
11/2/2007							
11/17/2007							
11/18/2007							
11/19/2007							
11/20/2007							
1/15/2008							
1/16/2008							
1/23/2008							
1/30/2008							
1/31/2008							
3/5/2008							
3/6/2008							
3/10/2008							
3/11/2008							
5/6/2008							
5/7/2008							
5/8/2008							
5/12/2008							
5/13/2008							
5/14/2008							
12/2/2008							
12/4/2008							
12/5/2008							
12/11/2008							
12/12/2008	<0.005	<0.005					
12/13/2008							
12/14/2008							
4/15/2009							
4/16/2009							
4/21/2009							
4/23/2009	<0.005	<0.005					
4/24/2009							
4/28/2009							
4/29/2009							
10/6/2009	<0.005	<0.005					
10/7/2009							
10/8/2009							
10/9/2009							
10/13/2009							
10/19/2009							
10/20/2009							
10/21/2009							
10/22/2009							
4/20/2010							

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 12/7/2018 9:38 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50R (bg)	GWA-50 (bg)	GWC-8RR	GWC-6RZ	GWC-8Z	GWC-7Z	GWA-4RZ (bg)
4/21/2010							
4/26/2010							
4/27/2010		<0.005					
4/28/2010							
5/3/2010	0.012						
5/4/2010							
9/28/2010							
9/29/2010							
9/30/2010		<0.005					
10/4/2010							
10/5/2010							
10/6/2010							
10/11/2010	<0.005						
10/12/2010							
4/12/2011							
4/13/2011							
4/14/2011		<0.005					
4/18/2011							
4/19/2011							
4/20/2011							
4/21/2011							
4/26/2011							
4/27/2011	<0.005						
4/28/2011							
10/4/2011							
10/5/2011		<0.005					
10/12/2011							
10/13/2011							
10/17/2011							
10/18/2011			<0.005				
10/19/2011	<0.005						
4/3/2012							
4/4/2012							
4/11/2012		<0.005					
4/23/2012							
4/24/2012							
4/25/2012							
4/30/2012			<0.005				
5/1/2012	<0.005						
5/2/2012							
10/2/2012	<0.005	<0.005					
10/3/2012			<0.005				
10/8/2012							
10/9/2012							
10/10/2012							
4/2/2013							
4/3/2013							
4/8/2013			<0.005				
4/9/2013		<0.005					
4/10/2013	<0.005						
4/11/2013							
4/12/2013							

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 12/7/2018 9:38 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50R (bg)	GWA-50 (bg)	GWC-8RR	GWC-6RZ	GWC-8Z	GWC-7Z	GWA-4RZ (bg)
4/15/2013							
4/16/2013							
10/8/2013							
10/9/2013			<0.005				
10/15/2013		<0.005					
10/16/2013	<0.005						
10/22/2013							
4/1/2014							
4/2/2014							
4/9/2014							
4/10/2014		<0.002	<0.002				
4/11/2014							
4/14/2014							
4/21/2014							
4/22/2014	<0.002						
4/23/2014							
9/30/2014							
10/1/2014	<0.005	<0.005					
10/2/2014			<0.005				
10/3/2014							
10/4/2014							
3/30/2015	<0.005	<0.005					
3/31/2015							
4/1/2015							
4/2/2015							
4/3/2015			<0.005				
5/26/2015				<0.005	<0.005		
6/18/2015				<0.005 (D)	<0.005 (D)		
7/2/2015				<0.005	<0.005		
10/6/2015							
10/7/2015							
10/8/2015			0.0029 (J)		<0.005		
10/9/2015				<0.005			
10/10/2015							
10/11/2015	<0.005	<0.005					
10/12/2015							
10/13/2015							
10/14/2015							
10/15/2015							
3/22/2016					<0.005		
3/23/2016							
3/28/2016	<0.005	<0.005					
3/29/2016				<0.005			
3/30/2016			<0.005				
3/31/2016							
4/4/2016							
4/5/2016							
5/19/2016							
5/20/2016							
5/23/2016		<0.005					
5/24/2016			<0.005	<0.005			
5/25/2016	<0.005				<0.005		

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 12/7/2018 9:38 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50R (bg)	GWA-50 (bg)	GWC-8RR	GWC-6RZ	GWC-8Z	GWC-7Z	GWA-4RZ (bg)
5/26/2016							
5/27/2016							
5/31/2016						<0.005	
6/1/2016							
7/29/2016							
8/1/2016	<0.005	<0.005		<0.005			
8/2/2016			<0.005		<0.005	0.0031 (J)	
8/3/2016							
8/4/2016							
8/5/2016							
8/9/2016							
9/22/2016							
9/23/2016							
9/26/2016	<0.005	<0.005		<0.005	<0.005		
9/27/2016			<0.005			0.0028 (J)	
9/28/2016							
9/29/2016							
9/30/2016							
11/9/2016							
11/10/2016		<0.005					
11/11/2016	<0.005						
11/14/2016				<0.005			
11/18/2016							
11/21/2016					<0.005	0.0031 (J)	
11/22/2016			<0.005				
11/23/2016							
11/28/2016							
1/30/2017	<0.005	<0.005					
1/31/2017							
2/1/2017				<0.005		0.0031 (J)	
2/3/2017					<0.005		
2/6/2017			<0.005				
2/7/2017							
2/8/2017							
2/9/2017							
2/10/2017							
2/13/2017							
2/22/2017							0.0019 (J)
3/30/2017							
4/3/2017	<0.005						
4/6/2017			<0.005	<0.005		0.003 (J)	
4/7/2017		<0.005			<0.005		0.0008 (J)
4/10/2017							
4/11/2017							
4/12/2017							
6/9/2017							
6/12/2017	<0.005	<0.005					
6/13/2017				<0.005	<0.005	0.0024 (J)	
6/14/2017			<0.005				0.0006 (J)
6/15/2017							
6/16/2017							
7/12/2017							<0.005

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 12/7/2018 9:38 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50R (bg)	GWA-50 (bg)	GWC-8RR	GWC-6RZ	GWC-8Z	GWC-7Z	GWA-4RZ (bg)
7/14/2017						0.0029 (J)	
7/20/2017							0.0009 (J)
7/26/2017							
7/28/2017							<0.005
8/9/2017							0.0011 (J)
8/10/2017							
8/24/2017							0.0007 (J)
10/2/2017	<0.005	<0.005					
10/3/2017				<0.005	<0.005	0.0018 (J)	0.0005 (J)
10/4/2017			<0.005				
10/5/2017							
10/6/2017							
10/9/2017							
3/16/2018	<0.005	<0.005					
3/19/2018							
3/20/2018				<0.005	0.0006 (J)	0.0024 (J)	
3/21/2018			0.00077 (J)				0.0012 (J)
3/22/2018							
3/23/2018							
9/14/2018							
9/17/2018		<0.005		<0.005			
9/18/2018	<0.005		<0.005		<0.005	<0.005	<0.005
9/19/2018							
9/20/2018							

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 12/7/2018 9:38 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-11R	GWC-12	GWC-13R_13RZ	GWC-11	GWC-13	GWC-10	GWC-10R	GWC-6	GWC-6R
8/21/2007	0.01	0.023	0.0095	0.034	0.065	0.021	0.027		
8/22/2007								0.023	0.41
8/23/2007									
8/24/2007									
10/23/2007									
10/24/2007									
10/25/2007								0.018	0.43
11/1/2007	0.012	0.034	0.02	0.036	0.019	0.017	0.024		
11/2/2007									
11/17/2007									
11/18/2007	0.011			0.036					
11/19/2007		0.043	0.023		0.015				0.43
11/20/2007						0.1	0.022	0.1	
1/15/2008									
1/16/2008		0.13							
1/23/2008								0.031	0.45
1/30/2008	0.013			0.031 (J)		0.035	0.033 (J)		
1/31/2008			0.028		0.022				
3/5/2008		0.07	0.022	0.018	0.012				
3/6/2008	0.017					0.042	0.019		
3/10/2008									
3/11/2008								0.016	0.36
5/6/2008									
5/7/2008	0.0066		0.019	0.015					
5/8/2008							0.017		
5/12/2008					0.014	0.0087			
5/13/2008		0.039							
5/14/2008								0.024	0.39
12/2/2008									
12/4/2008									
12/5/2008									
12/11/2008								0.022	
12/12/2008			0.19 (O)						0.36
12/13/2008		0.13			0.11	0.12			
12/14/2008	0.013			0.12			0.02		
4/15/2009									
4/16/2009		0.13							
4/21/2009									
4/23/2009								0.012	
4/24/2009									0.36
4/28/2009					0.12				
4/29/2009	0.0098		0.14 (O)	0.0079		0.11	0.017		
10/6/2009									
10/7/2009									
10/8/2009									
10/9/2009								0.11	0.32
10/13/2009									
10/19/2009									
10/20/2009						0.016			
10/21/2009		0.033	0.034		0.023		0.021		
10/22/2009	0.013			0.007					
4/20/2010									

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 12/7/2018 9:38 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-11R	GWC-12	GWC-13R_13RZ	GWC-11	GWC-13	GWC-10	GWC-10R	GWC-6	GWC-6R
4/21/2010	0.0069			0.0074			0.019		
4/26/2010						0.016			
4/27/2010		0.11							
4/28/2010			0.11 (O)		0.019				
5/3/2010									
5/4/2010								0.096	0.24
9/28/2010				0.0068			0.018		
9/29/2010	0.0049					0.016			
9/30/2010									
10/4/2010									
10/5/2010		0.027			0.018				
10/6/2010			0.018						
10/11/2010								0.018	
10/12/2010									0.19
4/12/2011				0.0089			0.017		
4/13/2011	0.0074					0.012			
4/14/2011									
4/18/2011									
4/19/2011		0.025			0.019				
4/20/2011			0.015						
4/21/2011									
4/26/2011								0.01	
4/27/2011									
4/28/2011									0.18
10/4/2011	0.0062			0.012			0.022		
10/5/2011						0.014			
10/12/2011		0.025	0.019						
10/13/2011									
10/17/2011									
10/18/2011					0.025			0.012	0.22
10/19/2011									
4/3/2012				0.0169			0.0212		
4/4/2012	0.0091					0.017			
4/11/2012									
4/23/2012									
4/24/2012		0.027							
4/25/2012			0.0158		0.024				
4/30/2012									
5/1/2012									0.238
5/2/2012								0.0119	
10/2/2012		0.013	0.036		0.019				
10/3/2012	0.0089			0.03		0.015			
10/8/2012							0.019	0.01	
10/9/2012									0.22
10/10/2012									
4/2/2013		0.031	0.039		0.021				
4/3/2013	0.012			0.008		0.018	0.021		
4/8/2013									
4/9/2013									0.24
4/10/2013								0.013	
4/11/2013									
4/12/2013									

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 12/7/2018 9:38 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-11R	GWC-12	GWC-13R_13RZ	GWC-11	GWC-13	GWC-10	GWC-10R	GWC-6	GWC-6R
4/15/2013									
4/16/2013									
10/8/2013			0.016		0.027			0.014	
10/9/2013	0.0079	0.025		0.0093					
10/15/2013						0.018	0.022		
10/16/2013									
10/22/2013									
4/1/2014		0.023	0.017		0.023				
4/2/2014	0.0086			0.031					
4/9/2014						0.019	0.02		
4/10/2014									
4/11/2014									
4/14/2014								0.01	
4/21/2014									
4/22/2014									
4/23/2014									
9/30/2014									
10/1/2014			0.018		0.014				
10/2/2014	0.01	0.025		0.035		0.016	0.023		
10/3/2014								0.014	
10/4/2014									
3/30/2015									
3/31/2015			0.021						
4/1/2015	0.019	0.025		0.013	0.027			0.013	
4/2/2015						0.017	0.022		
4/3/2015									
5/26/2015									
6/18/2015									
7/2/2015									
10/6/2015									
10/7/2015									
10/8/2015									
10/9/2015								0.008	
10/10/2015						0.014			
10/11/2015	0.014			0.0079					
10/12/2015							0.028		
10/13/2015									
10/14/2015		0.027	0.013						
10/15/2015					0.033				
3/22/2016									
3/23/2016									
3/28/2016									
3/29/2016								0.0239 (J)	
3/30/2016									
3/31/2016						0.0179	0.0273		
4/4/2016	0.0176	0.0285	0.0222	0.0119	0.027				
4/5/2016									
5/19/2016									
5/20/2016									
5/23/2016									
5/24/2016								0.00902 (J)	
5/25/2016									

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 12/7/2018 9:38 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-11R	GWC-12	GWC-13R_13RZ	GWC-11	GWC-13	GWC-10	GWC-10R	GWC-6	GWC-6R
5/26/2016	0.0195			0.0127		0.0186	0.0305		
5/27/2016		0.0257							
5/31/2016					0.0283				
6/1/2016			0.0283						
7/29/2016									
8/1/2016								0.0091 (J)	
8/2/2016									
8/3/2016		0.0237		0.0121			0.0284		
8/4/2016	0.0151				0.0358				
8/5/2016						0.0138			
8/9/2016									
9/22/2016									
9/23/2016									
9/26/2016								0.0124	
9/27/2016									
9/28/2016	0.0132			0.0112		0.0153	0.036		
9/29/2016					0.0437				
9/30/2016		0.0279							
11/9/2016									
11/10/2016									
11/11/2016									
11/14/2016									
11/18/2016								0.0117	
11/21/2016									
11/22/2016	0.0186 (J)	0.0286 (J)		0.0155 (J)		0.0184 (J)	0.0341 (J)		
11/23/2016									
11/28/2016					0.0419 (J)				
1/30/2017									
1/31/2017									
2/1/2017								0.0086 (J)	
2/3/2017									
2/6/2017									
2/7/2017						0.0215	0.0309		
2/8/2017	0.015			0.0115					
2/9/2017					0.0472				
2/10/2017									
2/13/2017		0.0313							
2/22/2017			0.0561						
3/30/2017									
4/3/2017									
4/6/2017								0.0083 (J)	
4/7/2017									
4/10/2017	0.0172			<0.0117 (*)		0.0247	0.0235		
4/11/2017		0.0254	0.0748						
4/12/2017					0.0383				
6/9/2017									
6/12/2017									
6/13/2017								<0.01 (*)	
6/14/2017		0.0241				0.0227	0.0258		
6/15/2017	0.0167			0.0112					
6/16/2017			0.0661		0.0457				
7/12/2017			0.0932						

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 12/7/2018 9:38 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-11R	GWC-12	GWC-13R_13RZ	GWC-11	GWC-13	GWC-10	GWC-10R	GWC-6	GWC-6R
7/14/2017									
7/20/2017									
7/26/2017									
7/28/2017			0.0808						
8/9/2017									
8/10/2017			0.0743						
8/24/2017									
10/2/2017									
10/3/2017								0.0084 (J)	
10/4/2017	0.0156	0.0256		0.0093 (J)		0.0172	0.0234		
10/5/2017									
10/6/2017			0.0699						
10/9/2017					0.0406				
12/28/2017			0.082 (Y)						
3/16/2018									
3/19/2018								0.0079 (J)	
3/20/2018						0.021			
3/21/2018				0.012	0.032		0.022		
3/22/2018	0.017	0.024							
3/23/2018			0.086						
9/14/2018									
9/17/2018								0.0065 (J)	
9/18/2018	0.017	0.025		0.011		0.02	0.03		
9/19/2018					0.034				
9/20/2018			0.093						

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 12/7/2018 9:38 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-5	GWA-2R (bg)	GWA-3 (bg)	GWA-2 (bg)	GWC-15R	GWA-1 (bg)	GWC-9	GWC-14_14Z	GWC-15_15Z
8/21/2007									
8/22/2007									
8/23/2007	0.017	0.0098	0.015	0.0073	0.015	0.02	0.043		
8/24/2007								0.0089	0.017
10/23/2007						0.039			
10/24/2007		0.015		0.027					
10/25/2007	0.023								
11/1/2007							0.032		
11/2/2007			0.017		0.024			0.0091	0.011
11/17/2007					0.027			0.021	
11/18/2007		0.011	0.019	0.13		0.04 (J)			0.012 (J)
11/19/2007	0.024						0.049 (J)		
11/20/2007									
1/15/2008					0.022		0.12	0.013	0.088
1/16/2008									
1/23/2008	0.028								
1/30/2008						0.04			
1/31/2008		0.13 (O)	0.011	0.0077					
3/5/2008								0.11	
3/6/2008					0.021		0.075		
3/10/2008		0.0078				0.033			0.0077
3/11/2008	0.022		0.016	0.015					
5/6/2008				0.017					
5/7/2008					0.023			0.01	
5/8/2008									
5/12/2008	0.021								
5/13/2008		0.0077				0.03	0.055		0.0055
5/14/2008			0.013						
12/2/2008					0.024			0.12	0.0097
12/4/2008		0.0089		0.14					
12/5/2008			0.021			0.0087			
12/11/2008	0.022								
12/12/2008							0.16		
12/13/2008									
12/14/2008									
4/15/2009	0.13		0.012			0.023			
4/16/2009							0.15	0.13	
4/21/2009		0.013		0.018					
4/23/2009									
4/24/2009									
4/28/2009					0.031				0.0042
4/29/2009									
10/6/2009									
10/7/2009				0.014		0.15			
10/8/2009		0.008	0.011						
10/9/2009	0.026								
10/13/2009							0.05		
10/19/2009					0.027				
10/20/2009								0.05	0.0056
10/21/2009									
10/22/2009									
4/20/2010								0.019	

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 12/7/2018 9:38 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-5	GWA-2R (bg)	GWA-3 (bg)	GWA-2 (bg)	GWC-15R	GWA-1 (bg)	GWC-9	GWC-14_14Z	GWC-15_15Z
4/21/2010		0.01					0.039		
4/26/2010				0.017					
4/27/2010					0.051				0.0039
4/28/2010			0.0081						
5/3/2010						0.025			
5/4/2010	0.018								
9/28/2010		0.0036							
9/29/2010							0.033	0.017	
9/30/2010									
10/4/2010				0.011	0.028				
10/5/2010									0.0047
10/6/2010			0.0083						
10/11/2010									
10/12/2010	0.019					0.029			
4/12/2011		0.0084						0.014	
4/13/2011				0.026			0.033		
4/14/2011									
4/18/2011					0.026				
4/19/2011									0.0071
4/20/2011									
4/21/2011			0.0053						
4/26/2011									
4/27/2011						0.026			
4/28/2011	0.015								
10/4/2011		0.0066						0.017	
10/5/2011				0.021			0.035		
10/12/2011					0.026				0.0098
10/13/2011			0.0071						
10/17/2011						0.021			
10/18/2011									
10/19/2011	0.016								
4/3/2012		0.0625 (O)							
4/4/2012							0.0422	0.0182	
4/11/2012				0.0311					
4/23/2012					0.0224				
4/24/2012									
4/25/2012									0.0088
4/30/2012									
5/1/2012			0.0067						
5/2/2012	0.0191					0.0212			
10/2/2012									
10/3/2012									
10/8/2012						0.019	0.029		
10/9/2012	0.019	0.01	0.0055	0.018					
10/10/2012					0.024			0.048	0.0093
4/2/2013									
4/3/2013									
4/8/2013							0.042		
4/9/2013									
4/10/2013									
4/11/2013	0.013	0.021	0.0061						
4/12/2013						0.022			

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 12/7/2018 9:38 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-5	GWA-2R (bg)	GWA-3 (bg)	GWA-2 (bg)	GWC-15R	GWA-1 (bg)	GWC-9	GWC-14_14Z	GWC-15_15Z
4/15/2013				0.056	0.029			0.03	
4/16/2013									0.0098
10/8/2013									
10/9/2013							0.04		
10/15/2013				0.018					
10/16/2013	0.017	0.033	0.0062			0.02			
10/22/2013					0.022			0.033	0.0097
4/1/2014									
4/2/2014									
4/9/2014							0.038		
4/10/2014		0.021							
4/11/2014						0.018			
4/14/2014									
4/21/2014					0.025			0.033	0.008
4/22/2014				0.035					
4/23/2014	0.015		0.0047						
9/30/2014		0.0062		0.0041	0.022	0.013	0.038	0.027	0.0074
10/1/2014									
10/2/2014									
10/3/2014	0.02								
10/4/2014			0.0055						
3/30/2015		0.011		0.036		0.021			
3/31/2015	0.014		0.0076						
4/1/2015									
4/2/2015							0.039		
4/3/2015					0.022			0.13	0.0076
5/26/2015									
6/18/2015									
7/2/2015									
10/6/2015									0.0088
10/7/2015					0.023			0.047	
10/8/2015									
10/9/2015									
10/10/2015							0.038 (D)		
10/11/2015									
10/12/2015	0.017		0.0049						
10/13/2015		0.0065		0.0048		0.012			
10/14/2015									
10/15/2015									
3/22/2016						0.0182			
3/23/2016		0.0206	0.00742 (J)	0.0271					
3/28/2016	0.0173								
3/29/2016									
3/30/2016							0.0412		
3/31/2016									
4/4/2016									
4/5/2016					0.0308			0.0279	0.00153 (J)
5/19/2016		0.0109				0.0193			
5/20/2016				0.0206					
5/23/2016			0.00532 (J)						
5/24/2016									
5/25/2016	0.0175								

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 12/7/2018 9:38 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-5	GWA-2R (bg)	GWA-3 (bg)	GWA-2 (bg)	GWC-15R	GWA-1 (bg)	GWC-9	GWC-14_14Z	GWC-15_15Z
5/26/2016							0.0357		
5/27/2016									
5/31/2016					0.0255				0.00589 (J)
6/1/2016								0.0249	
7/29/2016		0.007 (J)	0.0053 (J)	0.0275		0.0174			
8/1/2016	0.0145								
8/2/2016									
8/3/2016									
8/4/2016					0.0227				
8/5/2016							0.03		
8/9/2016								0.0268	
9/22/2016		0.0071 (J)	0.0058 (J)						
9/23/2016				0.0384		0.0168			
9/26/2016									
9/27/2016	0.0139								
9/28/2016							0.0308		
9/29/2016					0.0258				
9/30/2016									
11/9/2016				0.0266		0.0171			
11/10/2016		0.0052 (J)	0.0051 (J)						
11/11/2016	0.0135								
11/14/2016									
11/18/2016									
11/21/2016							0.0356 (J)		
11/22/2016									
11/23/2016					0.0263 (J)				<0.05 (*)
11/28/2016								<0.05 (*)	
1/30/2017						0.019			
1/31/2017	0.0153	0.0076 (J)	0.0054 (J)	0.0094 (J)					
2/1/2017									
2/3/2017									
2/6/2017							0.0391		
2/7/2017									
2/8/2017									
2/9/2017								0.0119	
2/10/2017					0.025				0.0233
2/13/2017									
2/22/2017									
3/30/2017			0.0049 (J)	0.0262		0.0184			
4/3/2017	0.0135	0.007 (J)							
4/6/2017							0.0402		
4/7/2017									
4/10/2017									
4/11/2017								0.0084 (D)	0.0162
4/12/2017					0.026				
6/9/2017		0.0074 (J)				0.0174			
6/12/2017	0.0154		<0.01 (*)	0.0288					
6/13/2017							0.0394		
6/14/2017								<0.01 (*)	
6/15/2017					0.0244				0.0148
6/16/2017									
7/12/2017								0.0105	0.0166

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 12/7/2018 9:38 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-5	GWA-2R (bg)	GWA-3 (bg)	GWA-2 (bg)	GWC-15R	GWA-1 (bg)	GWC-9	GWC-14_14Z	GWC-15_15Z
7/14/2017									
7/20/2017									
7/26/2017									0.0146
7/28/2017									
8/9/2017									
8/10/2017									
8/24/2017									
10/2/2017		0.0085 (J)		0.0048 (J)		0.0167			
10/3/2017	0.0138						0.0381		
10/4/2017			0.0047 (J)						
10/5/2017								0.0099 (J)	
10/6/2017					0.0254				0.015
10/9/2017									
12/28/2017									
3/16/2018		0.015				0.016			
3/19/2018	0.013		0.0047 (J)	0.037					
3/20/2018							0.039		
3/21/2018									
3/22/2018								0.011	
3/23/2018					0.021				0.013
9/14/2018		0.0095 (J)		0.0059 (J)					
9/17/2018	0.014		0.0041 (J)			0.015 (D)			
9/18/2018							0.037		
9/19/2018					0.02			0.013	0.015
9/20/2018									

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 12/7/2018 9:38 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50 (bg)	GWA-50R (bg)	GWC-8RR	GWC-8Z	GWC-6RZ	GWC-7Z	GWA-4RZ (bg)
8/21/2007							
8/22/2007							
8/23/2007							
8/24/2007							
10/23/2007							
10/24/2007							
10/25/2007							
11/1/2007							
11/2/2007							
11/17/2007							
11/18/2007							
11/19/2007							
11/20/2007							
1/15/2008							
1/16/2008							
1/23/2008							
1/30/2008							
1/31/2008							
3/5/2008							
3/6/2008							
3/10/2008							
3/11/2008							
5/6/2008							
5/7/2008							
5/8/2008							
5/12/2008							
5/13/2008							
5/14/2008							
12/2/2008							
12/4/2008							
12/5/2008							
12/11/2008							
12/12/2008	0.098	0.016					
12/13/2008							
12/14/2008							
4/15/2009							
4/16/2009							
4/21/2009							
4/23/2009	0.013	0.14 (O)					
4/24/2009							
4/28/2009							
4/29/2009							
10/6/2009	0.011	0.12 (O)					
10/7/2009							
10/8/2009							
10/9/2009							
10/13/2009							
10/19/2009							
10/20/2009							
10/21/2009							
10/22/2009							
4/20/2010							

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 12/7/2018 9:38 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50 (bg)	GWA-50R (bg)	GWC-8RR	GWC-8Z	GWC-6RZ	GWC-7Z	GWA-4RZ (bg)
4/21/2010							
4/26/2010							
4/27/2010	0.016						
4/28/2010							
5/3/2010		0.12 (O)					
5/4/2010							
9/28/2010							
9/29/2010							
9/30/2010	0.013						
10/4/2010							
10/5/2010							
10/6/2010							
10/11/2010		0.019					
10/12/2010							
4/12/2011							
4/13/2011							
4/14/2011	0.011						
4/18/2011							
4/19/2011							
4/20/2011							
4/21/2011							
4/26/2011							
4/27/2011		0.02					
4/28/2011							
10/4/2011							
10/5/2011	0.015						
10/12/2011							
10/13/2011							
10/17/2011							
10/18/2011			0.015				
10/19/2011		0.014					
4/3/2012							
4/4/2012							
4/11/2012	0.0102						
4/23/2012							
4/24/2012							
4/25/2012							
4/30/2012			0.0192				
5/1/2012		0.0199					
5/2/2012							
10/2/2012	0.0091	0.015					
10/3/2012			0.017				
10/8/2012							
10/9/2012							
10/10/2012							
4/2/2013							
4/3/2013							
4/8/2013			0.018				
4/9/2013	0.01						
4/10/2013		0.016					
4/11/2013							
4/12/2013							

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 12/7/2018 9:38 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50 (bg)	GWA-50R (bg)	GWC-8RR	GWC-8Z	GWC-6RZ	GWC-7Z	GWA-4RZ (bg)
4/15/2013							
4/16/2013							
10/8/2013							
10/9/2013			0.021				
10/15/2013	0.0098						
10/16/2013		0.017					
10/22/2013							
4/1/2014							
4/2/2014							
4/9/2014							
4/10/2014	0.011		0.019				
4/11/2014							
4/14/2014							
4/21/2014							
4/22/2014		0.017					
4/23/2014							
9/30/2014							
10/1/2014	0.0033	0.013					
10/2/2014			0.014				
10/3/2014							
10/4/2014							
3/30/2015	0.0043	0.014					
3/31/2015							
4/1/2015							
4/2/2015							
4/3/2015			0.014				
5/26/2015				0.06	0.016		
6/18/2015				0.047 (D)	0.015 (D)		
7/2/2015				0.04	0.014		
10/6/2015							
10/7/2015							
10/8/2015			0.024	0.032			
10/9/2015					0.012		
10/10/2015							
10/11/2015	0.0038	0.0093					
10/12/2015							
10/13/2015							
10/14/2015							
10/15/2015							
3/22/2016				0.0263			
3/23/2016							
3/28/2016	0.0133	0.0155					
3/29/2016					0.000768 (J)		
3/30/2016			0.0163				
3/31/2016							
4/4/2016							
4/5/2016							
5/19/2016							
5/20/2016							
5/23/2016	0.0109						
5/24/2016			0.0137		0.00847 (J)		
5/25/2016		0.0143		0.0178			

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 12/7/2018 9:38 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50 (bg)	GWA-50R (bg)	GWC-8RR	GWC-8Z	GWC-6RZ	GWC-7Z	GWA-4RZ (bg)
5/26/2016							
5/27/2016							
5/31/2016						0.0178	
6/1/2016							
7/29/2016							
8/1/2016	0.0058 (J)	0.0129			0.0086 (J)		
8/2/2016			0.0152	0.0265		0.0394	
8/3/2016							
8/4/2016							
8/5/2016							
8/9/2016							
9/22/2016							
9/23/2016							
9/26/2016	0.0092 (J)	0.0177		0.0267	0.0086 (J)		
9/27/2016			0.0147			0.032	
9/28/2016							
9/29/2016							
9/30/2016							
11/9/2016							
11/10/2016	0.0083 (J)						
11/11/2016		0.0117					
11/14/2016					0.0083 (J)		
11/18/2016							
11/21/2016				0.0309 (J)		0.0316 (J)	
11/22/2016			0.0174 (J)				
11/23/2016							
11/28/2016							
1/30/2017	0.0117	0.0113					
1/31/2017							
2/1/2017					0.0096 (J)	0.0264	
2/3/2017				0.0289			
2/6/2017			0.0144				
2/7/2017							
2/8/2017							
2/9/2017							
2/10/2017							
2/13/2017							
2/22/2017							0.0273
3/30/2017							
4/3/2017		0.0166					
4/6/2017			0.0149		0.0087 (J)	0.0245	
4/7/2017	0.0109			0.029			0.024
4/10/2017							
4/11/2017							
4/12/2017							
6/9/2017							
6/12/2017	<0.01 (*)	0.017					
6/13/2017				0.027	<0.01 (*)	0.0247	
6/14/2017			0.0139				0.027
6/15/2017							
6/16/2017							
7/12/2017							0.027

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 12/7/2018 9:38 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50 (bg)	GWA-50R (bg)	GWC-8RR	GWC-8Z	GWC-6RZ	GWC-7Z	GWA-4RZ (bg)
7/14/2017						0.0245	
7/20/2017							0.0304
7/26/2017							
7/28/2017							0.0269
8/9/2017							0.0254
8/10/2017							
8/24/2017							0.0285
10/2/2017	0.0122	0.0157					
10/3/2017				0.0292	0.0098 (J)	0.0218	0.0294
10/4/2017			0.015				
10/5/2017							
10/6/2017							
10/9/2017							
12/28/2017							
3/16/2018	0.0084 (J)	0.012					
3/19/2018							
3/20/2018				0.029	0.0088 (J)	0.024	
3/21/2018			0.015				0.03
3/22/2018							
3/23/2018							
9/14/2018							
9/17/2018	0.01				0.0082 (J)		
9/18/2018		0.0099 (J)	0.014	0.025		0.027	0.032
9/19/2018							
9/20/2018							

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 12/7/2018 9:38 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-15_15Z	GWC-9	GWA-2 (bg)	GWC-15R	GWA-1 (bg)	GWC-14_14Z	GWA-2R (bg)	GWA-50R (bg)	GWA-50 (bg)
9/30/2014	<0.0013	0.00013 (J)	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013		
10/1/2014								<0.0013	<0.0013
10/2/2014									
10/3/2014									
10/4/2014									
3/30/2015			<0.0013		0.00029 (J)		<0.0013	0.0002 (J)	<0.0013
3/31/2015									
4/1/2015									
4/2/2015		0.00028 (J)							
4/3/2015	<0.0013			<0.0013		<0.0013			
5/26/2015									
6/18/2015									
7/2/2015									
10/6/2015	<0.0013								
10/7/2015				<0.0013		<0.0013			
10/8/2015									
10/9/2015									
10/10/2015		0.000245 (JD)							
10/11/2015								<0.0013	<0.0013
10/12/2015									
10/13/2015			<0.0013		<0.0013		<0.0013		
10/14/2015									
10/15/2015									
3/22/2016					<0.003				
3/23/2016			<0.003				<0.003		
3/28/2016								<0.003	<0.003
3/29/2016									
3/30/2016		<0.003							
3/31/2016									
4/4/2016									
4/5/2016	<0.003			<0.003		<0.003			
5/19/2016					<0.003		<0.003		
5/20/2016			<0.003						
5/23/2016									<0.003
5/24/2016									
5/25/2016								<0.003	
5/26/2016		<0.003							
5/27/2016									
5/31/2016	<0.003			<0.003					
6/1/2016						<0.003			
7/29/2016			<0.003		<0.003		<0.003		
8/1/2016								<0.003	<0.003
8/2/2016									
8/3/2016									
8/4/2016				<0.003					
8/5/2016		<0.003							
8/9/2016						<0.003			
9/22/2016							<0.003		
9/23/2016			<0.003		<0.003				
9/26/2016								<0.003	<0.003
9/27/2016									
9/28/2016		<0.003							

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 12/7/2018 9:38 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-15_15Z	GWC-9	GWA-2 (bg)	GWC-15R	GWA-1 (bg)	GWC-14_14Z	GWA-2R (bg)	GWA-50R (bg)	GWA-50 (bg)
9/29/2016				<0.003					
9/30/2016									
11/9/2016			<0.003		<0.003 (*)				
11/10/2016							<0.003		<0.003
11/11/2016								<0.003	
11/14/2016									
11/18/2016									
11/21/2016		<0.003							
11/22/2016									
11/23/2016	<0.003			<0.003					
11/28/2016						<0.003			
1/30/2017					<0.003			<0.003	<0.003
1/31/2017			<0.003				<0.003		
2/1/2017									
2/3/2017									
2/6/2017		0.0002 (J)							
2/7/2017									
2/8/2017									
2/9/2017						0.0001 (J)			
2/10/2017	<0.003			<0.003					
2/13/2017									
2/22/2017									
3/30/2017			<0.003		<0.003				
4/3/2017							<0.003	<0.003	
4/6/2017		0.0002 (J)							
4/7/2017									<0.003
4/10/2017									
4/11/2017	<0.003					<0.003			
4/12/2017				<0.003					
6/9/2017					<0.003		<0.003		
6/12/2017			<0.003					<0.003	<0.003
6/13/2017		0.0002 (J)							
6/14/2017						<0.003			
6/15/2017	<0.003			<0.003					
6/16/2017									
7/12/2017	<0.003					<0.003			
7/14/2017									
7/20/2017									
7/26/2017	<0.003								
7/28/2017									
8/9/2017									
8/10/2017									
8/24/2017									
10/2/2017			<0.003		<0.003		<0.003	<0.003	<0.003
10/3/2017		0.0001 (J)							
10/4/2017									
10/5/2017						<0.003			
10/6/2017	<0.003			<0.003					
10/9/2017									
3/16/2018					<0.003		<0.003	<0.003	<0.003
3/19/2018			<0.003						
3/20/2018		0.00022 (J)							

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 12/7/2018 9:38 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-15_15Z	GWC-9	GWA-2 (bg)	GWC-15R	GWA-1 (bg)	GWC-14_14Z	GWA-2R (bg)	GWA-50R (bg)	GWA-50 (bg)
3/21/2018									
3/22/2018						0.00103 (D)			
3/23/2018	<0.003			<0.003					
9/14/2018			<0.003				<0.003		
9/17/2018					<0.003 (D)				<0.003
9/18/2018		0.00014 (JD)						<0.003	
9/19/2018	<0.003			<0.003		0.00014 (J)			
9/20/2018									

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 12/7/2018 9:38 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-13	GWC-13R_13RZ	GWC-12	GWC-11R	GWC-10	GWC-10R	GWC-11	GWC-8RR	GWC-6
9/30/2014									
10/1/2014	<0.0013	<0.0013							
10/2/2014			<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	
10/3/2014									0.00024 (J)
10/4/2014									
3/30/2015									
3/31/2015		<0.0013							
4/1/2015	0.00022 (J)		<0.0013	<0.0013			<0.0013		0.00021 (J)
4/2/2015					0.00015 (J)	<0.0013			
4/3/2015								<0.0013	
5/26/2015									
6/18/2015									
7/2/2015									
10/6/2015									
10/7/2015									
10/8/2015								0.00025 (J)	
10/9/2015									<0.0013
10/10/2015					8.5E-05 (J)				
10/11/2015				<0.0013			<0.0013		
10/12/2015						<0.0013			
10/13/2015									
10/14/2015		<0.0013	<0.0013						
10/15/2015	0.00018 (J)								
3/22/2016									
3/23/2016									
3/28/2016									
3/29/2016									<0.003
3/30/2016								<0.003	
3/31/2016					<0.003	<0.003			
4/4/2016	<0.003	<0.003 (D)	<0.003	<0.003			<0.003		
4/5/2016									
5/19/2016									
5/20/2016									
5/23/2016									
5/24/2016								<0.003	<0.003
5/25/2016									
5/26/2016				<0.003	<0.003	<0.003	<0.003		
5/27/2016			<0.003						
5/31/2016	<0.003								
6/1/2016		<0.003 (D)							
7/29/2016									
8/1/2016									<0.003
8/2/2016								<0.003	
8/3/2016			<0.003			<0.003	<0.003		
8/4/2016	<0.003			<0.003					
8/5/2016					<0.003				
8/9/2016									
9/22/2016									
9/23/2016									
9/26/2016									<0.003
9/27/2016								<0.003	
9/28/2016				<0.003	<0.003	<0.003	<0.003		

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 12/7/2018 9:38 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-13	GWC-13R_13RZ	GWC-12	GWC-11R	GWC-10	GWC-10R	GWC-11	GWC-8RR	GWC-6
9/29/2016	9E-05 (J)								
9/30/2016			<0.003						
11/9/2016									
11/10/2016									
11/11/2016									
11/14/2016									
11/18/2016									<0.003
11/21/2016									
11/22/2016			<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	
11/23/2016									
11/28/2016	<0.003								
1/30/2017									
1/31/2017									
2/1/2017									<0.003
2/3/2017									
2/6/2017								<0.003	
2/7/2017					<0.003	<0.003			
2/8/2017				<0.003			<0.003		
2/9/2017	<0.003								
2/10/2017									
2/13/2017			<0.003						
2/22/2017		<0.003							
3/30/2017									
4/3/2017									
4/6/2017								<0.003	<0.003
4/7/2017									
4/10/2017				<0.003	<0.003	<0.003	<0.003		
4/11/2017		<0.003	<0.003						
4/12/2017	0.0001 (J)								
6/9/2017									
6/12/2017									
6/13/2017									<0.003
6/14/2017			<0.003		<0.003	<0.003		<0.003	
6/15/2017				<0.003			<0.003		
6/16/2017	9E-05 (J)	<0.003							
7/12/2017		<0.003							
7/14/2017									
7/20/2017									
7/26/2017									
7/28/2017		<0.003							
8/9/2017									
8/10/2017		<0.003							
8/24/2017									
10/2/2017									
10/3/2017									<0.003
10/4/2017			<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	
10/5/2017									
10/6/2017		<0.003							
10/9/2017	<0.003								
3/16/2018									
3/19/2018									6.6E-05 (J)
3/20/2018					0.00019 (J)				

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 12/7/2018 9:38 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-13	GWC-13R_13RZ	GWC-12	GWC-11R	GWC-10	GWC-10R	GWC-11	GWC-8RR	GWC-6
3/21/2018	<0.003					<0.003	<0.003	<0.003	
3/22/2018			<0.003	<0.003					
3/23/2018		<0.003							
9/14/2018									
9/17/2018									<0.003
9/18/2018			<0.003	<0.003	5.4E-05 (J)	<0.003	<0.003	<0.003	
9/19/2018	7E-05 (J)								
9/20/2018		<0.003							

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 12/7/2018 9:38 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-5	GWA-3 (bg)	GWC-8Z	GWC-6RZ	GWC-7Z	GWA-4RZ (bg)
9/30/2014						
10/1/2014						
10/2/2014						
10/3/2014	0.00073 (J)					
10/4/2014		<0.0013				
3/30/2015						
3/31/2015	0.00057 (J)	<0.0013				
4/1/2015						
4/2/2015						
4/3/2015						
5/26/2015			<0.0013	8.8E-05 (J)		
6/18/2015			0.0013 (D)	<0.0013 (D)		
7/2/2015			<0.0013	<0.0013		
10/6/2015						
10/7/2015						
10/8/2015			<0.0013			
10/9/2015				<0.0013		
10/10/2015						
10/11/2015						
10/12/2015	0.00054 (J)	<0.0013				
10/13/2015						
10/14/2015						
10/15/2015						
3/22/2016			<0.003			
3/23/2016		<0.003				
3/28/2016	<0.003					
3/29/2016				<0.003		
3/30/2016						
3/31/2016						
4/4/2016						
4/5/2016						
5/19/2016						
5/20/2016						
5/23/2016		<0.003				
5/24/2016				<0.003		
5/25/2016	<0.003		<0.003			
5/26/2016						
5/27/2016						
5/31/2016					<0.003	
6/1/2016						
7/29/2016		<0.003				
8/1/2016	0.0006 (J)			<0.003		
8/2/2016			<0.003		<0.003	
8/3/2016						
8/4/2016						
8/5/2016						
8/9/2016						
9/22/2016		<0.003				
9/23/2016						
9/26/2016			<0.003	<0.003		
9/27/2016	0.0007 (J)				<0.003	
9/28/2016						

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 12/7/2018 9:38 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-5	GWA-3 (bg)	GWC-8Z	GWC-6RZ	GWC-7Z	GWA-4RZ (bg)
9/29/2016						
9/30/2016						
11/9/2016						
11/10/2016		<0.003				
11/11/2016	0.0007 (J)					
11/14/2016				<0.003		
11/18/2016						
11/21/2016			<0.003		<0.003	
11/22/2016						
11/23/2016						
11/28/2016						
1/30/2017						
1/31/2017	0.0007 (J)	<0.003				
2/1/2017				<0.003	<0.003	
2/3/2017			<0.003			
2/6/2017						
2/7/2017						
2/8/2017						
2/9/2017						
2/10/2017						
2/13/2017						
2/22/2017						<0.003
3/30/2017		<0.003				
4/3/2017	0.0007 (J)					
4/6/2017				<0.003	<0.003	
4/7/2017			<0.003			<0.003
4/10/2017						
4/11/2017						
4/12/2017						
6/9/2017						
6/12/2017	0.0004 (J)	<0.003				
6/13/2017			<0.003	<0.003	<0.003	
6/14/2017						<0.003
6/15/2017						
6/16/2017						
7/12/2017						<0.003
7/14/2017					<0.003	
7/20/2017						<0.003
7/26/2017						
7/28/2017						<0.003
8/9/2017						<0.003
8/10/2017						
8/24/2017						<0.003
10/2/2017						
10/3/2017	0.0006 (J)		<0.003	<0.003	<0.003	<0.003
10/4/2017		<0.003				
10/5/2017						
10/6/2017						
10/9/2017						
3/16/2018						
3/19/2018	0.0005 (J)	<0.003				
3/20/2018			<0.003	6.8E-05 (J)	<0.003	

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 12/7/2018 9:38 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-5	GWA-3 (bg)	GWC-8Z	GWC-6RZ	GWC-7Z	GWA-4RZ (bg)
3/21/2018						<0.003
3/22/2018						
3/23/2018						
9/14/2018						
9/17/2018	0.00053 (J)	<0.003		5.8E-05 (J)		
9/18/2018			<0.003		<0.003	<0.003
9/19/2018						
9/20/2018						

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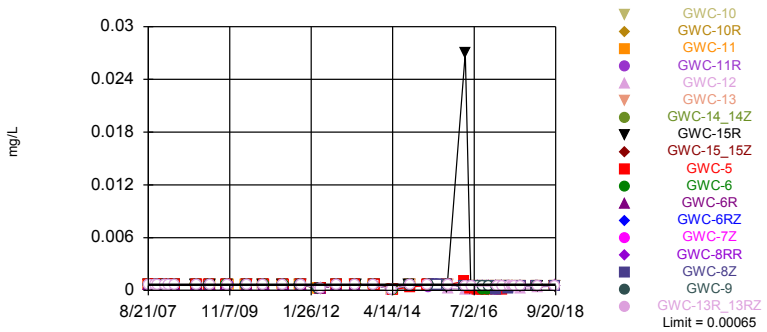
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 191 background values. 98.43% NDs. Annual per-constituent alpha = 0.00184. Individual comparison alpha = 0.00005418 (1 of 2). Comparing 18 points to limit.

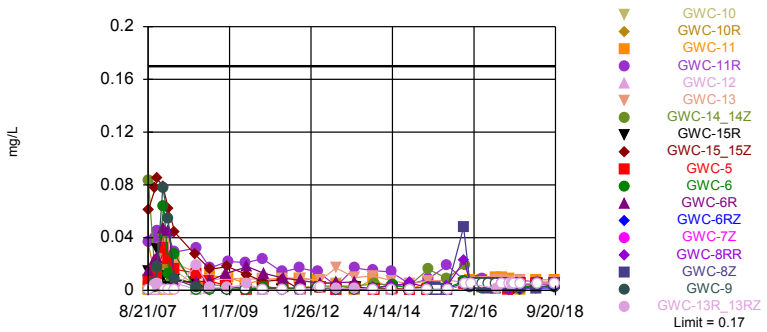
Constituent: Cadmium Analysis Run 12/7/2018 9:20 AM View: Cells 1&2 metals OB and BR combined
Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

Sanitas™ v.9.5.32 Sanitas software licensed to AMEC. UG
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 190 background values. 74.21% NDs. Annual per-constituent alpha = 0.00186. Individual comparison alpha = 0.00005474 (1 of 2). Comparing 18 points to limit.

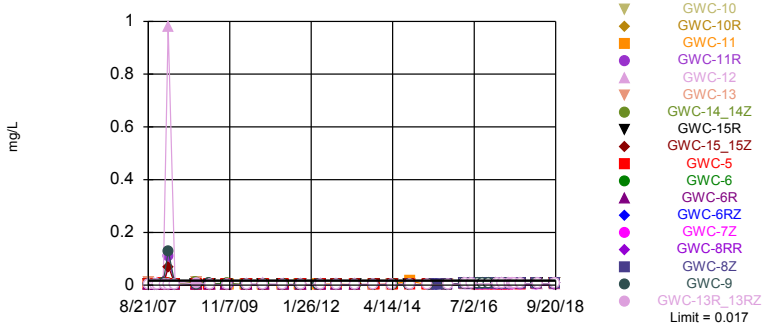
Constituent: Chromium Analysis Run 12/7/2018 9:21 AM View: Cells 1&2 metals OB and BR combined
Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

Sanitas™ v.9.5.32 Sanitas software licensed to AMEC. UG
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 190 background values. 77.37% NDs. Annual per-constituent alpha = 0.00186. Individual comparison alpha = 0.00005474 (1 of 2). Comparing 18 points to limit.

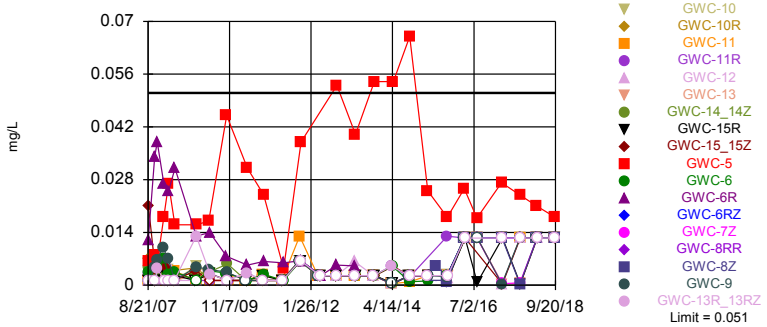
Constituent: Cobalt Analysis Run 12/7/2018 9:21 AM View: Cells 1&2 metals OB and BR combined
Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

Sanitas™ v.9.5.32 Sanitas software licensed to AMEC. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 152 background values. 39.47% NDs. Annual per-constituent alpha = 0.002899. Individual comparison alpha = 0.00008537 (1 of 2). Comparing 18 points to limit.

Constituent: Copper Analysis Run 12/7/2018 9:22 AM View: Cells 1&2 metals OB and BR combined
Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 12/7/2018 9:39 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-11	GWC-10R	GWC-13	GWC-12	GWC-11R	GWC-10	GWC-13R_13RZ	GWC-6	GWC-6R
8/21/2007	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013		
8/22/2007								<0.0013	<0.0013
8/23/2007									
8/24/2007									
10/23/2007									
10/24/2007									
10/25/2007								<0.0013	<0.0013
11/1/2007	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013		
11/2/2007									
11/17/2007									
11/18/2007	<0.0013				<0.0013				
11/19/2007			<0.0013	<0.0013			<0.0013		<0.0013
11/20/2007		<0.0013				<0.0013		<0.0013	
1/15/2008									
1/16/2008				<0.0013					
1/23/2008								<0.0013	<0.0013
1/30/2008	<0.0013	<0.0013			<0.0013	<0.0013			
1/31/2008			<0.0013				<0.0013		
3/5/2008	<0.0013		<0.0013	<0.0013			<0.0013		
3/6/2008		<0.0013			<0.0013	<0.0013			
3/10/2008									
3/11/2008								<0.0013	<0.0013
5/6/2008									
5/7/2008	<0.0013				<0.0013		<0.0013		
5/8/2008		<0.0013							
5/12/2008			<0.0013			<0.0013			
5/13/2008				<0.0013					
5/14/2008								<0.0013	<0.0013
12/2/2008									
12/4/2008									
12/5/2008									
12/11/2008								<0.0013	
12/12/2008							<0.0013		<0.0013
12/13/2008			<0.0013	<0.0013		<0.0013			
12/14/2008	<0.0013	<0.0013			<0.0013				
4/15/2009									
4/16/2009				<0.0013					
4/21/2009									
4/23/2009								<0.0013	
4/24/2009									<0.0013
4/28/2009			<0.0013						
4/29/2009	<0.0013	<0.0013			<0.0013	<0.0013	<0.0013		
10/6/2009									
10/7/2009									
10/8/2009									
10/9/2009								<0.0013	<0.0013
10/13/2009									
10/19/2009									
10/20/2009						<0.0013			
10/21/2009		<0.0013	<0.0013	<0.0013			<0.0013		
10/22/2009	<0.0013				<0.0013				
4/20/2010									

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 12/7/2018 9:39 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-11	GWC-10R	GWC-13	GWC-12	GWC-11R	GWC-10	GWC-13R_13RZ	GWC-6	GWC-6R
4/21/2010	<0.0013	<0.0013			<0.0013				
4/26/2010						<0.0013			
4/27/2010				<0.0013					
4/28/2010			<0.0013				<0.0013		
5/3/2010									
5/4/2010								<0.0013	<0.0013
9/28/2010	<0.0013	<0.0013							
9/29/2010					<0.0013	<0.0013			
9/30/2010									
10/4/2010									
10/5/2010			<0.0013	<0.0013					
10/6/2010							<0.0013		
10/11/2010								<0.0013	
10/12/2010									<0.0013
4/12/2011	<0.0013	<0.0013							
4/13/2011					<0.0013	<0.0013			
4/14/2011									
4/18/2011									
4/19/2011			<0.0013	<0.0013					
4/20/2011							<0.0013		
4/21/2011									
4/26/2011								<0.0013	
4/27/2011									
4/28/2011									<0.0013
10/4/2011	<0.0013	<0.0013			<0.0013				
10/5/2011						<0.0013			
10/12/2011				<0.0013			<0.0013		
10/13/2011									
10/17/2011									
10/18/2011			<0.0013					<0.0013	<0.0013
10/19/2011									
4/3/2012	<0.0005	<0.0005							
4/4/2012					<0.0005	<0.0005			
4/11/2012									
4/23/2012									
4/24/2012				<0.0005					
4/25/2012			<0.0005				<0.0005		
4/30/2012									
5/1/2012									<0.0005
5/2/2012								<0.0005	
10/2/2012			<0.0013	<0.0013			<0.0013		
10/3/2012	<0.0013				<0.0013	<0.0013			
10/8/2012		<0.0013						<0.0013	
10/9/2012									<0.0013
10/10/2012									
4/2/2013			<0.0013	<0.0013			<0.0013		
4/3/2013	<0.0013	<0.0013			<0.0013	<0.0013			
4/8/2013									
4/9/2013									<0.0013
4/10/2013								<0.0013	
4/11/2013									
4/12/2013									

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 12/7/2018 9:39 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-11	GWC-10R	GWC-13	GWC-12	GWC-11R	GWC-10	GWC-13R_13RZ	GWC-6	GWC-6R
4/15/2013									
4/16/2013									
10/8/2013			<0.0013				<0.0013	<0.0013	
10/9/2013	<0.0013			<0.0013	<0.0013				
10/15/2013		<0.0013				<0.0013			
10/16/2013									
10/22/2013									
4/1/2014			<0.00025	<0.00025			<0.00025		
4/2/2014	<0.00025				<0.00025				
4/9/2014		<0.00025				<0.00025			
4/10/2014									
4/11/2014									
4/14/2014								<0.00025	
4/21/2014									
4/22/2014									
4/23/2014									
9/30/2014									
10/1/2014			<0.0013				<0.0013		
10/2/2014	<0.0013	<0.0013		<0.0013	<0.0013	<0.0013			
10/3/2014								<0.0013	
10/4/2014									
3/30/2015									
3/31/2015							<0.0013		
4/1/2015	<0.0013		<0.0013	<0.0013	0.00033 (J)			<0.0013	
4/2/2015		<0.0013				<0.0013			
4/3/2015									
5/26/2015									
6/18/2015									
7/2/2015									
10/6/2015									
10/7/2015									
10/8/2015									
10/9/2015								<0.0013	
10/10/2015						<0.0013			
10/11/2015	<0.0013				0.00056 (J)				
10/12/2015		<0.0013							
10/13/2015									
10/14/2015				0.00025 (J)			<0.0013		
10/15/2015			<0.0013						
3/22/2016									
3/23/2016									
3/28/2016									
3/29/2016								<0.001	
3/30/2016									
3/31/2016		<0.001				<0.001			
4/4/2016	<0.001		<0.001	0.000136 (J)	<0.001		<0.001		
4/5/2016									
5/19/2016									
5/20/2016									
5/23/2016									
5/24/2016								<0.001	
5/25/2016									

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 12/7/2018 9:39 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-11	GWC-10R	GWC-13	GWC-12	GWC-11R	GWC-10	GWC-13R_13RZ	GWC-6	GWC-6R
5/26/2016	<0.001	<0.001			<0.001	<0.001			
5/27/2016				0.000131 (J)					
5/31/2016			<0.001						
6/1/2016							<0.001		
7/29/2016									
8/1/2016								<0.001	
8/2/2016									
8/3/2016	<0.001	<0.001		<0.001					
8/4/2016			<0.001		<0.001				
8/5/2016						<0.001			
8/9/2016									
9/22/2016									
9/23/2016									
9/26/2016								8E-05 (J)	
9/27/2016									
9/28/2016	<0.001	0.0002 (J)			<0.001	<0.001			
9/29/2016			<0.001						
9/30/2016				9E-05 (J)					
11/9/2016									
11/10/2016									
11/11/2016									
11/14/2016									
11/18/2016								8E-05 (J)	
11/21/2016									
11/22/2016	<0.001	<0.001		<0.001	<0.001	<0.001			
11/23/2016									
11/28/2016			<0.001						
1/30/2017									
1/31/2017									
2/1/2017								<0.001	
2/3/2017									
2/6/2017									
2/7/2017		<0.001				<0.001			
2/8/2017	<0.001				<0.001				
2/9/2017			<0.001						
2/10/2017									
2/13/2017				0.0001 (J)					
2/22/2017							<0.001		
3/30/2017									
4/3/2017									
4/6/2017								<0.001	
4/7/2017									
4/10/2017	<0.001	<0.001			<0.001	<0.001			
4/11/2017				0.0003 (J)			<0.001		
4/12/2017			<0.001						
6/9/2017									
6/12/2017									
6/13/2017								<0.001	
6/14/2017		<0.001		0.0003 (J)		<0.001			
6/15/2017	<0.001				<0.001				
6/16/2017			<0.001				<0.001		
7/12/2017							<0.001		

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 12/7/2018 9:39 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-11	GWC-10R	GWC-13	GWC-12	GWC-11R	GWC-10	GWC-13R_13RZ	GWC-6	GWC-6R
7/14/2017									
7/20/2017									
7/26/2017									
7/28/2017							<0.001		
8/9/2017									
8/10/2017							<0.001		
8/24/2017									
10/2/2017									
10/3/2017								<0.001	
10/4/2017	<0.001	<0.001		0.0002 (J)	<0.001	<0.001			
10/5/2017									
10/6/2017							<0.001		
10/9/2017			<0.001						
3/16/2018									
3/19/2018								<0.001	
3/20/2018						<0.001			
3/21/2018	<0.001	<0.001	<0.001						
3/22/2018				0.00032 (J)	<0.001				
3/23/2018							<0.001		
9/14/2018									
9/17/2018								<0.001	
9/18/2018	<0.001	<0.001		0.00057 (J)	<0.001	<0.001			
9/19/2018			<0.001						
9/20/2018							<0.001		

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 12/7/2018 9:39 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-2 (bg)	GWC-15R	GWA-3 (bg)	GWA-2R (bg)	GWC-5	GWA-1 (bg)	GWC-9	GWC-15_15Z	GWC-14_14Z
8/21/2007									
8/22/2007									
8/23/2007	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013		
8/24/2007								<0.0013	<0.0013
10/23/2007						<0.0013			
10/24/2007	<0.0013			<0.0013					
10/25/2007					<0.0013				
11/1/2007							<0.0013		
11/2/2007		<0.0013	<0.0013					<0.0013	<0.0013
11/17/2007		<0.0013							<0.0013
11/18/2007	<0.0013		<0.0013	<0.0013		<0.0013		<0.0013	
11/19/2007					<0.0013		<0.0013		
11/20/2007									
1/15/2008		<0.0013					<0.0013	<0.0013	<0.0013
1/16/2008									
1/23/2008					<0.0013				
1/30/2008						<0.0013			
1/31/2008	<0.0013		<0.0013	<0.0013					
3/5/2008									<0.0013
3/6/2008		<0.0013					<0.0013		
3/10/2008				<0.0013		<0.0013		<0.0013	
3/11/2008	<0.0013		<0.0013		<0.0013				
5/6/2008	<0.0013								
5/7/2008		<0.0013							<0.0013
5/8/2008									
5/12/2008					<0.0013				
5/13/2008				<0.0013		<0.0013	<0.0013	<0.0013	
5/14/2008			<0.0013						
12/2/2008		<0.0013						<0.0013	<0.0013
12/4/2008	<0.0013			<0.0013					
12/5/2008			<0.0013			<0.0013			
12/11/2008					<0.0013				
12/12/2008							<0.0013		
12/13/2008									
12/14/2008									
4/15/2009			<0.0013		<0.0013	<0.0013			
4/16/2009							<0.0013		<0.0013
4/21/2009	<0.0013			<0.0013					
4/23/2009									
4/24/2009									
4/28/2009		<0.0013						<0.0013	
4/29/2009									
10/6/2009									
10/7/2009	<0.0013					<0.0013			
10/8/2009			<0.0013	<0.0013					
10/9/2009					<0.0013				
10/13/2009							<0.0013		
10/19/2009		<0.0013							
10/20/2009								<0.0013	<0.0013
10/21/2009									
10/22/2009									
4/20/2010									<0.0013

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 12/7/2018 9:39 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-2 (bg)	GWC-15R	GWA-3 (bg)	GWA-2R (bg)	GWC-5	GWA-1 (bg)	GWC-9	GWC-15_15Z	GWC-14_14Z
4/21/2010				<0.0013			<0.0013		
4/26/2010	<0.0013								
4/27/2010		<0.0013						<0.0013	
4/28/2010			<0.0013						
5/3/2010						<0.0013			
5/4/2010					<0.0013				
9/28/2010				<0.0013					
9/29/2010							<0.0013		<0.0013
9/30/2010									
10/4/2010	<0.0013	<0.0013							
10/5/2010								<0.0013	
10/6/2010			<0.0013						
10/11/2010									
10/12/2010					<0.0013	<0.0013			
4/12/2011				<0.0013					<0.0013
4/13/2011	<0.0013						<0.0013		
4/14/2011									
4/18/2011		<0.0013							
4/19/2011								<0.0013	
4/20/2011									
4/21/2011			<0.0013						
4/26/2011									
4/27/2011						<0.0013			
4/28/2011					<0.0013				
10/4/2011				<0.0013					<0.0013
10/5/2011	<0.0013						<0.0013		
10/12/2011		<0.0013						<0.0013	
10/13/2011			<0.0013						
10/17/2011						<0.0013			
10/18/2011									
10/19/2011					<0.0013				
4/3/2012				<0.0005					
4/4/2012							<0.0005		<0.0005
4/11/2012	<0.0005								
4/23/2012		<0.0005							
4/24/2012									
4/25/2012								<0.0005	
4/30/2012									
5/1/2012			<0.0005						
5/2/2012					<0.0005	<0.0005			
10/2/2012									
10/3/2012									
10/8/2012						<0.0013	<0.0013		
10/9/2012	<0.0013		<0.0013	<0.0013	<0.0013				
10/10/2012		<0.0013						<0.0013	<0.0013
4/2/2013									
4/3/2013									
4/8/2013							<0.0013		
4/9/2013									
4/10/2013									
4/11/2013			<0.0013	<0.0013	<0.0013				
4/12/2013						<0.0013			

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 12/7/2018 9:39 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-2 (bg)	GWC-15R	GWA-3 (bg)	GWA-2R (bg)	GWC-5	GWA-1 (bg)	GWC-9	GWC-15_15Z	GWC-14_14Z
4/15/2013	<0.0013	<0.0013							<0.0013
4/16/2013								<0.0013	
10/8/2013									
10/9/2013							<0.0013		
10/15/2013	<0.0013								
10/16/2013			<0.0013	<0.0013	<0.0013	<0.0013			
10/22/2013		<0.0013						<0.0013	<0.0013
4/1/2014									
4/2/2014									
4/9/2014							<0.00025		
4/10/2014				<0.00025					
4/11/2014						<0.00025			
4/14/2014									
4/21/2014		<0.00025						<0.00025	<0.00025
4/22/2014	<0.00025								
4/23/2014			<0.00025		<0.00025				
9/30/2014	<0.0013	<0.0013		<0.0013		<0.0013	<0.0013	<0.0013	<0.0013
10/1/2014									
10/2/2014									
10/3/2014					0.00033 (J)				
10/4/2014			<0.0013						
3/30/2015	<0.0013			<0.0013		<0.0013			
3/31/2015			<0.0013		<0.0013				
4/1/2015									
4/2/2015							<0.0013		
4/3/2015		<0.0013						<0.0013	<0.0013
5/26/2015									
6/18/2015									
7/2/2015									
10/6/2015								<0.0013	
10/7/2015		0.00028 (J)							<0.0013
10/8/2015									
10/9/2015									
10/10/2015							<0.0013 (D)		
10/11/2015									
10/12/2015			<0.0013		<0.0013				
10/13/2015	<0.0013			<0.0013		0.0003 (J)			
10/14/2015									
10/15/2015									
3/22/2016						<0.001			
3/23/2016	<0.001		<0.001	<0.001					
3/28/2016					0.00104 (J)				
3/29/2016									
3/30/2016							<0.001		
3/31/2016									
4/4/2016									
4/5/2016		0.027 (J)						<0.001	<0.001
5/19/2016				<0.001		<0.001			
5/20/2016	<0.001								
5/23/2016			<0.001						
5/24/2016									
5/25/2016					0.000148 (J)				

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 12/7/2018 9:39 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-2 (bg)	GWC-15R	GWA-3 (bg)	GWA-2R (bg)	GWC-5	GWA-1 (bg)	GWC-9	GWC-15_15Z	GWC-14_14Z
5/26/2016							<0.001		
5/27/2016									
5/31/2016		0.000206 (J)						<0.001	
6/1/2016									<0.001
7/29/2016	<0.001		<0.001	<0.001		<0.001			
8/1/2016					0.0001 (J)				
8/2/2016									
8/3/2016									
8/4/2016		<0.001							
8/5/2016							<0.001		
8/9/2016									<0.001
9/22/2016			<0.001	<0.001					
9/23/2016	<0.001					<0.001			
9/26/2016									
9/27/2016					0.0001 (J)				
9/28/2016							<0.001		
9/29/2016		0.0002 (J)							
9/30/2016									
11/9/2016	<0.001					<0.001			
11/10/2016			<0.001	<0.001					
11/11/2016					9E-05 (J)				
11/14/2016									
11/18/2016									
11/21/2016							<0.001		
11/22/2016									
11/23/2016		0.0001 (J)						<0.001	
11/28/2016									<0.001
1/30/2017						<0.001			
1/31/2017	<0.001		<0.001	<0.001	<0.001				
2/1/2017									
2/3/2017									
2/6/2017							<0.001		
2/7/2017									
2/8/2017									
2/9/2017									0.0001 (J)
2/10/2017		<0.001						<0.001	
2/13/2017									
2/22/2017									
3/30/2017	<0.001		<0.001			<0.001			
4/3/2017				<0.001	0.0001 (J)				
4/6/2017							<0.001		
4/7/2017									
4/10/2017									
4/11/2017								<0.001	<0.001
4/12/2017		<0.001							
6/9/2017				<0.001		<0.001			
6/12/2017	<0.001		<0.001		<0.001				
6/13/2017							<0.001		
6/14/2017									<0.001
6/15/2017		<0.001						<0.001	
6/16/2017									
7/12/2017								<0.001	<0.001

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 12/7/2018 9:39 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-2 (bg)	GWC-15R	GWA-3 (bg)	GWA-2R (bg)	GWC-5	GWA-1 (bg)	GWC-9	GWC-15_15Z	GWC-14_14Z
7/14/2017									
7/20/2017									
7/26/2017								<0.001	
7/28/2017									
8/9/2017									
8/10/2017									
8/24/2017									
10/2/2017	<0.001			<0.001		<0.001			
10/3/2017					<0.001		<0.001		
10/4/2017			<0.001						
10/5/2017									<0.001
10/6/2017		<0.001						<0.001	
10/9/2017									
3/16/2018				<0.001		<0.001			
3/19/2018	<0.001		<0.001		<0.001				
3/20/2018							<0.001		
3/21/2018									
3/22/2018									<0.001
3/23/2018		<0.001						<0.001	
9/14/2018	<0.001			<0.001					
9/17/2018			<0.001		<0.001	0.00051 (D)			
9/18/2018							<0.001 (D)		
9/19/2018		<0.001						<0.001	<0.001
9/20/2018									

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 12/7/2018 9:39 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50 (bg)	GWA-50R (bg)	GWC-8RR	GWC-6RZ	GWC-8Z	GWC-7Z	GWA-4RZ (bg)
8/21/2007							
8/22/2007							
8/23/2007							
8/24/2007							
10/23/2007							
10/24/2007							
10/25/2007							
11/1/2007							
11/2/2007							
11/17/2007							
11/18/2007							
11/19/2007							
11/20/2007							
1/15/2008							
1/16/2008							
1/23/2008							
1/30/2008							
1/31/2008							
3/5/2008							
3/6/2008							
3/10/2008							
3/11/2008							
5/6/2008							
5/7/2008							
5/8/2008							
5/12/2008							
5/13/2008							
5/14/2008							
12/2/2008							
12/4/2008							
12/5/2008							
12/11/2008							
12/12/2008	<0.0013	<0.0013					
12/13/2008							
12/14/2008							
4/15/2009							
4/16/2009							
4/21/2009							
4/23/2009	<0.0013	<0.0013					
4/24/2009							
4/28/2009							
4/29/2009							
10/6/2009	<0.0013	<0.0013					
10/7/2009							
10/8/2009							
10/9/2009							
10/13/2009							
10/19/2009							
10/20/2009							
10/21/2009							
10/22/2009							
4/20/2010							

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 12/7/2018 9:39 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50 (bg)	GWA-50R (bg)	GWC-8RR	GWC-6RZ	GWC-8Z	GWC-7Z	GWA-4RZ (bg)
4/21/2010							
4/26/2010							
4/27/2010	<0.0013						
4/28/2010							
5/3/2010		<0.0013					
5/4/2010							
9/28/2010							
9/29/2010							
9/30/2010	<0.0013						
10/4/2010							
10/5/2010							
10/6/2010							
10/11/2010		<0.0013					
10/12/2010							
4/12/2011							
4/13/2011							
4/14/2011	<0.0013						
4/18/2011							
4/19/2011							
4/20/2011							
4/21/2011							
4/26/2011							
4/27/2011		<0.0013					
4/28/2011							
10/4/2011							
10/5/2011	<0.0013						
10/12/2011							
10/13/2011							
10/17/2011							
10/18/2011			<0.0013				
10/19/2011		<0.0013					
4/3/2012							
4/4/2012							
4/11/2012	<0.0005						
4/23/2012							
4/24/2012							
4/25/2012							
4/30/2012			<0.0005				
5/1/2012		<0.0005					
5/2/2012							
10/2/2012	<0.0013	<0.0013					
10/3/2012			<0.0013				
10/8/2012							
10/9/2012							
10/10/2012							
4/2/2013							
4/3/2013							
4/8/2013			<0.0013				
4/9/2013	<0.0013						
4/10/2013		<0.0013					
4/11/2013							
4/12/2013							

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 12/7/2018 9:39 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50 (bg)	GWA-50R (bg)	GWC-8RR	GWC-6RZ	GWC-8Z	GWC-7Z	GWA-4RZ (bg)
4/15/2013							
4/16/2013							
10/8/2013							
10/9/2013			<0.0013				
10/15/2013	<0.0013						
10/16/2013		<0.0013					
10/22/2013							
4/1/2014							
4/2/2014							
4/9/2014							
4/10/2014	<0.00025		<0.00025				
4/11/2014							
4/14/2014							
4/21/2014							
4/22/2014		<0.00025					
4/23/2014							
9/30/2014							
10/1/2014	<0.0013	<0.0013					
10/2/2014			<0.0013				
10/3/2014							
10/4/2014							
3/30/2015	<0.0013	<0.0013					
3/31/2015							
4/1/2015							
4/2/2015							
4/3/2015			<0.0013				
5/26/2015				<0.0013	<0.0013		
6/18/2015				<0.0013 (D)	<0.0013 (D)		
7/2/2015				<0.0013	<0.0013		
10/6/2015							
10/7/2015							
10/8/2015			<0.0013		<0.0013		
10/9/2015				<0.0013			
10/10/2015							
10/11/2015	0.00026 (J)	<0.0013					
10/12/2015							
10/13/2015							
10/14/2015							
10/15/2015							
3/22/2016					<0.001		
3/23/2016							
3/28/2016	<0.001	<0.001					
3/29/2016				<0.001			
3/30/2016			<0.001				
3/31/2016							
4/4/2016							
4/5/2016							
5/19/2016							
5/20/2016							
5/23/2016	<0.001						
5/24/2016			<0.001	<0.001			
5/25/2016		<0.001			<0.001		

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 12/7/2018 9:39 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50 (bg)	GWA-50R (bg)	GWC-8RR	GWC-6RZ	GWC-8Z	GWC-7Z	GWA-4RZ (bg)
5/26/2016							
5/27/2016							
5/31/2016						<0.001	
6/1/2016							
7/29/2016							
8/1/2016	<0.001	<0.001		<0.001			
8/2/2016			<0.001		<0.001	<0.001	
8/3/2016							
8/4/2016							
8/5/2016							
8/9/2016							
9/22/2016							
9/23/2016							
9/26/2016	<0.001	<0.001		<0.001	<0.001		
9/27/2016			<0.001			<0.001	
9/28/2016							
9/29/2016							
9/30/2016							
11/9/2016							
11/10/2016	<0.001						
11/11/2016		<0.001					
11/14/2016				<0.001			
11/18/2016							
11/21/2016					<0.001	<0.001	
11/22/2016			<0.001				
11/23/2016							
11/28/2016							
1/30/2017	<0.001	<0.001					
1/31/2017							
2/1/2017				<0.001		9E-05 (J)	
2/3/2017					0.0001 (J)		
2/6/2017			<0.001				
2/7/2017							
2/8/2017							
2/9/2017							
2/10/2017							
2/13/2017							
2/22/2017							<0.001
3/30/2017							
4/3/2017		<0.001					
4/6/2017			<0.001	<0.001		<0.001	
4/7/2017	<0.001				<0.001		<0.001
4/10/2017							
4/11/2017							
4/12/2017							
6/9/2017							
6/12/2017	<0.001	<0.001					
6/13/2017				<0.001	0.0002 (J)	<0.001	
6/14/2017			<0.001				<0.001
6/15/2017							
6/16/2017							
7/12/2017							<0.001

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 12/7/2018 9:39 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50 (bg)	GWA-50R (bg)	GWC-8RR	GWC-6RZ	GWC-8Z	GWC-7Z	GWA-4RZ (bg)
7/14/2017						<0.001	
7/20/2017							<0.001
7/26/2017							
7/28/2017							<0.001
8/9/2017							<0.001
8/10/2017							
8/24/2017							<0.001
10/2/2017	<0.001	<0.001					
10/3/2017				<0.001	<0.001	<0.001	<0.001
10/4/2017			<0.001				
10/5/2017							
10/6/2017							
10/9/2017							
3/16/2018	<0.001	<0.001					
3/19/2018							
3/20/2018				<0.001	<0.001	<0.001	
3/21/2018			<0.001				<0.001
3/22/2018							
3/23/2018							
9/14/2018							
9/17/2018	<0.001			<0.001			
9/18/2018		<0.001	<0.001		<0.001	<0.001	<0.001
9/19/2018							
9/20/2018							

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 12/7/2018 9:39 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-11R	GWC-13	GWC-12	GWC-11	GWC-10	GWC-13R_13RZ	GWC-10R	GWC-6R	GWC-6
8/21/2007	0.037	0.0019	0.0013	<0.0013	0.0015	<0.0013	0.036		
8/22/2007								0.014	<0.0013
8/23/2007									
8/24/2007									
10/23/2007									
10/24/2007									
10/25/2007								0.023	0.002
11/1/2007	0.04	0.01	<0.0013	<0.0013	0.011	0.0042	0.01		
11/2/2007									
11/17/2007									
11/18/2007	0.045			<0.0013					
11/19/2007		0.021	0.0056			0.0049		0.025	
11/20/2007					0.042		0.0039		0.017
1/15/2008									
1/16/2008			0.039						
1/23/2008								0.047	0.064
1/30/2008	0.041			<0.0013	0.034		0.019		
1/31/2008		0.035				<0.0013			
3/5/2008		0.012	0.03	<0.0013		<0.0013			
3/6/2008	0.042				0.027		<0.0013		
3/10/2008									
3/11/2008								0.045	0.013
5/6/2008									
5/7/2008	0.029			0.025		<0.0013			
5/8/2008							0.01		
5/12/2008		0.02			0.015				
5/13/2008			0.0057						
5/14/2008								0.0067	0.027
12/2/2008									
12/4/2008									
12/5/2008									
12/11/2008									<0.0013
12/12/2008						0.019		0.0062	
12/13/2008		0.014	<0.0013		0.0036				
12/14/2008	0.032			0.0021			0.0038		
4/15/2009									
4/16/2009			<0.003						
4/21/2009									
4/23/2009									<0.0013
4/24/2009								0.0073	
4/28/2009		0.0079							
4/29/2009	0.017			0.011	<0.0013	0.002	<0.0013		
10/6/2009									
10/7/2009									
10/8/2009									
10/9/2009								0.013	0.0014
10/13/2009									
10/19/2009									
10/20/2009					<0.0013				
10/21/2009		0.0092	0.0015			0.002	<0.0013		
10/22/2009	0.022			0.01					
4/20/2010									

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 12/7/2018 9:39 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-11R	GWC-13	GWC-12	GWC-11	GWC-10	GWC-13R_13RZ	GWC-10R	GWC-6R	GWC-6
4/21/2010	0.021			0.0053			<0.0013		
4/26/2010					<0.0013				
4/27/2010			0.0036						
4/28/2010		0.0086				0.0049			
5/3/2010									
5/4/2010								0.018	<0.0013
9/28/2010				0.0076			<0.0013		
9/29/2010	0.024				0.0034				
9/30/2010									
10/4/2010									
10/5/2010		0.0085	<0.0013						
10/6/2010						<0.0013			
10/11/2010									0.0027
10/12/2010								0.013	
4/12/2011				0.0095			<0.0013		
4/13/2011	0.014				<0.0013				
4/14/2011									
4/18/2011									
4/19/2011		0.0089	0.003						
4/20/2011						<0.0013			
4/21/2011									
4/26/2011									0.0015
4/27/2011									
4/28/2011								0.0092	
10/4/2011	0.017			0.0091			0.0019		
10/5/2011					0.0032				
10/12/2011			<0.0013			<0.0013			
10/13/2011									
10/17/2011									
10/18/2011		0.0093						0.0075	<0.0013
10/19/2011									
4/3/2012				0.0076			<0.005		
4/4/2012	0.014				<0.005				
4/11/2012									
4/23/2012									
4/24/2012			<0.005						
4/25/2012		0.0075				<0.005			
4/30/2012									
5/1/2012								0.0053	
5/2/2012									<0.005
10/2/2012		0.017	<0.0013			0.0015			
10/3/2012	0.0033			0.0039	0.0047				
10/8/2012							<0.0013		<0.0013
10/9/2012								0.006	
10/10/2012									
4/2/2013		0.0097	0.0018			0.0017			
4/3/2013	0.017			<0.0013	0.0014		<0.0013		
4/8/2013									
4/9/2013								0.0063	
4/10/2013									0.0013
4/11/2013									
4/12/2013									

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 12/7/2018 9:39 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-11R	GWC-13	GWC-12	GWC-11	GWC-10	GWC-13R_13RZ	GWC-10R	GWC-6R	GWC-6
4/15/2013									
4/16/2013									
10/8/2013		0.011				<0.0013			0.0017
10/9/2013	0.015		<0.0013	0.0089					
10/15/2013					0.002		<0.0013		
10/16/2013									
10/22/2013									
4/1/2014		0.0074	<0.001			<0.001			
4/2/2014	0.014			<0.001					
4/9/2014					<0.001		<0.001		
4/10/2014									
4/11/2014									
4/14/2014									0.004
4/21/2014									
4/22/2014									
4/23/2014									
9/30/2014									
10/1/2014		0.0049				<0.0013			
10/2/2014	0.0048		<0.0013	<0.0013	<0.0013		<0.0013		
10/3/2014									0.0017
10/4/2014									
3/30/2015									
3/31/2015						<0.0013			
4/1/2015	0.0084	0.0072	<0.0013	0.0062					0.0027
4/2/2015					<0.0013		<0.0013		
4/3/2015									
5/26/2015									
6/18/2015									
7/2/2015									
10/6/2015									
10/7/2015									
10/8/2015									
10/9/2015									0.0016
10/10/2015					0.0013				
10/11/2015	0.019			<0.0013					
10/12/2015							<0.0013		
10/13/2015									
10/14/2015			<0.0013			<0.0013			
10/15/2015		0.0077							
3/22/2016									
3/23/2016									
3/28/2016									
3/29/2016									0.00738 (J)
3/30/2016									
3/31/2016					<0.01		<0.01		
4/4/2016	0.00728 (J)	0.00615 (J)	<0.01	0.00656 (J)		<0.01 (D)			
4/5/2016									
5/19/2016									
5/20/2016									
5/23/2016									
5/24/2016									0.00263 (J)
5/25/2016									

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 12/7/2018 9:39 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-11R	GWC-13	GWC-12	GWC-11	GWC-10	GWC-13R_13RZ	GWC-10R	GWC-6R	GWC-6
5/26/2016	0.00553 (J)			0.00752 (J)	<0.01		<0.01		
5/27/2016			<0.01						
5/31/2016		0.00588 (J)							
6/1/2016						<0.01 (D)			
7/29/2016									
8/1/2016									<0.01 (*)
8/2/2016									
8/3/2016			<0.01	0.0067 (J)			<0.01 (*)		
8/4/2016	0.0071 (J)	0.0056 (J)							
8/5/2016					<0.01 (*)				
8/9/2016									
9/22/2016									
9/23/2016									
9/26/2016									0.0014 (J)
9/27/2016									
9/28/2016	0.0093 (J)			0.0082 (J)	<0.01		<0.01		
9/29/2016		0.0065 (J)							
9/30/2016			<0.01						
11/9/2016									
11/10/2016									
11/11/2016									
11/14/2016									
11/18/2016									<0.01 (*)
11/21/2016									
11/22/2016	0.0058 (J)		<0.01	0.0045 (J)	0.0024 (J)		<0.01		
11/23/2016									
11/28/2016		0.0064 (J)							
1/30/2017									
1/31/2017									
2/1/2017									0.0024 (J)
2/3/2017									
2/6/2017									
2/7/2017					0.0015 (J)		0.0019 (J)		
2/8/2017	0.0072 (J)			0.0101					
2/9/2017		0.0078 (J)							
2/10/2017									
2/13/2017			<0.01						
2/22/2017						0.0012 (J)			
3/30/2017									
4/3/2017									
4/6/2017									<0.01 (*)
4/7/2017									
4/10/2017	<0.01 (*)			0.0094 (J)	<0.01 (*)		<0.01 (*)		
4/11/2017			<0.01			<0.01 (*)			
4/12/2017		0.0077 (J)							
6/9/2017									
6/12/2017									
6/13/2017									0.0031 (J)
6/14/2017			<0.01		0.0006 (J)		<0.01		
6/15/2017	0.0066 (J)			0.009 (J)					
6/16/2017		0.0072 (J)				<0.01			
7/12/2017						<0.01			

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 12/7/2018 9:39 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-11R	GWC-13	GWC-12	GWC-11	GWC-10	GWC-13R_13RZ	GWC-10R	GWC-6R	GWC-6
7/14/2017									
7/20/2017									
7/26/2017									
7/28/2017						<0.01			
8/9/2017									
8/10/2017						<0.01			
8/24/2017									
10/2/2017									
10/3/2017									0.0025 (J)
10/4/2017	0.0079 (J)		<0.01	0.0008 (J)	0.0027 (J)		<0.01		
10/5/2017									
10/6/2017						<0.01			
10/9/2017		0.0079 (J)							
3/16/2018									
3/19/2018									0.0035 (J)
3/20/2018					<0.01				
3/21/2018		0.0055 (J)		0.0079 (J)			<0.01		
3/22/2018	0.0062 (J)		<0.01						
3/23/2018						<0.01			
9/14/2018									
9/17/2018									0.0024 (J)
9/18/2018	0.0062 (J)		<0.01	0.0081 (J)	<0.01		<0.01		
9/19/2018		0.0059 (J)							
9/20/2018						<0.01			

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 12/7/2018 9:39 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-3 (bg)	GWC-5	GWA-2 (bg)	GWA-2R (bg)	GWC-15R	GWA-1 (bg)	GWC-9	GWC-15_15Z	GWC-14_14Z
8/21/2007									
8/22/2007									
8/23/2007	<0.0013	0.0076	0.0045	<0.0013	0.014	<0.0013	<0.0013		
8/24/2007								0.061	0.083
10/23/2007						0.011			
10/24/2007			0.039	0.0033					
10/25/2007		0.015							
11/1/2007							0.0061		
11/2/2007	0.027				0.0036			0.078	0.0071
11/17/2007					0.031				0.012
11/18/2007	0.17		0.059	0.012		0.038 (J)		0.085	
11/19/2007		0.013					0.018 (J)		
11/20/2007									
1/15/2008					0.011		0.078	0.079	0.043
1/16/2008									
1/23/2008		0.032							
1/30/2008						0.11 (J)			
1/31/2008	0.012		0.0067	0.052 (O)					
3/5/2008									0.0044
3/6/2008					0.0027		0.054		
3/10/2008				0.01		0.038		0.062	
3/11/2008	0.063	0.024	0.03						
5/6/2008			0.0062						
5/7/2008					0.008				0.0084
5/8/2008									
5/12/2008		0.016							
5/13/2008				0.0068		0.012	0.0085	0.044	
5/14/2008	0.057								
12/2/2008					0.0059			0.027	0.0056
12/4/2008			0.009	0.0017					
12/5/2008	<0.0013					<0.0013			
12/11/2008		0.013							
12/12/2008							0.0023		
12/13/2008									
12/14/2008									
4/15/2009	<0.0013	0.0073				<0.0013			
4/16/2009							<0.003		0.0042
4/21/2009			0.0022	<0.0013					
4/23/2009									
4/24/2009									
4/28/2009					<0.0013			0.016	
4/29/2009									
10/6/2009									
10/7/2009			<0.0013			0.0065			
10/8/2009	<0.0013			<0.0013					
10/9/2009		0.0037							
10/13/2009							<0.0013		
10/19/2009					<0.0013				
10/20/2009								0.018	0.0037
10/21/2009									
10/22/2009									
4/20/2010									<0.0013

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 12/7/2018 9:39 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-3 (bg)	GWC-5	GWA-2 (bg)	GWA-2R (bg)	GWC-15R	GWA-1 (bg)	GWC-9	GWC-15_15Z	GWC-14_14Z
4/21/2010				<0.0013			<0.0013		
4/26/2010			<0.0013						
4/27/2010					<0.0013			0.012	
4/28/2010	<0.0013								
5/3/2010						<0.0013			
5/4/2010		<0.0013							
9/28/2010				<0.0013					
9/29/2010							<0.0013		0.0028
9/30/2010									
10/4/2010			<0.0013		0.0013				
10/5/2010								0.0067	
10/6/2010	<0.0013								
10/11/2010									
10/12/2010		0.0023				<0.0013			
4/12/2011				<0.0013					<0.0013
4/13/2011			<0.0013				<0.0013		
4/14/2011									
4/18/2011					<0.0013				
4/19/2011								0.0081	
4/20/2011									
4/21/2011	<0.0013								
4/26/2011									
4/27/2011						<0.0013			
4/28/2011		0.002							
10/4/2011				<0.0013					0.0015
10/5/2011			<0.0013				<0.0013		
10/12/2011					0.0014			<0.0013	
10/13/2011	<0.0013								
10/17/2011						<0.0013			
10/18/2011									
10/19/2011		0.0015							
4/3/2012				<0.005					
4/4/2012							<0.005		<0.005
4/11/2012			<0.005						
4/23/2012					<0.005				
4/24/2012									
4/25/2012								<0.005	
4/30/2012									
5/1/2012	<0.005								
5/2/2012		<0.005				<0.005			
10/2/2012									
10/3/2012									
10/8/2012						<0.0013	<0.0013		
10/9/2012	<0.0013	<0.0013	<0.0013	<0.0013					
10/10/2012					<0.0013			<0.0013	0.0029
4/2/2013									
4/3/2013									
4/8/2013							<0.0013		
4/9/2013									
4/10/2013									
4/11/2013	<0.0013	0.0015		<0.0013					
4/12/2013						0.0019			

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 12/7/2018 9:39 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-3 (bg)	GWC-5	GWA-2 (bg)	GWA-2R (bg)	GWC-15R	GWA-1 (bg)	GWC-9	GWC-15_15Z	GWC-14_14Z
4/15/2013			0.0013		0.0021				0.0036
4/16/2013								0.0029	
10/8/2013									
10/9/2013							0.0013		
10/15/2013			0.0023						
10/16/2013	0.0013	<0.0013		<0.0013		0.0024			
10/22/2013					<0.0013			<0.0013	0.0048
4/1/2014									
4/2/2014									
4/9/2014							<0.001		
4/10/2014				<0.001					
4/11/2014						0.0013 (J)			
4/14/2014									
4/21/2014					0.0013 (J)			<0.001	0.0043
4/22/2014			<0.001						
4/23/2014	<0.001	0.0013 (J)							
9/30/2014			<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	0.0037
10/1/2014									
10/2/2014									
10/3/2014		<0.0013							
10/4/2014	<0.0013								
3/30/2015			0.0011 (J)	<0.0013		0.0047			
3/31/2015	<0.0013	<0.0013							
4/1/2015									
4/2/2015							<0.0013		
4/3/2015					<0.0013			<0.0013	0.016
5/26/2015									
6/18/2015									
7/2/2015									
10/6/2015								<0.0013	
10/7/2015					<0.0013				0.0092
10/8/2015									
10/9/2015									
10/10/2015							0.000825 (D)		
10/11/2015									
10/12/2015	<0.0013	<0.0013							
10/13/2015			<0.0013	<0.0013		<0.0013			
10/14/2015									
10/15/2015									
3/22/2016						<0.01			
3/23/2016	<0.01		<0.01	<0.01					
3/28/2016		<0.01							
3/29/2016									
3/30/2016							<0.01		
3/31/2016									
4/4/2016									
4/5/2016					<0.01			<0.01	0.019 (J)
5/19/2016				<0.01		<0.01			
5/20/2016			<0.01						
5/23/2016	<0.01								
5/24/2016									
5/25/2016		<0.01							

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 12/7/2018 9:39 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-3 (bg)	GWC-5	GWA-2 (bg)	GWA-2R (bg)	GWC-15R	GWA-1 (bg)	GWC-9	GWC-15_15Z	GWC-14_14Z
5/26/2016							<0.01		
5/27/2016									
5/31/2016					<0.01			<0.01	
6/1/2016									0.006 (J)
7/29/2016	<0.01		<0.01 (*)	<0.01 (*)		<0.01			
8/1/2016		<0.01							
8/2/2016									
8/3/2016									
8/4/2016					<0.01 (*)				
8/5/2016							<0.01 (*)		
8/9/2016									0.0061 (JD)
9/22/2016	0.0013 (J)			<0.01					
9/23/2016			<0.01			<0.01			
9/26/2016									
9/27/2016		<0.01							
9/28/2016							<0.01		
9/29/2016					<0.01				
9/30/2016									
11/9/2016			<0.01			0.0011 (J)			
11/10/2016	<0.01			<0.01					
11/11/2016		<0.01 (*)							
11/14/2016									
11/18/2016									
11/21/2016							<0.01		
11/22/2016									
11/23/2016					<0.01			<0.01	
11/28/2016									<0.01
1/30/2017						<0.01			
1/31/2017	<0.01	<0.01	<0.01	<0.01					
2/1/2017									
2/3/2017									
2/6/2017							<0.01		
2/7/2017									
2/8/2017									
2/9/2017									<0.01
2/10/2017					<0.01			<0.01	
2/13/2017									
2/22/2017									
3/30/2017	<0.01		<0.01 (*)			<0.01			
4/3/2017		<0.01		<0.01 (*)					
4/6/2017							<0.01		
4/7/2017									
4/10/2017									
4/11/2017								<0.01 (*)	<0.01 (*)
4/12/2017					<0.01 (*)				
6/9/2017				<0.01		<0.01			
6/12/2017	<0.01	0.0005 (J)	0.0008 (J)						
6/13/2017							<0.01		
6/14/2017									0.0006 (J)
6/15/2017					0.0005 (J)			0.0005 (J)	
6/16/2017									
7/12/2017								0.0008 (J)	0.0005 (J)

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 12/7/2018 9:39 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-3 (bg)	GWC-5	GWA-2 (bg)	GWA-2R (bg)	GWC-15R	GWA-1 (bg)	GWC-9	GWC-15_15Z	GWC-14_14Z
7/14/2017									
7/20/2017									
7/26/2017								0.0006 (J)	
7/28/2017									
8/9/2017									
8/10/2017									
8/24/2017									
10/2/2017			<0.01	<0.01		<0.01			
10/3/2017		<0.01					<0.01		
10/4/2017	<0.01								
10/5/2017									0.0006 (J)
10/6/2017					<0.01			0.0008 (J)	
10/9/2017									
3/16/2018				<0.01		<0.01			
3/19/2018	<0.01	<0.01	0.0031 (J)						
3/20/2018							<0.01		
3/21/2018									
3/22/2018									<0.01
3/23/2018					<0.01			<0.01	
9/14/2018			<0.01	<0.01					
9/17/2018	<0.01	<0.01				<0.01 (D)			
9/18/2018							<0.01 (D)		
9/19/2018					<0.01			<0.01	<0.01
9/20/2018									

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 12/7/2018 9:39 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50R (bg)	GWA-50 (bg)	GWC-8RR	GWC-8Z	GWC-6RZ	GWC-7Z	GWA-4RZ (bg)
8/21/2007							
8/22/2007							
8/23/2007							
8/24/2007							
10/23/2007							
10/24/2007							
10/25/2007							
11/1/2007							
11/2/2007							
11/17/2007							
11/18/2007							
11/19/2007							
11/20/2007							
1/15/2008							
1/16/2008							
1/23/2008							
1/30/2008							
1/31/2008							
3/5/2008							
3/6/2008							
3/10/2008							
3/11/2008							
5/6/2008							
5/7/2008							
5/8/2008							
5/12/2008							
5/13/2008							
5/14/2008							
12/2/2008							
12/4/2008							
12/5/2008							
12/11/2008							
12/12/2008	<0.0013	<0.0013					
12/13/2008							
12/14/2008							
4/15/2009							
4/16/2009							
4/21/2009							
4/23/2009	0.0031	<0.0013					
4/24/2009							
4/28/2009							
4/29/2009							
10/6/2009	0.0024	<0.0013					
10/7/2009							
10/8/2009							
10/9/2009							
10/13/2009							
10/19/2009							
10/20/2009							
10/21/2009							
10/22/2009							
4/20/2010							

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 12/7/2018 9:39 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50R (bg)	GWA-50 (bg)	GWC-8RR	GWC-8Z	GWC-6RZ	GWC-7Z	GWA-4RZ (bg)
4/21/2010							
4/26/2010							
4/27/2010		<0.0013					
4/28/2010							
5/3/2010	<0.0013						
5/4/2010							
9/28/2010							
9/29/2010							
9/30/2010		0.0014					
10/4/2010							
10/5/2010							
10/6/2010							
10/11/2010	0.0028						
10/12/2010							
4/12/2011							
4/13/2011							
4/14/2011		0.0014					
4/18/2011							
4/19/2011							
4/20/2011							
4/21/2011							
4/26/2011							
4/27/2011	0.0041						
4/28/2011							
10/4/2011							
10/5/2011		<0.0013					
10/12/2011							
10/13/2011							
10/17/2011							
10/18/2011			<0.0013				
10/19/2011	<0.0013						
4/3/2012							
4/4/2012							
4/11/2012		<0.005					
4/23/2012							
4/24/2012							
4/25/2012							
4/30/2012			<0.005				
5/1/2012	<0.005						
5/2/2012							
10/2/2012	0.0019	<0.0013					
10/3/2012			<0.0013				
10/8/2012							
10/9/2012							
10/10/2012							
4/2/2013							
4/3/2013							
4/8/2013			<0.0013				
4/9/2013		<0.0013					
4/10/2013	0.0027						
4/11/2013							
4/12/2013							

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 12/7/2018 9:39 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50R (bg)	GWA-50 (bg)	GWC-8RR	GWC-8Z	GWC-6RZ	GWC-7Z	GWA-4RZ (bg)
4/15/2013							
4/16/2013							
10/8/2013							
10/9/2013			0.0019				
10/15/2013		<0.0013					
10/16/2013	0.0029						
10/22/2013							
4/1/2014							
4/2/2014							
4/9/2014							
4/10/2014		0.0013 (J)	0.0034				
4/11/2014							
4/14/2014							
4/21/2014							
4/22/2014	0.0024						
4/23/2014							
9/30/2014							
10/1/2014	<0.0013	<0.0013					
10/2/2014			0.0056				
10/3/2014							
10/4/2014							
3/30/2015	0.0022	<0.0013					
3/31/2015							
4/1/2015							
4/2/2015							
4/3/2015			0.0022				
5/26/2015				<0.0013	0.0015		
6/18/2015				0.0024 (D)	0.0013 (D)		
7/2/2015				<0.0013	0.0014		
10/6/2015							
10/7/2015							
10/8/2015			0.0033	<0.0013			
10/9/2015					0.0015		
10/10/2015							
10/11/2015	<0.0013	<0.0013					
10/12/2015							
10/13/2015							
10/14/2015							
10/15/2015							
3/22/2016				0.048 (J)			
3/23/2016							
3/28/2016	<0.01	<0.01					
3/29/2016					<0.01		
3/30/2016			0.0228 (J)				
3/31/2016							
4/4/2016							
4/5/2016							
5/19/2016							
5/20/2016							
5/23/2016		<0.01					
5/24/2016			<0.01		<0.01		
5/25/2016	<0.01			0.00441 (J)			

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 12/7/2018 9:39 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50R (bg)	GWA-50 (bg)	GWC-8RR	GWC-8Z	GWC-6RZ	GWC-7Z	GWA-4RZ (bg)
5/26/2016							
5/27/2016							
5/31/2016						<0.01	
6/1/2016							
7/29/2016							
8/1/2016	<0.01	<0.01 (*)			<0.01 (*)		
8/2/2016			<0.01 (*)	<0.01 (*)		<0.01	
8/3/2016							
8/4/2016							
8/5/2016							
8/9/2016							
9/22/2016							
9/23/2016							
9/26/2016	<0.01	<0.01		0.002 (J)	0.002 (J)		
9/27/2016			<0.01			<0.01	
9/28/2016							
9/29/2016							
9/30/2016							
11/9/2016							
11/10/2016		<0.01					
11/11/2016	<0.01 (*)						
11/14/2016					<0.01 (*)		
11/18/2016							
11/21/2016				0.0017 (J)		<0.01	
11/22/2016			<0.01				
11/23/2016							
11/28/2016							
1/30/2017	<0.01	<0.01					
1/31/2017							
2/1/2017					0.0017 (J)	<0.01	
2/3/2017				0.0018 (J)			
2/6/2017			<0.01				
2/7/2017							
2/8/2017							
2/9/2017							
2/10/2017							
2/13/2017							
2/22/2017							<0.01
3/30/2017							
4/3/2017	<0.01 (*)						
4/6/2017			<0.01 (*)		<0.01 (*)	<0.01 (*)	
4/7/2017		<0.01		<0.01 (*)			<0.01
4/10/2017							
4/11/2017							
4/12/2017							
6/9/2017							
6/12/2017	0.0005 (J)	<0.01					
6/13/2017				0.0019 (J)	0.0015 (J)	<0.01	
6/14/2017			0.0009 (J)				<0.01
6/15/2017							
6/16/2017							
7/12/2017							<0.01

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 12/7/2018 9:39 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50R (bg)	GWA-50 (bg)	GWC-8RR	GWC-8Z	GWC-6RZ	GWC-7Z	GWA-4RZ (bg)
7/14/2017						<0.01	
7/20/2017							<0.01
7/26/2017							
7/28/2017							<0.01
8/9/2017							<0.01
8/10/2017							
8/24/2017							<0.01
10/2/2017	<0.01	<0.01					
10/3/2017				0.0022 (J)	0.0018 (J)	<0.01	<0.01
10/4/2017			<0.01				
10/5/2017							
10/6/2017							
10/9/2017							
3/16/2018	<0.01	<0.01					
3/19/2018							
3/20/2018				0.0017 (J)	0.0017 (J)	<0.01	
3/21/2018			<0.01				<0.01
3/22/2018							
3/23/2018							
9/14/2018							
9/17/2018		<0.01			0.002 (J)		
9/18/2018	<0.01		<0.01	<0.01		<0.01	<0.01
9/19/2018							
9/20/2018							

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 12/7/2018 9:39 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-11R	GWC-13	GWC-12	GWC-11	GWC-10	GWC-13R_13RZ	GWC-10R	GWC-6R	GWC-6
8/21/2007	<0.0025	0.01	<0.0025	0.0031	<0.0025	<0.0025	<0.0025		
8/22/2007								<0.0025	<0.0025
8/23/2007									
8/24/2007									
10/23/2007									
10/24/2007									
10/25/2007								<0.0025	0.0038
11/1/2007	<0.0025	<0.0025	0.0041	0.0034	<0.0025	<0.0025	<0.0025		
11/2/2007									
11/17/2007									
11/18/2007	<0.0025			0.0045					
11/19/2007		<0.0025	0.0055			<0.0025		<0.0025	
11/20/2007					0.0046		<0.0025		<0.0025
1/15/2008									
1/16/2008			0.008						
1/23/2008								0.011	0.0047
1/30/2008	<0.0025			0.0027	0.0079		<0.0025		
1/31/2008		0.0037				<0.0025			
3/5/2008		<0.0025	0.98	<0.0025		<0.0025			
3/6/2008	0.11				0.0037		<0.0025		
3/10/2008									
3/11/2008								<0.0025	<0.0025
5/6/2008									
5/7/2008	<0.0025			<0.0025		<0.0025			
5/8/2008							<0.0025		
5/12/2008		<0.0025			<0.0025				
5/13/2008			0.01						
5/14/2008								<0.0025	<0.0025
12/2/2008									
12/4/2008									
12/5/2008									
12/11/2008									<0.0025
12/12/2008						0.0079		<0.0025	
12/13/2008		0.011	0.0073		0.013				
12/14/2008	<0.0025			<0.0025			<0.0025		
4/15/2009									
4/16/2009			0.0033						
4/21/2009									
4/23/2009									<0.0025
4/24/2009								<0.0025	
4/28/2009		<0.0025							
4/29/2009	<0.0025			<0.0025	<0.0025	<0.0025	<0.0025		
10/6/2009									
10/7/2009									
10/8/2009									
10/9/2009								<0.0025	<0.0025
10/13/2009									
10/19/2009									
10/20/2009					<0.0025				
10/21/2009		<0.0025	0.0039			<0.0025	<0.0025		
10/22/2009	<0.0025			<0.0025					
4/20/2010									

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 12/7/2018 9:39 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-11R	GWC-13	GWC-12	GWC-11	GWC-10	GWC-13R_13RZ	GWC-10R	GWC-6R	GWC-6
4/21/2010	<0.0025			<0.0025			<0.0025		
4/26/2010					<0.0025				
4/27/2010			0.0044						
4/28/2010		<0.0025				<0.0025			
5/3/2010									
5/4/2010								<0.0025	<0.0025
9/28/2010				<0.0025			<0.0025		
9/29/2010	<0.0025				<0.0025				
9/30/2010									
10/4/2010									
10/5/2010		<0.0025	0.005						
10/6/2010						<0.0025			
10/11/2010									<0.0025
10/12/2010								<0.0025	
4/12/2011				<0.0025			<0.0025		
4/13/2011	<0.0025				<0.0025				
4/14/2011									
4/18/2011									
4/19/2011		<0.0025	0.0039						
4/20/2011						<0.0025			
4/21/2011									
4/26/2011									<0.0025
4/27/2011									
4/28/2011								<0.0025	
10/4/2011	<0.0025			<0.0025			<0.0025		
10/5/2011					<0.0025				
10/12/2011			0.0032			<0.0025			
10/13/2011									
10/17/2011									
10/18/2011		<0.0025						<0.0025	<0.0025
10/19/2011									
4/3/2012				<0.005			<0.005		
4/4/2012	<0.005				<0.005				
4/11/2012									
4/23/2012									
4/24/2012			<0.005						
4/25/2012		<0.005				<0.005			
4/30/2012									
5/1/2012								<0.005	
5/2/2012									<0.005
10/2/2012		<0.0013	<0.0013			<0.0013			
10/3/2012	<0.0013			0.0037	0.0018				
10/8/2012							<0.0013		<0.0013
10/9/2012								<0.0013	
10/10/2012									
4/2/2013		<0.0013	0.0038			<0.0013			
4/3/2013	<0.0013			<0.0013	0.0014		<0.0013		
4/8/2013									
4/9/2013								<0.0013	
4/10/2013									<0.0013
4/11/2013									
4/12/2013									

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 12/7/2018 9:39 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-11R	GWC-13	GWC-12	GWC-11	GWC-10	GWC-13R_13RZ	GWC-10R	GWC-6R	GWC-6
4/15/2013									
4/16/2013									
10/8/2013		<0.0013				<0.0013			<0.0013
10/9/2013	<0.0013		0.003	<0.0013					
10/15/2013					0.0018		<0.0013		
10/16/2013									
10/22/2013									
4/1/2014		<0.0005	0.0027			<0.0005			
4/2/2014	<0.0005			0.0036					
4/9/2014					0.0013 (J)		<0.0005		
4/10/2014									
4/11/2014									
4/14/2014									0.0013 (J)
4/21/2014									
4/22/2014									
4/23/2014									
9/30/2014									
10/1/2014		<0.0013				<0.0013			
10/2/2014	<0.0013		0.0027	0.016	<0.0013		<0.0013		
10/3/2014									0.00071 (J)
10/4/2014									
3/30/2015									
3/31/2015						<0.0013			
4/1/2015	0.0026	<0.0013	0.0028	<0.0013					<0.0013
4/2/2015					<0.0013		<0.0013		
4/3/2015									
5/26/2015									
6/18/2015									
7/2/2015									
10/6/2015									
10/7/2015									
10/8/2015									
10/9/2015									<0.0013
10/10/2015					<0.0013				
10/11/2015	0.00065 (J)			<0.0013					
10/12/2015							<0.0013		
10/13/2015									
10/14/2015			0.003			<0.0013			
10/15/2015		0.00051 (J)							
3/22/2016									
3/23/2016									
3/28/2016									
3/29/2016									<0.01
3/30/2016									
3/31/2016					<0.01		<0.01		
4/4/2016	<0.01	<0.01	0.00351 (J)	<0.01		<0.01			
4/5/2016									
5/19/2016									
5/20/2016									
5/23/2016									
5/24/2016									<0.01
5/25/2016									

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 12/7/2018 9:39 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-11R	GWC-13	GWC-12	GWC-11	GWC-10	GWC-13R_13RZ	GWC-10R	GWC-6R	GWC-6
5/26/2016	<0.01			<0.01	<0.01		<0.01		
5/27/2016			0.00332 (J)						
5/31/2016		<0.01							
6/1/2016						<0.01			
7/29/2016									
8/1/2016									<0.01
8/2/2016									
8/3/2016			0.003 (J)	<0.01			<0.01		
8/4/2016	<0.01	<0.01							
8/5/2016					<0.01				
8/9/2016									
9/22/2016									
9/23/2016									
9/26/2016									<0.01
9/27/2016									
9/28/2016	<0.01			<0.01	<0.01		<0.01		
9/29/2016		<0.01							
9/30/2016			0.0035 (J)						
11/9/2016									
11/10/2016									
11/11/2016									
11/14/2016									
11/18/2016									<0.01
11/21/2016									
11/22/2016	<0.01		0.0027 (J)	<0.01	0.0006 (J)		<0.01		
11/23/2016									
11/28/2016		<0.01							
1/30/2017									
1/31/2017									
2/1/2017									<0.01
2/3/2017									
2/6/2017									
2/7/2017					0.0017 (J)		<0.01		
2/8/2017	<0.01			<0.01					
2/9/2017		<0.01							
2/10/2017									
2/13/2017			0.003 (J)						
2/22/2017						<0.01			
3/30/2017									
4/3/2017									
4/6/2017									<0.01
4/7/2017									
4/10/2017	<0.01			<0.01	<0.01		<0.01		
4/11/2017			0.0031 (J)			<0.01			
4/12/2017		<0.01							
6/9/2017									
6/12/2017									
6/13/2017									<0.01
6/14/2017			0.0031 (J)		<0.01		<0.01		
6/15/2017	<0.01			<0.01					
6/16/2017		<0.01				<0.01			
7/12/2017						<0.01			

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 12/7/2018 9:39 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-11R	GWC-13	GWC-12	GWC-11	GWC-10	GWC-13R_13RZ	GWC-10R	GWC-6R	GWC-6
7/14/2017									
7/20/2017									
7/26/2017									
7/28/2017						<0.01			
8/9/2017									
8/10/2017						<0.01			
8/24/2017									
10/2/2017									
10/3/2017									<0.01
10/4/2017	<0.01		0.0032 (J)	<0.01	<0.01		<0.01		
10/5/2017									
10/6/2017						<0.01			
10/9/2017		<0.01							
3/16/2018									
3/19/2018									<0.01
3/20/2018					0.0021 (J)				
3/21/2018		<0.01		<0.01			<0.01		
3/22/2018	<0.01		0.0033 (J)						
3/23/2018						<0.01			
9/14/2018									
9/17/2018									<0.01
9/18/2018	<0.01		0.0031 (J)	<0.01	<0.01		<0.01		
9/19/2018		<0.01							
9/20/2018						<0.01			

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 12/7/2018 9:39 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-3 (bg)	GWC-5	GWA-2 (bg)	GWA-2R (bg)	GWC-15R	GWA-1 (bg)	GWC-9	GWC-15_15Z	GWC-14_14Z
8/21/2007									
8/22/2007									
8/23/2007	0.0033	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025		
8/24/2007								<0.0025	<0.0025
10/23/2007						<0.0025			
10/24/2007			0.013	<0.0025					
10/25/2007		<0.0025							
11/1/2007							<0.0025		
11/2/2007	0.0046				<0.0025			<0.0025	<0.0025
11/17/2007					<0.0025				0.0039
11/18/2007	0.0057		0.0041	<0.0025		<0.0025		<0.0025	
11/19/2007		<0.0025					0.0034		
11/20/2007									
1/15/2008					<0.0025		0.0067	0.0029	<0.0025
1/16/2008									
1/23/2008		0.0073							
1/30/2008						0.0045			
1/31/2008	0.0055		<0.0025	0.0083 (O)					
3/5/2008									0.005
3/6/2008					<0.0025		0.13		
3/10/2008				<0.0025		<0.0025		0.069	
3/11/2008	0.0033	0.0025	<0.0025						
5/6/2008			<0.0025						
5/7/2008					<0.0025				<0.0025
5/8/2008									
5/12/2008		<0.0025							
5/13/2008				<0.0025		<0.0025	<0.0025	<0.0025	
5/14/2008	0.0044								
12/2/2008					<0.0025			0.0027	0.011
12/4/2008			0.012	<0.0025					
12/5/2008	0.0035					<0.0025			
12/11/2008		<0.0025							
12/12/2008							0.0042		
12/13/2008									
12/14/2008									
4/15/2009	<0.0025	<0.0025				<0.0025			
4/16/2009							0.0047		0.005
4/21/2009			<0.0025	<0.0025					
4/23/2009									
4/24/2009									
4/28/2009					<0.0025			<0.0025	
4/29/2009									
10/6/2009									
10/7/2009			<0.0025			0.0041			
10/8/2009	<0.0025			<0.0025					
10/9/2009		<0.0025							
10/13/2009							0.0037		
10/19/2009					<0.0025				
10/20/2009								<0.0025	0.0074
10/21/2009									
10/22/2009									
4/20/2010									<0.0025

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 12/7/2018 9:39 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-3 (bg)	GWC-5	GWA-2 (bg)	GWA-2R (bg)	GWC-15R	GWA-1 (bg)	GWC-9	GWC-15_15Z	GWC-14_14Z
4/21/2010				<0.0025			<0.0025		
4/26/2010			<0.0025						
4/27/2010					<0.0025			<0.0025	
4/28/2010	<0.0025								
5/3/2010						<0.0025			
5/4/2010		<0.0025							
9/28/2010				<0.0025					
9/29/2010							<0.0025		<0.0025
9/30/2010									
10/4/2010			<0.0025		<0.0025				
10/5/2010								<0.0025	
10/6/2010	<0.0025								
10/11/2010									
10/12/2010		<0.0025				<0.0025			
4/12/2011				<0.0025					<0.0025
4/13/2011			<0.0025				<0.0025		
4/14/2011									
4/18/2011					<0.0025				
4/19/2011								<0.0025	
4/20/2011									
4/21/2011	<0.0025								
4/26/2011									
4/27/2011						<0.0025			
4/28/2011		<0.0025							
10/4/2011				<0.0025					<0.0025
10/5/2011			<0.0025				<0.0025		
10/12/2011					<0.0025			<0.0025	
10/13/2011	<0.0025								
10/17/2011						<0.0025			
10/18/2011									
10/19/2011		<0.0025							
4/3/2012				<0.005					
4/4/2012							<0.005		<0.005
4/11/2012			<0.005						
4/23/2012					<0.005				
4/24/2012									
4/25/2012								<0.005	
4/30/2012									
5/1/2012	<0.005								
5/2/2012		<0.005				<0.005			
10/2/2012									
10/3/2012									
10/8/2012						<0.0013	<0.0013		
10/9/2012	<0.0013	0.0024	<0.0013	<0.0013					
10/10/2012					<0.0013			<0.0013	<0.0013
4/2/2013									
4/3/2013									
4/8/2013							<0.0013		
4/9/2013									
4/10/2013									
4/11/2013	<0.0013	0.002		<0.0013					
4/12/2013						<0.0013			

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 12/7/2018 9:39 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-3 (bg)	GWC-5	GWA-2 (bg)	GWA-2R (bg)	GWC-15R	GWA-1 (bg)	GWC-9	GWC-15_15Z	GWC-14_14Z
4/15/2013			<0.0013		<0.0013				<0.0013
4/16/2013								<0.0013	
10/8/2013									
10/9/2013							0.0013		
10/15/2013			<0.0013						
10/16/2013	<0.0013	0.0023		<0.0013		<0.0013			
10/22/2013					<0.0013			<0.0013	<0.0013
4/1/2014									
4/2/2014									
4/9/2014							0.0013 (J)		
4/10/2014				<0.0005					
4/11/2014						<0.0005			
4/14/2014									
4/21/2014					<0.0005			<0.0005	<0.0005
4/22/2014			<0.0005						
4/23/2014	0.0013 (J)	0.003							
9/30/2014			<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013
10/1/2014									
10/2/2014									
10/3/2014		0.0034							
10/4/2014	0.00081 (J)								
3/30/2015			<0.0013	<0.0013		0.0012 (J)			
3/31/2015	0.0021	0.00079 (J)							
4/1/2015									
4/2/2015							0.00064 (J)		
4/3/2015					<0.0013			<0.0013	<0.0013
5/26/2015									
6/18/2015									
7/2/2015									
10/6/2015								<0.0013	
10/7/2015					<0.0013				<0.0013
10/8/2015									
10/9/2015									
10/10/2015							0.001175 (D)		
10/11/2015									
10/12/2015	0.00078 (J)	0.00063 (J)							
10/13/2015			<0.0013	<0.0013		<0.0013			
10/14/2015									
10/15/2015									
3/22/2016						<0.01			
3/23/2016	<0.01		<0.01	<0.01					
3/28/2016		<0.01							
3/29/2016									
3/30/2016							<0.01		
3/31/2016									
4/4/2016									
4/5/2016					<0.01			<0.01	<0.01
5/19/2016				<0.01		<0.01			
5/20/2016			<0.01						
5/23/2016	<0.01								
5/24/2016									
5/25/2016		<0.01							

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 12/7/2018 9:39 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-3 (bg)	GWC-5	GWA-2 (bg)	GWA-2R (bg)	GWC-15R	GWA-1 (bg)	GWC-9	GWC-15_15Z	GWC-14_14Z
5/26/2016							<0.01		
5/27/2016									
5/31/2016					<0.01			<0.01	
6/1/2016									<0.01
7/29/2016	0.0007 (J)		<0.01	<0.01		0.0004 (J)			
8/1/2016		0.0005 (J)							
8/2/2016									
8/3/2016									
8/4/2016					<0.01				
8/5/2016							<0.01		
8/9/2016									0.0003 (J)
9/22/2016	0.0007 (J)			<0.01					
9/23/2016			<0.01			<0.01			
9/26/2016									
9/27/2016		<0.01							
9/28/2016							<0.01		
9/29/2016					<0.01				
9/30/2016									
11/9/2016			<0.01			<0.01			
11/10/2016	0.0007 (J)			<0.01					
11/11/2016		0.0006 (J)							
11/14/2016									
11/18/2016									
11/21/2016							<0.01		
11/22/2016									
11/23/2016					<0.01			<0.01	
11/28/2016									<0.01
1/30/2017						<0.01			
1/31/2017	0.0007 (J)	0.0007 (J)	<0.01	<0.01					
2/1/2017									
2/3/2017									
2/6/2017							<0.01		
2/7/2017									
2/8/2017									
2/9/2017									<0.01
2/10/2017					<0.01			<0.01	
2/13/2017									
2/22/2017									
3/30/2017	0.0007 (J)		<0.01			<0.01			
4/3/2017		0.0005 (J)		<0.01					
4/6/2017							<0.01		
4/7/2017									
4/10/2017									
4/11/2017								<0.01	<0.01
4/12/2017					0.0006 (J)				
6/9/2017				<0.01		<0.01			
6/12/2017	0.0007 (J)	0.0004 (J)	<0.01						
6/13/2017							<0.01		
6/14/2017									<0.01
6/15/2017					0.0004 (J)			<0.01	
6/16/2017									
7/12/2017								<0.01	<0.01

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 12/7/2018 9:39 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-3 (bg)	GWC-5	GWA-2 (bg)	GWA-2R (bg)	GWC-15R	GWA-1 (bg)	GWC-9	GWC-15_15Z	GWC-14_14Z
7/14/2017									
7/20/2017									
7/26/2017								<0.01	
7/28/2017									
8/9/2017									
8/10/2017									
8/24/2017									
10/2/2017			<0.01	<0.01		<0.01			
10/3/2017		0.0003 (J)					<0.01		
10/4/2017	0.0006 (J)								
10/5/2017									<0.01
10/6/2017					<0.01			<0.01	
10/9/2017									
3/16/2018				<0.01		<0.01			
3/19/2018	0.00059 (J)	<0.01	<0.01						
3/20/2018							<0.01		
3/21/2018									
3/22/2018									<0.01
3/23/2018					<0.01			<0.01	
9/14/2018			<0.01	<0.01					
9/17/2018	0.00057 (J)	<0.01				<0.01 (D)			
9/18/2018							<0.01 (D)		
9/19/2018					<0.01			<0.01	0.00058 (J)
9/20/2018									

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 12/7/2018 9:39 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50R (bg)	GWA-50 (bg)	GWC-8RR	GWC-8Z	GWC-6RZ	GWC-7Z	GWA-4RZ (bg)
8/21/2007							
8/22/2007							
8/23/2007							
8/24/2007							
10/23/2007							
10/24/2007							
10/25/2007							
11/1/2007							
11/2/2007							
11/17/2007							
11/18/2007							
11/19/2007							
11/20/2007							
1/15/2008							
1/16/2008							
1/23/2008							
1/30/2008							
1/31/2008							
3/5/2008							
3/6/2008							
3/10/2008							
3/11/2008							
5/6/2008							
5/7/2008							
5/8/2008							
5/12/2008							
5/13/2008							
5/14/2008							
12/2/2008							
12/4/2008							
12/5/2008							
12/11/2008							
12/12/2008	<0.0025	<0.0025					
12/13/2008							
12/14/2008							
4/15/2009							
4/16/2009							
4/21/2009							
4/23/2009	0.0029	<0.0025					
4/24/2009							
4/28/2009							
4/29/2009							
10/6/2009	<0.0025	<0.0025					
10/7/2009							
10/8/2009							
10/9/2009							
10/13/2009							
10/19/2009							
10/20/2009							
10/21/2009							
10/22/2009							
4/20/2010							

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 12/7/2018 9:39 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50R (bg)	GWA-50 (bg)	GWC-8RR	GWC-8Z	GWC-6RZ	GWC-7Z	GWA-4RZ (bg)
4/21/2010							
4/26/2010							
4/27/2010		<0.0025					
4/28/2010							
5/3/2010	<0.0025						
5/4/2010							
9/28/2010							
9/29/2010							
9/30/2010		<0.0025					
10/4/2010							
10/5/2010							
10/6/2010							
10/11/2010	<0.0025						
10/12/2010							
4/12/2011							
4/13/2011							
4/14/2011		<0.0025					
4/18/2011							
4/19/2011							
4/20/2011							
4/21/2011							
4/26/2011							
4/27/2011	0.0028						
4/28/2011							
10/4/2011							
10/5/2011		<0.0025					
10/12/2011							
10/13/2011							
10/17/2011							
10/18/2011			<0.0025				
10/19/2011	<0.0025						
4/3/2012							
4/4/2012							
4/11/2012		<0.005					
4/23/2012							
4/24/2012							
4/25/2012							
4/30/2012			<0.005				
5/1/2012	<0.005						
5/2/2012							
10/2/2012	<0.0013	<0.0013					
10/3/2012			<0.0013				
10/8/2012							
10/9/2012							
10/10/2012							
4/2/2013							
4/3/2013							
4/8/2013			<0.0013				
4/9/2013		<0.0013					
4/10/2013	0.0014						
4/11/2013							
4/12/2013							

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 12/7/2018 9:39 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50R (bg)	GWA-50 (bg)	GWC-8RR	GWC-8Z	GWC-6RZ	GWC-7Z	GWA-4RZ (bg)
4/15/2013							
4/16/2013							
10/8/2013							
10/9/2013			<0.0013				
10/15/2013		<0.0013					
10/16/2013	0.0014						
10/22/2013							
4/1/2014							
4/2/2014							
4/9/2014							
4/10/2014		<0.0005	0.0013 (J)				
4/11/2014							
4/14/2014							
4/21/2014							
4/22/2014	0.0013						
4/23/2014							
9/30/2014							
10/1/2014	<0.0013	<0.0013					
10/2/2014			<0.0013				
10/3/2014							
10/4/2014							
3/30/2015	0.00079 (J)	<0.0013					
3/31/2015							
4/1/2015							
4/2/2015							
4/3/2015			<0.0013				
5/26/2015				0.0018	<0.0013		
6/18/2015				0.0018 (D)	<0.0013 (D)		
7/2/2015				0.0013	<0.0013		
10/6/2015							
10/7/2015							
10/8/2015			0.0014	<0.0013			
10/9/2015					<0.0013		
10/10/2015							
10/11/2015	<0.0013	<0.0013					
10/12/2015							
10/13/2015							
10/14/2015							
10/15/2015							
3/22/2016				<0.01			
3/23/2016							
3/28/2016	<0.01	<0.01					
3/29/2016					<0.01		
3/30/2016			<0.01				
3/31/2016							
4/4/2016							
4/5/2016							
5/19/2016							
5/20/2016							
5/23/2016		<0.01					
5/24/2016			<0.01		<0.01		
5/25/2016	<0.01			<0.01			

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 12/7/2018 9:39 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50R (bg)	GWA-50 (bg)	GWC-8RR	GWC-8Z	GWC-6RZ	GWC-7Z	GWA-4RZ (bg)
5/26/2016							
5/27/2016							
5/31/2016						<0.01	
6/1/2016							
7/29/2016							
8/1/2016	<0.01	<0.01			<0.01		
8/2/2016			<0.01	<0.01		0.0018 (J)	
8/3/2016							
8/4/2016							
8/5/2016							
8/9/2016							
9/22/2016							
9/23/2016							
9/26/2016	<0.01	<0.01		<0.01	<0.01		
9/27/2016			<0.01			0.0011 (J)	
9/28/2016							
9/29/2016							
9/30/2016							
11/9/2016							
11/10/2016		<0.01					
11/11/2016	<0.01						
11/14/2016					<0.01		
11/18/2016							
11/21/2016				<0.01		0.0008 (J)	
11/22/2016			<0.01				
11/23/2016							
11/28/2016							
1/30/2017	<0.01	<0.01					
1/31/2017							
2/1/2017					<0.01	0.0008 (J)	
2/3/2017				<0.01			
2/6/2017			<0.01				
2/7/2017							
2/8/2017							
2/9/2017							
2/10/2017							
2/13/2017							
2/22/2017							<0.01
3/30/2017							
4/3/2017	<0.01						
4/6/2017			<0.01		<0.01	0.0008 (J)	
4/7/2017		<0.01		<0.01			0.0018 (J)
4/10/2017							
4/11/2017							
4/12/2017							
6/9/2017							
6/12/2017	<0.01	<0.01					
6/13/2017				<0.01	<0.01	0.0007 (J)	
6/14/2017			<0.01				0.0045 (J)
6/15/2017							
6/16/2017							
7/12/2017							0.0046 (J)

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 12/7/2018 9:39 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50R (bg)	GWA-50 (bg)	GWC-8RR	GWC-8Z	GWC-6RZ	GWC-7Z	GWA-4RZ (bg)
7/14/2017						0.0005 (J)	
7/20/2017							0.0109
7/26/2017							
7/28/2017							0.0104
8/9/2017							0.0022 (J)
8/10/2017							
8/24/2017							0.0076 (J)
10/2/2017	<0.01	<0.01					
10/3/2017				<0.01	<0.01	0.0007 (J)	0.0028 (J)
10/4/2017			<0.01				
10/5/2017							
10/6/2017							
10/9/2017							
3/16/2018	<0.01	<0.01					
3/19/2018							
3/20/2018				<0.01	<0.01	0.00076 (J)	
3/21/2018			<0.01				0.014
3/22/2018							
3/23/2018							
9/14/2018							
9/17/2018		<0.01			<0.01		
9/18/2018	<0.01		<0.01	<0.01		0.00055 (J)	0.017
9/19/2018							
9/20/2018							

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 12/7/2018 9:39 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-13	GWC-10	GWC-13R_13RZ	GWC-10R	GWC-11R	GWC-11	GWC-12	GWC-6R	GWC-6
8/21/2007	<0.0025	0.0058	<0.0025	0.007	0.0032	<0.0025	<0.0025		
8/22/2007								0.012	0.0033
8/23/2007									
8/24/2007									
10/23/2007									
10/24/2007									
10/25/2007								0.034	<0.0025
11/1/2007	<0.0025	<0.0025	<0.0025	<0.0025	0.0031	<0.0025	<0.0025		
11/2/2007									
11/17/2007									
11/18/2007					<0.0025	<0.0025			
11/19/2007	0.0035		0.0043				0.0029	0.038	
11/20/2007		0.006		0.0032					0.0052
1/15/2008									
1/16/2008							0.0067		
1/23/2008								0.027	0.0069
1/30/2008		0.0037		0.0039	<0.0025	<0.0025			
1/31/2008	<0.0025		<0.0025						
3/5/2008	<0.0025		<0.0025			<0.0025	0.0058		
3/6/2008		0.004		<0.0025	<0.0025				
3/10/2008									
3/11/2008								0.025	0.0029
5/6/2008									
5/7/2008			<0.0025		0.0029	0.0037			
5/8/2008				0.0039					
5/12/2008	<0.0025	<0.0025							
5/13/2008							<0.0025		
5/14/2008								0.031	0.0035
12/2/2008									
12/4/2008									
12/5/2008									
12/11/2008									<0.0025
12/12/2008			0.013					0.013	
12/13/2008	0.0028	0.0051					<0.0025		
12/14/2008				0.0046	<0.0025	<0.0025			
4/15/2009									
4/16/2009							0.0032		
4/21/2009									
4/23/2009									0.0038
4/24/2009								0.014	
4/28/2009	<0.0025								
4/29/2009		0.003	0.0029	<0.0025	<0.0025	<0.0025			
10/6/2009									
10/7/2009									
10/8/2009									
10/9/2009								0.0076	0.0032
10/13/2009									
10/19/2009									
10/20/2009		<0.0025							
10/21/2009	<0.0025		<0.0025	<0.0025			<0.0025		
10/22/2009					<0.0025	<0.0025			
4/20/2010									

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 12/7/2018 9:39 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-13	GWC-10	GWC-13R_13RZ	GWC-10R	GWC-11R	GWC-11	GWC-12	GWC-6R	GWC-6
4/21/2010				<0.0025	<0.0025	<0.0025			
4/26/2010		<0.0025							
4/27/2010							0.0034		
4/28/2010	<0.0025		0.0032						
5/3/2010									
5/4/2010								0.0053	<0.0025
9/28/2010				<0.0025		0.0028			
9/29/2010		<0.0025			<0.0025				
9/30/2010									
10/4/2010									
10/5/2010	<0.0025						<0.0025		
10/6/2010			<0.0025						
10/11/2010									0.0029
10/12/2010								0.0063	
4/12/2011				<0.0025		<0.0025			
4/13/2011		<0.0025			<0.0025				
4/14/2011									
4/18/2011									
4/19/2011	<0.0025						<0.0025		
4/20/2011			<0.0025						
4/21/2011									
4/26/2011									<0.0025
4/27/2011									
4/28/2011								0.0059	
10/4/2011				<0.013	<0.013	0.013			
10/5/2011		<0.013							
10/12/2011			<0.013				<0.013		
10/13/2011									
10/17/2011									
10/18/2011	<0.013							<0.013	<0.013
10/19/2011									
4/3/2012				<0.005		<0.005			
4/4/2012		<0.005			<0.005				
4/11/2012									
4/23/2012									
4/24/2012							<0.005		
4/25/2012	<0.005		<0.005						
4/30/2012									
5/1/2012								<0.005	
5/2/2012									<0.005
10/2/2012	<0.005		<0.005				<0.005		
10/3/2012		<0.005			<0.005	<0.005			
10/8/2012				<0.005					<0.005
10/9/2012								0.0053	
10/10/2012									
4/2/2013	<0.005		<0.005				0.0063		
4/3/2013		<0.005		<0.005	<0.005	<0.005			
4/8/2013									
4/9/2013								0.0051	
4/10/2013									<0.005
4/11/2013									
4/12/2013									

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 12/7/2018 9:39 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-13	GWC-10	GWC-13R_13RZ	GWC-10R	GWC-11R	GWC-11	GWC-12	GWC-6R	GWC-6
4/15/2013									
4/16/2013									
10/8/2013	<0.005		<0.005						<0.005
10/9/2013					<0.005	<0.005	<0.005		
10/15/2013		<0.005		<0.005					
10/16/2013									
10/22/2013									
4/1/2014	<0.000825		0.005 (J)				<0.000825		
4/2/2014					0.005 (J)	<0.000825			
4/9/2014		<0.000825		<0.000825					
4/10/2014									
4/11/2014									
4/14/2014									0.005 (J)
4/21/2014									
4/22/2014									
4/23/2014									
9/30/2014									
10/1/2014	<0.005		<0.005						
10/2/2014		<0.005		<0.005	0.0022 (J)	0.00084 (J)	<0.005		
10/3/2014									0.00091 (J)
10/4/2014									
3/30/2015									
3/31/2015			<0.005						
4/1/2015	<0.005				0.019 (O)	<0.005	<0.005		0.0011 (J)
4/2/2015		<0.005		<0.005					
4/3/2015									
5/26/2015									
6/18/2015									
7/2/2015									
10/6/2015									
10/7/2015									
10/8/2015									
10/9/2015									<0.005
10/10/2015		0.0027 (J)							
10/11/2015					0.013	<0.005			
10/12/2015				<0.005					
10/13/2015									
10/14/2015			<0.005				0.0017 (J)		
10/15/2015	<0.005								
3/22/2016									
3/23/2016									
3/28/2016									
3/29/2016									<0.025
3/30/2016									
3/31/2016		<0.025		<0.025					
4/4/2016	<0.025		<0.025		<0.025	<0.025	<0.025		
4/5/2016									
7/29/2016									
8/1/2016									<0.025
8/2/2016									
8/3/2016				<0.025		<0.025	<0.025		
8/4/2016	<0.025				<0.025				

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 12/7/2018 9:39 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-13	GWC-10	GWC-13R_13RZ	GWC-10R	GWC-11R	GWC-11	GWC-12	GWC-6R	GWC-6
8/5/2016		<0.025							
8/9/2016									
3/30/2017									
4/3/2017									
4/6/2017									<0.025
4/7/2017									
4/10/2017		<0.025		<0.025	<0.025	<0.025			
4/11/2017			<0.025				0.0003 (J)		
4/12/2017	0.0003 (J)								
10/2/2017									
10/3/2017									<0.025
10/4/2017		<0.025		<0.025	<0.025	<0.025	<0.025		
10/5/2017									
10/6/2017			<0.025						
10/9/2017	0.0005 (J)								
3/16/2018									
3/19/2018									<0.025
3/20/2018		<0.025							
3/21/2018	<0.025			<0.025		<0.025			
3/22/2018					<0.025		<0.025		
3/23/2018			<0.025						
9/14/2018									
9/17/2018									<0.025
9/18/2018		<0.025		<0.025	<0.025	<0.025	<0.025		
9/19/2018	<0.025								
9/20/2018			<0.025						

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 12/7/2018 9:39 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-5	GWA-2 (bg)	GWC-15R	GWA-3 (bg)	GWA-2R (bg)	GWC-9	GWA-1 (bg)	GWC-14_14Z	GWC-15_15Z
8/21/2007									
8/22/2007									
8/23/2007	0.0064	<0.0025	<0.0025	0.017	0.0036	<0.0025	0.0066		
8/24/2007								0.0048 (J)	0.021
10/23/2007							0.0076		
10/24/2007		0.0088			<0.0025				
10/25/2007	0.0081								
11/1/2007						0.0047			
11/2/2007			<0.0025	0.016				<0.0025	0.0037
11/17/2007			0.02 (O)					0.0031	
11/18/2007		0.0075		0.048	0.013 (O)		0.0055 (J)		0.007 (J)
11/19/2007	0.0059					0.0067 (J)			
11/20/2007									
1/15/2008			0.0043			0.01		0.0033	0.0055
1/16/2008									
1/23/2008	0.018								
1/30/2008							0.0094		
1/31/2008		<0.0025		0.039	0.0069				
3/5/2008								0.0026	
3/6/2008			<0.0025			0.007			
3/10/2008					0.0044		0.0056		0.0042
3/11/2008	0.027	0.0068		0.037					
5/6/2008		<0.0025							
5/7/2008			0.0026					0.0028	
5/8/2008									
5/12/2008	0.016								
5/13/2008					0.0033	<0.0025	0.0027		<0.0025
5/14/2008				0.051					
12/2/2008			<0.0025					0.0029	0.0039
12/4/2008		0.013			<0.0025				
12/5/2008				0.038			<0.0025		
12/11/2008	0.016								
12/12/2008						0.0048			
12/13/2008									
12/14/2008									
4/15/2009	0.017			0.033			<0.0025		
4/16/2009						0.0042		0.0035	
4/21/2009		<0.0025			<0.0025				
4/23/2009									
4/24/2009									
4/28/2009			0.003						<0.0025
4/29/2009									
10/6/2009									
10/7/2009		<0.0025					0.0076		
10/8/2009				0.037	<0.0025				
10/9/2009	0.045								
10/13/2009						0.0034			
10/19/2009			<0.0025						
10/20/2009								0.0056	<0.0025
10/21/2009									
10/22/2009									
4/20/2010								<0.0025	

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 12/7/2018 9:39 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-5	GWA-2 (bg)	GWC-15R	GWA-3 (bg)	GWA-2R (bg)	GWC-9	GWA-1 (bg)	GWC-14_14Z	GWC-15_15Z
4/21/2010					<0.0025	<0.0025			
4/26/2010		<0.0025							
4/27/2010			<0.0025						<0.0025
4/28/2010				0.037					
5/3/2010							<0.0025		
5/4/2010	0.031								
9/28/2010					<0.0025				
9/29/2010						<0.0025		<0.0025	
9/30/2010									
10/4/2010		0.0027	0.0025						
10/5/2010									<0.0025
10/6/2010				0.041					
10/11/2010									
10/12/2010	0.024						<0.0025		
4/12/2011					<0.0025			<0.0025	
4/13/2011		0.0029				<0.0025			
4/14/2011									
4/18/2011			<0.0025						
4/19/2011									<0.0025
4/20/2011									
4/21/2011				0.034					
4/26/2011									
4/27/2011							<0.0025		
4/28/2011	0.0044								
10/4/2011					<0.013			<0.013	
10/5/2011		<0.013				<0.013			
10/12/2011			<0.013						<0.013
10/13/2011				0.048					
10/17/2011							<0.013		
10/18/2011									
10/19/2011	0.038								
4/3/2012					<0.005				
4/4/2012						<0.005		<0.005	
4/11/2012		<0.005							
4/23/2012			<0.005						
4/24/2012									
4/25/2012									<0.005
4/30/2012									
5/1/2012				0.0427					
5/2/2012	0.0865 (O)						<0.005		
10/2/2012									
10/3/2012									
10/8/2012						<0.005	<0.005		
10/9/2012	0.053	<0.005		0.038	<0.005				
10/10/2012			<0.005					<0.005	<0.005
4/2/2013									
4/3/2013									
4/8/2013						<0.005			
4/9/2013									
4/10/2013									
4/11/2013	0.04			0.038	<0.005				
4/12/2013							<0.005		

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 12/7/2018 9:39 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-5	GWA-2 (bg)	GWC-15R	GWA-3 (bg)	GWA-2R (bg)	GWC-9	GWA-1 (bg)	GWC-14_14Z	GWC-15_15Z
4/15/2013		<0.005	<0.005					<0.005	
4/16/2013									<0.005
10/8/2013									
10/9/2013						<0.005			
10/15/2013		<0.005							
10/16/2013	0.054			0.036	<0.005		<0.005		
10/22/2013			<0.005					<0.005	<0.005
4/1/2014									
4/2/2014									
4/9/2014						<0.000825			
4/10/2014					0.005 (J)				
4/11/2014							0.005 (J)		
4/14/2014									
4/21/2014			<0.000825					<0.000825	0.005 (J)
4/22/2014		<0.000825							
4/23/2014	0.054			0.03					
9/30/2014		<0.005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005
10/1/2014									
10/2/2014									
10/3/2014	0.066								
10/4/2014				0.029					
3/30/2015		<0.005			<0.005		0.0033 (J)		
3/31/2015	0.025			0.026					
4/1/2015									
4/2/2015						<0.005			
4/3/2015			<0.005					<0.005	<0.005
5/26/2015									
6/18/2015									
7/2/2015									
10/6/2015									<0.005
10/7/2015			0.00093 (J)					0.0012 (J)	
10/8/2015									
10/9/2015									
10/10/2015						0.0022 (D)			
10/11/2015									
10/12/2015	0.018			0.05					
10/13/2015		<0.005			<0.005		0.0013 (J)		
10/14/2015									
10/15/2015									
3/22/2016							<0.025		
3/23/2016		<0.025		0.0297	<0.025				
3/28/2016	0.0256								
3/29/2016									
3/30/2016						<0.025			
3/31/2016									
4/4/2016									
4/5/2016			<0.025					<0.025	<0.025
7/29/2016		0.0032 (J)		0.0419	0.0006 (J)		<0.025		
8/1/2016	0.0178 (J)								
8/2/2016									
8/3/2016									
8/4/2016			0.0007 (J)						

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 12/7/2018 9:39 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-5	GWA-2 (bg)	GWC-15R	GWA-3 (bg)	GWA-2R (bg)	GWC-9	GWA-1 (bg)	GWC-14_14Z	GWC-15_15Z
8/5/2016						<0.025			
8/9/2016								<0.025	
3/30/2017		<0.025		0.0392			0.0004 (J)		
4/3/2017	0.0272				0.0004 (J)				
4/6/2017						0.0003 (J)			
4/7/2017									
4/10/2017									
4/11/2017								<0.025	0.0003 (J)
4/12/2017			<0.025						
10/2/2017		<0.025			0.0003 (J)		0.0003 (J)		
10/3/2017	0.0239 (J)					<0.025			
10/4/2017				0.0343					
10/5/2017								<0.025	
10/6/2017			0.0003 (J)						<0.025
10/9/2017									
3/16/2018					<0.025		<0.025		
3/19/2018	0.021 (J)	0.0025 (J)		0.033					
3/20/2018						<0.025			
3/21/2018									
3/22/2018								<0.025	
3/23/2018			<0.025						<0.025
9/14/2018		<0.025			<0.025				
9/17/2018	0.018 (J)			0.033			<0.025 (D)		
9/18/2018						<0.025 (D)			
9/19/2018			<0.025					<0.025	<0.025
9/20/2018									

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 12/7/2018 9:39 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50 (bg)	GWA-50R (bg)	GWC-8RR	GWC-6RZ	GWC-8Z	GWC-7Z	GWA-4RZ (bg)
8/21/2007							
8/22/2007							
8/23/2007							
8/24/2007							
10/23/2007							
10/24/2007							
10/25/2007							
11/1/2007							
11/2/2007							
11/17/2007							
11/18/2007							
11/19/2007							
11/20/2007							
1/15/2008							
1/16/2008							
1/23/2008							
1/30/2008							
1/31/2008							
3/5/2008							
3/6/2008							
3/10/2008							
3/11/2008							
5/6/2008							
5/7/2008							
5/8/2008							
5/12/2008							
5/13/2008							
5/14/2008							
12/2/2008							
12/4/2008							
12/5/2008							
12/11/2008							
12/12/2008	0.018	0.064 (O)					
12/13/2008							
12/14/2008							
4/15/2009							
4/16/2009							
4/21/2009							
4/23/2009	0.013	0.034					
4/24/2009							
4/28/2009							
4/29/2009							
10/6/2009	0.012	0.026					
10/7/2009							
10/8/2009							
10/9/2009							
10/13/2009							
10/19/2009							
10/20/2009							
10/21/2009							
10/22/2009							
4/20/2010							

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 12/7/2018 9:39 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50 (bg)	GWA-50R (bg)	GWC-8RR	GWC-6RZ	GWC-8Z	GWC-7Z	GWA-4RZ (bg)
4/21/2010							
4/26/2010							
4/27/2010	0.0095						
4/28/2010							
5/3/2010		0.014					
5/4/2010							
9/28/2010							
9/29/2010							
9/30/2010	0.0087						
10/4/2010							
10/5/2010							
10/6/2010							
10/11/2010		0.014					
10/12/2010							
4/12/2011							
4/13/2011							
4/14/2011	0.0061						
4/18/2011							
4/19/2011							
4/20/2011							
4/21/2011							
4/26/2011							
4/27/2011		0.028					
4/28/2011							
10/4/2011							
10/5/2011	<0.013						
10/12/2011							
10/13/2011							
10/17/2011							
10/18/2011			<0.013				
10/19/2011		<0.013					
4/3/2012							
4/4/2012							
4/11/2012	<0.005						
4/23/2012							
4/24/2012							
4/25/2012							
4/30/2012			<0.005				
5/1/2012		0.0198					
5/2/2012							
10/2/2012	<0.005	0.011					
10/3/2012			<0.005				
10/8/2012							
10/9/2012							
10/10/2012							
4/2/2013							
4/3/2013							
4/8/2013			<0.005				
4/9/2013	0.0053						
4/10/2013		0.018					
4/11/2013							
4/12/2013							

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 12/7/2018 9:39 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50 (bg)	GWA-50R (bg)	GWC-8RR	GWC-6RZ	GWC-8Z	GWC-7Z	GWA-4RZ (bg)
4/15/2013							
4/16/2013							
10/8/2013							
10/9/2013			<0.005				
10/15/2013	0.0076						
10/16/2013		0.016					
10/22/2013							
4/1/2014							
4/2/2014							
4/9/2014							
4/10/2014	0.005		<0.000825				
4/11/2014							
4/14/2014							
4/21/2014							
4/22/2014		0.014					
4/23/2014							
9/30/2014							
10/1/2014	0.0047 (J)	0.0041 (J)					
10/2/2014			<0.005				
10/3/2014							
10/4/2014							
3/30/2015	0.0048 (J)	0.012					
3/31/2015							
4/1/2015							
4/2/2015							
4/3/2015			<0.005				
5/26/2015				<0.005	<0.005		
6/18/2015				<0.005 (D)	0.005 (D)		
7/2/2015				<0.005	<0.005		
10/6/2015							
10/7/2015							
10/8/2015			0.002 (J)		0.00091 (J)		
10/9/2015				<0.005			
10/10/2015							
10/11/2015	0.0055	0.0049 (J)					
10/12/2015							
10/13/2015							
10/14/2015							
10/15/2015							
3/22/2016					<0.025		
3/23/2016							
3/28/2016	<0.025	0.00734 (J)					
3/29/2016				<0.025			
3/30/2016			<0.025				
3/31/2016							
4/4/2016							
4/5/2016							
7/29/2016							
8/1/2016	0.0025 (J)	0.0049 (J)		<0.025			
8/2/2016			<0.025		<0.025	<0.025	
8/3/2016							
8/4/2016							

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 12/7/2018 9:39 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50 (bg)	GWA-50R (bg)	GWC-8RR	GWC-6RZ	GWC-8Z	GWC-7Z	GWA-4RZ (bg)
8/5/2016							
8/9/2016							
3/30/2017							
4/3/2017		0.0023 (J)					
4/6/2017			<0.025	<0.025		0.0004 (J)	
4/7/2017	0.003 (J)				<0.025		0.0004 (J)
4/10/2017							
4/11/2017							
4/12/2017							
10/2/2017	0.0031 (J)	0.0023 (J)					
10/3/2017				<0.025	0.0003 (J)	0.0006 (J)	<0.025
10/4/2017			<0.025				
10/5/2017							
10/6/2017							
10/9/2017							
3/16/2018	0.0037 (J)	0.0035 (J)					
3/19/2018							
3/20/2018				<0.025	<0.025	<0.025	
3/21/2018			<0.025				<0.025
3/22/2018							
3/23/2018							
9/14/2018							
9/17/2018	0.0028 (J)			<0.025			
9/18/2018		0.0041 (J)	<0.025		<0.025	<0.025	<0.025
9/19/2018							
9/20/2018							

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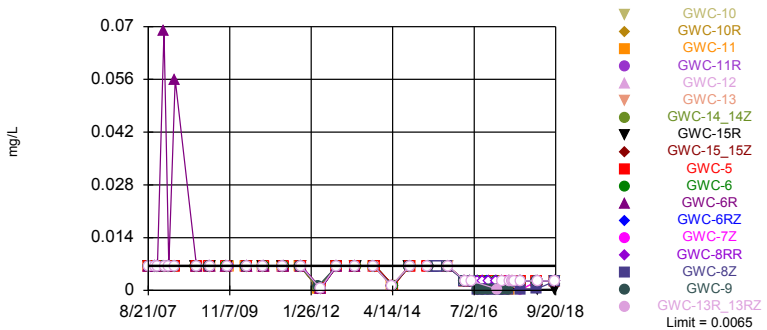
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 191 background values. 94.24% NDs. Annual per-constituent alpha = 0.00184. Individual comparison alpha = 0.00005418 (1 of 2). Comparing 18 points to limit.

Constituent: Lead Analysis Run 12/7/2018 9:23 AM View: Cells 1&2 metals OB and BR combined
Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

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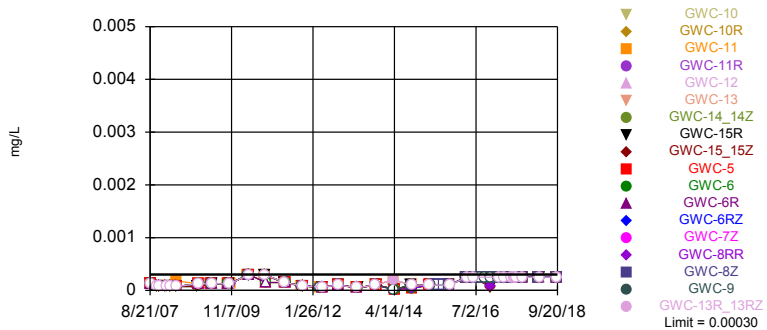
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 191 background values. 98.95% NDs. Annual per-constituent alpha = 0.00184. Individual comparison alpha = 0.00005418 (1 of 2). Comparing 18 points to limit.

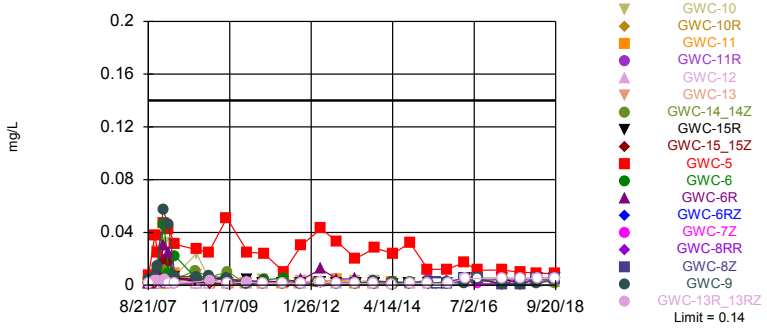
Constituent: Mercury Analysis Run 12/7/2018 9:23 AM View: Cells 1&2 metals OB and BR combined
Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

Sanitas™ v.9.5.32 Sanitas software licensed to AMEC. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 154 background values. 47.4% NDs. Annual per-constituent alpha = 0.002821. Individual comparison alpha = 0.00008309 (1 of 2). Comparing 18 points to limit.

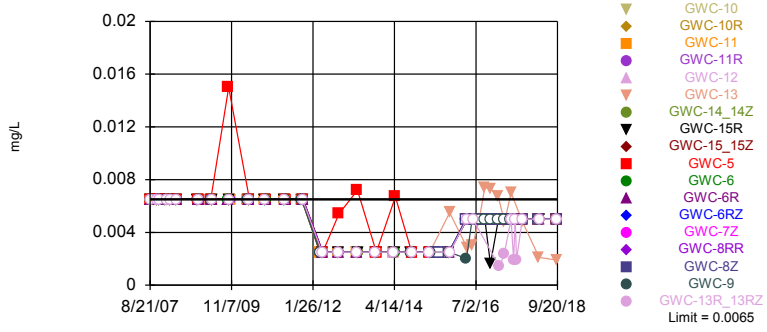
Constituent: Nickel Analysis Run 12/7/2018 9:24 AM View: Cells 1&2 metals OB and BR combined
Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

Sanitas™ v.9.5.32 Sanitas software licensed to AMEC. UG
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 191 background values. 98.43% NDs. Annual per-constituent alpha = 0.00184. Individual comparison alpha = 0.00005418 (1 of 2). Comparing 18 points to limit.

Constituent: Selenium Analysis Run 12/7/2018 9:25 AM View: Cells 1&2 metals OB and BR combined
Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 12/7/2018 9:40 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-11	GWC-10R	GWC-13	GWC-12	GWC-11R	GWC-10	GWC-13R_13RZ	GWC-6	GWC-6R
8/21/2007	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013		
8/22/2007								<0.013	<0.013
8/23/2007									
8/24/2007									
10/23/2007									
10/24/2007									
10/25/2007								<0.013	<0.013
11/1/2007	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013		
11/2/2007									
11/17/2007									
11/18/2007	<0.013				<0.013				
11/19/2007			<0.013	<0.013			<0.013		<0.013
11/20/2007		<0.013				<0.013		<0.013	
1/15/2008									
1/16/2008				<0.013					
1/23/2008								<0.013	0.069
1/30/2008	<0.013	<0.013			<0.013	<0.013			
1/31/2008			<0.013				<0.013		
3/5/2008	<0.013		<0.013	<0.013			<0.013		
3/6/2008		<0.013			<0.013	<0.013			
3/10/2008									
3/11/2008								<0.013	<0.013
5/6/2008									
5/7/2008	<0.013				<0.013		<0.013		
5/8/2008		<0.013							
5/12/2008			<0.013			<0.013			
5/13/2008				<0.013					
5/14/2008								<0.013	0.056
12/2/2008									
12/4/2008									
12/5/2008									
12/11/2008								<0.013	
12/12/2008							<0.013		<0.013
12/13/2008			<0.013	<0.013		<0.013			
12/14/2008	<0.013	<0.013			<0.013				
4/15/2009									
4/16/2009				<0.013					
4/21/2009									
4/23/2009								<0.013	
4/24/2009									<0.013
4/28/2009			<0.013						
4/29/2009	<0.013	<0.013			<0.013	<0.013	<0.013		
10/6/2009									
10/7/2009									
10/8/2009									
10/9/2009								<0.013	<0.013
10/13/2009									
10/19/2009									
10/20/2009						<0.013			
10/21/2009		<0.013	<0.013	<0.013			<0.013		
10/22/2009	<0.013				<0.013				
4/20/2010									

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 12/7/2018 9:40 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-11	GWC-10R	GWC-13	GWC-12	GWC-11R	GWC-10	GWC-13R_13RZ	GWC-6	GWC-6R
4/21/2010	<0.013	<0.013			<0.013				
4/26/2010						<0.013			
4/27/2010				<0.013					
4/28/2010			<0.013				<0.013		
5/3/2010									
5/4/2010								<0.013	<0.013
9/28/2010	<0.013	<0.013							
9/29/2010					<0.013	<0.013			
9/30/2010									
10/4/2010									
10/5/2010			<0.013	<0.013					
10/6/2010							<0.013		
10/11/2010								<0.013	
10/12/2010									<0.013
4/12/2011	<0.013	<0.013							
4/13/2011					<0.013	<0.013			
4/14/2011									
4/18/2011									
4/19/2011			<0.013	<0.013					
4/20/2011							<0.013		
4/21/2011									
4/26/2011								<0.013	
4/27/2011									
4/28/2011									<0.013
10/4/2011	<0.013	<0.013			<0.013				
10/5/2011						<0.013			
10/12/2011				<0.013			<0.013		
10/13/2011									
10/17/2011									
10/18/2011			<0.013					<0.013	<0.013
10/19/2011									
4/3/2012	<0.001	<0.001							
4/4/2012					<0.001	<0.001			
4/11/2012									
4/23/2012									
4/24/2012				<0.001					
4/25/2012			<0.001				<0.001		
4/30/2012									
5/1/2012									<0.001
5/2/2012								<0.001	
10/2/2012			<0.013	<0.013			<0.013		
10/3/2012	<0.013				<0.013	<0.013			
10/8/2012		<0.013						<0.013	
10/9/2012									<0.013
10/10/2012									
4/2/2013			<0.013	<0.013			<0.013		
4/3/2013	<0.013	<0.013			<0.013	<0.013			
4/8/2013									
4/9/2013									<0.013
4/10/2013								<0.013	
4/11/2013									
4/12/2013									

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 12/7/2018 9:40 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-11	GWC-10R	GWC-13	GWC-12	GWC-11R	GWC-10	GWC-13R_13RZ	GWC-6	GWC-6R
4/15/2013									
4/16/2013									
10/8/2013			<0.013				<0.013	<0.013	
10/9/2013	<0.013			<0.013	<0.013				
10/15/2013		<0.013				<0.013			
10/16/2013									
10/22/2013									
4/1/2014			<0.0025	<0.0025			<0.0025		
4/2/2014	<0.0025				<0.0025				
4/9/2014		<0.0025				<0.0025			
4/10/2014									
4/11/2014									
4/14/2014								<0.0025	
4/21/2014									
4/22/2014									
4/23/2014									
9/30/2014									
10/1/2014			<0.013				<0.013		
10/2/2014	<0.013	<0.013		<0.013	<0.013	<0.013			
10/3/2014								<0.013	
10/4/2014									
3/30/2015									
3/31/2015							<0.013		
4/1/2015	<0.013		<0.013	<0.013	<0.013			<0.013	
4/2/2015		<0.013				<0.013			
4/3/2015									
5/26/2015									
6/18/2015									
7/2/2015									
10/6/2015									
10/7/2015									
10/8/2015									
10/9/2015								<0.013	
10/10/2015						<0.013			
10/11/2015	<0.013				<0.013				
10/12/2015		<0.013							
10/13/2015									
10/14/2015				<0.013			<0.013		
10/15/2015			<0.013						
3/22/2016									
3/23/2016									
3/28/2016									
3/29/2016								<0.005	
3/30/2016									
3/31/2016		<0.005				<0.005			
4/4/2016	<0.005		<0.005	<0.005	<0.005		<0.005		
4/5/2016									
5/19/2016									
5/20/2016									
5/23/2016									
5/24/2016								<0.005	
5/25/2016									

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 12/7/2018 9:40 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-11	GWC-10R	GWC-13	GWC-12	GWC-11R	GWC-10	GWC-13R_13RZ	GWC-6	GWC-6R
5/26/2016	<0.005	<0.005			<0.005	<0.005			
5/27/2016				<0.005					
5/31/2016			<0.005						
6/1/2016							<0.005		
7/29/2016									
8/1/2016								<0.005	
8/2/2016									
8/3/2016	<0.005	<0.005		<0.005					
8/4/2016			0.0001 (J)		<0.005				
8/5/2016						<0.005			
8/9/2016									
9/22/2016									
9/23/2016									
9/26/2016								0.0003 (J)	
9/27/2016									
9/28/2016	<0.005	<0.005			<0.005	<0.005			
9/29/2016			0.0001 (J)						
9/30/2016				<0.005					
11/9/2016									
11/10/2016									
11/11/2016									
11/14/2016									
11/18/2016								<0.005	
11/21/2016									
11/22/2016	<0.005	<0.005		<0.005	<0.005	<0.005			
11/23/2016									
11/28/2016			<0.005						
1/30/2017									
1/31/2017									
2/1/2017								<0.005	
2/3/2017									
2/6/2017									
2/7/2017		<0.005				<0.005			
2/8/2017	<0.005				<0.005				
2/9/2017			0.0001 (J)						
2/10/2017									
2/13/2017				<0.005					
2/22/2017							0.0003 (J)		
3/30/2017									
4/3/2017									
4/6/2017								7E-05 (J)	
4/7/2017									
4/10/2017	<0.005	<0.005			<0.005	<0.005			
4/11/2017				<0.005 (*)			<0.005		
4/12/2017			<0.005 (*)						
6/9/2017									
6/12/2017									
6/13/2017								<0.005	
6/14/2017		<0.005		<0.005		<0.005			
6/15/2017	9E-05 (J)				<0.005				
6/16/2017			0.0002 (J)				<0.005		
7/12/2017							<0.005		

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 12/7/2018 9:40 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-11	GWC-10R	GWC-13	GWC-12	GWC-11R	GWC-10	GWC-13R_13RZ	GWC-6	GWC-6R
7/14/2017									
7/20/2017									
7/26/2017									
7/28/2017							<0.005		
8/9/2017									
8/10/2017							<0.005		
8/24/2017									
10/2/2017									
10/3/2017								<0.005	
10/4/2017	<0.005	<0.005		<0.005	<0.005	<0.005			
10/5/2017									
10/6/2017							<0.005		
10/9/2017			0.0001 (J)						
3/16/2018									
3/19/2018								<0.005	
3/20/2018						<0.005			
3/21/2018	<0.005	<0.005	<0.005						
3/22/2018				<0.005	<0.005				
3/23/2018							<0.005		
9/14/2018									
9/17/2018								<0.005	
9/18/2018	<0.005	<0.005		<0.005	<0.005	<0.005			
9/19/2018			<0.005						
9/20/2018							<0.005		

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 12/7/2018 9:40 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-2 (bg)	GWC-15R	GWA-3 (bg)	GWA-2R (bg)	GWC-5	GWA-1 (bg)	GWC-9	GWC-15_15Z	GWC-14_14Z
8/21/2007									
8/22/2007									
8/23/2007	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013		
8/24/2007								<0.013	<0.013
10/23/2007						<0.013			
10/24/2007	<0.013			<0.013					
10/25/2007					<0.013				
11/1/2007							<0.013		
11/2/2007		<0.013	<0.013					<0.013	<0.013
11/17/2007		<0.013							<0.013
11/18/2007	<0.013		<0.013	<0.013		<0.013		<0.013	
11/19/2007					<0.013		<0.013		
11/20/2007									
1/15/2008		<0.013					<0.013	<0.013	<0.013
1/16/2008									
1/23/2008					<0.013				
1/30/2008						<0.013			
1/31/2008	<0.013		<0.013	<0.013					
3/5/2008									<0.013
3/6/2008		<0.013					<0.013		
3/10/2008				<0.013		<0.013		<0.013	
3/11/2008	<0.013		<0.013		<0.013				
5/6/2008	<0.013								
5/7/2008		<0.013							<0.013
5/8/2008									
5/12/2008					<0.013				
5/13/2008				<0.013		<0.013	<0.013	<0.013	
5/14/2008			<0.013						
12/2/2008		<0.013						<0.013	<0.013
12/4/2008	<0.013			<0.013					
12/5/2008			<0.013			<0.013			
12/11/2008					<0.013				
12/12/2008							<0.013		
12/13/2008									
12/14/2008									
4/15/2009			<0.013		<0.013	<0.013			
4/16/2009							<0.013		<0.013
4/21/2009	<0.013			<0.013					
4/23/2009									
4/24/2009									
4/28/2009		<0.013						<0.013	
4/29/2009									
10/6/2009									
10/7/2009	<0.013					<0.013			
10/8/2009			<0.013	<0.013					
10/9/2009					<0.013				
10/13/2009							<0.013		
10/19/2009		<0.013							
10/20/2009								<0.013	<0.013
10/21/2009									
10/22/2009									
4/20/2010									<0.013

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 12/7/2018 9:40 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-2 (bg)	GWC-15R	GWA-3 (bg)	GWA-2R (bg)	GWC-5	GWA-1 (bg)	GWC-9	GWC-15_15Z	GWC-14_14Z
4/21/2010				<0.013			<0.013		
4/26/2010	<0.013								
4/27/2010		<0.013						<0.013	
4/28/2010			<0.013						
5/3/2010						<0.013			
5/4/2010					<0.013				
9/28/2010				<0.013					
9/29/2010							<0.013		<0.013
9/30/2010									
10/4/2010	<0.013	<0.013							
10/5/2010								<0.013	
10/6/2010			<0.013						
10/11/2010									
10/12/2010					<0.013	<0.013			
4/12/2011				<0.013					<0.013
4/13/2011	<0.013						<0.013		
4/14/2011									
4/18/2011		<0.013							
4/19/2011								<0.013	
4/20/2011									
4/21/2011			<0.013						
4/26/2011									
4/27/2011						<0.013			
4/28/2011					<0.013				
10/4/2011				<0.013					<0.013
10/5/2011	<0.013						<0.013		
10/12/2011		<0.013						<0.013	
10/13/2011			<0.013						
10/17/2011						<0.013			
10/18/2011									
10/19/2011					<0.013				
4/3/2012				<0.001					
4/4/2012							0.0012		<0.001
4/11/2012	<0.001								
4/23/2012		<0.001							
4/24/2012									
4/25/2012								<0.001	
4/30/2012									
5/1/2012			<0.001						
5/2/2012					<0.001	<0.001			
10/2/2012									
10/3/2012									
10/8/2012						<0.013	<0.013		
10/9/2012	<0.013		<0.013	<0.013	<0.013				
10/10/2012		<0.013						<0.013	<0.013
4/2/2013									
4/3/2013									
4/8/2013							<0.013		
4/9/2013									
4/10/2013									
4/11/2013			<0.013	<0.013	<0.013				
4/12/2013						<0.013			

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 12/7/2018 9:40 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-2 (bg)	GWC-15R	GWA-3 (bg)	GWA-2R (bg)	GWC-5	GWA-1 (bg)	GWC-9	GWC-15_15Z	GWC-14_14Z
4/15/2013	<0.013	<0.013							<0.013
4/16/2013								<0.013	
10/8/2013									
10/9/2013							<0.013		
10/15/2013	<0.013								
10/16/2013			<0.013	<0.013	<0.013	<0.013			
10/22/2013		<0.013						<0.013	<0.013
4/1/2014									
4/2/2014									
4/9/2014							<0.0025		
4/10/2014				<0.0025					
4/11/2014						<0.0025			
4/14/2014									
4/21/2014		<0.0025						<0.0025	<0.0025
4/22/2014	<0.0025								
4/23/2014			<0.0025		<0.0025				
9/30/2014	<0.013	<0.013		<0.013		<0.013	<0.013	<0.013	<0.013
10/1/2014									
10/2/2014									
10/3/2014					<0.013				
10/4/2014			<0.013						
3/30/2015	<0.013			<0.013		0.0028 (J)			
3/31/2015			<0.013		<0.013				
4/1/2015									
4/2/2015							<0.013		
4/3/2015		<0.013						<0.013	<0.013
5/26/2015									
6/18/2015									
7/2/2015									
10/6/2015								<0.013	
10/7/2015		<0.013							<0.013
10/8/2015									
10/9/2015									
10/10/2015							<0.013 (D)		
10/11/2015									
10/12/2015			<0.013		<0.013				
10/13/2015	<0.013			<0.013		<0.013			
10/14/2015									
10/15/2015									
3/22/2016						<0.005			
3/23/2016	<0.005		<0.005	<0.005					
3/28/2016					<0.005				
3/29/2016									
3/30/2016							<0.005		
3/31/2016									
4/4/2016									
4/5/2016		<0.005						<0.005	<0.005
5/19/2016				<0.005		<0.005			
5/20/2016	<0.005								
5/23/2016			<0.005						
5/24/2016									
5/25/2016					<0.005				

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 12/7/2018 9:40 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-2 (bg)	GWC-15R	GWA-3 (bg)	GWA-2R (bg)	GWC-5	GWA-1 (bg)	GWC-9	GWC-15_15Z	GWC-14_14Z
5/26/2016							<0.005		
5/27/2016									
5/31/2016		<0.005						<0.005	
6/1/2016									<0.005
7/29/2016	0.0001 (J)		<0.005	<0.005		0.0002 (J)			
8/1/2016					<0.005				
8/2/2016									
8/3/2016									
8/4/2016		<0.005							
8/5/2016							0.0001 (J)		
8/9/2016									<0.005
9/22/2016			<0.005 (*)	<0.005					
9/23/2016	<0.005					<0.005 (*)			
9/26/2016									
9/27/2016					<0.005				
9/28/2016							0.0002 (J)		
9/29/2016		0.0008 (J)							
9/30/2016									
11/9/2016	<0.005					0.0004 (J)			
11/10/2016			<0.005	<0.005					
11/11/2016					<0.005				
11/14/2016									
11/18/2016									
11/21/2016							0.0002 (J)		
11/22/2016									
11/23/2016		0.0011 (J)						<0.005	
11/28/2016									<0.005
1/30/2017						<0.005 (*)			
1/31/2017	<0.005 (*)		<0.005	<0.005	<0.005				
2/1/2017									
2/3/2017									
2/6/2017							0.0001 (J)		
2/7/2017									
2/8/2017									
2/9/2017									0.0002 (J)
2/10/2017		<0.005						<0.005	
2/13/2017									
2/22/2017									
3/30/2017	<0.005		<0.005			8E-05 (J)			
4/3/2017				<0.005	<0.005				
4/6/2017							0.0001 (J)		
4/7/2017									
4/10/2017									
4/11/2017								<0.005 (*)	<0.005
4/12/2017		<0.005 (*)							
6/9/2017				<0.005		0.0001 (J)			
6/12/2017	<0.005		<0.005		<0.005				
6/13/2017							8E-05 (J)		
6/14/2017									<0.005
6/15/2017		0.0005 (J)						<0.005	
6/16/2017									
7/12/2017								<0.005	<0.005

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 12/7/2018 9:40 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-2 (bg)	GWC-15R	GWA-3 (bg)	GWA-2R (bg)	GWC-5	GWA-1 (bg)	GWC-9	GWC-15_15Z	GWC-14_14Z
7/14/2017									
7/20/2017									
7/26/2017								<0.005	
7/28/2017									
8/9/2017									
8/10/2017									
8/24/2017									
10/2/2017	<0.005			<0.005		0.0002 (J)			
10/3/2017					<0.005		<0.005		
10/4/2017			<0.005						
10/5/2017									<0.005
10/6/2017		0.0004 (J)						<0.005	
10/9/2017									
3/16/2018				<0.005		<0.005			
3/19/2018	<0.005		<0.005		<0.005				
3/20/2018							<0.005		
3/21/2018									
3/22/2018									<0.005
3/23/2018		0.00028 (J)						<0.005	
9/14/2018	<0.005			<0.005					
9/17/2018			<0.005		<0.005	<0.005 (D)			
9/18/2018							<0.005 (D)		
9/19/2018		0.00029 (J)						<0.005	<0.005
9/20/2018									

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 12/7/2018 9:40 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50 (bg)	GWA-50R (bg)	GWC-8RR	GWC-6RZ	GWC-8Z	GWC-7Z	GWA-4RZ (bg)
8/21/2007							
8/22/2007							
8/23/2007							
8/24/2007							
10/23/2007							
10/24/2007							
10/25/2007							
11/1/2007							
11/2/2007							
11/17/2007							
11/18/2007							
11/19/2007							
11/20/2007							
1/15/2008							
1/16/2008							
1/23/2008							
1/30/2008							
1/31/2008							
3/5/2008							
3/6/2008							
3/10/2008							
3/11/2008							
5/6/2008							
5/7/2008							
5/8/2008							
5/12/2008							
5/13/2008							
5/14/2008							
12/2/2008							
12/4/2008							
12/5/2008							
12/11/2008							
12/12/2008	<0.013	<0.013					
12/13/2008							
12/14/2008							
4/15/2009							
4/16/2009							
4/21/2009							
4/23/2009	<0.013	<0.013					
4/24/2009							
4/28/2009							
4/29/2009							
10/6/2009	<0.013	<0.013					
10/7/2009							
10/8/2009							
10/9/2009							
10/13/2009							
10/19/2009							
10/20/2009							
10/21/2009							
10/22/2009							
4/20/2010							

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 12/7/2018 9:40 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50 (bg)	GWA-50R (bg)	GWC-8RR	GWC-6RZ	GWC-8Z	GWC-7Z	GWA-4RZ (bg)
4/21/2010							
4/26/2010							
4/27/2010	<0.013						
4/28/2010							
5/3/2010		<0.013					
5/4/2010							
9/28/2010							
9/29/2010							
9/30/2010	<0.013						
10/4/2010							
10/5/2010							
10/6/2010							
10/11/2010		<0.013					
10/12/2010							
4/12/2011							
4/13/2011							
4/14/2011	<0.013						
4/18/2011							
4/19/2011							
4/20/2011							
4/21/2011							
4/26/2011							
4/27/2011		<0.013					
4/28/2011							
10/4/2011							
10/5/2011	<0.013						
10/12/2011							
10/13/2011							
10/17/2011							
10/18/2011			<0.013				
10/19/2011		<0.013					
4/3/2012							
4/4/2012							
4/11/2012	<0.001						
4/23/2012							
4/24/2012							
4/25/2012							
4/30/2012			<0.001				
5/1/2012		0.0012					
5/2/2012							
10/2/2012	<0.013	<0.013					
10/3/2012			<0.013				
10/8/2012							
10/9/2012							
10/10/2012							
4/2/2013							
4/3/2013							
4/8/2013			<0.013				
4/9/2013	<0.013						
4/10/2013		<0.013					
4/11/2013							
4/12/2013							

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 12/7/2018 9:40 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50 (bg)	GWA-50R (bg)	GWC-8RR	GWC-6RZ	GWC-8Z	GWC-7Z	GWA-4RZ (bg)
4/15/2013							
4/16/2013							
10/8/2013							
10/9/2013			<0.013				
10/15/2013	<0.013						
10/16/2013		<0.013					
10/22/2013							
4/1/2014							
4/2/2014							
4/9/2014							
4/10/2014	<0.0025		<0.0025				
4/11/2014							
4/14/2014							
4/21/2014							
4/22/2014		<0.0025					
4/23/2014							
9/30/2014							
10/1/2014	<0.013	<0.013					
10/2/2014			<0.013				
10/3/2014							
10/4/2014							
3/30/2015	<0.013	<0.013					
3/31/2015							
4/1/2015							
4/2/2015							
4/3/2015			<0.013				
5/26/2015				<0.013	<0.013		
6/18/2015				<0.013 (D)	<0.013 (D)		
7/2/2015				<0.013	<0.013		
10/6/2015							
10/7/2015							
10/8/2015			<0.013		<0.013		
10/9/2015				<0.013			
10/10/2015							
10/11/2015	<0.013	<0.013					
10/12/2015							
10/13/2015							
10/14/2015							
10/15/2015							
3/22/2016					<0.005		
3/23/2016							
3/28/2016	<0.005	<0.005					
3/29/2016				<0.005			
3/30/2016			<0.005				
3/31/2016							
4/4/2016							
4/5/2016							
5/19/2016							
5/20/2016							
5/23/2016	<0.005						
5/24/2016			<0.005	<0.005			
5/25/2016		<0.005			<0.005		

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 12/7/2018 9:40 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50 (bg)	GWA-50R (bg)	GWC-8RR	GWC-6RZ	GWC-8Z	GWC-7Z	GWA-4RZ (bg)
5/26/2016							
5/27/2016							
5/31/2016						<0.005	
6/1/2016							
7/29/2016							
8/1/2016	<0.005	<0.005		<0.005			
8/2/2016			<0.005		0.0002 (J)	0.0001 (J)	
8/3/2016							
8/4/2016							
8/5/2016							
8/9/2016							
9/22/2016							
9/23/2016							
9/26/2016	0.0001 (J)	<0.005		<0.005	0.0001 (J)		
9/27/2016			<0.005			0.0001 (J)	
9/28/2016							
9/29/2016							
9/30/2016							
11/9/2016							
11/10/2016	<0.005						
11/11/2016		<0.005					
11/14/2016				<0.005			
11/18/2016							
11/21/2016					0.0001 (J)	0.0001 (J)	
11/22/2016			<0.005				
11/23/2016							
11/28/2016							
1/30/2017	<0.005	<0.005					
1/31/2017							
2/1/2017				<0.005		0.0001 (J)	
2/3/2017					0.0002 (J)		
2/6/2017			<0.005				
2/7/2017							
2/8/2017							
2/9/2017							
2/10/2017							
2/13/2017							
2/22/2017							0.0002 (J)
3/30/2017							
4/3/2017		<0.005					
4/6/2017			0.0001 (J)	7E-05 (J)		0.0002 (J)	
4/7/2017	<0.005				0.0002 (J)		<0.005
4/10/2017							
4/11/2017							
4/12/2017							
6/9/2017							
6/12/2017	<0.005	<0.005					
6/13/2017				8E-05 (J)	0.0002 (J)	<0.005	
6/14/2017			<0.005				<0.005
6/15/2017							
6/16/2017							
7/12/2017							<0.005

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 12/7/2018 9:40 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50 (bg)	GWA-50R (bg)	GWC-8RR	GWC-6RZ	GWC-8Z	GWC-7Z	GWA-4RZ (bg)
7/14/2017						<0.005	
7/20/2017							<0.005
7/26/2017							
7/28/2017							<0.005
8/9/2017							<0.005
8/10/2017							
8/24/2017							<0.005
10/2/2017	0.0003 (J)	<0.005					
10/3/2017				<0.005	0.0002 (J)	9E-05 (J)	<0.005
10/4/2017			<0.005				
10/5/2017							
10/6/2017							
10/9/2017							
3/16/2018	<0.005	<0.005					
3/19/2018							
3/20/2018				<0.005	0.00042 (J)	<0.005	
3/21/2018			<0.005				<0.005
3/22/2018							
3/23/2018							
9/14/2018							
9/17/2018	<0.005			<0.005			
9/18/2018		<0.005	<0.005		<0.005	<0.005	<0.005
9/19/2018							
9/20/2018							

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 12/7/2018 9:40 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-11R	GWC-13	GWC-12	GWC-11	GWC-10	GWC-13R_13RZ	GWC-10R	GWC-6R	GWC-6
8/21/2007	<0.000254	<0.000254	<0.000254	<0.000254	<0.000254	<0.000254	<0.000254		
8/22/2007								<0.000254	<0.000254
8/23/2007									
8/24/2007									
10/23/2007									
10/24/2007									
10/25/2007								<0.000145	<0.000145
11/1/2007	<0.000145	<0.000145	<0.000145	<0.000145	<0.000145	<0.000145	<0.000145		
11/2/2007									
11/17/2007									
11/18/2007	<0.000145			<0.000145					
11/19/2007		<0.000145	<0.000145			<0.000145		<0.000145	
11/20/2007					<0.000145		<0.000145		<0.000145
1/15/2008									
1/16/2008			<0.000145						
1/23/2008								<0.000145	<0.000145
1/30/2008	<0.000145			<0.000145	<0.000145		<0.000145		
1/31/2008		<0.000145				<0.000145			
3/5/2008		<0.000145	<0.000145	<0.000145		<0.000145			
3/6/2008	<0.000145				<0.000145		<0.000145		
3/10/2008									
3/11/2008								<0.000145	<0.000145
5/6/2008									
5/7/2008	<0.000145			0.000181		<0.000145			
5/8/2008							<0.000145		
5/12/2008		<0.000145			<0.000145				
5/13/2008			<0.000145						
5/14/2008								<0.000145	<0.000145
12/2/2008									
12/4/2008									
12/5/2008									
12/11/2008									<0.00025
12/12/2008						<0.00025		<0.00025	
12/13/2008		<0.00025	<0.00025		<0.00025				
12/14/2008	<0.00025			<0.00025			<0.00025		
4/15/2009									
4/16/2009			<0.00025						
4/21/2009									
4/23/2009									<0.00025
4/24/2009								<0.00025	
4/28/2009		<0.00025							
4/29/2009	<0.00025			<0.00025	<0.00025	<0.00025	<0.00025		
10/6/2009									
10/7/2009									
10/8/2009									
10/9/2009								<0.00025	<0.00025
10/13/2009									
10/19/2009									
10/20/2009					<0.00025				
10/21/2009		<0.00025	<0.00025			<0.00025	<0.00025		
10/22/2009	<0.00025			<0.00025					
4/20/2010									

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 12/7/2018 9:40 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-11R	GWC-13	GWC-12	GWC-11	GWC-10	GWC-13R_13RZ	GWC-10R	GWC-6R	GWC-6
4/21/2010	<0.000591			<0.000591			<0.000591		
4/26/2010					<0.000591				
4/27/2010			<0.000591						
4/28/2010		<0.000591				<0.000591			
5/3/2010									
5/4/2010								<0.000591	<0.000591
9/28/2010				<0.000591			<0.000591		
9/29/2010	<0.000591				<0.000591				
9/30/2010									
10/4/2010									
10/5/2010		<0.000591	<0.000591						
10/6/2010						<0.000591			
10/11/2010									<0.000299
10/12/2010								<0.000299	
4/12/2011				<0.000299			<0.000299		
4/13/2011	<0.000299				<0.000299				
4/14/2011									
4/18/2011									
4/19/2011		<0.000299	<0.000299						
4/20/2011						<0.000299			
4/21/2011									
4/26/2011									<0.000299
4/27/2011									
4/28/2011								<0.000299	
10/4/2011	<0.000168			<0.000168			<0.000168		
10/5/2011					<0.000168				
10/12/2011			<0.000168			<0.000168			
10/13/2011									
10/17/2011									
10/18/2011		<0.000168						<0.000168	<0.000168
10/19/2011									
4/3/2012				<0.000123			<0.000123		
4/4/2012	<0.000123				<0.000123				
4/11/2012									
4/23/2012									
4/24/2012			<0.000123						
4/25/2012		<0.000123				<0.000123			
4/30/2012									
5/1/2012								<0.000123	
5/2/2012									<0.000123
10/2/2012		<0.0002	<0.0002			<0.0002			
10/3/2012	<0.0002			<0.0002	<0.0002				
10/8/2012							<0.0002		<0.0002
10/9/2012								<0.0002	
10/10/2012									
4/2/2013		<0.0001	<0.0001			<0.0001			
4/3/2013	<0.0001			<0.0001	<0.0001		<0.0001		
4/8/2013									
4/9/2013								<0.0001	
4/10/2013									<0.0001
4/11/2013									
4/12/2013									

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 12/7/2018 9:40 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-11R	GWC-13	GWC-12	GWC-11	GWC-10	GWC-13R_13RZ	GWC-10R	GWC-6R	GWC-6
4/15/2013									
4/16/2013									
10/8/2013		<0.0002				<0.0002			<0.0002
10/9/2013	<0.0002		<0.0002	<0.0002					
10/15/2013					<0.0002		<0.0002		
10/16/2013									
10/22/2013									
4/1/2014		0.0002 (J)	0.0002 (J)			0.0002 (J)			
4/2/2014	<4.02E-05			0.0002 (J)					
4/9/2014					<4.02E-05		<4.02E-05		
4/10/2014									
4/11/2014									
4/14/2014									<4.02E-05
4/21/2014									
4/22/2014									
4/23/2014									
9/30/2014									
10/1/2014		<0.0002				<0.0002			
10/2/2014	<0.0002		<0.0002	<0.0002	<0.0002		<0.0002		
10/3/2014									3.29E-05 (J)
10/4/2014									
3/30/2015									
3/31/2015						<0.0002			
4/1/2015	<0.0002	<0.0002	<0.0002	<0.0002					<0.0002
4/2/2015					<0.0002		<0.0002		
4/3/2015									
5/26/2015									
6/18/2015									
7/2/2015									
8/13/2015									
8/14/2015									
10/6/2015									
10/7/2015									
10/8/2015									
10/9/2015									<0.0002
10/10/2015					<0.0002				
10/11/2015	<0.0002			<0.0002					
10/12/2015							<0.0002		
10/13/2015									
10/14/2015			<0.0002			<0.0002			
10/15/2015		<0.0002							
3/22/2016									
3/23/2016									
3/28/2016									
3/29/2016									<0.0005
3/30/2016									
3/31/2016					<0.0005		<0.0005		
4/4/2016	<0.0005	<0.0005	<0.0005	<0.0005		<0.0005			
4/5/2016									
5/19/2016									
5/20/2016									
5/23/2016									

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 12/7/2018 9:40 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-11R	GWC-13	GWC-12	GWC-11	GWC-10	GWC-13R_13RZ	GWC-10R	GWC-6R	GWC-6
5/24/2016									<0.0005
5/25/2016									
5/26/2016	<0.0005			<0.0005	<0.0005		<0.0005		
5/27/2016			<0.0005						
5/31/2016		<0.0005							
6/1/2016						<0.0005			
7/29/2016									
8/1/2016									<0.0005
8/2/2016									
8/3/2016			<0.0005	<0.0005			<0.0005		
8/4/2016	<0.0005	<0.0005							
8/5/2016					<0.0005				
8/9/2016									
9/22/2016									
9/23/2016									
9/26/2016									<0.0005
9/27/2016									
9/28/2016	<0.0005			<0.0005	<0.0005		<0.0005		
9/29/2016		<0.0005							
9/30/2016			<0.0005						
11/9/2016									
11/10/2016									
11/11/2016									
11/14/2016									
11/18/2016									<0.0005
11/21/2016									
11/22/2016	<0.0005		8E-05 (J)	<0.0005	<0.0005		<0.0005		
11/23/2016									
11/28/2016		<0.0005							
1/30/2017									
1/31/2017									
2/1/2017									<0.0005 (*)
2/3/2017									
2/6/2017									
2/7/2017					<0.0005		<0.0005		
2/8/2017	<0.0005			<0.0005					
2/9/2017		<0.0005							
2/10/2017									
2/13/2017			<0.0005						
2/22/2017						<0.0005			
3/30/2017									
4/3/2017									
4/6/2017									<0.0005
4/7/2017									
4/10/2017	<0.0005			<0.0005	<0.0005		<0.0005		
4/11/2017			<0.0005			<0.0005			
4/12/2017		<0.0005							
6/9/2017									
6/12/2017									
6/13/2017									<0.0005 (*)
6/14/2017			<0.0005 (*)		<0.0005 (*)		<0.0005 (*)		
6/15/2017	<0.0005 (*)			<0.0005 (*)					

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 12/7/2018 9:40 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-11R	GWC-13	GWC-12	GWC-11	GWC-10	GWC-13R_13RZ	GWC-10R	GWC-6R	GWC-6
6/16/2017		<0.0005 (*)				<0.0005 (*)			
7/12/2017						<0.0005			
7/14/2017									
7/20/2017									
7/26/2017									
7/28/2017						<0.0005			
8/9/2017									
8/10/2017						<0.0005			
8/24/2017									
10/2/2017									
10/3/2017									<0.0005
10/4/2017	<0.0005		<0.0005	<0.0005	<0.0005		<0.0005		
10/5/2017									
10/6/2017						<0.0005			
10/9/2017		<0.0005							
3/16/2018									
3/19/2018									<0.0005
3/20/2018					<0.0005				
3/21/2018		<0.0005		<0.0005			<0.0005		
3/22/2018	<0.0005		<0.0005						
3/23/2018						<0.0005			
9/14/2018									
9/17/2018									<0.0005
9/18/2018	<0.0005		<0.0005	<0.0005	<0.0005		<0.0005		
9/19/2018		<0.0005							
9/20/2018						<0.0005			

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 12/7/2018 9:40 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-3 (bg)	GWC-5	GWA-2 (bg)	GWA-2R (bg)	GWC-15R	GWA-1 (bg)	GWC-9	GWC-15_15Z	GWC-14_14Z
8/21/2007									
8/22/2007									
8/23/2007	<0.000254	<0.000254	<0.000254	<0.000254	<0.000254	<0.000254	<0.000254		
8/24/2007								<0.000254	<0.000254
10/23/2007						<0.000145			
10/24/2007			<0.000145	<0.000145					
10/25/2007		<0.000145							
11/1/2007							<0.000145		
11/2/2007	<0.000145				<0.000145			<0.000145	<0.000145
11/17/2007					<0.000145				<0.000145
11/18/2007	<0.000145		<0.000145	<0.000145		<0.000145		<0.000145	
11/19/2007		<0.000145					<0.000145		
11/20/2007									
1/15/2008					<0.000145		<0.000145	<0.000145	<0.000145
1/16/2008									
1/23/2008		<0.000145							
1/30/2008						<0.000145			
1/31/2008	<0.000145		<0.000145	<0.000145					
3/5/2008									<0.000145
3/6/2008					<0.000145		<0.000145		
3/10/2008				<0.000145		<0.000145		<0.000145	
3/11/2008	<0.000145	<0.000145	<0.000145						
5/6/2008			0.000175						
5/7/2008					<0.000145				<0.000145
5/8/2008									
5/12/2008		<0.000145							
5/13/2008				<0.000145		<0.000145	<0.000145	<0.000145	
5/14/2008	<0.000145								
12/2/2008					<0.000145			<0.000145	<0.000145
12/4/2008			<0.000145	<0.000145					
12/5/2008	<0.000145					<0.000145			
12/11/2008		<0.00025							
12/12/2008							<0.00025		
12/13/2008									
12/14/2008									
4/15/2009	<0.00025	<0.00025				<0.00025			
4/16/2009							<0.00025		<0.00025
4/21/2009			<0.00025	<0.00025					
4/23/2009									
4/24/2009									
4/28/2009					<0.00025			<0.00025	
4/29/2009									
10/6/2009									
10/7/2009			<0.00025			<0.00025			
10/8/2009	<0.00025			<0.00025					
10/9/2009		<0.00025							
10/13/2009							<0.00025		
10/19/2009					<0.00025				
10/20/2009								<0.00025	<0.00025
10/21/2009									
10/22/2009									
4/20/2010									<0.000591

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 12/7/2018 9:40 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-3 (bg)	GWC-5	GWA-2 (bg)	GWA-2R (bg)	GWC-15R	GWA-1 (bg)	GWC-9	GWC-15_15Z	GWC-14_14Z
4/21/2010				<0.000591			<0.000591		
4/26/2010			<0.000591						
4/27/2010					<0.000591			<0.000591	
4/28/2010	<0.000591								
5/3/2010						<0.000591			
5/4/2010		<0.000591							
9/28/2010				<0.000591					
9/29/2010							<0.000591		<0.000591
9/30/2010									
10/4/2010			<0.000591		<0.000591				
10/5/2010								<0.000591	
10/6/2010	<0.000591								
10/11/2010									
10/12/2010		<0.000299				<0.000299			
4/12/2011				<0.000299					<0.000299
4/13/2011			<0.000299				<0.000299		
4/14/2011									
4/18/2011					<0.000299				
4/19/2011								<0.000299	
4/20/2011									
4/21/2011	<0.000299								
4/26/2011									
4/27/2011						<0.000299			
4/28/2011		<0.000299							
10/4/2011				<0.000168					<0.000168
10/5/2011			<0.000168				<0.000168		
10/12/2011					<0.000168			<0.000168	
10/13/2011	<0.000168								
10/17/2011						<0.000168			
10/18/2011									
10/19/2011		<0.000168							
4/3/2012				<0.000123					
4/4/2012							<0.000123		<0.000123
4/11/2012			<0.000123						
4/23/2012					<0.000123				
4/24/2012									
4/25/2012								<0.000123	
4/30/2012									
5/1/2012	<0.000123								
5/2/2012		<0.000123				<0.000123			
10/2/2012									
10/3/2012									
10/8/2012						<0.0002	<0.0002		
10/9/2012	<0.0002	<0.0002	<0.0002	<0.0002					
10/10/2012					<0.0002			<0.0002	<0.0002
4/2/2013									
4/3/2013									
4/8/2013							<0.0001		
4/9/2013									
4/10/2013									
4/11/2013	<0.0001	<0.0001		<0.0001					
4/12/2013						<0.0001			

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 12/7/2018 9:40 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-3 (bg)	GWC-5	GWA-2 (bg)	GWA-2R (bg)	GWC-15R	GWA-1 (bg)	GWC-9	GWC-15_15Z	GWC-14_14Z
4/15/2013			<0.0001		<0.0001				<0.0001
4/16/2013								<0.0001	
10/8/2013									
10/9/2013							<0.0002		
10/15/2013			<0.0002						
10/16/2013	<0.0002	<0.0002		<0.0002		<0.0002			
10/22/2013					<0.0002			<0.0002	<0.0002
4/1/2014									
4/2/2014									
4/9/2014							<4.02E-05		
4/10/2014				<4.02E-05					
4/11/2014						<4.02E-05			
4/14/2014									
4/21/2014					<4.02E-05			<4.02E-05	<4.02E-05
4/22/2014			<4.02E-05						
4/23/2014	<4.02E-05	<4.02E-05							
9/30/2014			<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
10/1/2014									
10/2/2014									
10/3/2014		3.71E-05 (J)							
10/4/2014	<0.0002								
3/30/2015			<0.0002	<0.0002		<0.0002			
3/31/2015	<0.0002	<0.0002							
4/1/2015									
4/2/2015							<0.0002		
4/3/2015					<0.0002			<0.0002	<0.0002
5/26/2015									
6/18/2015									
7/2/2015									
8/13/2015									
8/14/2015									
10/6/2015								<0.0002	
10/7/2015					<0.0002				<0.0002
10/8/2015									
10/9/2015									
10/10/2015							<0.0002 (D)		
10/11/2015									
10/12/2015	<0.0002	<0.0002							
10/13/2015			<0.0002	<0.0002		<0.0002			
10/14/2015									
10/15/2015									
3/22/2016						<0.0005			
3/23/2016	<0.0005		<0.0005	<0.0005					
3/28/2016		<0.0005							
3/29/2016									
3/30/2016							<0.0005		
3/31/2016									
4/4/2016									
4/5/2016					<0.0005			<0.0005	<0.0005
5/19/2016				<0.0005		<0.0005			
5/20/2016			<0.0005						
5/23/2016	<0.0005								

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 12/7/2018 9:40 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-3 (bg)	GWC-5	GWA-2 (bg)	GWA-2R (bg)	GWC-15R	GWA-1 (bg)	GWC-9	GWC-15_15Z	GWC-14_14Z
5/24/2016									
5/25/2016		<0.0005							
5/26/2016							<0.0005		
5/27/2016									
5/31/2016					<0.0005			<0.0005	
6/1/2016									<0.0005
7/29/2016	<0.0005		<0.0005	<0.0005		<0.0005			
8/1/2016		<0.0005							
8/2/2016									
8/3/2016									
8/4/2016					<0.0005				
8/5/2016							<0.0005		
8/9/2016									<0.0005
9/22/2016	<0.0005			<0.0005					
9/23/2016			<0.0005			<0.0005			
9/26/2016									
9/27/2016		<0.0005							
9/28/2016							<0.0005		
9/29/2016					<0.0005				
9/30/2016									
11/9/2016			<0.0005			<0.0005			
11/10/2016	<0.0005			<0.0005					
11/11/2016		<0.0005							
11/14/2016									
11/18/2016									
11/21/2016							<0.0005		
11/22/2016									
11/23/2016					5E-05 (J)			6E-05 (J)	
11/28/2016									<0.0005
1/30/2017						<0.0005			
1/31/2017	<0.0005 (*)	<0.0005 (*)	<0.0005 (*)	<0.0005					
2/1/2017									
2/3/2017									
2/6/2017							<0.0005		
2/7/2017									
2/8/2017									
2/9/2017									<0.0005
2/10/2017					<0.0005			<0.0005	
2/13/2017									
2/22/2017									
3/30/2017	<0.0005		<0.0005 (*)			<0.0005 (*)			
4/3/2017		<0.0005		<0.0005					
4/6/2017							<0.0005		
4/7/2017									
4/10/2017									
4/11/2017								<0.0005	<0.0005
4/12/2017					<0.0005				
6/9/2017				<0.0005		<0.0005			
6/12/2017	<0.0005	<0.0005	<0.0005 (*)						
6/13/2017							<0.0005 (*)		
6/14/2017									<0.0005 (*)
6/15/2017					<0.0005 (*)			<0.0005 (*)	

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 12/7/2018 9:40 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-3 (bg)	GWC-5	GWA-2 (bg)	GWA-2R (bg)	GWC-15R	GWA-1 (bg)	GWC-9	GWC-15_15Z	GWC-14_14Z
6/16/2017									
7/12/2017								<0.0005	<0.0005
7/14/2017									
7/20/2017									
7/26/2017								<0.0005	
7/28/2017									
8/9/2017									
8/10/2017									
8/24/2017									
10/2/2017			<0.0005	<0.0005		<0.0005			
10/3/2017		<0.0005					<0.0005		
10/4/2017	<0.0005								
10/5/2017									<0.0005
10/6/2017					<0.0005			<0.0005	
10/9/2017									
3/16/2018				<0.0005		<0.0005			
3/19/2018	<0.0005	<0.0005	<0.0005						
3/20/2018							<0.0005		
3/21/2018									
3/22/2018									<0.0005
3/23/2018					<0.0005			<0.0005	
9/14/2018			<0.0005	<0.0005					
9/17/2018	<0.0005	<0.0005				<0.0005 (D)			
9/18/2018							<0.0005 (D)		
9/19/2018					<0.0005			<0.0005	<0.0005
9/20/2018									

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 12/7/2018 9:40 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50 (bg)	GWA-50R (bg)	GWC-8RR	GWC-8Z	GWC-6RZ	GWC-7Z	GWA-4RZ (bg)
8/21/2007							
8/22/2007							
8/23/2007							
8/24/2007							
10/23/2007							
10/24/2007							
10/25/2007							
11/1/2007							
11/2/2007							
11/17/2007							
11/18/2007							
11/19/2007							
11/20/2007							
1/15/2008							
1/16/2008							
1/23/2008							
1/30/2008							
1/31/2008							
3/5/2008							
3/6/2008							
3/10/2008							
3/11/2008							
5/6/2008							
5/7/2008							
5/8/2008							
5/12/2008							
5/13/2008							
5/14/2008							
12/2/2008							
12/4/2008							
12/5/2008							
12/11/2008							
12/12/2008	<0.00025	<0.00025					
12/13/2008							
12/14/2008							
4/15/2009							
4/16/2009							
4/21/2009							
4/23/2009	<0.00025	<0.00025					
4/24/2009							
4/28/2009							
4/29/2009							
10/6/2009	<0.00025	<0.00025					
10/7/2009							
10/8/2009							
10/9/2009							
10/13/2009							
10/19/2009							
10/20/2009							
10/21/2009							
10/22/2009							
4/20/2010							

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 12/7/2018 9:40 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50 (bg)	GWA-50R (bg)	GWC-8RR	GWC-8Z	GWC-6RZ	GWC-7Z	GWA-4RZ (bg)
4/21/2010							
4/26/2010							
4/27/2010	<0.000591						
4/28/2010							
5/3/2010		<0.000591					
5/4/2010							
9/28/2010							
9/29/2010							
9/30/2010	<0.000591						
10/4/2010							
10/5/2010							
10/6/2010							
10/11/2010		<0.000299					
10/12/2010							
4/12/2011							
4/13/2011							
4/14/2011	<0.000299						
4/18/2011							
4/19/2011							
4/20/2011							
4/21/2011							
4/26/2011							
4/27/2011		<0.000299					
4/28/2011							
10/4/2011							
10/5/2011	<0.000168						
10/12/2011							
10/13/2011							
10/17/2011							
10/18/2011			<0.000168				
10/19/2011		<0.000168					
4/3/2012							
4/4/2012							
4/11/2012	<0.000123						
4/23/2012							
4/24/2012							
4/25/2012							
4/30/2012			<0.000123				
5/1/2012		<0.000123					
5/2/2012							
10/2/2012	<0.0002	<0.0002					
10/3/2012			<0.0002				
10/8/2012							
10/9/2012							
10/10/2012							
4/2/2013							
4/3/2013							
4/8/2013			<0.0001				
4/9/2013	<0.0001						
4/10/2013		<0.0001					
4/11/2013							
4/12/2013							

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 12/7/2018 9:40 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50 (bg)	GWA-50R (bg)	GWC-8RR	GWC-8Z	GWC-6RZ	GWC-7Z	GWA-4RZ (bg)
4/15/2013							
4/16/2013							
10/8/2013							
10/9/2013			<0.0002				
10/15/2013	<0.0002						
10/16/2013		<0.0002					
10/22/2013							
4/1/2014							
4/2/2014							
4/9/2014							
4/10/2014	<4.02E-05		<4.02E-05				
4/11/2014							
4/14/2014							
4/21/2014							
4/22/2014		<4.02E-05					
4/23/2014							
9/30/2014							
10/1/2014	<0.0002	<0.0002					
10/2/2014			3.83E-05 (J)				
10/3/2014							
10/4/2014							
3/30/2015	2.02E-05 (J)	<0.0002					
3/31/2015							
4/1/2015							
4/2/2015							
4/3/2015			<0.0002				
5/26/2015				<0.0002	<0.0002		
6/18/2015				<0.0002 (D)	<0.0002 (D)		
7/2/2015				<0.0002	<0.0002		
8/13/2015					<0.0002 (D)		
8/14/2015				<0.0002 (D)			
10/6/2015							
10/7/2015							
10/8/2015			<0.0002	<0.0002			
10/9/2015					<0.0002		
10/10/2015							
10/11/2015	<0.0002	<0.0002					
10/12/2015							
10/13/2015							
10/14/2015							
10/15/2015							
3/22/2016				<0.0005			
3/23/2016							
3/28/2016	<0.0005	<0.0005					
3/29/2016					<0.0005		
3/30/2016			<0.0005				
3/31/2016							
4/4/2016							
4/5/2016							
5/19/2016							
5/20/2016							
5/23/2016	<0.0005						

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 12/7/2018 9:40 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50 (bg)	GWA-50R (bg)	GWC-8RR	GWC-8Z	GWC-6RZ	GWC-7Z	GWA-4RZ (bg)
5/24/2016			<0.0005		<0.0005		
5/25/2016		<0.0005		<0.0005			
5/26/2016							
5/27/2016							
5/31/2016						<0.0005	
6/1/2016							
7/29/2016							
8/1/2016	<0.0005	<0.0005			<0.0005		
8/2/2016			<0.0005	<0.0005		<0.0005	
8/3/2016							
8/4/2016							
8/5/2016							
8/9/2016							
9/22/2016							
9/23/2016							
9/26/2016	<0.0005	<0.0005		<0.0005	<0.0005		
9/27/2016			<0.0005			<0.0005	
9/28/2016							
9/29/2016							
9/30/2016							
11/9/2016							
11/10/2016	<0.0005						
11/11/2016		<0.0005					
11/14/2016					<0.0005		
11/18/2016							
11/21/2016				<0.0005		<0.0005	
11/22/2016			8E-05 (J)				
11/23/2016							
11/28/2016							
1/30/2017	<0.0005	<0.0005					
1/31/2017							
2/1/2017					<0.0005 (*)	<0.0005	
2/3/2017				<0.0005			
2/6/2017			<0.0005				
2/7/2017							
2/8/2017							
2/9/2017							
2/10/2017							
2/13/2017							
2/22/2017							<0.0005
3/30/2017							
4/3/2017		<0.0005					
4/6/2017			<0.0005		<0.0005	<0.0005	
4/7/2017	<0.0005 (*)			<0.0005 (*)			<0.0005 (*)
4/10/2017							
4/11/2017							
4/12/2017							
6/9/2017							
6/12/2017	<0.0005 (*)	<0.0005 (*)					
6/13/2017				<0.0005 (*)	<0.0005 (*)	<0.0005 (*)	
6/14/2017			<0.0005 (*)				<0.0005 (*)
6/15/2017							

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 12/7/2018 9:40 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50 (bg)	GWA-50R (bg)	GWC-8RR	GWC-8Z	GWC-6RZ	GWC-7Z	GWA-4RZ (bg)
6/16/2017							
7/12/2017							<0.0005
7/14/2017						<0.0005	
7/20/2017							<0.0005
7/26/2017							
7/28/2017							<0.0005
8/9/2017							<0.0005
8/10/2017							
8/24/2017							<0.0005
10/2/2017	<0.0005	<0.0005					
10/3/2017				<0.0005	<0.0005	<0.0005	<0.0005
10/4/2017			<0.0005				
10/5/2017							
10/6/2017							
10/9/2017							
3/16/2018	<0.0005	<0.0005					
3/19/2018							
3/20/2018				<0.0005	<0.0005	<0.0005	
3/21/2018			<0.0005				<0.0005
3/22/2018							
3/23/2018							
9/14/2018							
9/17/2018	<0.0005				<0.0005		
9/18/2018		<0.0005	<0.0005	<0.0005		<0.0005	<0.0005
9/19/2018							
9/20/2018							

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 12/7/2018 9:40 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-10R	GWC-13	GWC-11R	GWC-10	GWC-13R_13RZ	GWC-12	GWC-11	GWC-6	GWC-6R
8/21/2007	<0.0025	0.0076	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025		
8/22/2007								<0.0025	<0.0025
8/23/2007									
8/24/2007									
10/23/2007									
10/24/2007									
10/25/2007								0.0028	0.0079
11/1/2007	0.006	0.0043	<0.0025	0.0042	0.0033	<0.0025	<0.0025		
11/2/2007									
11/17/2007									
11/18/2007			<0.0025				<0.0025		
11/19/2007		0.0061			0.0029	0.0047			0.0088
11/20/2007	<0.0025			0.026				0.012	
1/15/2008									
1/16/2008						0.029			
1/23/2008								0.046	0.03
1/30/2008	0.029 (O)		<0.0025	0.032			<0.0025		
1/31/2008		0.015			0.0039				
3/5/2008		<0.0025			<0.0025	0.023	<0.0025		
3/6/2008	<0.0025		0.0046	0.019					
3/10/2008									
3/11/2008								0.0091	0.025
5/6/2008									
5/7/2008			<0.0025		<0.0025		0.0087		
5/8/2008	0.0057								
5/12/2008		0.0035		0.0072					
5/13/2008						0.0032			
5/14/2008								0.022	0.0037
12/2/2008									
12/4/2008									
12/5/2008									
12/11/2008								0.005	
12/12/2008					0.022 (O)				0.0049
12/13/2008		0.0079		0.024		<0.0025			
12/14/2008	<0.0025		<0.0025				<0.0025		
4/15/2009									
4/16/2009						<0.0025			
4/21/2009									
4/23/2009								0.0031	
4/24/2009									0.0052
4/28/2009		<0.0025							
4/29/2009	<0.0025		<0.0025	0.0026	0.0034		<0.0025		
10/6/2009									
10/7/2009									
10/8/2009									
10/9/2009								0.0053	0.0048
10/13/2009									
10/19/2009									
10/20/2009				<0.0025					
10/21/2009	<0.0025	<0.0025			<0.0025	<0.0025			
10/22/2009			<0.0025				<0.0025		
4/20/2010									

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 12/7/2018 9:40 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-10R	GWC-13	GWC-11R	GWC-10	GWC-13R_13RZ	GWC-12	GWC-11	GWC-6	GWC-6R
4/21/2010	<0.0025		<0.0025				<0.0025		
4/26/2010				<0.0025					
4/27/2010						<0.0025			
4/28/2010		<0.0025			0.0026				
5/3/2010									
5/4/2010								<0.0025	0.0032
9/28/2010	<0.0025						<0.0025		
9/29/2010			<0.0025	0.0042					
9/30/2010									
10/4/2010									
10/5/2010		<0.0025				<0.0025			
10/6/2010					<0.0025				
10/11/2010								0.0042	
10/12/2010									0.0029
4/12/2011	<0.0025						<0.0025		
4/13/2011			<0.0025	<0.0025					
4/14/2011									
4/18/2011									
4/19/2011		<0.0025				0.0025			
4/20/2011					<0.0025				
4/21/2011									
4/26/2011								0.0051	
4/27/2011									
4/28/2011									0.0027
10/4/2011	<0.0025		<0.0025				<0.0025		
10/5/2011				<0.0025					
10/12/2011					<0.0025	<0.0025			
10/13/2011									
10/17/2011									
10/18/2011		0.0031						<0.0025	0.0039
10/19/2011									
4/3/2012	<0.005						<0.005		
4/4/2012			<0.005	<0.005					
4/11/2012									
4/23/2012									
4/24/2012						<0.005			
4/25/2012		<0.005			<0.005				
4/30/2012									
5/1/2012									0.0122
5/2/2012								<0.005	
10/2/2012		<0.0025			<0.0025	<0.0025			
10/3/2012			<0.0025	0.004			0.0042		
10/8/2012	<0.0025							<0.0025	
10/9/2012									0.0046
10/10/2012									
4/2/2013		<0.0025			<0.0025	0.003			
4/3/2013	<0.0025		<0.0025	0.0028			<0.0025		
4/8/2013									
4/9/2013									0.0048
4/10/2013								<0.0025	
4/11/2013									
4/12/2013									

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 12/7/2018 9:40 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-10R	GWC-13	GWC-11R	GWC-10	GWC-13R_13RZ	GWC-12	GWC-11	GWC-6	GWC-6R
4/15/2013									
4/16/2013									
10/8/2013		<0.0025			<0.0025			0.0025	
10/9/2013			<0.0025			<0.0025	<0.0025		
10/15/2013	<0.0025			0.0036					
10/16/2013									
10/22/2013									
4/1/2014		<0.00125			<0.00125	0.0025 (J)			
4/2/2014			<0.00125				0.0025 (J)		
4/9/2014	<0.00125			0.0025 (J)					
4/10/2014									
4/11/2014									
4/14/2014								0.0025 (J)	
4/21/2014									
4/22/2014									
4/23/2014									
9/30/2014									
10/1/2014		<0.0025			<0.0025				
10/2/2014	<0.0025		<0.0025	<0.0025		<0.0025	0.0016 (J)		
10/3/2014								0.0021 (J)	
10/4/2014									
3/30/2015									
3/31/2015					<0.0025				
4/1/2015		<0.0025	0.0041			0.0014 (J)	<0.0025	0.0026	
4/2/2015	<0.0025			<0.0025					
4/3/2015									
5/26/2015									
6/18/2015									
7/2/2015									
10/6/2015									
10/7/2015									
10/8/2015									
10/9/2015								<0.0025	
10/10/2015				<0.0025					
10/11/2015			<0.0025				<0.0025		
10/12/2015	<0.0025								
10/13/2015									
10/14/2015					<0.0025	0.0021 (J)			
10/15/2015		<0.0025							
3/22/2016									
3/23/2016									
3/28/2016									
3/29/2016								<0.01	
3/30/2016									
3/31/2016	<0.01			<0.01					
4/4/2016		<0.01	<0.01		<0.01	0.00264 (J)	<0.01		
4/5/2016									
7/29/2016									
8/1/2016								<0.01	
8/2/2016									
8/3/2016	<0.01 (*)					<0.01 (*)	<0.01		
8/4/2016		<0.01	<0.01						

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 12/7/2018 9:40 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-10R	GWC-13	GWC-11R	GWC-10	GWC-13R_13RZ	GWC-12	GWC-11	GWC-6	GWC-6R
8/5/2016				<0.01 (*)					
8/9/2016									
3/30/2017									
4/3/2017									
4/6/2017								0.0005 (J)	
4/7/2017									
4/10/2017	<0.01 (*)		<0.01	<0.01 (*)			<0.01 (*)		
4/11/2017					<0.01 (*)	0.0027 (J)			
4/12/2017		<0.01 (*)							
10/2/2017									
10/3/2017								<0.01	
10/4/2017	0.0006 (J)		<0.01	<0.01		0.0022 (J)	<0.01		
10/5/2017									
10/6/2017					<0.01				
10/9/2017		<0.01							
3/16/2018									
3/19/2018								<0.01	
3/20/2018				0.0016 (J)					
3/21/2018	<0.01	<0.01					<0.01		
3/22/2018			<0.01			0.0025 (J)			
3/23/2018					<0.01				
9/14/2018									
9/17/2018								<0.01	
9/18/2018	<0.01		<0.01	<0.01		0.0024 (J)	<0.01		
9/19/2018		<0.01							
9/20/2018					<0.01				

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 12/7/2018 9:40 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-2R (bg)	GWA-2 (bg)	GWC-5	GWA-3 (bg)	GWC-9	GWA-1 (bg)	GWC-15_15Z	GWC-14_14Z	GWC-15R
8/21/2007									
8/22/2007									
8/23/2007	<0.0025	<0.0025	0.0069	0.028	0.0046	<0.0025			0.0089 (O)
8/24/2007							<0.0025	<0.0025	
10/23/2007						0.0096			
10/24/2007	0.0025	0.026							
10/25/2007			0.038						
11/1/2007					0.0057				
11/2/2007				0.041			<0.0025	0.0029	0.0036
11/17/2007								0.0086	0.014 (O)
11/18/2007	0.0093	0.043		0.14		0.023	0.0088 (J)		
11/19/2007			0.025		0.014 (J)				
11/20/2007									
1/15/2008					0.057		0.019	0.011	0.0096 (O)
1/16/2008									
1/23/2008			0.047						
1/30/2008						0.11			
1/31/2008	0.054	0.0075		0.053					
3/5/2008								0.0072	
3/6/2008					0.046				0.0038
3/10/2008	0.0054					0.024	0.017		
3/11/2008		0.019	0.042	0.076					
5/6/2008		0.004							
5/7/2008								0.0045	0.0056
5/8/2008									
5/12/2008			0.031						
5/13/2008	0.0043				0.0069	0.006	0.0058		
5/14/2008				0.074					
12/2/2008							0.0043	0.011	0.003
12/4/2008	<0.0025	0.02							
12/5/2008				0.032		<0.005			
12/11/2008			0.027						
12/12/2008					0.0061				
12/13/2008									
12/14/2008									
4/15/2009			0.025	0.028		<0.0025			
4/16/2009					0.0067 (J)			0.0061	
4/21/2009	<0.0025	<0.0025							
4/23/2009									
4/24/2009									
4/28/2009							<0.0025		<0.0025
4/29/2009									
10/6/2009									
10/7/2009		<0.0025				0.0096			
10/8/2009	<0.0025			0.032					
10/9/2009			0.051						
10/13/2009					0.0054				
10/19/2009									<0.0025
10/20/2009							<0.0025	0.01	
10/21/2009									
10/22/2009									
4/20/2010								<0.0025	

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 12/7/2018 9:40 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-2R (bg)	GWA-2 (bg)	GWC-5	GWA-3 (bg)	GWC-9	GWA-1 (bg)	GWC-15_15Z	GWC-14_14Z	GWC-15R
4/21/2010	<0.0025				<0.0025				
4/26/2010		<0.0025							
4/27/2010							<0.0025		0.004
4/28/2010				0.029					
5/3/2010						<0.0025			
5/4/2010			0.025						
9/28/2010	<0.0025								
9/29/2010					<0.0025			<0.0025	
9/30/2010									
10/4/2010		0.0025							<0.0025
10/5/2010							<0.0025		
10/6/2010				0.031					
10/11/2010									
10/12/2010			0.024			<0.0025			
4/12/2011	<0.0025							<0.0025	
4/13/2011		<0.0025			<0.0025				
4/14/2011									
4/18/2011									<0.0025
4/19/2011							<0.0025		
4/20/2011									
4/21/2011				0.019					
4/26/2011									
4/27/2011						<0.0025			
4/28/2011			0.01						
10/4/2011	<0.0025							<0.0025	
10/5/2011		<0.0025			<0.0025				
10/12/2011							<0.0025		<0.0025
10/13/2011				0.028					
10/17/2011						<0.0025			
10/18/2011									
10/19/2011			0.03						
4/3/2012	<0.005								
4/4/2012					<0.005			<0.005	
4/11/2012		<0.005							
4/23/2012									<0.005
4/24/2012									
4/25/2012							<0.005		
4/30/2012									
5/1/2012				0.0253					
5/2/2012			0.0429			<0.005			
10/2/2012									
10/3/2012									
10/8/2012					<0.0025	<0.0025			
10/9/2012	<0.0025	<0.0025	0.033	0.023					
10/10/2012							<0.0025	<0.0025	<0.0025
4/2/2013									
4/3/2013									
4/8/2013					<0.0025				
4/9/2013									
4/10/2013									
4/11/2013	<0.0025		0.02	0.021					
4/12/2013						<0.0025			

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 12/7/2018 9:40 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-2R (bg)	GWA-2 (bg)	GWC-5	GWA-3 (bg)	GWC-9	GWA-1 (bg)	GWC-15_15Z	GWC-14_14Z	GWC-15R
4/15/2013		<0.0025						<0.0025	<0.0025
4/16/2013							<0.0025		
10/8/2013									
10/9/2013					0.0029				
10/15/2013		0.0028							
10/16/2013	<0.0025		0.028	0.018		<0.0025			
10/22/2013							<0.0025	<0.0025	<0.0025
4/1/2014									
4/2/2014									
4/9/2014					0.0025 (J)				
4/10/2014	<0.00125								
4/11/2014						<0.00125			
4/14/2014									
4/21/2014							<0.00125	<0.00125	<0.00125
4/22/2014		<0.00125							
4/23/2014			0.024	0.015					
9/30/2014	<0.0025	<0.0025			<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
10/1/2014									
10/2/2014									
10/3/2014			0.032						
10/4/2014				0.017					
3/30/2015	<0.0025	0.0018 (J)				0.004			
3/31/2015			0.012	0.045					
4/1/2015									
4/2/2015					0.0016 (J)				
4/3/2015							<0.0025	<0.0025	<0.0025
5/26/2015									
6/18/2015									
7/2/2015									
10/6/2015							<0.0025		
10/7/2015								<0.0025	<0.0025
10/8/2015									
10/9/2015									
10/10/2015					0.002325 (D)				
10/11/2015									
10/12/2015			0.012	0.019					
10/13/2015	<0.0025	<0.0025				<0.0025			
10/14/2015									
10/15/2015									
3/22/2016						<0.01			
3/23/2016	<0.01	<0.01		0.019					
3/28/2016			0.0172						
3/29/2016									
3/30/2016					0.00116 (J)				
3/31/2016									
4/4/2016									
4/5/2016							<0.01	<0.01	<0.01
7/29/2016	<0.01	<0.01 (*)		0.0161		<0.01 (*)			
8/1/2016			0.0113						
8/2/2016									
8/3/2016									
8/4/2016									<0.01 (*)

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 12/7/2018 9:40 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-2R (bg)	GWA-2 (bg)	GWC-5	GWA-3 (bg)	GWC-9	GWA-1 (bg)	GWC-15_15Z	GWC-14_14Z	GWC-15R
8/5/2016					<0.01				
8/9/2016								0.0021 (J)	
3/30/2017		0.0006 (J)		0.018		0.0004 (J)			
4/3/2017	<0.01		0.0114						
4/6/2017					0.001 (J)				
4/7/2017									
4/10/2017									
4/11/2017							<0.01 (*)	<0.01	
4/12/2017									<0.01 (*)
10/2/2017	<0.01	<0.01				<0.01			
10/3/2017			0.0098 (J)		0.0007 (J)				
10/4/2017				0.0158					
10/5/2017								<0.01	
10/6/2017							<0.01		0.001 (J)
10/9/2017									
3/16/2018	<0.01					<0.01			
3/19/2018		<0.01	0.0092 (J)	0.015					
3/20/2018					0.00097 (J)				
3/21/2018									
3/22/2018								<0.01	
3/23/2018							<0.01		<0.01
9/14/2018	<0.01	<0.01							
9/17/2018			0.0085 (J)	0.014		<0.01 (D)			
9/18/2018					<0.01 (D)				
9/19/2018							<0.01	0.00096 (J)	<0.01
9/20/2018									

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 12/7/2018 9:40 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50R (bg)	GWA-50 (bg)	GWC-8RR	GWC-8Z	GWC-6RZ	GWC-7Z	GWA-4RZ (bg)
8/21/2007							
8/22/2007							
8/23/2007							
8/24/2007							
10/23/2007							
10/24/2007							
10/25/2007							
11/1/2007							
11/2/2007							
11/17/2007							
11/18/2007							
11/19/2007							
11/20/2007							
1/15/2008							
1/16/2008							
1/23/2008							
1/30/2008							
1/31/2008							
3/5/2008							
3/6/2008							
3/10/2008							
3/11/2008							
5/6/2008							
5/7/2008							
5/8/2008							
5/12/2008							
5/13/2008							
5/14/2008							
12/2/2008							
12/4/2008							
12/5/2008							
12/11/2008							
12/12/2008	0.0096	0.0035					
12/13/2008							
12/14/2008							
4/15/2009							
4/16/2009							
4/21/2009							
4/23/2009	0.015	0.0032					
4/24/2009							
4/28/2009							
4/29/2009							
10/6/2009	0.008	<0.0025					
10/7/2009							
10/8/2009							
10/9/2009							
10/13/2009							
10/19/2009							
10/20/2009							
10/21/2009							
10/22/2009							
4/20/2010							

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 12/7/2018 9:40 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50R (bg)	GWA-50 (bg)	GWC-8RR	GWC-8Z	GWC-6RZ	GWC-7Z	GWA-4RZ (bg)
4/21/2010							
4/26/2010							
4/27/2010		<0.0025					
4/28/2010							
5/3/2010	0.0053						
5/4/2010							
9/28/2010							
9/29/2010							
9/30/2010		<0.0025					
10/4/2010							
10/5/2010							
10/6/2010							
10/11/2010	0.0061						
10/12/2010							
4/12/2011							
4/13/2011							
4/14/2011		0.0028					
4/18/2011							
4/19/2011							
4/20/2011							
4/21/2011							
4/26/2011							
4/27/2011	0.0087						
4/28/2011							
10/4/2011							
10/5/2011		0.0028					
10/12/2011							
10/13/2011							
10/17/2011							
10/18/2011			<0.0025				
10/19/2011	0.0039						
4/3/2012							
4/4/2012							
4/11/2012		<0.005					
4/23/2012							
4/24/2012							
4/25/2012							
4/30/2012			<0.005				
5/1/2012	0.0054						
5/2/2012							
10/2/2012	0.0044	0.0026					
10/3/2012			<0.0025				
10/8/2012							
10/9/2012							
10/10/2012							
4/2/2013							
4/3/2013							
4/8/2013			<0.0025				
4/9/2013		<0.0025					
4/10/2013	0.0053						
4/11/2013							
4/12/2013							

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 12/7/2018 9:40 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50R (bg)	GWA-50 (bg)	GWC-8RR	GWC-8Z	GWC-6RZ	GWC-7Z	GWA-4RZ (bg)
4/15/2013							
4/16/2013							
10/8/2013							
10/9/2013			<0.0025				
10/15/2013		<0.0025					
10/16/2013	0.0047						
10/22/2013							
4/1/2014							
4/2/2014							
4/9/2014							
4/10/2014		0.0025 (J)	<0.00125				
4/11/2014							
4/14/2014							
4/21/2014							
4/22/2014	0.0045						
4/23/2014							
9/30/2014							
10/1/2014	0.0018 (J)	<0.0025					
10/2/2014			<0.0025				
10/3/2014							
10/4/2014							
3/30/2015	0.0037	0.0015 (J)					
3/31/2015							
4/1/2015							
4/2/2015							
4/3/2015			<0.0025				
5/26/2015				0.002 (J)	<0.0025		
6/18/2015				0.0025 (D)	<0.0025 (D)		
7/2/2015				<0.0025	<0.0025		
10/6/2015							
10/7/2015							
10/8/2015			0.003	<0.0025			
10/9/2015					<0.0025		
10/10/2015							
10/11/2015	0.0018 (J)	0.0013 (J)					
10/12/2015							
10/13/2015							
10/14/2015							
10/15/2015							
3/22/2016				<0.01			
3/23/2016							
3/28/2016	0.0028 (J)	<0.01					
3/29/2016					<0.01		
3/30/2016			<0.01				
3/31/2016							
4/4/2016							
4/5/2016							
7/29/2016							
8/1/2016	<0.01 (*)	<0.01 (*)			<0.01		
8/2/2016			<0.01	<0.01 (*)		0.0011 (J)	
8/3/2016							
8/4/2016							

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 12/7/2018 9:40 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50R (bg)	GWA-50 (bg)	GWC-8RR	GWC-8Z	GWC-6RZ	GWC-7Z	GWA-4RZ (bg)
8/5/2016							
8/9/2016							
3/30/2017							
4/3/2017	0.0022 (J)						
4/6/2017			0.0003 (J)		<0.01	0.0011 (J)	
4/7/2017		0.0011 (J)		0.0007 (J)			<0.01
4/10/2017							
4/11/2017							
4/12/2017							
10/2/2017	0.0021 (J)	0.0013 (J)					
10/3/2017				0.0006 (J)	<0.01	0.0012 (J)	<0.01
10/4/2017			<0.01				
10/5/2017							
10/6/2017							
10/9/2017							
3/16/2018	0.0014 (J)	<0.01					
3/19/2018							
3/20/2018				<0.01	<0.01	<0.01	
3/21/2018			<0.01				<0.01
3/22/2018							
3/23/2018							
9/14/2018							
9/17/2018		0.00096 (J)			<0.01		
9/18/2018	0.0012 (J)		<0.01	<0.01		<0.01	<0.01
9/19/2018							
9/20/2018							

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 12/7/2018 9:40 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-11	GWC-10R	GWC-13	GWC-12	GWC-11R	GWC-10	GWC-13R_13RZ	GWC-6	GWC-6R
8/21/2007	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013		
8/22/2007								<0.013	<0.013
8/23/2007									
8/24/2007									
10/23/2007									
10/24/2007									
10/25/2007								<0.013	<0.013
11/1/2007	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013		
11/2/2007									
11/17/2007									
11/18/2007	<0.013				<0.013				
11/19/2007			<0.013	<0.013			<0.013		<0.013
11/20/2007		<0.013				<0.013		<0.013	
1/15/2008									
1/16/2008				<0.013					
1/23/2008								<0.013	<0.013
1/30/2008	<0.013	<0.013			<0.013	<0.013			
1/31/2008			<0.013				<0.013		
3/5/2008	<0.013		<0.013	<0.013			<0.013		
3/6/2008		<0.013			<0.013	<0.013			
3/10/2008									
3/11/2008								<0.013	<0.013
5/6/2008									
5/7/2008	<0.013				<0.013		<0.013		
5/8/2008		<0.013							
5/12/2008			<0.013			<0.013			
5/13/2008				<0.013					
5/14/2008								<0.013	<0.013
12/2/2008									
12/4/2008									
12/5/2008									
12/11/2008								<0.013	
12/12/2008							<0.013		<0.013
12/13/2008			<0.013	<0.013		<0.013			
12/14/2008	<0.013	<0.013			<0.013				
4/15/2009									
4/16/2009				<0.013					
4/21/2009									
4/23/2009								<0.013	
4/24/2009									<0.013
4/28/2009			<0.013						
4/29/2009	<0.013	<0.013			<0.013	<0.013	<0.013		
10/6/2009									
10/7/2009									
10/8/2009									
10/9/2009								<0.013	<0.013
10/13/2009									
10/19/2009									
10/20/2009						<0.013			
10/21/2009		<0.013	<0.013	<0.013			<0.013		
10/22/2009	<0.013				<0.013				
4/20/2010									

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 12/7/2018 9:40 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-11	GWC-10R	GWC-13	GWC-12	GWC-11R	GWC-10	GWC-13R_13RZ	GWC-6	GWC-6R
4/21/2010	<0.013	<0.013			<0.013				
4/26/2010						<0.013			
4/27/2010				<0.013					
4/28/2010			<0.013				<0.013		
5/3/2010									
5/4/2010								<0.013	<0.013
9/28/2010	<0.013	<0.013							
9/29/2010					<0.013	<0.013			
9/30/2010									
10/4/2010									
10/5/2010			<0.013	<0.013					
10/6/2010							<0.013		
10/11/2010								<0.013	
10/12/2010									<0.013
4/12/2011	<0.013	<0.013							
4/13/2011					<0.013	<0.013			
4/14/2011									
4/18/2011									
4/19/2011			<0.013	<0.013					
4/20/2011							<0.013		
4/21/2011									
4/26/2011								<0.013	
4/27/2011									
4/28/2011									<0.013
10/4/2011	<0.013	<0.013			<0.013				
10/5/2011						<0.013			
10/12/2011				<0.013			<0.013		
10/13/2011									
10/17/2011									
10/18/2011			<0.013					<0.013	<0.013
10/19/2011									
4/3/2012	<0.005	<0.005							
4/4/2012					<0.005	<0.005			
4/11/2012									
4/23/2012									
4/24/2012				<0.005					
4/25/2012			<0.005				<0.005		
4/30/2012									
5/1/2012									<0.005
5/2/2012								<0.005	
10/2/2012			<0.005	<0.005			<0.005		
10/3/2012	<0.005				<0.005	<0.005			
10/8/2012		<0.005						<0.005	
10/9/2012									<0.005
10/10/2012									
4/2/2013			<0.005	<0.005			<0.005		
4/3/2013	<0.005	<0.005			<0.005	<0.005			
4/8/2013									
4/9/2013									<0.005
4/10/2013								<0.005	
4/11/2013									
4/12/2013									

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 12/7/2018 9:40 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-11	GWC-10R	GWC-13	GWC-12	GWC-11R	GWC-10	GWC-13R_13RZ	GWC-6	GWC-6R
4/15/2013									
4/16/2013									
10/8/2013			<0.005				<0.005	<0.005	
10/9/2013	<0.005			<0.005	<0.005				
10/15/2013		<0.005				<0.005			
10/16/2013									
10/22/2013									
4/1/2014			<0.005	<0.005			<0.005		
4/2/2014	<0.005				<0.005				
4/9/2014		<0.005				<0.005			
4/10/2014									
4/11/2014									
4/14/2014								<0.005	
4/21/2014									
4/22/2014									
4/23/2014									
9/30/2014									
10/1/2014			<0.005				<0.005		
10/2/2014	<0.005	<0.005		<0.005	<0.005	<0.005			
10/3/2014								<0.005	
10/4/2014									
3/30/2015									
3/31/2015							<0.005		
4/1/2015	<0.005		<0.005	<0.005	<0.005			<0.005	
4/2/2015		<0.005				<0.005			
4/3/2015									
5/26/2015									
6/18/2015									
7/2/2015									
10/6/2015									
10/7/2015									
10/8/2015									
10/9/2015								<0.005	
10/10/2015						<0.005			
10/11/2015	<0.005				<0.005				
10/12/2015		<0.005							
10/13/2015									
10/14/2015				<0.005			<0.005		
10/15/2015			0.0055						
3/22/2016									
3/23/2016									
3/28/2016									
3/29/2016								<0.01	
3/30/2016									
3/31/2016		<0.01				<0.01			
4/4/2016	<0.01		0.00286 (J)	<0.01	<0.01		<0.01		
4/5/2016									
5/19/2016									
5/20/2016									
5/23/2016									
5/24/2016								<0.01	
5/25/2016									

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 12/7/2018 9:40 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-11	GWC-10R	GWC-13	GWC-12	GWC-11R	GWC-10	GWC-13R_13RZ	GWC-6	GWC-6R
5/26/2016	<0.01	<0.01			<0.01	<0.01			
5/27/2016				<0.01					
5/31/2016			0.00303 (J)						
6/1/2016							<0.01		
7/29/2016									
8/1/2016								<0.01	
8/2/2016									
8/3/2016	<0.01	<0.01		<0.01					
8/4/2016			0.005 (J)		<0.01				
8/5/2016						<0.01			
8/9/2016									
9/22/2016									
9/23/2016									
9/26/2016								<0.01	
9/27/2016									
9/28/2016	<0.01	<0.01			<0.01	<0.01			
9/29/2016			0.0074 (J)						
9/30/2016				<0.01					
11/9/2016									
11/10/2016									
11/11/2016									
11/14/2016									
11/18/2016								<0.01	
11/21/2016									
11/22/2016	<0.01	<0.01		<0.01	<0.01	<0.01			
11/23/2016									
11/28/2016			0.0073 (J)						
1/30/2017									
1/31/2017									
2/1/2017								<0.01	
2/3/2017									
2/6/2017									
2/7/2017		<0.01				<0.01			
2/8/2017	<0.01				<0.01				
2/9/2017			0.0067 (J)						
2/10/2017									
2/13/2017				<0.01					
2/22/2017							0.0014 (J)		
3/30/2017									
4/3/2017									
4/6/2017								<0.01	
4/7/2017									
4/10/2017	<0.01	<0.01			<0.01	<0.01			
4/11/2017				<0.01			0.0024 (J)		
4/12/2017			0.0048 (J)						
6/9/2017									
6/12/2017									
6/13/2017								<0.01	
6/14/2017		<0.01		<0.01		<0.01			
6/15/2017	<0.01				<0.01				
6/16/2017			0.007 (J)				<0.01		
7/12/2017							0.0019 (J)		

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 12/7/2018 9:40 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-11	GWC-10R	GWC-13	GWC-12	GWC-11R	GWC-10	GWC-13R_13RZ	GWC-6	GWC-6R
7/14/2017									
7/20/2017									
7/26/2017									
7/28/2017							<0.01		
8/9/2017									
8/10/2017							0.0019 (J)		
8/24/2017									
10/2/2017									
10/3/2017								<0.01	
10/4/2017	<0.01	<0.01		<0.01	<0.01	<0.01			
10/5/2017									
10/6/2017							<0.01		
10/9/2017			0.0048 (J)						
3/16/2018									
3/19/2018								<0.01	
3/20/2018						<0.01			
3/21/2018	<0.01	<0.01	0.0021 (J)						
3/22/2018				<0.01	<0.01				
3/23/2018							<0.01		
9/14/2018									
9/17/2018								<0.01	
9/18/2018	<0.01	<0.01		<0.01	<0.01	<0.01			
9/19/2018			0.0019 (J)						
9/20/2018							<0.01		

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 12/7/2018 9:40 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-2 (bg)	GWC-15R	GWA-3 (bg)	GWA-2R (bg)	GWC-5	GWA-1 (bg)	GWC-9	GWC-15_15Z	GWC-14_14Z
8/21/2007									
8/22/2007									
8/23/2007	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013		
8/24/2007								<0.013	<0.013
10/23/2007						<0.013			
10/24/2007	<0.013			<0.013					
10/25/2007					<0.013				
11/1/2007							<0.013		
11/2/2007		<0.013	<0.013					<0.013	<0.013
11/17/2007		<0.013							<0.013
11/18/2007	<0.013		<0.013	<0.013		<0.013		<0.013	
11/19/2007					<0.013		<0.013		
11/20/2007									
1/15/2008		<0.013					<0.013	<0.013	<0.013
1/16/2008									
1/23/2008					<0.013				
1/30/2008						<0.013			
1/31/2008	<0.013		<0.013	<0.013					
3/5/2008									<0.013
3/6/2008		<0.013					<0.013		
3/10/2008				<0.013		<0.013		<0.013	
3/11/2008	<0.013		<0.013		<0.013				
5/6/2008	<0.013								
5/7/2008		<0.013							<0.013
5/8/2008									
5/12/2008					<0.013				
5/13/2008				<0.013		<0.013	<0.013	<0.013	
5/14/2008			<0.013						
12/2/2008		<0.013						<0.013	<0.013
12/4/2008	<0.013			<0.013					
12/5/2008			<0.013			<0.013			
12/11/2008					<0.013				
12/12/2008							<0.013		
12/13/2008									
12/14/2008									
4/15/2009			<0.013		<0.013	<0.013			
4/16/2009							<0.013		<0.013
4/21/2009	<0.013			<0.013					
4/23/2009									
4/24/2009									
4/28/2009		<0.013						<0.013	
4/29/2009									
10/6/2009									
10/7/2009	<0.013					<0.013			
10/8/2009			<0.013	<0.013					
10/9/2009					0.015				
10/13/2009							<0.013		
10/19/2009		<0.013							
10/20/2009								<0.013	<0.013
10/21/2009									
10/22/2009									
4/20/2010									<0.013

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 12/7/2018 9:40 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-2 (bg)	GWC-15R	GWA-3 (bg)	GWA-2R (bg)	GWC-5	GWA-1 (bg)	GWC-9	GWC-15_15Z	GWC-14_14Z
4/21/2010				<0.013			<0.013		
4/26/2010	<0.013								
4/27/2010		<0.013						<0.013	
4/28/2010			<0.013						
5/3/2010						<0.013			
5/4/2010					<0.013				
9/28/2010				<0.013					
9/29/2010							<0.013		<0.013
9/30/2010									
10/4/2010	<0.013	<0.013							
10/5/2010								<0.013	
10/6/2010			<0.013						
10/11/2010									
10/12/2010					<0.013	<0.013			
4/12/2011				<0.013					<0.013
4/13/2011	<0.013						<0.013		
4/14/2011									
4/18/2011		<0.013							
4/19/2011								<0.013	
4/20/2011									
4/21/2011			<0.013						
4/26/2011									
4/27/2011						<0.013			
4/28/2011					<0.013				
10/4/2011				<0.013					<0.013
10/5/2011	<0.013						<0.013		
10/12/2011		<0.013						<0.013	
10/13/2011			<0.013						
10/17/2011						<0.013			
10/18/2011									
10/19/2011					<0.013				
4/3/2012				<0.005					
4/4/2012							<0.005		<0.005
4/11/2012	<0.005								
4/23/2012		<0.005							
4/24/2012									
4/25/2012								<0.005	
4/30/2012									
5/1/2012			<0.005						
5/2/2012					<0.005	<0.005			
10/2/2012									
10/3/2012									
10/8/2012						<0.005	<0.005		
10/9/2012	<0.005		<0.005	<0.005	0.0054				
10/10/2012		<0.005						<0.005	<0.005
4/2/2013									
4/3/2013									
4/8/2013							<0.005		
4/9/2013									
4/10/2013									
4/11/2013			<0.005	<0.005	0.0072				
4/12/2013						<0.005			

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 12/7/2018 9:40 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-2 (bg)	GWC-15R	GWA-3 (bg)	GWA-2R (bg)	GWC-5	GWA-1 (bg)	GWC-9	GWC-15_15Z	GWC-14_14Z
4/15/2013	<0.005	<0.005							<0.005
4/16/2013								<0.005	
10/8/2013									
10/9/2013							<0.005		
10/15/2013	<0.005								
10/16/2013			<0.005	<0.005	<0.005	<0.005			
10/22/2013		<0.005						<0.005	<0.005
4/1/2014									
4/2/2014									
4/9/2014							<0.005		
4/10/2014				<0.005					
4/11/2014						<0.005			
4/14/2014									
4/21/2014		<0.005						<0.005	<0.005
4/22/2014	<0.005								
4/23/2014			<0.005		0.0067				
9/30/2014	<0.005	<0.005		<0.005		<0.005	<0.005	<0.005	<0.005
10/1/2014									
10/2/2014									
10/3/2014					<0.005				
10/4/2014			<0.005						
3/30/2015	<0.005			<0.005		<0.005			
3/31/2015			<0.005		<0.005				
4/1/2015									
4/2/2015							<0.005		
4/3/2015		<0.005						<0.005	<0.005
5/26/2015									
6/18/2015									
7/2/2015									
10/6/2015								<0.005	
10/7/2015		<0.005							<0.005
10/8/2015									
10/9/2015									
10/10/2015							<0.005 (D)		
10/11/2015									
10/12/2015			<0.005		<0.005				
10/13/2015	<0.005			<0.005		<0.005			
10/14/2015									
10/15/2015									
3/22/2016						<0.01			
3/23/2016	<0.01		<0.01	<0.01					
3/28/2016					<0.01				
3/29/2016									
3/30/2016							0.00202 (J)		
3/31/2016									
4/4/2016									
4/5/2016		<0.01						<0.01	<0.01
5/19/2016				<0.01		<0.01			
5/20/2016	0.00216 (J)								
5/23/2016			<0.01						
5/24/2016									
5/25/2016					<0.01				

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 12/7/2018 9:40 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-2 (bg)	GWC-15R	GWA-3 (bg)	GWA-2R (bg)	GWC-5	GWA-1 (bg)	GWC-9	GWC-15_15Z	GWC-14_14Z
5/26/2016							<0.01		
5/27/2016									
5/31/2016		<0.01						<0.01	
6/1/2016									<0.01
7/29/2016	0.001 (J)		<0.01	<0.01		<0.01			
8/1/2016					<0.01				
8/2/2016									
8/3/2016									
8/4/2016		<0.01							
8/5/2016							<0.01		
8/9/2016									<0.01
9/22/2016			<0.01	<0.01					
9/23/2016	<0.01					<0.01			
9/26/2016									
9/27/2016					<0.01				
9/28/2016							<0.01		
9/29/2016		<0.01							
9/30/2016									
11/9/2016	<0.01					<0.01			
11/10/2016			<0.01	<0.01					
11/11/2016					<0.01				
11/14/2016									
11/18/2016									
11/21/2016							<0.01		
11/22/2016									
11/23/2016		0.0016 (J)						<0.01	
11/28/2016									<0.01
1/30/2017						<0.01			
1/31/2017	<0.01		<0.01	<0.01	<0.01				
2/1/2017									
2/3/2017									
2/6/2017							<0.01		
2/7/2017									
2/8/2017									
2/9/2017									<0.01
2/10/2017		<0.01						<0.01	
2/13/2017									
2/22/2017									
3/30/2017	<0.01		<0.01			<0.01			
4/3/2017				<0.01	<0.01				
4/6/2017							<0.01		
4/7/2017									
4/10/2017									
4/11/2017								<0.01	<0.01
4/12/2017		<0.01							
6/9/2017				<0.01		<0.01			
6/12/2017	<0.01		<0.01		<0.01				
6/13/2017							<0.01		
6/14/2017									<0.01
6/15/2017		<0.01						<0.01	
6/16/2017									
7/12/2017								<0.01	<0.01

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 12/7/2018 9:40 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-2 (bg)	GWC-15R	GWA-3 (bg)	GWA-2R (bg)	GWC-5	GWA-1 (bg)	GWC-9	GWC-15_15Z	GWC-14_14Z
7/14/2017									
7/20/2017									
7/26/2017								<0.01	
7/28/2017									
8/9/2017									
8/10/2017									
8/24/2017									
10/2/2017	<0.01			<0.01		<0.01			
10/3/2017					<0.01		<0.01		
10/4/2017			<0.01						
10/5/2017									<0.01
10/6/2017		<0.01						<0.01	
10/9/2017									
3/16/2018				<0.01		<0.01			
3/19/2018	0.0016 (J)		<0.01		<0.01				
3/20/2018							<0.01		
3/21/2018									
3/22/2018									<0.01
3/23/2018		<0.01						<0.01	
9/14/2018	<0.01			<0.01					
9/17/2018			<0.01		<0.01	<0.01 (D)			
9/18/2018							<0.01 (D)		
9/19/2018		<0.01						<0.01	<0.01
9/20/2018									

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 12/7/2018 9:40 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50 (bg)	GWA-50R (bg)	GWC-8RR	GWC-6RZ	GWC-8Z	GWC-7Z	GWA-4RZ (bg)
8/21/2007							
8/22/2007							
8/23/2007							
8/24/2007							
10/23/2007							
10/24/2007							
10/25/2007							
11/1/2007							
11/2/2007							
11/17/2007							
11/18/2007							
11/19/2007							
11/20/2007							
1/15/2008							
1/16/2008							
1/23/2008							
1/30/2008							
1/31/2008							
3/5/2008							
3/6/2008							
3/10/2008							
3/11/2008							
5/6/2008							
5/7/2008							
5/8/2008							
5/12/2008							
5/13/2008							
5/14/2008							
12/2/2008							
12/4/2008							
12/5/2008							
12/11/2008							
12/12/2008	<0.013	<0.013					
12/13/2008							
12/14/2008							
4/15/2009							
4/16/2009							
4/21/2009							
4/23/2009	<0.013	<0.013					
4/24/2009							
4/28/2009							
4/29/2009							
10/6/2009	<0.013	<0.013					
10/7/2009							
10/8/2009							
10/9/2009							
10/13/2009							
10/19/2009							
10/20/2009							
10/21/2009							
10/22/2009							
4/20/2010							

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 12/7/2018 9:40 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50 (bg)	GWA-50R (bg)	GWC-8RR	GWC-6RZ	GWC-8Z	GWC-7Z	GWA-4RZ (bg)
4/21/2010							
4/26/2010							
4/27/2010	<0.013						
4/28/2010							
5/3/2010		<0.013					
5/4/2010							
9/28/2010							
9/29/2010							
9/30/2010	<0.013						
10/4/2010							
10/5/2010							
10/6/2010							
10/11/2010		<0.013					
10/12/2010							
4/12/2011							
4/13/2011							
4/14/2011	<0.013						
4/18/2011							
4/19/2011							
4/20/2011							
4/21/2011							
4/26/2011							
4/27/2011		<0.013					
4/28/2011							
10/4/2011							
10/5/2011	<0.013						
10/12/2011							
10/13/2011							
10/17/2011							
10/18/2011			<0.013				
10/19/2011		<0.013					
4/3/2012							
4/4/2012							
4/11/2012	<0.005						
4/23/2012							
4/24/2012							
4/25/2012							
4/30/2012			<0.005				
5/1/2012		<0.005					
5/2/2012							
10/2/2012	<0.005	<0.005					
10/3/2012			<0.005				
10/8/2012							
10/9/2012							
10/10/2012							
4/2/2013							
4/3/2013							
4/8/2013			<0.005				
4/9/2013	<0.005						
4/10/2013		<0.005					
4/11/2013							
4/12/2013							

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 12/7/2018 9:40 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50 (bg)	GWA-50R (bg)	GWC-8RR	GWC-6RZ	GWC-8Z	GWC-7Z	GWA-4RZ (bg)
4/15/2013							
4/16/2013							
10/8/2013							
10/9/2013			<0.005				
10/15/2013	<0.005						
10/16/2013		<0.005					
10/22/2013							
4/1/2014							
4/2/2014							
4/9/2014							
4/10/2014	<0.005		<0.005				
4/11/2014							
4/14/2014							
4/21/2014							
4/22/2014		<0.005					
4/23/2014							
9/30/2014							
10/1/2014	<0.005	<0.005					
10/2/2014			<0.005				
10/3/2014							
10/4/2014							
3/30/2015	<0.005	<0.005					
3/31/2015							
4/1/2015							
4/2/2015							
4/3/2015			<0.005				
5/26/2015				<0.005	<0.005		
6/18/2015				<0.005 (D)	<0.005 (D)		
7/2/2015				<0.005	<0.005		
10/6/2015							
10/7/2015							
10/8/2015			<0.005		<0.005		
10/9/2015				<0.005			
10/10/2015							
10/11/2015	<0.005	<0.005					
10/12/2015							
10/13/2015							
10/14/2015							
10/15/2015							
3/22/2016					<0.01		
3/23/2016							
3/28/2016	<0.01	<0.01					
3/29/2016				<0.01			
3/30/2016			<0.01				
3/31/2016							
4/4/2016							
4/5/2016							
5/19/2016							
5/20/2016							
5/23/2016	<0.01						
5/24/2016			<0.01	<0.01			
5/25/2016		<0.01			<0.01		

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 12/7/2018 9:40 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50 (bg)	GWA-50R (bg)	GWC-8RR	GWC-6RZ	GWC-8Z	GWC-7Z	GWA-4RZ (bg)
5/26/2016							
5/27/2016							
5/31/2016						<0.01	
6/1/2016							
7/29/2016							
8/1/2016	<0.01	<0.01		<0.01			
8/2/2016			<0.01		<0.01	<0.01	
8/3/2016							
8/4/2016							
8/5/2016							
8/9/2016							
9/22/2016							
9/23/2016							
9/26/2016	<0.01	<0.01		<0.01	<0.01		
9/27/2016			<0.01			<0.01	
9/28/2016							
9/29/2016							
9/30/2016							
11/9/2016							
11/10/2016	<0.01						
11/11/2016		<0.01					
11/14/2016				<0.01			
11/18/2016							
11/21/2016					<0.01	<0.01	
11/22/2016			<0.01				
11/23/2016							
11/28/2016							
1/30/2017	<0.01	<0.01					
1/31/2017							
2/1/2017				<0.01		<0.01	
2/3/2017					<0.01		
2/6/2017			<0.01				
2/7/2017							
2/8/2017							
2/9/2017							
2/10/2017							
2/13/2017							
2/22/2017							<0.01
3/30/2017							
4/3/2017		<0.01					
4/6/2017			<0.01	<0.01		<0.01	
4/7/2017	<0.01				<0.01		<0.01
4/10/2017							
4/11/2017							
4/12/2017							
6/9/2017							
6/12/2017	<0.01	<0.01					
6/13/2017				<0.01	<0.01	<0.01	
6/14/2017			<0.01				<0.01
6/15/2017							
6/16/2017							
7/12/2017							<0.01

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 12/7/2018 9:40 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

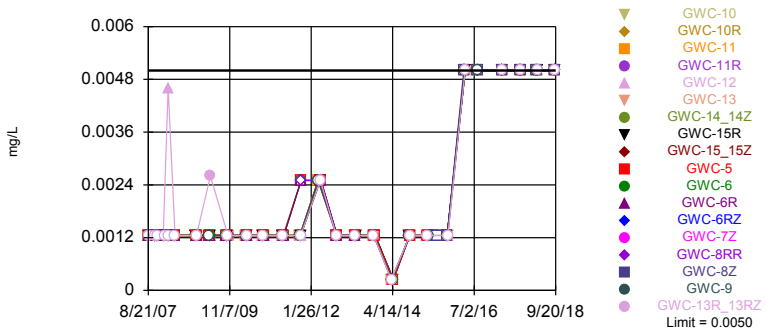
	GWA-50 (bg)	GWA-50R (bg)	GWC-8RR	GWC-6RZ	GWC-8Z	GWC-7Z	GWA-4RZ (bg)
7/14/2017						<0.01	
7/20/2017							<0.01
7/26/2017							
7/28/2017							<0.01
8/9/2017							<0.01
8/10/2017							
8/24/2017							<0.01
10/2/2017	<0.01	<0.01					
10/3/2017				<0.01	<0.01	<0.01	<0.01
10/4/2017			<0.01				
10/5/2017							
10/6/2017							
10/9/2017							
3/16/2018	<0.01	<0.01					
3/19/2018							
3/20/2018				<0.01	<0.01	<0.01	
3/21/2018			<0.01				<0.01
3/22/2018							
3/23/2018							
9/14/2018							
9/17/2018	<0.01			<0.01			
9/18/2018		<0.01	<0.01		<0.01	<0.01	<0.01
9/19/2018							
9/20/2018							

Sanitas™ v.9.5.32 Sanitas software licensed to AMEC. UG
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 154 background values. 88.96% NDs. Annual per-constituent alpha = 0.002821. Individual comparison alpha = 0.00008309 (1 of 2). Comparing 18 points to limit.

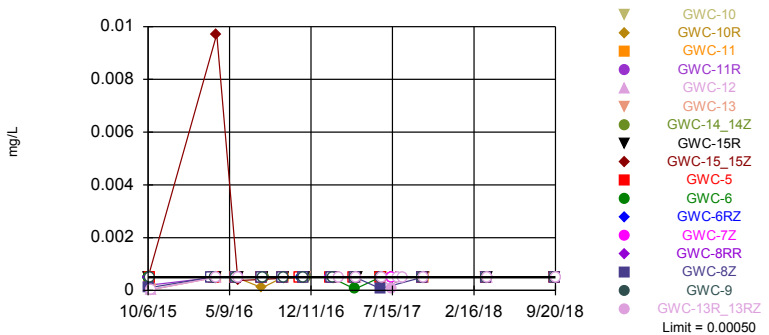
Constituent: Silver Analysis Run 12/7/2018 9:25 AM View: Cells 1&2 metals OB and BR combined
Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

Sanitas™ v.9.5.32 Sanitas software licensed to AMEC. UG
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 84 background values. 98.81% NDs. Annual per-constituent alpha = 0.009151. Individual comparison alpha = 0.0002703 (1 of 2). Comparing 17 points to limit.

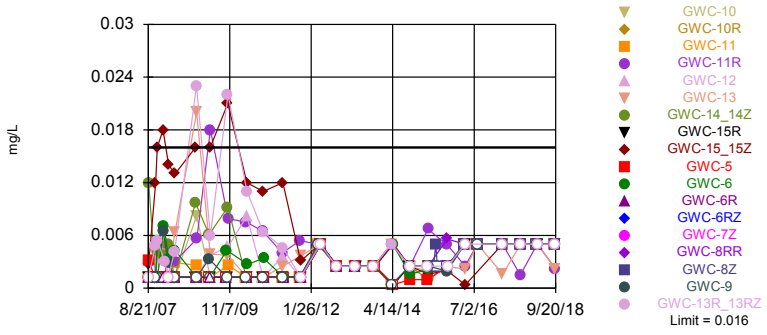
Constituent: Thallium Analysis Run 12/7/2018 9:26 AM View: Cells 1&2 metals OB and BR combined
Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

Sanitas™ v.9.5.32 Sanitas software licensed to AMEC. UG
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 154 background values. 86.36% NDs. Annual per-constituent alpha = 0.002821. Individual comparison alpha = 0.00008309 (1 of 2). Comparing 18 points to limit.

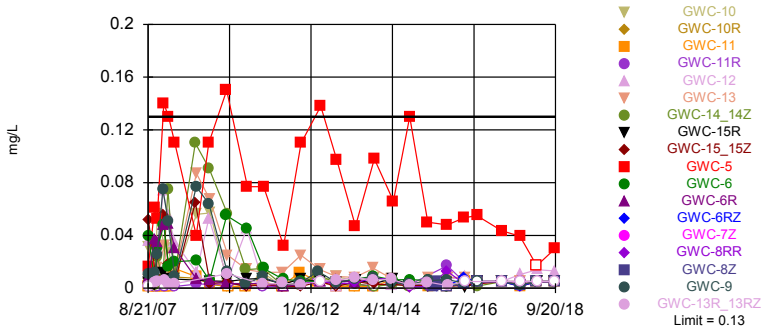
Constituent: Vanadium Analysis Run 12/7/2018 9:26 AM View: Cells 1&2 metals OB and BR combined
Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

Sanitas™ v.9.5.32 Sanitas software licensed to AMEC. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 153 background values. 29.41% NDs. Annual per-constituent alpha = 0.00286. Individual comparison alpha = 0.00008423 (1 of 2). Comparing 18 points to limit.

Constituent: Zinc Analysis Run 12/7/2018 9:27 AM View: Cells 1&2 metals OB and BR combined
Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

Prediction Limit

Constituent: Silver (mg/L) Analysis Run 12/7/2018 9:41 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-10R	GWC-11	GWC-13R_13RZ	GWC-10	GWC-11R	GWC-12	GWC-13	GWC-6R	GWC-6
8/21/2007	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025		
8/22/2007								<0.0025	<0.0025
8/23/2007									
8/24/2007									
10/23/2007									
10/24/2007									
10/25/2007								<0.0025	<0.0025
11/1/2007	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025		
11/2/2007									
11/17/2007									
11/18/2007		<0.0025			<0.0025				
11/19/2007			<0.0025			<0.0025	<0.0025	<0.0025	
11/20/2007	<0.0025			<0.0025					<0.0025
1/15/2008									
1/16/2008						<0.0025			
1/23/2008								<0.0025	<0.0025
1/30/2008	<0.0025	<0.0025		<0.0025	<0.0025				
1/31/2008			<0.0025				<0.0025		
3/5/2008		<0.0025	<0.0025			0.0046	<0.0025		
3/6/2008	<0.0025			<0.0025	<0.0025				
3/10/2008									
3/11/2008								<0.0025	<0.0025
5/6/2008									
5/7/2008		<0.0025	<0.0025		<0.0025				
5/8/2008	<0.0025								
5/12/2008				<0.0025			<0.0025		
5/13/2008						<0.0025			
5/14/2008								<0.0025	<0.0025
12/2/2008									
12/4/2008									
12/5/2008									
12/11/2008									<0.0025
12/12/2008			<0.0025					<0.0025	
12/13/2008				<0.0025		<0.0025	<0.0025		
12/14/2008	<0.0025	<0.0025			<0.0025				
4/15/2009									
4/16/2009						<0.0025			
4/21/2009									
4/23/2009									<0.0025
4/24/2009								<0.0025	
4/28/2009							<0.0025		
4/29/2009	<0.0025	<0.0025	0.0026	<0.0025	<0.0025				
10/6/2009									
10/7/2009									
10/8/2009									
10/9/2009								<0.0025	<0.0025
10/13/2009									
10/19/2009									
10/20/2009				<0.0025					
10/21/2009	<0.0025		<0.0025			<0.0025	<0.0025		
10/22/2009		<0.0025			<0.0025				
4/20/2010									

Prediction Limit

Constituent: Silver (mg/L) Analysis Run 12/7/2018 9:41 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-10R	GWC-11	GWC-13R_13RZ	GWC-10	GWC-11R	GWC-12	GWC-13	GWC-6R	GWC-6
4/21/2010	<0.0025	<0.0025			<0.0025				
4/26/2010				<0.0025					
4/27/2010						<0.0025			
4/28/2010			<0.0025				<0.0025		
5/3/2010									
5/4/2010								<0.0025	<0.0025
9/28/2010	<0.0025	<0.0025							
9/29/2010				<0.0025	<0.0025				
9/30/2010									
10/4/2010									
10/5/2010						<0.0025	<0.0025		
10/6/2010			<0.0025						
10/11/2010									<0.0025
10/12/2010								<0.0025	
4/12/2011	<0.0025	<0.0025							
4/13/2011				<0.0025	<0.0025				
4/14/2011									
4/18/2011									
4/19/2011						<0.0025	<0.0025		
4/20/2011			<0.0025						
4/21/2011									
4/26/2011									<0.0025
4/27/2011									
4/28/2011								<0.0025	
10/4/2011	<0.0025	<0.0025			<0.0025				
10/5/2011				<0.0025					
10/12/2011			<0.0025			<0.0025			
10/13/2011									
10/17/2011									
10/18/2011							<0.005	<0.005	<0.005
10/19/2011									
4/3/2012	<0.005	<0.005							
4/4/2012				<0.005	<0.005				
4/11/2012									
4/23/2012									
4/24/2012						<0.005			
4/25/2012			<0.005				<0.005		
4/30/2012									
5/1/2012								<0.005	
5/2/2012									<0.005
10/2/2012			<0.0025			<0.0025	<0.0025		
10/3/2012		<0.0025		<0.0025	<0.0025				
10/8/2012	<0.0025								<0.0025
10/9/2012								<0.0025	
10/10/2012									
4/2/2013			<0.0025			<0.0025	<0.0025		
4/3/2013	<0.0025	<0.0025		<0.0025	<0.0025				
4/8/2013									
4/9/2013								<0.0025	
4/10/2013									<0.0025
4/11/2013									
4/12/2013									

Prediction Limit

Constituent: Silver (mg/L) Analysis Run 12/7/2018 9:41 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-10R	GWC-11	GWC-13R_13RZ	GWC-10	GWC-11R	GWC-12	GWC-13	GWC-6R	GWC-6
4/15/2013									
4/16/2013									
10/8/2013			<0.0025				<0.0025		<0.0025
10/9/2013		<0.0025			<0.0025	<0.0025			
10/15/2013	<0.0025			<0.0025					
10/16/2013									
10/22/2013									
4/1/2014			<0.0005			<0.0005	<0.0005		
4/2/2014		<0.0005			<0.0005				
4/9/2014	<0.0005			<0.0005					
4/10/2014									
4/11/2014									
4/14/2014									<0.0005
4/21/2014									
4/22/2014									
4/23/2014									
9/30/2014									
10/1/2014			<0.0025				<0.0025		
10/2/2014	<0.0025	<0.0025		<0.0025	<0.0025	<0.0025			
10/3/2014									<0.0025
10/4/2014									
3/30/2015									
3/31/2015			<0.0025						
4/1/2015		<0.0025			<0.0025	<0.0025	<0.0025		<0.0025
4/2/2015	<0.0025			<0.0025					
4/3/2015									
5/26/2015									
6/18/2015									
7/2/2015									
10/6/2015									
10/7/2015									
10/8/2015									
10/9/2015									<0.0025
10/10/2015				<0.0025					
10/11/2015		<0.0025			<0.0025				
10/12/2015	<0.0025								
10/13/2015									
10/14/2015			<0.0025			<0.0025			
10/15/2015							<0.0025		
3/22/2016									
3/23/2016									
3/28/2016									
3/29/2016									<0.01
3/30/2016									
3/31/2016	<0.01			<0.01					
4/4/2016		<0.01	<0.01		<0.01	<0.01	<0.01		
4/5/2016									
7/29/2016									
8/1/2016									<0.01
8/2/2016									
8/3/2016	<0.01	<0.01				<0.01			
8/4/2016					<0.01		<0.01		

Prediction Limit

Constituent: Silver (mg/L) Analysis Run 12/7/2018 9:41 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-10R	GWC-11	GWC-13R_13RZ	GWC-10	GWC-11R	GWC-12	GWC-13	GWC-6R	GWC-6
8/5/2016				<0.01					
8/9/2016									
3/30/2017									
4/3/2017									
4/6/2017									<0.01
4/7/2017									
4/10/2017	<0.01	<0.01		<0.01	<0.01				
4/11/2017			<0.01			<0.01			
4/12/2017							<0.01		
10/2/2017									
10/3/2017									<0.01
10/4/2017	<0.01	<0.01		<0.01	<0.01	<0.01			
10/5/2017									
10/6/2017			<0.01						
10/9/2017							<0.01		
3/16/2018									
3/19/2018									<0.01
3/20/2018				<0.01					
3/21/2018	<0.01	<0.01					<0.01		
3/22/2018					<0.01	<0.01			
3/23/2018			<0.01						
9/14/2018									
9/17/2018									<0.01
9/18/2018	<0.01	<0.01		<0.01	<0.01	<0.01			
9/19/2018							<0.01		
9/20/2018			<0.01						

Prediction Limit

Constituent: Silver (mg/L) Analysis Run 12/7/2018 9:41 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-5	GWA-2 (bg)	GWC-15R	GWC-9	GWA-1 (bg)	GWA-3 (bg)	GWA-2R (bg)	GWC-14_14Z	GWC-15_15Z
8/21/2007									
8/22/2007									
8/23/2007	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025		
8/24/2007								<0.0025	<0.0025
10/23/2007					<0.0025				
10/24/2007		<0.0025					<0.0025		
10/25/2007	<0.0025								
11/1/2007				<0.0025					
11/2/2007			<0.0025			<0.0025		<0.0025	<0.0025
11/17/2007			<0.0025					<0.0025	
11/18/2007		<0.0025			<0.0025	<0.0025	<0.0025		<0.0025
11/19/2007	<0.0025			<0.0025					
11/20/2007									
1/15/2008			<0.0025	<0.0025				<0.0025	<0.0025
1/16/2008									
1/23/2008	<0.0025								
1/30/2008					<0.0025				
1/31/2008		<0.0025				<0.0025	<0.0025		
3/5/2008								<0.0025	
3/6/2008			<0.0025	<0.0025					
3/10/2008					<0.0025		<0.0025		<0.0025
3/11/2008	<0.0025	<0.0025				<0.0025			
5/6/2008		<0.0025							
5/7/2008			<0.0025					<0.0025	
5/8/2008									
5/12/2008	<0.0025								
5/13/2008				<0.0025	<0.0025		<0.0025		<0.0025
5/14/2008						<0.0025			
12/2/2008			<0.0025					<0.0025	<0.0025
12/4/2008		<0.0025					<0.0025		
12/5/2008					<0.0025	<0.0025			
12/11/2008	<0.0025								
12/12/2008				<0.0025					
12/13/2008									
12/14/2008									
4/15/2009	<0.0025				<0.0025	<0.0025			
4/16/2009				<0.0025				<0.0025	
4/21/2009		<0.0025					<0.0025		
4/23/2009									
4/24/2009									
4/28/2009			<0.0025						<0.0025
4/29/2009									
10/6/2009									
10/7/2009		<0.0025			<0.0025				
10/8/2009						<0.0025	<0.0025		
10/9/2009	<0.0025								
10/13/2009				<0.0025					
10/19/2009			<0.0025						
10/20/2009								<0.0025	<0.0025
10/21/2009									
10/22/2009									
4/20/2010								<0.0025	

Prediction Limit

Constituent: Silver (mg/L) Analysis Run 12/7/2018 9:41 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-5	GWA-2 (bg)	GWC-15R	GWC-9	GWA-1 (bg)	GWA-3 (bg)	GWA-2R (bg)	GWC-14_14Z	GWC-15_15Z
4/21/2010				<0.0025			<0.0025		
4/26/2010		<0.0025							
4/27/2010			<0.0025						<0.0025
4/28/2010						<0.0025			
5/3/2010					<0.0025				
5/4/2010	<0.0025								
9/28/2010							<0.0025		
9/29/2010				<0.0025				<0.0025	
9/30/2010									
10/4/2010		<0.0025	<0.0025						
10/5/2010									<0.0025
10/6/2010						<0.0025			
10/11/2010									
10/12/2010	<0.0025				<0.0025				
4/12/2011							<0.0025	<0.0025	
4/13/2011		<0.0025		<0.0025					
4/14/2011									
4/18/2011			<0.0025						
4/19/2011									<0.0025
4/20/2011									
4/21/2011						<0.0025			
4/26/2011									
4/27/2011					<0.0025				
4/28/2011	<0.0025								
10/4/2011							<0.0025	<0.0025	
10/5/2011		<0.0025		<0.0025					
10/12/2011			<0.0025						<0.0025
10/13/2011						<0.0025			
10/17/2011					<0.005				
10/18/2011									
10/19/2011	<0.005								
4/3/2012							<0.005		
4/4/2012				<0.005				<0.005	
4/11/2012		<0.005							
4/23/2012			<0.005						
4/24/2012									
4/25/2012									<0.005
4/30/2012									
5/1/2012						<0.005			
5/2/2012	<0.005				<0.005				
10/2/2012									
10/3/2012									
10/8/2012				<0.0025	<0.0025				
10/9/2012	<0.0025	<0.0025				<0.0025	<0.0025		
10/10/2012			<0.0025					<0.0025	<0.0025
4/2/2013									
4/3/2013									
4/8/2013				<0.0025					
4/9/2013									
4/10/2013									
4/11/2013	<0.0025					<0.0025	<0.0025		
4/12/2013					<0.0025				

Prediction Limit

Constituent: Silver (mg/L) Analysis Run 12/7/2018 9:41 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-5	GWA-2 (bg)	GWC-15R	GWC-9	GWA-1 (bg)	GWA-3 (bg)	GWA-2R (bg)	GWC-14_14Z	GWC-15_15Z
4/15/2013		<0.0025	<0.0025					<0.0025	
4/16/2013									<0.0025
10/8/2013									
10/9/2013				<0.0025					
10/15/2013		<0.0025							
10/16/2013	<0.0025				<0.0025	<0.0025	<0.0025		
10/22/2013			<0.0025					<0.0025	<0.0025
4/1/2014									
4/2/2014									
4/9/2014				<0.0005					
4/10/2014							<0.0005		
4/11/2014					<0.0005				
4/14/2014									
4/21/2014			<0.0005					<0.0005	<0.0005
4/22/2014		<0.0005							
4/23/2014	<0.0005					<0.0005			
9/30/2014		<0.0025	<0.0025	<0.0025	<0.005		<0.0025	<0.0025	<0.0025
10/1/2014									
10/2/2014									
10/3/2014	<0.0025								
10/4/2014						<0.0025			
3/30/2015		<0.0025			<0.0025		<0.0025		
3/31/2015	<0.0025					<0.0025			
4/1/2015									
4/2/2015				<0.0025					
4/3/2015			<0.0025					<0.0025	<0.0025
5/26/2015									
6/18/2015									
7/2/2015									
10/6/2015									<0.0025
10/7/2015			<0.0025					<0.0025	
10/8/2015									
10/9/2015									
10/10/2015				<0.0025 (D)					
10/11/2015									
10/12/2015	<0.0025					<0.0025			
10/13/2015		<0.0025			<0.0025		<0.0025		
10/14/2015									
10/15/2015									
3/22/2016					<0.01				
3/23/2016		<0.01				<0.01	<0.01		
3/28/2016	<0.01								
3/29/2016									
3/30/2016				<0.01					
3/31/2016									
4/4/2016									
4/5/2016			<0.01					<0.01	<0.01
7/29/2016		<0.01			<0.01	<0.01	<0.01		
8/1/2016	<0.01								
8/2/2016									
8/3/2016									
8/4/2016			<0.01						

Prediction Limit

Constituent: Silver (mg/L) Analysis Run 12/7/2018 9:41 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-5	GWA-2 (bg)	GWC-15R	GWC-9	GWA-1 (bg)	GWA-3 (bg)	GWA-2R (bg)	GWC-14_14Z	GWC-15_15Z
8/5/2016				<0.01					
8/9/2016								<0.01	
3/30/2017		<0.01			<0.01	<0.01			
4/3/2017	<0.01						<0.01		
4/6/2017				<0.01					
4/7/2017									
4/10/2017									
4/11/2017								<0.01	<0.01
4/12/2017			<0.01						
10/2/2017		<0.01			<0.01		<0.01		
10/3/2017	<0.01			<0.01					
10/4/2017						<0.01			
10/5/2017								<0.01	
10/6/2017			<0.01						<0.01
10/9/2017									
3/16/2018					<0.01		<0.01		
3/19/2018	<0.01	<0.01				<0.01			
3/20/2018				<0.01					
3/21/2018									
3/22/2018								<0.01	
3/23/2018			<0.01						<0.01
9/14/2018		<0.01					<0.01		
9/17/2018	<0.01				<0.01 (D)	<0.01			
9/18/2018				<0.01 (D)					
9/19/2018			<0.01					<0.01	<0.01
9/20/2018									

Prediction Limit

Constituent: Silver (mg/L) Analysis Run 12/7/2018 9:41 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50R (bg)	GWA-50 (bg)	GWC-8RR	GWC-8Z	GWC-6RZ	GWC-7Z	GWA-4RZ (bg)
8/21/2007							
8/22/2007							
8/23/2007							
8/24/2007							
10/23/2007							
10/24/2007							
10/25/2007							
11/1/2007							
11/2/2007							
11/17/2007							
11/18/2007							
11/19/2007							
11/20/2007							
1/15/2008							
1/16/2008							
1/23/2008							
1/30/2008							
1/31/2008							
3/5/2008							
3/6/2008							
3/10/2008							
3/11/2008							
5/6/2008							
5/7/2008							
5/8/2008							
5/12/2008							
5/13/2008							
5/14/2008							
12/2/2008							
12/4/2008							
12/5/2008							
12/11/2008							
12/12/2008	<0.0025	<0.0025					
12/13/2008							
12/14/2008							
4/15/2009							
4/16/2009							
4/21/2009							
4/23/2009	<0.0025	<0.0025					
4/24/2009							
4/28/2009							
4/29/2009							
10/6/2009	0.0048	<0.0025					
10/7/2009							
10/8/2009							
10/9/2009							
10/13/2009							
10/19/2009							
10/20/2009							
10/21/2009							
10/22/2009							
4/20/2010							

Prediction Limit

Constituent: Silver (mg/L) Analysis Run 12/7/2018 9:41 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50R (bg)	GWA-50 (bg)	GWC-8RR	GWC-8Z	GWC-6RZ	GWC-7Z	GWA-4RZ (bg)
4/21/2010							
4/26/2010							
4/27/2010		<0.0025					
4/28/2010							
5/3/2010	<0.0025						
5/4/2010							
9/28/2010							
9/29/2010							
9/30/2010		<0.0025					
10/4/2010							
10/5/2010							
10/6/2010							
10/11/2010	<0.0025						
10/12/2010							
4/12/2011							
4/13/2011							
4/14/2011		<0.0025					
4/18/2011							
4/19/2011							
4/20/2011							
4/21/2011							
4/26/2011							
4/27/2011	0.004						
4/28/2011							
10/4/2011							
10/5/2011		<0.0025					
10/12/2011							
10/13/2011							
10/17/2011							
10/18/2011			<0.005				
10/19/2011	<0.005						
4/3/2012							
4/4/2012							
4/11/2012		<0.005					
4/23/2012							
4/24/2012							
4/25/2012							
4/30/2012			<0.005				
5/1/2012	<0.005						
5/2/2012							
10/2/2012	<0.0025	<0.0025					
10/3/2012			<0.0025				
10/8/2012							
10/9/2012							
10/10/2012							
4/2/2013							
4/3/2013							
4/8/2013			<0.0025				
4/9/2013		<0.0025					
4/10/2013	<0.0025						
4/11/2013							
4/12/2013							

Prediction Limit

Constituent: Silver (mg/L) Analysis Run 12/7/2018 9:41 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50R (bg)	GWA-50 (bg)	GWC-8RR	GWC-8Z	GWC-6RZ	GWC-7Z	GWA-4RZ (bg)
4/15/2013							
4/16/2013							
10/8/2013							
10/9/2013			<0.0025				
10/15/2013		<0.0025					
10/16/2013	0.0034						
10/22/2013							
4/1/2014							
4/2/2014							
4/9/2014							
4/10/2014		0.0025 (J)	<0.0005				
4/11/2014							
4/14/2014							
4/21/2014							
4/22/2014	0.0034						
4/23/2014							
9/30/2014							
10/1/2014	0.0012 (J)	<0.0025					
10/2/2014			<0.0025				
10/3/2014							
10/4/2014							
3/30/2015	0.003	<0.0025					
3/31/2015							
4/1/2015							
4/2/2015							
4/3/2015			<0.0025				
5/26/2015				<0.0025	<0.0025		
6/18/2015				<0.0025 (D)	<0.0025 (D)		
7/2/2015				<0.0025	<0.0025		
10/6/2015							
10/7/2015							
10/8/2015			<0.0025	<0.0025			
10/9/2015					<0.0025		
10/10/2015							
10/11/2015	0.0018 (J)	<0.0025					
10/12/2015							
10/13/2015							
10/14/2015							
10/15/2015							
3/22/2016				<0.01			
3/23/2016							
3/28/2016	0.0022 (J)	<0.01					
3/29/2016					<0.01		
3/30/2016			<0.01				
3/31/2016							
4/4/2016							
4/5/2016							
7/29/2016							
8/1/2016	0.0016 (J)	0.0004 (J)			<0.01		
8/2/2016			<0.01	<0.01		<0.01	
8/3/2016							
8/4/2016							

Prediction Limit

Constituent: Silver (mg/L) Analysis Run 12/7/2018 9:41 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50R (bg)	GWA-50 (bg)	GWC-8RR	GWC-8Z	GWC-6RZ	GWC-7Z	GWA-4RZ (bg)
8/5/2016							
8/9/2016							
3/30/2017							
4/3/2017	0.0022 (J)						
4/6/2017			<0.01		<0.01	<0.01	
4/7/2017		0.0005 (J)		<0.01			<0.01
4/10/2017							
4/11/2017							
4/12/2017							
10/2/2017	0.0021 (J)	0.0006 (J)					
10/3/2017				<0.01	<0.01	<0.01	<0.01
10/4/2017			<0.01				
10/5/2017							
10/6/2017							
10/9/2017							
3/16/2018	0.0023 (J)	<0.01					
3/19/2018							
3/20/2018				<0.01	<0.01	<0.01	
3/21/2018			<0.01				<0.01
3/22/2018							
3/23/2018							
9/14/2018							
9/17/2018		<0.01			<0.01		
9/18/2018	0.0017 (J)		<0.01	<0.01		<0.01	<0.01
9/19/2018							
9/20/2018							

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 12/7/2018 9:41 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-2R (bg)	GWC-15_15Z	GWC-14_14Z	GWC-15R	GWC-8Z	GWC-8RR	GWC-6	GWC-6RZ	GWC-10
3/30/2015	7E-05								
10/6/2015		0.0005 (D)							
10/7/2015			<0.001 (D)	<0.001 (D)					
10/8/2015					0.0001 (D)	<0.001 (D)			
10/9/2015							<0.001	<0.001	
10/10/2015									<0.001
10/11/2015									
10/12/2015									
10/13/2015	<6E-05								
10/14/2015									
10/15/2015									
3/22/2016					<0.001				
3/23/2016	<0.001								
3/28/2016									
3/29/2016							<0.001	<0.001	
3/30/2016						<0.001			
3/31/2016									<0.001
4/4/2016									
4/5/2016		0.00971 (J)	<0.001	<0.001					
5/19/2016	<0.001								
5/20/2016									
5/23/2016									
5/24/2016						<0.001	<0.001	<0.001	
5/25/2016					<0.001				
5/26/2016									<0.001
5/27/2016									
5/31/2016		0.000373 (J)		<0.001					
6/1/2016			<0.001						
7/29/2016	<0.001								
8/1/2016							<0.001	<0.001	
8/2/2016					<0.001	<0.001			
8/3/2016									
8/4/2016				<0.001					
8/5/2016									<0.001
8/9/2016			<0.001						
9/22/2016	<0.001								
9/23/2016									
9/26/2016					<0.001		<0.001	<0.001	
9/27/2016						<0.001			
9/28/2016									<0.001
9/29/2016				<0.001					
9/30/2016									
11/9/2016									
11/10/2016	<0.001								
11/11/2016									
11/14/2016								<0.001	
11/18/2016							<0.001		
11/21/2016					<0.001				
11/22/2016						<0.001			<0.001
11/23/2016		<0.001		<0.001					
11/28/2016			<0.001						
1/30/2017									

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 12/7/2018 9:41 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-2R (bg)	GWC-15_15Z	GWC-14_14Z	GWC-15R	GWC-8Z	GWC-8RR	GWC-6	GWC-6RZ	GWC-10
1/31/2017	<0.001								
2/1/2017							<0.001	<0.001	
2/3/2017					<0.001				
2/6/2017						<0.001			
2/7/2017									<0.001
2/8/2017									
2/9/2017			<0.001						
2/10/2017		<0.001		<0.001					
2/13/2017									
2/22/2017									
3/30/2017									
4/3/2017	<0.001								
4/6/2017						<0.001	5E-05 (J)	<0.001	
4/7/2017					<0.001				
4/10/2017									<0.001
4/11/2017		<0.001	<0.001						
4/12/2017				<0.001					
6/9/2017	<0.001								
6/12/2017									
6/13/2017					7E-05 (J)		<0.001	<0.001	
6/14/2017			<0.001			<0.001			<0.001
6/15/2017		<0.001		<0.001					
6/16/2017									
7/12/2017		<0.001	<0.001						
7/14/2017									
7/20/2017									
7/26/2017		<0.001							
7/28/2017									
8/9/2017									
8/10/2017									
8/24/2017									
10/2/2017	<0.001								
10/3/2017					<0.001		<0.001	<0.001	
10/4/2017						<0.001			<0.001
10/5/2017			<0.001						
10/6/2017		<0.001		<0.001					
10/9/2017									
3/16/2018	<0.001								
3/19/2018							<0.001		
3/20/2018					<0.001			<0.001	<0.001
3/21/2018						<0.001			
3/22/2018			<0.001						
3/23/2018		<0.001		<0.001					
9/14/2018	<0.001								
9/17/2018							<0.001	<0.001	
9/18/2018					<0.001	<0.001			<0.001
9/19/2018		<0.001	<0.001	<0.001					
9/20/2018									

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 12/7/2018 9:41 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-9	GWA-50R (bg)	GWA-50 (bg)	GWC-11	GWC-11R	GWA-3 (bg)	GWC-10R	GWC-5	GWA-1 (bg)
3/30/2015									
10/6/2015									
10/7/2015									
10/8/2015									
10/9/2015									
10/10/2015	<0.001								
10/11/2015		<0.001	<0.001	<0.001	0.0002				
10/12/2015						<0.001	<0.001	<0.001	
10/13/2015									<6E-05
10/14/2015									
10/15/2015									
3/22/2016									<0.001
3/23/2016						<0.001			
3/28/2016		<0.001	<0.001					<0.001	
3/29/2016									
3/30/2016	<0.001								
3/31/2016							<0.001		
4/4/2016				<0.001	<0.001				
4/5/2016									
5/19/2016									<0.001
5/20/2016									
5/23/2016			<0.001			<0.001			
5/24/2016									
5/25/2016		<0.001						<0.001	
5/26/2016	<0.001			<0.001	<0.001		<0.001		
5/27/2016									
5/31/2016									
6/1/2016									
7/29/2016						<0.001			<0.001
8/1/2016		<0.001	<0.001					<0.001	
8/2/2016									
8/3/2016				<0.001			0.0001 (J)		
8/4/2016					<0.001				
8/5/2016	<0.001								
8/9/2016									
9/22/2016						<0.001			
9/23/2016									<0.001
9/26/2016		<0.001	<0.001						
9/27/2016								<0.001	
9/28/2016	<0.001			<0.001	<0.001		<0.001		
9/29/2016									
9/30/2016									
11/9/2016									<0.001
11/10/2016			<0.001			<0.001			
11/11/2016		<0.001						<0.001	
11/14/2016									
11/18/2016									
11/21/2016	<0.001								
11/22/2016				<0.001	<0.001		<0.001		
11/23/2016									
11/28/2016									
1/30/2017		<0.001	<0.001						<0.001

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 12/7/2018 9:41 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-9	GWA-50R (bg)	GWA-50 (bg)	GWC-11	GWC-11R	GWA-3 (bg)	GWC-10R	GWC-5	GWA-1 (bg)
1/31/2017						<0.001		<0.001	
2/1/2017									
2/3/2017									
2/6/2017	<0.001								
2/7/2017							<0.001		
2/8/2017				<0.001	<0.001				
2/9/2017									
2/10/2017									
2/13/2017									
2/22/2017									
3/30/2017						<0.001			<0.001
4/3/2017		<0.001						<0.001	
4/6/2017	<0.001								
4/7/2017			<0.001						
4/10/2017				<0.001	<0.001		<0.001		
4/11/2017									
4/12/2017									
6/9/2017									<0.001
6/12/2017		<0.001	<0.001			<0.001		<0.001	
6/13/2017	<0.001								
6/14/2017							<0.001		
6/15/2017				<0.001	<0.001				
6/16/2017									
7/12/2017									
7/14/2017									
7/20/2017									
7/26/2017									
7/28/2017									
8/9/2017									
8/10/2017									
8/24/2017									
10/2/2017		<0.001	<0.001						<0.001
10/3/2017	<0.001							<0.001	
10/4/2017				<0.001	<0.001	<0.001	<0.001		
10/5/2017									
10/6/2017									
10/9/2017									
3/16/2018		<0.001	<0.001						<0.001
3/19/2018						<0.001		<0.001	
3/20/2018	<0.001								
3/21/2018				<0.001			<0.001		
3/22/2018					<0.001				
3/23/2018									
9/14/2018									
9/17/2018			<0.001			<0.001		<0.001	<0.001 (D)
9/18/2018	<0.001 (D)	<0.001		<0.001	<0.001		<0.001		
9/19/2018									
9/20/2018									

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 12/7/2018 9:41 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-2 (bg)	GWC-12	GWC-13R_13RZ	GWC-13	GWC-7Z	GWA-4RZ (bg)
3/30/2015						
10/6/2015						
10/7/2015						
10/8/2015						
10/9/2015						
10/10/2015						
10/11/2015						
10/12/2015						
10/13/2015	<6E-05					
10/14/2015		<6E-05	<6E-05			
10/15/2015				<6E-05		
3/22/2016						
3/23/2016	<0.001					
3/28/2016						
3/29/2016						
3/30/2016						
3/31/2016						
4/4/2016		<0.001	<0.001	<0.001		
4/5/2016						
5/19/2016						
5/20/2016	<0.001					
5/23/2016						
5/24/2016						
5/25/2016						
5/26/2016						
5/27/2016		<0.001				
5/31/2016				<0.001	<0.001	
6/1/2016			<0.001			
7/29/2016	<0.001					
8/1/2016						
8/2/2016					<0.001	
8/3/2016		<0.001				
8/4/2016				<0.001		
8/5/2016						
8/9/2016						
9/22/2016						
9/23/2016	<0.001					
9/26/2016						
9/27/2016					<0.001	
9/28/2016						
9/29/2016				<0.001		
9/30/2016		<0.001				
11/9/2016	<0.001					
11/10/2016						
11/11/2016						
11/14/2016						
11/18/2016						
11/21/2016					<0.001	
11/22/2016		<0.001				
11/23/2016						
11/28/2016				<0.001		
1/30/2017						

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 12/7/2018 9:41 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-2 (bg)	GWC-12	GWC-13R_13RZ	GWC-13	GWC-7Z	GWA-4RZ (bg)
1/31/2017	<0.001					
2/1/2017					<0.001	
2/3/2017						
2/6/2017						
2/7/2017						
2/8/2017						
2/9/2017				<0.001		
2/10/2017						
2/13/2017		<0.001				
2/22/2017			<0.001			<0.001
3/30/2017	<0.001					
4/3/2017						
4/6/2017					<0.001	
4/7/2017						<0.001
4/10/2017						
4/11/2017		<0.001	<0.001			
4/12/2017				<0.001		
6/9/2017						
6/12/2017	<0.001					
6/13/2017					<0.001	
6/14/2017		<0.001				<0.001
6/15/2017						
6/16/2017			<0.001	<0.001		
7/12/2017			6E-05 (J)			<0.001
7/14/2017					<0.001	
7/20/2017						<0.001
7/26/2017						
7/28/2017			<0.001			<0.001
8/9/2017						<0.001
8/10/2017			<0.001			
8/24/2017						<0.001
10/2/2017	<0.001					
10/3/2017					<0.001	<0.001
10/4/2017		<0.001				
10/5/2017						
10/6/2017			<0.001			
10/9/2017				<0.001		
3/16/2018						
3/19/2018	<0.001					
3/20/2018					<0.001	
3/21/2018				<0.001		<0.001
3/22/2018		<0.001				
3/23/2018			<0.001			
9/14/2018	<0.001					
9/17/2018						
9/18/2018		<0.001			<0.001	<0.001
9/19/2018				<0.001		
9/20/2018			<0.001			

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 12/7/2018 9:41 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-10R	GWC-11	GWC-13R_13RZ	GWC-10	GWC-11R	GWC-12	GWC-13	GWC-6R	GWC-6
8/21/2007	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025		
8/22/2007								<0.0025	<0.0025
8/23/2007									
8/24/2007									
10/23/2007									
10/24/2007									
10/25/2007								<0.0025	<0.0025
11/1/2007	<0.0025	<0.0025	0.0048	<0.0025	<0.0025	<0.0025	<0.0025		
11/2/2007									
11/17/2007									
11/18/2007		<0.0025			<0.0025				
11/19/2007			0.0054			<0.0025	0.0035	<0.0025	
11/20/2007	<0.0025			0.0034					<0.0025
1/15/2008									
1/16/2008						0.0071			
1/23/2008								<0.0025	0.007
1/30/2008	<0.0025	<0.0025		0.005	<0.0025				
1/31/2008			0.003				0.0039		
3/5/2008		<0.0025	<0.0025			0.0031	<0.0025		
3/6/2008	<0.0025			0.0032	0.0047				
3/10/2008									
3/11/2008								<0.0025	0.0033
5/6/2008									
5/7/2008		0.0029	0.0041		0.003				
5/8/2008	<0.0025								
5/12/2008				<0.0025			0.0064		
5/13/2008						<0.0025			
5/14/2008								<0.0025	0.0043
12/2/2008									
12/4/2008									
12/5/2008									
12/11/2008									<0.0025
12/12/2008			0.023					<0.0025	
12/13/2008				0.0082		<0.0025	0.02		
12/14/2008	<0.0025	0.0026			0.0056				
4/15/2009									
4/16/2009						0.0037			
4/21/2009									
4/23/2009									<0.0025
4/24/2009								<0.0025	
4/28/2009							0.0039		
4/29/2009	<0.0025	<0.0025	0.006	<0.0025	0.018				
10/6/2009									
10/7/2009									
10/8/2009									
10/9/2009								<0.0025	0.0043
10/13/2009									
10/19/2009									
10/20/2009				<0.0025					
10/21/2009	<0.0025		0.022			0.0047	0.0037		
10/22/2009		0.0026			0.0079				
4/20/2010									

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 12/7/2018 9:41 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-10R	GWC-11	GWC-13R_13RZ	GWC-10	GWC-11R	GWC-12	GWC-13	GWC-6R	GWC-6
4/21/2010	<0.0025	<0.0025			0.0075				
4/26/2010				<0.0025					
4/27/2010						0.0082			
4/28/2010			0.011				<0.0025		
5/3/2010									
5/4/2010								<0.0025	0.0027
9/28/2010	<0.0025	<0.0025							
9/29/2010				<0.0025	0.0065				
9/30/2010									
10/4/2010									
10/5/2010						<0.0025	<0.0025		
10/6/2010			0.0064						
10/11/2010									0.0034
10/12/2010								<0.0025	
4/12/2011	<0.0025	<0.0025							
4/13/2011				<0.0025	0.004				
4/14/2011									
4/18/2011									
4/19/2011						0.0036	0.0025		
4/20/2011			0.0046						
4/21/2011									
4/26/2011									<0.0025
4/27/2011									
4/28/2011								<0.0025	
10/4/2011	<0.0025	<0.0025			0.0054				
10/5/2011				<0.0025					
10/12/2011			<0.0025			<0.0025			
10/13/2011									
10/17/2011									
10/18/2011							0.0037	<0.0025	<0.0025
10/19/2011									
4/3/2012	<0.01	<0.01							
4/4/2012				<0.01	<0.01				
4/11/2012									
4/23/2012									
4/24/2012						<0.01			
4/25/2012			<0.01				<0.01		
4/30/2012									
5/1/2012								<0.01	
5/2/2012									<0.01
10/2/2012			<0.005			<0.005	<0.005		
10/3/2012		<0.005		<0.005	<0.005				
10/8/2012	<0.005								<0.005
10/9/2012								<0.005	
10/10/2012									
4/2/2013			<0.005			<0.005	<0.005		
4/3/2013	<0.005	<0.005		<0.005	<0.005				
4/8/2013									
4/9/2013								<0.005	
4/10/2013									<0.005
4/11/2013									
4/12/2013									

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 12/7/2018 9:41 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-10R	GWC-11	GWC-13R_13RZ	GWC-10	GWC-11R	GWC-12	GWC-13	GWC-6R	GWC-6
4/15/2013									
4/16/2013									
10/8/2013			<0.005				<0.005		<0.005
10/9/2013		<0.005			<0.005	<0.005			
10/15/2013	<0.005			<0.005					
10/16/2013									
10/22/2013									
4/1/2014			0.005 (J)			<0.000825	0.005 (J)		
4/2/2014		<0.000825			0.005 (J)				
4/9/2014	<0.000825			<0.000825					
4/10/2014									
4/11/2014									
4/14/2014									0.005 (J)
4/21/2014									
4/22/2014									
4/23/2014									
9/30/2014									
10/1/2014			<0.005				<0.005		
10/2/2014	<0.005	<0.005		<0.005	<0.005	<0.005			
10/3/2014									0.0016 (J)
10/4/2014									
3/30/2015									
3/31/2015			<0.005						
4/1/2015		<0.005			0.0067	<0.005	0.0019 (J)		0.0021 (J)
4/2/2015	<0.005			<0.005					
4/3/2015									
5/26/2015									
6/18/2015									
7/2/2015									
10/6/2015									
10/7/2015									
10/8/2015									
10/9/2015									<0.005
10/10/2015				<0.005					
10/11/2015		<0.005			0.0049 (J)				
10/12/2015	<0.005								
10/13/2015									
10/14/2015			<0.005			0.0022 (J)			
10/15/2015							<0.005		
3/22/2016									
3/23/2016									
3/28/2016									
3/29/2016									<0.01
3/30/2016									
3/31/2016	<0.01			<0.01					
4/4/2016		<0.01	<0.01		0.00251 (J)	<0.01	0.00211 (J)		
4/5/2016									
7/29/2016									
8/1/2016									<0.01
8/2/2016									
8/3/2016	<0.01	<0.01				<0.01			
8/4/2016					<0.01		<0.01		

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 12/7/2018 9:41 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-10R	GWC-11	GWC-13R_13RZ	GWC-10	GWC-11R	GWC-12	GWC-13	GWC-6R	GWC-6
8/5/2016				<0.01					
8/9/2016									
3/30/2017									
4/3/2017									
4/6/2017									<0.01
4/7/2017									
4/10/2017	<0.01	<0.01		<0.01	<0.01				
4/11/2017			<0.01			<0.01			
4/12/2017							0.0016 (J)		
10/2/2017									
10/3/2017									<0.01
10/4/2017	<0.01	<0.01		<0.01	0.0015 (J)	<0.01			
10/5/2017									
10/6/2017			<0.01						
10/9/2017							<0.01		
3/16/2018									
3/19/2018									<0.01
3/20/2018				<0.01					
3/21/2018	<0.01	<0.01					<0.01		
3/22/2018					<0.01	<0.01			
3/23/2018			<0.01						
9/14/2018									
9/17/2018									<0.01
9/18/2018	<0.01	<0.01		<0.01	0.0022 (J)	<0.01			
9/19/2018							0.0022 (J)		
9/20/2018			<0.01						

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 12/7/2018 9:41 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-5	GWA-2 (bg)	GWC-15R	GWC-9	GWA-1 (bg)	GWA-3 (bg)	GWA-2R (bg)	GWC-14_14Z	GWC-15_15Z
8/21/2007									
8/22/2007									
8/23/2007	0.0032	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025		
8/24/2007								0.012	0.0027
10/23/2007					<0.0025				
10/24/2007		<0.0025					<0.0025		
10/25/2007	<0.0025								
11/1/2007				<0.0025					
11/2/2007			<0.0025			<0.0025		<0.0025	0.012
11/17/2007			<0.0025					0.0043	
11/18/2007		0.0051			<0.0025	0.0046	<0.0025		0.016 (J)
11/19/2007	<0.0025			0.0052					
11/20/2007									
1/15/2008			<0.0025	0.0065				0.0037	0.018
1/16/2008									
1/23/2008	<0.0025								
1/30/2008					<0.0025				
1/31/2008		<0.0025				<0.0025	0.0078		
3/5/2008								0.0049	
3/6/2008			<0.0025	0.0028					
3/10/2008					<0.0025		<0.0025		0.014
3/11/2008	<0.0025	0.0032				<0.0025			
5/6/2008		<0.0025							
5/7/2008			<0.0025					<0.0025	
5/8/2008									
5/12/2008	<0.0025								
5/13/2008				<0.0025	<0.0025		<0.0025		0.013
5/14/2008						<0.0025			
12/2/2008			<0.0025					0.0097	0.016
12/4/2008		0.016					<0.0025		
12/5/2008					<0.0025	<0.0025			
12/11/2008	<0.0025								
12/12/2008				<0.0025					
12/13/2008									
12/14/2008									
4/15/2009	<0.0025				<0.0025	<0.0025			
4/16/2009				0.0033				0.0061	
4/21/2009		0.005					0.0036		
4/23/2009									
4/24/2009									
4/28/2009			<0.0025						0.016
4/29/2009									
10/6/2009									
10/7/2009		<0.0025			0.0099				
10/8/2009						<0.0025	<0.0025		
10/9/2009	<0.0025								
10/13/2009				<0.0025					
10/19/2009			<0.0025						
10/20/2009								0.0092	0.021
10/21/2009									
10/22/2009									
4/20/2010								<0.0025	

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 12/7/2018 9:41 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-5	GWA-2 (bg)	GWC-15R	GWC-9	GWA-1 (bg)	GWA-3 (bg)	GWA-2R (bg)	GWC-14_14Z	GWC-15_15Z
4/21/2010				<0.0025			<0.0025		
4/26/2010		<0.0025							
4/27/2010			<0.0025						0.012
4/28/2010						<0.0025			
5/3/2010					<0.0025				
5/4/2010	<0.0025								
9/28/2010							<0.0025		
9/29/2010				<0.0025				<0.0025	
9/30/2010									
10/4/2010		0.0025	<0.0025						
10/5/2010									0.011
10/6/2010						<0.0025			
10/11/2010									
10/12/2010	<0.0025				<0.0025				
4/12/2011							<0.0025	<0.0025	
4/13/2011		<0.0025		<0.0025					
4/14/2011									
4/18/2011			<0.0025						
4/19/2011									0.012
4/20/2011									
4/21/2011						<0.0025			
4/26/2011									
4/27/2011					<0.0025				
4/28/2011	<0.0025								
10/4/2011							<0.0025	<0.0025	
10/5/2011		<0.0025		<0.0025					
10/12/2011			<0.0025						0.0031
10/13/2011						<0.0025			
10/17/2011					<0.0025				
10/18/2011									
10/19/2011	<0.0025								
4/3/2012							<0.01		
4/4/2012				<0.01				<0.01	
4/11/2012		<0.01							
4/23/2012			<0.01						
4/24/2012									
4/25/2012									<0.01
4/30/2012									
5/1/2012						<0.01			
5/2/2012	<0.01				<0.01				
10/2/2012									
10/3/2012									
10/8/2012				<0.005	<0.005				
10/9/2012	<0.005	<0.005				<0.005	<0.005		
10/10/2012			<0.005					<0.005	<0.005
4/2/2013									
4/3/2013									
4/8/2013				<0.005					
4/9/2013									
4/10/2013									
4/11/2013	<0.005					<0.005	<0.005		
4/12/2013					<0.005				

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 12/7/2018 9:41 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-5	GWA-2 (bg)	GWC-15R	GWC-9	GWA-1 (bg)	GWA-3 (bg)	GWA-2R (bg)	GWC-14_14Z	GWC-15_15Z
4/15/2013		<0.005	<0.005					<0.005	
4/16/2013									<0.005
10/8/2013									
10/9/2013				<0.005					
10/15/2013		<0.005							
10/16/2013	<0.005				<0.005	<0.005	<0.005		
10/22/2013			<0.005					<0.005	<0.005
4/1/2014									
4/2/2014									
4/9/2014				<0.000825					
4/10/2014							0.005 (J)		
4/11/2014					<0.000825				
4/14/2014									
4/21/2014			<0.000825					0.005 (J)	0.005 (J)
4/22/2014		<0.000825							
4/23/2014	<0.000825					<0.000825			
9/30/2014		<0.005	<0.005	<0.005	<0.005		<0.005	<0.005	<0.005
10/1/2014									
10/2/2014									
10/3/2014	0.00097 (J)								
10/4/2014						<0.005			
3/30/2015		0.0016 (J)			0.0067		<0.005		
3/31/2015	0.00096 (J)					0.0023 (J)			
4/1/2015									
4/2/2015				<0.005					
4/3/2015			<0.005					0.001 (J)	0.0016 (J)
5/26/2015									
6/18/2015									
7/2/2015									
10/6/2015									0.002 (J)
10/7/2015			<0.005					<0.005	
10/8/2015									
10/9/2015									
10/10/2015				0.00195 (D)					
10/11/2015									
10/12/2015	<0.005					<0.005			
10/13/2015		<0.005			<0.005		<0.005		
10/14/2015									
10/15/2015									
3/22/2016					0.00214 (J)				
3/23/2016		<0.01				<0.01	<0.01		
3/28/2016	<0.01								
3/29/2016									
3/30/2016				<0.01					
3/31/2016									
4/4/2016									
4/5/2016			<0.01					<0.01	0.00036 (J)
7/29/2016		<0.01			<0.01	<0.01	<0.01		
8/1/2016	<0.01								
8/2/2016									
8/3/2016									
8/4/2016			<0.01						

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 12/7/2018 9:41 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-5	GWA-2 (bg)	GWC-15R	GWC-9	GWA-1 (bg)	GWA-3 (bg)	GWA-2R (bg)	GWC-14_14Z	GWC-15_15Z
8/5/2016				<0.01					
8/9/2016								<0.01	
3/30/2017		<0.01			<0.01	<0.01			
4/3/2017	<0.01						<0.01		
4/6/2017				<0.01					
4/7/2017									
4/10/2017									
4/11/2017								<0.01	<0.01
4/12/2017			<0.01						
10/2/2017		<0.01			<0.01		<0.01		
10/3/2017	<0.01			<0.01					
10/4/2017						<0.01			
10/5/2017								<0.01	
10/6/2017			<0.01						<0.01
10/9/2017									
3/16/2018					<0.01		<0.01		
3/19/2018	<0.01	<0.01				<0.01			
3/20/2018				<0.01					
3/21/2018									
3/22/2018								<0.01	
3/23/2018			<0.01						<0.01
9/14/2018		<0.01					<0.01		
9/17/2018	<0.01				<0.01 (D)	<0.01			
9/18/2018				<0.01 (D)					
9/19/2018			<0.01					<0.01	<0.01
9/20/2018									

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 12/7/2018 9:41 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50R (bg)	GWA-50 (bg)	GWC-8RR	GWC-8Z	GWC-6RZ	GWC-7Z	GWA-4RZ (bg)
8/21/2007							
8/22/2007							
8/23/2007							
8/24/2007							
10/23/2007							
10/24/2007							
10/25/2007							
11/1/2007							
11/2/2007							
11/17/2007							
11/18/2007							
11/19/2007							
11/20/2007							
1/15/2008							
1/16/2008							
1/23/2008							
1/30/2008							
1/31/2008							
3/5/2008							
3/6/2008							
3/10/2008							
3/11/2008							
5/6/2008							
5/7/2008							
5/8/2008							
5/12/2008							
5/13/2008							
5/14/2008							
12/2/2008							
12/4/2008							
12/5/2008							
12/11/2008							
12/12/2008	<0.0025	<0.0025					
12/13/2008							
12/14/2008							
4/15/2009							
4/16/2009							
4/21/2009							
4/23/2009	0.0065	<0.0025					
4/24/2009							
4/28/2009							
4/29/2009							
10/6/2009	0.0026	<0.0025					
10/7/2009							
10/8/2009							
10/9/2009							
10/13/2009							
10/19/2009							
10/20/2009							
10/21/2009							
10/22/2009							
4/20/2010							

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 12/7/2018 9:41 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50R (bg)	GWA-50 (bg)	GWC-8RR	GWC-8Z	GWC-6RZ	GWC-7Z	GWA-4RZ (bg)
4/21/2010							
4/26/2010							
4/27/2010		<0.0025					
4/28/2010							
5/3/2010	0.0028						
5/4/2010							
9/28/2010							
9/29/2010							
9/30/2010		<0.0025					
10/4/2010							
10/5/2010							
10/6/2010							
10/11/2010	0.0035						
10/12/2010							
4/12/2011							
4/13/2011							
4/14/2011		<0.0025					
4/18/2011							
4/19/2011							
4/20/2011							
4/21/2011							
4/26/2011							
4/27/2011	0.0047						
4/28/2011							
10/4/2011							
10/5/2011		<0.0025					
10/12/2011							
10/13/2011							
10/17/2011							
10/18/2011			<0.0025				
10/19/2011	<0.0025						
4/3/2012							
4/4/2012							
4/11/2012		<0.01					
4/23/2012							
4/24/2012							
4/25/2012							
4/30/2012			<0.01				
5/1/2012	<0.01						
5/2/2012							
10/2/2012	<0.005	<0.005					
10/3/2012			<0.005				
10/8/2012							
10/9/2012							
10/10/2012							
4/2/2013							
4/3/2013							
4/8/2013			<0.005				
4/9/2013		<0.005					
4/10/2013	<0.005						
4/11/2013							
4/12/2013							

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 12/7/2018 9:41 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50R (bg)	GWA-50 (bg)	GWC-8RR	GWC-8Z	GWC-6RZ	GWC-7Z	GWA-4RZ (bg)
4/15/2013							
4/16/2013							
10/8/2013							
10/9/2013			<0.005				
10/15/2013		<0.005					
10/16/2013	<0.005						
10/22/2013							
4/1/2014							
4/2/2014							
4/9/2014							
4/10/2014		<0.000825	0.005 (J)				
4/11/2014							
4/14/2014							
4/21/2014							
4/22/2014	0.005 (J)						
4/23/2014							
9/30/2014							
10/1/2014	<0.005	<0.005					
10/2/2014			<0.005				
10/3/2014							
10/4/2014							
3/30/2015	0.0032 (J)	<0.005					
3/31/2015							
4/1/2015							
4/2/2015							
4/3/2015			<0.005				
5/26/2015				<0.005	<0.005		
6/18/2015				0.005 (D)	<0.005 (D)		
7/2/2015				<0.005	<0.005		
10/6/2015							
10/7/2015							
10/8/2015			0.0056	<0.005			
10/9/2015					<0.005		
10/10/2015							
10/11/2015	<0.005	<0.005					
10/12/2015							
10/13/2015							
10/14/2015							
10/15/2015							
3/22/2016				<0.01			
3/23/2016							
3/28/2016	<0.01	<0.01					
3/29/2016					<0.01		
3/30/2016			<0.01				
3/31/2016							
4/4/2016							
4/5/2016							
7/29/2016							
8/1/2016	<0.01	<0.01			<0.01		
8/2/2016			<0.01	<0.01		<0.01	
8/3/2016							
8/4/2016							

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 12/7/2018 9:41 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50R (bg)	GWA-50 (bg)	GWC-8RR	GWC-8Z	GWC-6RZ	GWC-7Z	GWA-4RZ (bg)
8/5/2016							
8/9/2016							
3/30/2017							
4/3/2017	<0.01						
4/6/2017			<0.01		<0.01	<0.01	
4/7/2017		<0.01		<0.01			<0.01
4/10/2017							
4/11/2017							
4/12/2017							
10/2/2017	<0.01	<0.01					
10/3/2017				<0.01	<0.01	<0.01	<0.01
10/4/2017			<0.01				
10/5/2017							
10/6/2017							
10/9/2017							
3/16/2018	<0.01	<0.01					
3/19/2018							
3/20/2018				<0.01	<0.01	<0.01	
3/21/2018			<0.01				<0.01
3/22/2018							
3/23/2018							
9/14/2018							
9/17/2018		<0.01			<0.01		
9/18/2018	<0.01		<0.01	<0.01		<0.01	<0.01
9/19/2018							
9/20/2018							

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 12/7/2018 9:41 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-10	GWC-13	GWC-12	GWC-11R	GWC-11	GWC-10R	GWC-13R_13RZ	GWC-6	GWC-6R
8/21/2007	0.031	0.0064	0.036	<0.0025	<0.0025	0.0066	<0.0025		
8/22/2007								0.04	0.0077
8/23/2007									
8/24/2007									
10/23/2007									
10/24/2007									
10/25/2007								0.0062	0.037
11/1/2007	0.0041	<0.0025	0.0041	<0.0025	<0.0025	0.0086	0.0038		
11/2/2007									
11/17/2007									
11/18/2007				<0.0025	<0.0025				
11/19/2007		0.015	0.015				0.0055		0.035
11/20/2007	0.056					0.005		0.03	
1/15/2008									
1/16/2008			0.074						
1/23/2008								0.048	0.048
1/30/2008	0.032			<0.0025	<0.0025	0.0084			
1/31/2008		0.032					0.0063		
3/5/2008		0.0061	0.055		<0.0025		0.0037		
3/6/2008	0.03			0.0038		0.0073			
3/10/2008									
3/11/2008								0.016	0.049
5/6/2008									
5/7/2008				<0.0025	0.015		0.0033		
5/8/2008						0.0084			
5/12/2008	0.008	0.012							
5/13/2008			0.035						
5/14/2008								0.02	0.03
12/2/2008									
12/4/2008									
12/5/2008									
12/11/2008								0.021 (J)	
12/12/2008							0.097 (O)		0.0072 (J)
12/13/2008	0.056	0.087	0.012 (J)						
12/14/2008				0.0031 (J)	0.0086 (J)	0.0075 (J)			
4/15/2009									
4/16/2009			0.053						
4/21/2009									
4/23/2009								0.0058 (J)	
4/24/2009									0.0056 (J)
4/28/2009		0.067							
4/29/2009	0.057			0.0031	0.0037	0.0028	0.068 (O)		
10/6/2009									
10/7/2009									
10/8/2009									
10/9/2009								0.055	0.0035
10/13/2009									
10/19/2009									
10/20/2009	0.0037								
10/21/2009		0.025	0.0063			<0.0025	0.011		
10/22/2009				0.0029	<0.0025				
4/20/2010									

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 12/7/2018 9:41 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-10	GWC-13	GWC-12	GWC-11R	GWC-11	GWC-10R	GWC-13R_13RZ	GWC-6	GWC-6R
4/21/2010				0.0027	<0.0025	<0.0025			
4/26/2010	<0.0025								
4/27/2010			0.045						
4/28/2010		0.014					0.048 (O)		
5/3/2010									
5/4/2010								0.045	0.0034
9/28/2010					0.0042	0.005			
9/29/2010	0.012			<0.0025					
9/30/2010									
10/4/2010									
10/5/2010		0.012	0.0047						
10/6/2010							0.003		
10/11/2010								0.015	
10/12/2010									0.0035
4/12/2011					<0.0025	<0.0025			
4/13/2011	<0.0025			<0.0025					
4/14/2011									
4/18/2011									
4/19/2011		0.012	0.0068						
4/20/2011							0.0038		
4/21/2011									
4/26/2011								0.0067	
4/27/2011									
4/28/2011									<0.0025
10/4/2011				0.003	0.012	0.0088			
10/5/2011	0.0031								
10/12/2011			0.0048				0.0027		
10/13/2011									
10/17/2011									
10/18/2011		0.025						0.0055	0.0028
10/19/2011									
4/3/2012					<0.01	<0.01			
4/4/2012	<0.01			<0.01					
4/11/2012									
4/23/2012									
4/24/2012			<0.01						
4/25/2012		0.014					<0.01		
4/30/2012									
5/1/2012									<0.01
5/2/2012								<0.01	
10/2/2012		0.0089	<0.0025				0.0059		
10/3/2012	0.0085			0.0029	<0.0025				
10/8/2012						0.0034		0.0043	
10/9/2012									0.0059
10/10/2012									
4/2/2013		0.0082	0.0081				0.008		
4/3/2013	0.0061			0.0035	<0.0025	<0.0025			
4/8/2013									
4/9/2013									0.0046
4/10/2013								0.0067	
4/11/2013									
4/12/2013									

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 12/7/2018 9:41 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-10	GWC-13	GWC-12	GWC-11R	GWC-11	GWC-10R	GWC-13R_13RZ	GWC-6	GWC-6R
4/15/2013									
4/16/2013									
10/8/2013		0.015					0.0062	0.0091	
10/9/2013			0.0032	<0.0025	<0.0025				
10/15/2013	0.008					0.0027			
10/16/2013									
10/22/2013									
4/1/2014		0.0074	0.0025 (J)				0.0067		
4/2/2014				0.0033	0.0063				
4/9/2014	0.0048					0.0025 (J)			
4/10/2014									
4/11/2014									
4/14/2014								0.0063	
4/21/2014									
4/22/2014									
4/23/2014									
9/30/2014									
10/1/2014		0.00077 (J)					0.0024 (J)		
10/2/2014	0.0023 (JV)		0.0023 (J)	0.0027	0.0023 (J)	0.0027 (V)			
10/3/2014								0.0065 (V)	
10/4/2014									
3/30/2015									
3/31/2015							0.0046		
4/1/2015		0.0082	0.0035	0.013 (O)	0.0017 (J)			0.0059	
4/2/2015	0.0023 (J)					0.002 (J)			
4/3/2015									
5/26/2015									
6/18/2015									
7/2/2015									
10/6/2015									
10/7/2015									
10/8/2015									
10/9/2015								<0.0025	
10/10/2015	0.0024 (J)								
10/11/2015				0.017	0.0016 (J)				
10/12/2015						<0.0025			
10/13/2015									
10/14/2015			0.0066				0.002 (J)		
10/15/2015		0.0082							
3/22/2016									
3/23/2016									
3/28/2016									
3/29/2016								<0.01	
3/30/2016									
3/31/2016	<0.01					0.00266 (J)			
4/4/2016		0.00818 (J)	0.00858 (J)	0.00419 (J)	<0.01		<0.01		
4/5/2016									
7/29/2016									
8/1/2016								<0.01	
8/2/2016									
8/3/2016			<0.0102 (*)		<0.01 (*)	<0.01 (*)			
8/4/2016		<0.01 (*)		<0.01 (*)					

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 12/7/2018 9:41 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-10	GWC-13	GWC-12	GWC-11R	GWC-11	GWC-10R	GWC-13R_13RZ	GWC-6	GWC-6R
8/5/2016	<0.01 (*)								
8/9/2016									
3/30/2017									
4/3/2017									
4/6/2017								<0.01 (*)	
4/7/2017									
4/10/2017	<0.01			<0.01	<0.01	<0.01			
4/11/2017			<0.0104 (*)				<0.01 (*)		
4/12/2017		<0.01 (*)							
10/2/2017									
10/3/2017								<0.01	
10/4/2017	0.0012 (J)		0.0104	0.0014 (J)	0.0014 (J)	<0.01			
10/5/2017									
10/6/2017							<0.01		
10/9/2017		<0.01							
3/16/2018									
3/19/2018								<0.01	
3/20/2018	<0.01								
3/21/2018		<0.01			<0.01	<0.01			
3/22/2018			0.014	<0.01					
3/23/2018							<0.01		
9/14/2018									
9/17/2018								<0.01	
9/18/2018	<0.01		0.013	<0.01	<0.01	<0.01			
9/19/2018		<0.01							
9/20/2018							<0.01		

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 12/7/2018 9:41 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-15R	GWA-2 (bg)	GWC-5	GWA-2R (bg)	GWA-1 (bg)	GWA-3 (bg)	GWC-9	GWC-14_14Z	GWC-15_15Z
8/21/2007									
8/22/2007									
8/23/2007	0.0038	0.0033	0.016	0.0079	0.032	0.066	0.011		
8/24/2007								0.0036 (J)	0.052
10/23/2007					0.0099				
10/24/2007		0.043		<0.0025					
10/25/2007			0.061						
11/1/2007							0.012		
11/2/2007	0.0025					0.055		0.0026 (J)	0.01 (J)
11/17/2007	0.023 (O)							0.024	
11/18/2007		0.024		0.015	0.0095 (J)	0.13			0.025 (J)
11/19/2007			0.053				0.026 (J)		
11/20/2007									
1/15/2008	0.012						0.075	0.0074	0.055
1/16/2008									
1/23/2008			0.14						
1/30/2008					0.022				
1/31/2008		0.015		0.063 (O)		0.13			
3/5/2008								0.075	
3/6/2008	0.0069						0.051		
3/10/2008				0.013 (J)	0.014				0.018
3/11/2008		0.027	0.13			0.07			
5/6/2008		0.0032							
5/7/2008	0.007							0.0088	
5/8/2008									
5/12/2008			0.11						
5/13/2008				0.0072	0.0075		0.0084		0.0044
5/14/2008						0.12			
12/2/2008	0.021 (O)							0.11	0.065
12/4/2008		0.081		0.011 (J)					
12/5/2008					0.0056 (J)	0.088			
12/11/2008			0.04 (J)						
12/12/2008							0.077		
12/13/2008									
12/14/2008									
4/15/2009			0.11		0.0033	0.068			
4/16/2009							0.064	0.091	
4/21/2009		0.0057		0.0041					
4/23/2009									
4/24/2009									
4/28/2009	0.0055								0.0037 (J)
4/29/2009									
10/6/2009									
10/7/2009		<0.0025			0.061				
10/8/2009				<0.0025		0.075			
10/9/2009			0.15						
10/13/2009							0.013		
10/19/2009	0.0051								
10/20/2009								0.056	0.0043
10/21/2009									
10/22/2009									
4/20/2010								0.014	

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 12/7/2018 9:41 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-15R	GWA-2 (bg)	GWC-5	GWA-2R (bg)	GWA-1 (bg)	GWA-3 (bg)	GWC-9	GWC-14_14Z	GWC-15_15Z
4/21/2010				<0.0025			0.0035		
4/26/2010		<0.0025							
4/27/2010	0.0068								<0.0025
4/28/2010						0.071			
5/3/2010					0.0033				
5/4/2010			0.077						
9/28/2010				0.0081					
9/29/2010							0.0085	0.015	
9/30/2010									
10/4/2010	0.0074	0.0057							
10/5/2010									0.0028
10/6/2010						0.074			
10/11/2010									
10/12/2010			0.077		0.0041				
4/12/2011				0.0025				0.0028	
4/13/2011		<0.0025					0.0028		
4/14/2011									
4/18/2011	0.0031								
4/19/2011									<0.0025
4/20/2011									
4/21/2011						0.047			
4/26/2011									
4/27/2011					<0.0025				
4/28/2011			0.032						
10/4/2011				0.0027				0.0025	
10/5/2011		<0.0025					0.0038		
10/12/2011	0.0067								<0.0025
10/13/2011						0.073			
10/17/2011					0.0046				
10/18/2011									
10/19/2011			0.11						
4/3/2012				<0.01					
4/4/2012							0.0126	0.0105	
4/11/2012		<0.01							
4/23/2012	<0.01								
4/24/2012									
4/25/2012									<0.01
4/30/2012									
5/1/2012						0.0652			
5/2/2012			0.138		<0.01				
10/2/2012									
10/3/2012									
10/8/2012					0.0053		0.0043		
10/9/2012		<0.0025	0.097	0.0064		0.061			
10/10/2012	0.0046							0.0033	<0.0025
4/2/2013									
4/3/2013									
4/8/2013							0.0068		
4/9/2013									
4/10/2013									
4/11/2013			0.047	<0.0025		0.053			
4/12/2013					0.006				

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 12/7/2018 9:41 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-15R	GWA-2 (bg)	GWC-5	GWA-2R (bg)	GWA-1 (bg)	GWA-3 (bg)	GWC-9	GWC-14_14Z	GWC-15_15Z
4/15/2013	0.006	0.0038						0.0031	
4/16/2013									0.005
10/8/2013									
10/9/2013							0.0082		
10/15/2013		0.0044							
10/16/2013			0.098	<0.0025	0.0048	0.047			
10/22/2013	0.0037							<0.0025	0.0028
4/1/2014									
4/2/2014									
4/9/2014							0.0043		
4/10/2014				0.0026					
4/11/2014					0.0033				
4/14/2014									
4/21/2014	0.0073							0.0032	0.0028
4/22/2014		0.0025 (J)							
4/23/2014			0.066			0.041			
9/30/2014	0.0027	0.00076 (J)		0.0012 (J)	0.002 (J)		0.0029	0.0015 (J)	0.0018 (J)
10/1/2014									
10/2/2014									
10/3/2014			0.13 (V)						
10/4/2014						0.044 (V)			
3/30/2015		0.0024 (J)		0.013	0.012				
3/31/2015			0.05			0.12			
4/1/2015									
4/2/2015							0.0056		
4/3/2015	0.0017 (J)							0.0015 (J)	0.0021 (J)
5/26/2015									
6/18/2015									
7/2/2015									
10/6/2015									<0.0025
10/7/2015	0.0042							<0.0025	
10/8/2015									
10/9/2015									
10/10/2015							0.0065 (D)		
10/11/2015									
10/12/2015			0.048			0.053			
10/13/2015		0.0017 (J)		0.0043	0.011				
10/14/2015									
10/15/2015									
3/22/2016					0.00346 (J)				
3/23/2016		<0.01		<0.01		0.0532			
3/28/2016			0.0534						
3/29/2016									
3/30/2016							0.00388 (J)		
3/31/2016									
4/4/2016									
4/5/2016	0.000194 (J)							<0.01	0.00233 (J)
7/29/2016		<0.01 (*)		<0.01 (*)	<0.01 (*)	0.0446			
8/1/2016			0.055						
8/2/2016									
8/3/2016									
8/4/2016	<0.01 (*)								

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 12/7/2018 9:41 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-15R	GWA-2 (bg)	GWC-5	GWA-2R (bg)	GWA-1 (bg)	GWA-3 (bg)	GWC-9	GWC-14_14Z	GWC-15_15Z
8/5/2016							<0.01 (*)		
8/9/2016								0.0016 (J)	
3/30/2017		<0.01 (*)			<0.01 (*)	0.0479			
4/3/2017			0.0436	<0.01 (*)					
4/6/2017							<0.01 (*)		
4/7/2017									
4/10/2017									
4/11/2017								<0.01 (*)	<0.01 (*)
4/12/2017	<0.01 (*)								
10/2/2017		<0.01		<0.01	<0.01				
10/3/2017			0.0393				0.0023 (J)		
10/4/2017						0.0429			
10/5/2017								0.0024 (J)	
10/6/2017	0.0024 (J)								<0.01
10/9/2017									
3/16/2018				<0.01	<0.01				
3/19/2018		<0.01	<0.034			<0.04			
3/20/2018							<0.01		
3/21/2018									
3/22/2018								<0.01	
3/23/2018	<0.01								<0.01
9/14/2018		<0.01		<0.01					
9/17/2018			0.03		<0.01 (D)	0.04			
9/18/2018							<0.01 (D)		
9/19/2018	<0.01							<0.01	<0.01
9/20/2018									

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 12/7/2018 9:41 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50R (bg)	GWA-50 (bg)	GWC-8RR	GWC-8Z	GWC-6RZ	GWC-7Z	GWA-4RZ (bg)
8/21/2007							
8/22/2007							
8/23/2007							
8/24/2007							
10/23/2007							
10/24/2007							
10/25/2007							
11/1/2007							
11/2/2007							
11/17/2007							
11/18/2007							
11/19/2007							
11/20/2007							
1/15/2008							
1/16/2008							
1/23/2008							
1/30/2008							
1/31/2008							
3/5/2008							
3/6/2008							
3/10/2008							
3/11/2008							
5/6/2008							
5/7/2008							
5/8/2008							
5/12/2008							
5/13/2008							
5/14/2008							
12/2/2008							
12/4/2008							
12/5/2008							
12/11/2008							
12/12/2008	0.013 (J)	0.048 (J)					
12/13/2008							
12/14/2008							
4/15/2009							
4/16/2009							
4/21/2009							
4/23/2009	0.075	0.0075					
4/24/2009							
4/28/2009							
4/29/2009							
10/6/2009	0.056	0.0075					
10/7/2009							
10/8/2009							
10/9/2009							
10/13/2009							
10/19/2009							
10/20/2009							
10/21/2009							
10/22/2009							
4/20/2010							

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 12/7/2018 9:41 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50R (bg)	GWA-50 (bg)	GWC-8RR	GWC-8Z	GWC-6RZ	GWC-7Z	GWA-4RZ (bg)
4/21/2010							
4/26/2010							
4/27/2010		0.0051					
4/28/2010							
5/3/2010	0.051						
5/4/2010							
9/28/2010							
9/29/2010							
9/30/2010		0.0089					
10/4/2010							
10/5/2010							
10/6/2010							
10/11/2010	0.016						
10/12/2010							
4/12/2011							
4/13/2011							
4/14/2011		0.0043					
4/18/2011							
4/19/2011							
4/20/2011							
4/21/2011							
4/26/2011							
4/27/2011	0.025						
4/28/2011							
10/4/2011							
10/5/2011		0.0051					
10/12/2011							
10/13/2011							
10/17/2011							
10/18/2011			0.0032				
10/19/2011	0.0078						
4/3/2012							
4/4/2012							
4/11/2012		<0.01					
4/23/2012							
4/24/2012							
4/25/2012							
4/30/2012			<0.01				
5/1/2012	0.0134						
5/2/2012							
10/2/2012	0.012	0.006					
10/3/2012			0.0034				
10/8/2012							
10/9/2012							
10/10/2012							
4/2/2013							
4/3/2013							
4/8/2013			0.0039				
4/9/2013		0.0034					
4/10/2013	0.018						
4/11/2013							
4/12/2013							

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 12/7/2018 9:41 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50R (bg)	GWA-50 (bg)	GWC-8RR	GWC-8Z	GWC-6RZ	GWC-7Z	GWA-4RZ (bg)
4/15/2013							
4/16/2013							
10/8/2013							
10/9/2013			0.0078				
10/15/2013		0.0042					
10/16/2013	0.015						
10/22/2013							
4/1/2014							
4/2/2014							
4/9/2014							
4/10/2014		0.0035	0.0064				
4/11/2014							
4/14/2014							
4/21/2014							
4/22/2014	0.015						
4/23/2014							
9/30/2014							
10/1/2014	0.0038	0.0019 (J)					
10/2/2014			0.0009 (JV)				
10/3/2014							
10/4/2014							
3/30/2015	0.0097	0.0032					
3/31/2015							
4/1/2015							
4/2/2015							
4/3/2015			<0.0025				
5/26/2015				0.0017 (J)	0.0035		
6/18/2015				0.0052 (D)	0.0025 (D)		
7/2/2015				0.0027	0.0018 (J)		
10/6/2015							
10/7/2015							
10/8/2015			0.013	<0.0025			
10/9/2015					0.0019 (J)		
10/10/2015							
10/11/2015	0.0024 (J)	0.0048					
10/12/2015							
10/13/2015							
10/14/2015							
10/15/2015							
3/22/2016				0.00302 (J)			
3/23/2016							
3/28/2016	0.00703 (J)	0.00282 (J)					
3/29/2016					0.00786 (J)		
3/30/2016			0.00308 (J)				
3/31/2016							
4/4/2016							
4/5/2016							
7/29/2016							
8/1/2016	<0.01 (*)	<0.01 (*)			<0.01		
8/2/2016			<0.01 (*)	<0.01 (*)		<0.01 (*)	
8/3/2016							
8/4/2016							

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 12/7/2018 9:41 AM View: Cells 1&2 metals OB and BR combined

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50R (bg)	GWA-50 (bg)	GWC-8RR	GWC-8Z	GWC-6RZ	GWC-7Z	GWA-4RZ (bg)
8/5/2016							
8/9/2016							
3/30/2017							
4/3/2017	<0.01 (*)						
4/6/2017			<0.01 (*)		<0.01 (*)	<0.01 (*)	
4/7/2017		<0.01 (*)		<0.01 (*)			<0.01 (*)
4/10/2017							
4/11/2017							
4/12/2017							
10/2/2017	0.0016 (J)	0.0015 (J)					
10/3/2017				0.0022 (J)	0.0014 (J)	<0.01	<0.01
10/4/2017			<0.01				
10/5/2017							
10/6/2017							
10/9/2017							
3/16/2018	<0.01	<0.01					
3/19/2018							
3/20/2018				<0.01	<0.01	<0.01	
3/21/2018			<0.01				<0.01
3/22/2018							
3/23/2018							
9/14/2018							
9/17/2018		<0.01			<0.01		
9/18/2018	<0.01		<0.01	<0.01		<0.01	<0.01
9/19/2018							
9/20/2018							

Interwell Prediction Limit

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR Printed 12/3/2018, 10:16 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Chloride (mg/L)	**GWC-13**	**2.5**	**n/a**	**9/19/2018**	**5.1**	**Yes**	**77**	**1.299**	**ln(x)**	**0.000...**	Param 1 of 3
Chloride (mg/L)	**GWC-14_14Z**	**2.5**	**n/a**	**9/19/2018**	**2.8**	**Yes**	**77**	**1.299**	**ln(x)**	**0.000...**	Param 1 of 3
Chloride (mg/L)	**GWC-13R_13RZ**	**2.5**	**n/a**	**9/20/2018**	**9.6**	**Yes**	**77**	**1.299**	**ln(x)**	**0.000...**	Param 1 of 3
pH (pH units)	**GWC-10R**	**7.6**	**5.2**	**9/18/2018**	**7.66**	**Yes**	**78**	**0**	**n/a**	**0.000...**	NP (normality) 1 of 3
pH (pH units)	**GWC-11R**	**7.6**	**5.2**	**9/18/2018**	**7.88**	**Yes**	**78**	**0**	**n/a**	**0.000...**	NP (normality) 1 of 3
pH (pH units)	**GWC-15R**	**7.6**	**5.2**	**9/19/2018**	**7.66**	**Yes**	**78**	**0**	**n/a**	**0.000...**	NP (normality) 1 of 3
pH (pH units)	**GWC-15_15Z**	**7.6**	**5.2**	**9/19/2018**	**7.77**	**Yes**	**78**	**0**	**n/a**	**0.000...**	NP (normality) 1 of 3
pH (pH units)	**GWC-8RR**	**7.6**	**5.2**	**9/18/2018**	**7.92**	**Yes**	**78**	**0**	**n/a**	**0.000...**	NP (normality) 1 of 3

Interwell Prediction Limit

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR Printed 12/3/2018, 10:16 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Boron (mg/L)	GWC-10	0.050	n/a	9/18/2018	0.02ND	No	77	77.92	n/a	0.000...	NP (NDs) 1 of 3
Boron (mg/L)	GWC-10R	0.050	n/a	9/18/2018	0.02ND	No	77	77.92	n/a	0.000...	NP (NDs) 1 of 3
Boron (mg/L)	GWC-11	0.050	n/a	9/18/2018	0.02ND	No	77	77.92	n/a	0.000...	NP (NDs) 1 of 3
Boron (mg/L)	GWC-11R	0.050	n/a	9/18/2018	0.02ND	No	77	77.92	n/a	0.000...	NP (NDs) 1 of 3
Boron (mg/L)	GWC-12	0.050	n/a	9/18/2018	0.02ND	No	77	77.92	n/a	0.000...	NP (NDs) 1 of 3
Boron (mg/L)	GWC-13	0.050	n/a	9/19/2018	0.026	No	77	77.92	n/a	0.000...	NP (NDs) 1 of 3
Boron (mg/L)	GWC-14_14Z	0.050	n/a	9/19/2018	0.02ND	No	77	77.92	n/a	0.000...	NP (NDs) 1 of 3
Boron (mg/L)	GWC-15R	0.050	n/a	9/19/2018	0.0049	No	77	77.92	n/a	0.000...	NP (NDs) 1 of 3
Boron (mg/L)	GWC-15_15Z	0.050	n/a	9/19/2018	0.0046	No	77	77.92	n/a	0.000...	NP (NDs) 1 of 3
Boron (mg/L)	GWC-5	0.050	n/a	9/17/2018	0.02ND	No	77	77.92	n/a	0.000...	NP (NDs) 1 of 3
Boron (mg/L)	GWC-6	0.050	n/a	9/17/2018	0.02ND	No	77	77.92	n/a	0.000...	NP (NDs) 1 of 3
Boron (mg/L)	GWC-6RZ	0.050	n/a	9/17/2018	0.0046	No	77	77.92	n/a	0.000...	NP (NDs) 1 of 3
Boron (mg/L)	GWC-7Z	0.050	n/a	9/18/2018	0.0045	No	77	77.92	n/a	0.000...	NP (NDs) 1 of 3
Boron (mg/L)	GWC-8RR	0.050	n/a	9/18/2018	0.02ND	No	77	77.92	n/a	0.000...	NP (NDs) 1 of 3
Boron (mg/L)	GWC-8Z	0.050	n/a	9/18/2018	0.02ND	No	77	77.92	n/a	0.000...	NP (NDs) 1 of 3
Boron (mg/L)	GWC-9	0.050	n/a	9/18/2018	0.02ND	No	77	77.92	n/a	0.000...	NP (NDs) 1 of 3
Boron (mg/L)	GWC-13R_13RZ	0.050	n/a	9/20/2018	0.016	No	77	77.92	n/a	0.000...	NP (NDs) 1 of 3
Chloride (mg/L)	GWC-10	2.5	n/a	9/18/2018	2.4	No	77	1.299	ln(x)	0.000...	Param 1 of 3
Chloride (mg/L)	GWC-10R	2.5	n/a	9/18/2018	2.5	No	77	1.299	ln(x)	0.000...	Param 1 of 3
Chloride (mg/L)	GWC-11	2.5	n/a	9/18/2018	1.5	No	77	1.299	ln(x)	0.000...	Param 1 of 3
Chloride (mg/L)	GWC-11R	2.5	n/a	9/18/2018	1.9	No	77	1.299	ln(x)	0.000...	Param 1 of 3
Chloride (mg/L)	GWC-12	2.5	n/a	9/18/2018	1.3	No	77	1.299	ln(x)	0.000...	Param 1 of 3
Chloride (mg/L)	**GWC-13**	**2.5**	**n/a**	**9/19/2018**	**5.1**	**Yes**	**77**	**1.299**	**ln(x)**	**0.000...**	Param 1 of 3
Chloride (mg/L)	**GWC-14_14Z**	**2.5**	**n/a**	**9/19/2018**	**2.8**	**Yes**	**77**	**1.299**	**ln(x)**	**0.000...**	Param 1 of 3
Chloride (mg/L)	GWC-15R	2.5	n/a	9/19/2018	1.7	No	77	1.299	ln(x)	0.000...	Param 1 of 3
Chloride (mg/L)	GWC-15_15Z	2.5	n/a	9/19/2018	1.1	No	77	1.299	ln(x)	0.000...	Param 1 of 3
Chloride (mg/L)	GWC-5	2.5	n/a	9/17/2018	0.9	No	77	1.299	ln(x)	0.000...	Param 1 of 3
Chloride (mg/L)	GWC-6	2.5	n/a	9/17/2018	1.1	No	77	1.299	ln(x)	0.000...	Param 1 of 3
Chloride (mg/L)	GWC-6RZ	2.5	n/a	9/17/2018	1.3	No	77	1.299	ln(x)	0.000...	Param 1 of 3
Chloride (mg/L)	GWC-7Z	2.5	n/a	9/18/2018	1.3	No	77	1.299	ln(x)	0.000...	Param 1 of 3
Chloride (mg/L)	GWC-8RR	2.5	n/a	9/18/2018	1.2	No	77	1.299	ln(x)	0.000...	Param 1 of 3
Chloride (mg/L)	GWC-8Z	2.5	n/a	9/18/2018	1.9	No	77	1.299	ln(x)	0.000...	Param 1 of 3
Chloride (mg/L)	GWC-9	2.5	n/a	9/18/2018	2.4	No	77	1.299	ln(x)	0.000...	Param 1 of 3
Chloride (mg/L)	**GWC-13R_13RZ**	**2.5**	**n/a**	**9/20/2018**	**9.6**	**Yes**	**77**	**1.299**	**ln(x)**	**0.000...**	Param 1 of 3
Fluoride (mg/L)	GWC-10	1.1	n/a	9/18/2018	0.15ND	No	77	48.05	n/a	0.000...	NP (normality) 1 of 3
Fluoride (mg/L)	GWC-10R	1.1	n/a	9/18/2018	0.15ND	No	77	48.05	n/a	0.000...	NP (normality) 1 of 3
Fluoride (mg/L)	GWC-11	1.1	n/a	9/18/2018	0.15ND	No	77	48.05	n/a	0.000...	NP (normality) 1 of 3
Fluoride (mg/L)	GWC-11R	1.1	n/a	9/18/2018	0.15ND	No	77	48.05	n/a	0.000...	NP (normality) 1 of 3
Fluoride (mg/L)	GWC-12	1.1	n/a	9/18/2018	0.15ND	No	77	48.05	n/a	0.000...	NP (normality) 1 of 3
Fluoride (mg/L)	GWC-13	1.1	n/a	9/19/2018	0.15ND	No	77	48.05	n/a	0.000...	NP (normality) 1 of 3
Fluoride (mg/L)	GWC-14_14Z	1.1	n/a	9/19/2018	0.15ND	No	77	48.05	n/a	0.000...	NP (normality) 1 of 3
Fluoride (mg/L)	GWC-15R	1.1	n/a	9/19/2018	0.15ND	No	77	48.05	n/a	0.000...	NP (normality) 1 of 3
Fluoride (mg/L)	GWC-15_15Z	1.1	n/a	9/19/2018	0.15ND	No	77	48.05	n/a	0.000...	NP (normality) 1 of 3
Fluoride (mg/L)	GWC-5	1.1	n/a	9/17/2018	0.15ND	No	77	48.05	n/a	0.000...	NP (normality) 1 of 3
Fluoride (mg/L)	GWC-6	1.1	n/a	9/17/2018	0.15ND	No	77	48.05	n/a	0.000...	NP (normality) 1 of 3
Fluoride (mg/L)	GWC-6RZ	1.1	n/a	9/17/2018	0.15ND	No	77	48.05	n/a	0.000...	NP (normality) 1 of 3
Fluoride (mg/L)	GWC-7Z	1.1	n/a	9/18/2018	0.15ND	No	77	48.05	n/a	0.000...	NP (normality) 1 of 3
Fluoride (mg/L)	GWC-8RR	1.1	n/a	9/18/2018	0.15ND	No	77	48.05	n/a	0.000...	NP (normality) 1 of 3
Fluoride (mg/L)	GWC-8Z	1.1	n/a	9/18/2018	0.15ND	No	77	48.05	n/a	0.000...	NP (normality) 1 of 3
Fluoride (mg/L)	GWC-9	1.1	n/a	9/18/2018	0.15ND	No	77	48.05	n/a	0.000...	NP (normality) 1 of 3

Interwell Prediction Limit

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR Printed 12/3/2018, 10:16 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Fluoride (mg/L)	GWC-13R_13RZ	1.1	n/a	9/20/2018	0.15ND	No	77	48.05	n/a	0.000...	NP (normality) 1 of 3
pH (pH units)	GWC-10	7.6	5.2	9/18/2018	7.14	No	78	0	n/a	0.000...	NP (normality) 1 of 3
pH (pH units)	**GWC-10R**	**7.6**	**5.2**	**9/18/2018**	**7.66**	**Yes**	**78**	**0**	**n/a**	**0.000...**	NP (normality) 1 of 3
pH (pH units)	GWC-11	7.6	5.2	9/18/2018	6.9	No	78	0	n/a	0.000...	NP (normality) 1 of 3
pH (pH units)	**GWC-11R**	**7.6**	**5.2**	**9/18/2018**	**7.88**	**Yes**	**78**	**0**	**n/a**	**0.000...**	NP (normality) 1 of 3
pH (pH units)	GWC-12	7.6	5.2	9/18/2018	6.42	No	78	0	n/a	0.000...	NP (normality) 1 of 3
pH (pH units)	GWC-13	7.6	5.2	9/19/2018	7.31	No	78	0	n/a	0.000...	NP (normality) 1 of 3
pH (pH units)	GWC-14_14Z	7.6	5.2	9/19/2018	6.88	No	78	0	n/a	0.000...	NP (normality) 1 of 3
pH (pH units)	**GWC-15R**	**7.6**	**5.2**	**9/19/2018**	**7.66**	**Yes**	**78**	**0**	**n/a**	**0.000...**	NP (normality) 1 of 3
pH (pH units)	**GWC-15_15Z**	**7.6**	**5.2**	**9/19/2018**	**7.77**	**Yes**	**78**	**0**	**n/a**	**0.000...**	NP (normality) 1 of 3
pH (pH units)	GWC-5	7.6	5.2	9/17/2018	6.14	No	78	0	n/a	0.000...	NP (normality) 1 of 3
pH (pH units)	GWC-6	7.6	5.2	9/17/2018	7.57	No	78	0	n/a	0.000...	NP (normality) 1 of 3
pH (pH units)	GWC-6RZ	7.6	5.2	9/17/2018	6.96	No	78	0	n/a	0.000...	NP (normality) 1 of 3
pH (pH units)	GWC-7Z	7.6	5.2	9/18/2018	7.26	No	78	0	n/a	0.000...	NP (normality) 1 of 3
pH (pH units)	**GWC-8RR**	**7.6**	**5.2**	**9/18/2018**	**7.92**	**Yes**	**78**	**0**	**n/a**	**0.000...**	NP (normality) 1 of 3
pH (pH units)	GWC-8Z	7.6	5.2	9/18/2018	6.95	No	78	0	n/a	0.000...	NP (normality) 1 of 3
pH (pH units)	GWC-9	7.6	5.2	9/18/2018	5.36	No	78	0	n/a	0.000...	NP (normality) 1 of 3
pH (pH units)	GWC-13R_13RZ	7.6	5.2	9/20/2018	7.43	No	78	0	n/a	0.000...	NP (normality) 1 of 3

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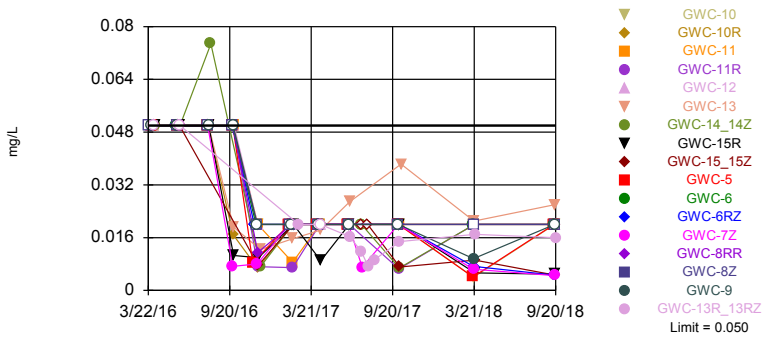
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 77 background values. 77.92% NDs. Annual per-constituent alpha = 0.0004214. Individual comparison alpha = 0.0000124 (1 of 3). Comparing 17 points to limit.

Constituent: Boron Analysis Run 12/3/2018 10:09 AM View: Cells1&2_AppIII_Interwell
Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

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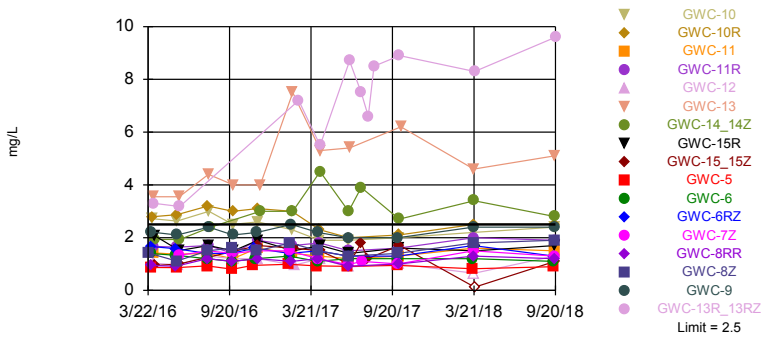
Exceeds Limit: GWC-13, GWC-14_14Z, GWC-13R 13RZ

Prediction Limit

Interwell Parametric



Background Data Summary (based on natural log transformation): Mean=0.3457, Std. Dev.=0.3708, n=77, 1.299% NDs. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9688, critical = 0.957. Kappa = 1.491 (c=7, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.0004426. Comparing 17 points to limit.

Constituent: Chloride Analysis Run 12/3/2018 10:10 AM View: Cells1&2_AppIII_Interwell
Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

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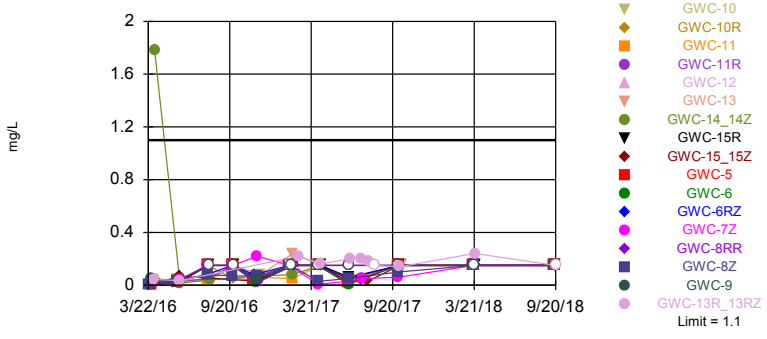
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 77 background values. 48.05% NDs. Annual per-constituent alpha = 0.0004214. Individual comparison alpha = 0.0000124 (1 of 3). Comparing 17 points to limit.

Constituent: Fluoride Analysis Run 12/3/2018 10:11 AM View: Cells1&2_AppIII_Interwell
Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

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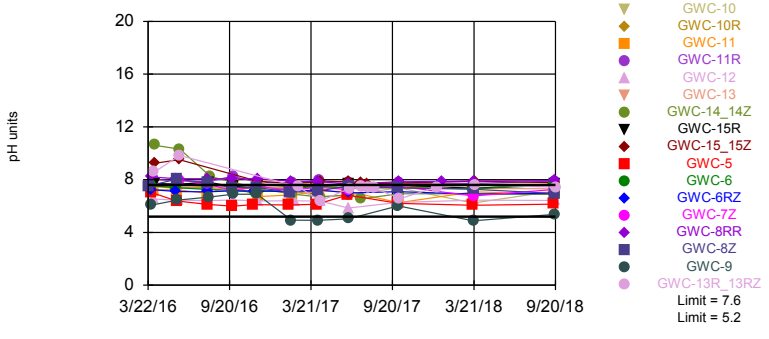
Exceeds Limits: GWC-10R, GWC-11R, GWC-15R, GWC-15 15Z, GWC-8RR

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. Limits are highest and lowest of 78 background values. Annual per-constituent alpha = 0.0008078. Individual comparison alpha = 0.00002376 (1 of 3). Comparing 17 points to limit.

Constituent: pH Analysis Run 12/3/2018 10:12 AM View: Cells1&2_AppIII_Interwell
Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 12/3/2018 10:16 AM View: Cells1&2_AppIII_Interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-8Z	GWA-1 (bg)	GWA-2 (bg)	GWA-3 (bg)	GWA-2R (bg)	GWA-50 (bg)	GWC-5	GWA-50R (bg)	GWC-6RZ
3/22/2016	<0.1	<0.1							
3/23/2016			<0.1	<0.1	<0.1				
3/28/2016						<0.1	<0.1	<0.1	
3/29/2016									<0.1
3/30/2016									
3/31/2016									
4/4/2016									
4/5/2016									
5/19/2016		<0.1			<0.1				
5/20/2016			<0.1						
5/23/2016				<0.1		<0.1			
5/24/2016									<0.1
5/25/2016	<0.1						<0.1	<0.1	
5/26/2016									
5/27/2016									
5/31/2016									
6/1/2016									
7/29/2016		<0.1 (*)	<0.1 (*)	<0.1 (*)	<0.1 (*)				
8/1/2016						<0.1 (*)	<0.1 (*)	<0.1 (*)	<0.1
8/2/2016	<0.1 (*)								
8/3/2016									
8/4/2016									
8/5/2016									
8/9/2016									
9/22/2016				<0.1	<0.1				
9/23/2016		<0.1 (*)	<0.1 (*)						
9/26/2016	<0.1					<0.1		<0.1	<0.1
9/27/2016							<0.1		
9/28/2016									
9/29/2016									
9/30/2016									
11/9/2016		<0.04 (*)	<0.04 (*)						
11/10/2016				<0.04	<0.04	<0.04 (*)			
11/11/2016							0.0083 (J)	0.0193 (J)	
11/14/2016									<0.04
11/18/2016									
11/21/2016	<0.04								
11/22/2016									
11/23/2016									
11/28/2016									
1/30/2017		<0.04				<0.04		<0.04	
1/31/2017			<0.04	<0.04	<0.04		<0.04		
2/1/2017									<0.04
2/3/2017	<0.04								
2/6/2017									
2/7/2017									
2/8/2017									
2/9/2017									
2/10/2017									
2/13/2017									
2/22/2017									
3/30/2017		0.0065 (J)	<0.04	<0.04					

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 12/3/2018 10:16 AM View: Cells1&2_AppIII_Interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-8Z	GWA-1 (bg)	GWA-2 (bg)	GWA-3 (bg)	GWA-2R (bg)	GWA-50 (bg)	GWC-5	GWA-50R (bg)	GWC-6RZ
4/3/2017					<0.04		<0.04	<0.04	
4/6/2017									<0.04
4/7/2017	<0.04					0.008 (J)			
4/10/2017									
4/11/2017									
4/12/2017									
6/9/2017		<0.04			<0.04				
6/12/2017			<0.04	<0.04		<0.04	<0.04	<0.04	
6/13/2017	<0.04								<0.04
6/14/2017									
6/15/2017									
6/16/2017									
7/12/2017									
7/14/2017									
7/20/2017									
7/26/2017									
7/28/2017									
8/9/2017									
8/10/2017									
8/24/2017									
10/2/2017		<0.04	<0.04		<0.04	<0.04		<0.04	
10/3/2017	<0.04						<0.04		<0.04
10/4/2017				<0.04					
10/5/2017									
10/6/2017									
10/9/2017									
3/16/2018		<0.04			0.0077 (J)	<0.04		<0.04	
3/19/2018			0.013 (J)	0.0057 (J)			0.0041 (J)		
3/20/2018	<0.04								0.0073 (J)
3/21/2018									
3/22/2018									
3/23/2018									
9/14/2018			<0.04		<0.04				
9/17/2018		0.00625 (JD)		<0.04		<0.04	<0.04		0.0046 (J)
9/18/2018	<0.04							<0.04	
9/19/2018									
9/20/2018									

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 12/3/2018 10:16 AM View: Cells1&2_AppIII_Interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-6	GWC-8RR	GWC-9	GWC-10	GWC-10R	GWC-13R_13RZ	GWC-13	GWC-11	GWC-11R
3/22/2016									
3/23/2016									
3/28/2016									
3/29/2016	<0.1								
3/30/2016		<0.1	<0.1						
3/31/2016				<0.1	<0.1				
4/4/2016						<0.1	<0.1	<0.1	<0.1
4/5/2016									
5/19/2016									
5/20/2016									
5/23/2016									
5/24/2016	<0.1	<0.1							
5/25/2016									
5/26/2016			<0.1	<0.1	<0.1			<0.1	<0.1
5/27/2016									
5/31/2016							<0.1		
6/1/2016						<0.1			
7/29/2016									
8/1/2016	<0.1								
8/2/2016		<0.1 (*)							
8/3/2016					<0.1 (*)			<0.1 (*)	
8/4/2016							<0.1 (*)		<0.1 (*)
8/5/2016			<0.1	<0.1					
8/9/2016									
9/22/2016									
9/23/2016									
9/26/2016	<0.1								
9/27/2016		<0.1							
9/28/2016			<0.1	<0.1	0.0169 (J)			<0.1	<0.1
9/29/2016							0.0192 (J)		
9/30/2016									
11/9/2016									
11/10/2016									
11/11/2016									
11/14/2016									
11/18/2016	<0.04								
11/21/2016			<0.04						
11/22/2016		0.0115 (J)		<0.04	0.0067 (J)			<0.04	0.0072 (J)
11/23/2016									
11/28/2016							0.0124 (J)		
1/30/2017									
1/31/2017									
2/1/2017	<0.04								
2/3/2017									
2/6/2017		<0.04	<0.04						
2/7/2017				<0.04	<0.04				
2/8/2017								0.0085 (J)	0.0069 (J)
2/9/2017							0.0157 (J)		
2/10/2017									
2/13/2017									
2/22/2017						0.02 (J)			
3/30/2017									

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 12/3/2018 10:16 AM View: Cells1&2_AppIII_Interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-6	GWC-8RR	GWC-9	GWC-10	GWC-10R	GWC-13R_13RZ	GWC-13	GWC-11	GWC-11R
4/3/2017									
4/6/2017	<0.04	<0.04	<0.04						
4/7/2017									
4/10/2017				<0.04	<0.04			<0.04	<0.04
4/11/2017						<0.04			
4/12/2017							0.0183 (J)		
6/9/2017									
6/12/2017									
6/13/2017	<0.04		<0.04						
6/14/2017		<0.04		<0.04	<0.04				
6/15/2017								<0.04	<0.04
6/16/2017						0.0163 (J)	0.0269 (J)		
7/12/2017						0.0117 (J)			
7/14/2017									
7/20/2017									
7/26/2017									
7/28/2017						0.0071 (J)			
8/9/2017									
8/10/2017						0.0093 (J)			
8/24/2017									
10/2/2017									
10/3/2017	<0.04		<0.04						
10/4/2017		<0.04		<0.04	<0.04			<0.04	0.0065 (J)
10/5/2017									
10/6/2017						0.0148 (J)			
10/9/2017							0.0383 (J)		
3/16/2018									
3/19/2018	<0.04								
3/20/2018			0.0096 (J)	0.004 (J)					
3/21/2018		<0.04			<0.04		0.021 (J)	<0.04	
3/22/2018									<0.04
3/23/2018						0.017 (J)			
9/14/2018									
9/17/2018	<0.04								
9/18/2018		<0.04	<0.04 (D)	<0.04	<0.04			<0.04	<0.04
9/19/2018							0.026 (J)		
9/20/2018						0.016 (J)			

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 12/3/2018 10:16 AM View: Cells1&2_AppIII_Interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-12	GWC-15_15Z	GWC-15R	GWC-14_14Z	GWC-7Z	GWA-4RZ (bg)
3/22/2016						
3/23/2016						
3/28/2016						
3/29/2016						
3/30/2016						
3/31/2016						
4/4/2016	<0.1					
4/5/2016		<0.1	<0.1	<0.1		
5/19/2016						
5/20/2016						
5/23/2016						
5/24/2016						
5/25/2016						
5/26/2016						
5/27/2016	<0.1					
5/31/2016		<0.1	<0.1		<0.1	
6/1/2016				<0.1		
7/29/2016						
8/1/2016						
8/2/2016					<0.1 (*)	
8/3/2016	<0.1					
8/4/2016			<0.1			
8/5/2016						
8/9/2016				0.0748 (D)		
9/22/2016						
9/23/2016						
9/26/2016						
9/27/2016					0.0073 (J)	
9/28/2016						
9/29/2016			0.0106 (J)			
9/30/2016	<0.1					
11/9/2016						
11/10/2016						
11/11/2016						
11/14/2016						
11/18/2016						
11/21/2016					0.008 (J)	
11/22/2016	<0.04					
11/23/2016		0.0076 (J)	0.0099 (J)			
11/28/2016				0.0072 (J)		
1/30/2017						
1/31/2017						
2/1/2017					<0.04	
2/3/2017						
2/6/2017						
2/7/2017						
2/8/2017						
2/9/2017				<0.04		
2/10/2017		<0.04	<0.04			
2/13/2017	<0.04					
2/22/2017						0.022 (J)
3/30/2017						

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 12/3/2018 10:16 AM View: Cells1&2_AppIII_Interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-12	GWC-15_15Z	GWC-15R	GWC-14_14Z	GWC-7Z	GWA-4RZ (bg)
4/3/2017						
4/6/2017					<0.04	
4/7/2017						0.0082 (J)
4/10/2017						
4/11/2017	<0.04	<0.04		<0.04		
4/12/2017			0.009 (J)			
6/9/2017						
6/12/2017						
6/13/2017					<0.04	
6/14/2017	<0.04			<0.04		0.008 (J)
6/15/2017		<0.04	<0.04			
6/16/2017						
7/12/2017		<0.04		<0.04		0.0082 (J)
7/14/2017					0.007 (J)	
7/20/2017						0.0091 (J)
7/26/2017		<0.04				
7/28/2017						<0.04
8/9/2017						0.0071 (J)
8/10/2017						
8/24/2017						0.0062 (J)
10/2/2017						
10/3/2017					<0.04	0.006 (J)
10/4/2017	<0.04					
10/5/2017				0.0068 (J)		
10/6/2017		0.0071 (J)	<0.04			
10/9/2017						
3/16/2018						
3/19/2018						
3/20/2018					0.0064 (J)	
3/21/2018						0.0062 (J)
3/22/2018	<0.04			<0.04		
3/23/2018		0.0092 (J)	0.0053 (J)			
9/14/2018						
9/17/2018						
9/18/2018	<0.04				0.0045 (J)	0.0096 (J)
9/19/2018		0.0046 (J)	0.0049 (J)	<0.04		
9/20/2018						

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 12/3/2018 10:16 AM View: Cells1&2_AppIII_Interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-8Z	GWA-1 (bg)	GWA-2 (bg)	GWA-3 (bg)	GWA-2R (bg)	GWA-50 (bg)	GWC-5	GWA-50R (bg)	GWC-6RZ
3/22/2016	1.4231	1.5101							
3/23/2016			2.4904	1.6092	0.9079				
3/28/2016						1.14	0.8659	0.9204	
3/29/2016									1.6645
3/30/2016									
3/31/2016									
4/4/2016									
4/5/2016									
5/19/2016		1.5			0.9136				
5/20/2016			1.71						
5/23/2016				1.52		1.19			
5/24/2016									1.58
5/25/2016	1.11						0.8639	1.04	
5/26/2016									
5/27/2016									
5/31/2016									
6/1/2016									
7/29/2016		1.7	2	1.5	1.1				
8/1/2016						1.2	0.93	0.85	1.4
8/2/2016	1.5								
8/3/2016									
8/4/2016									
8/5/2016									
8/9/2016									
9/22/2016				1.4	1				
9/23/2016		1.8	1.8						
9/26/2016	1.6					1.1		0.87	1.4
9/27/2016							0.8		
9/28/2016									
9/29/2016									
9/30/2016									
11/9/2016		2	1.6						
11/10/2016				1.6	1.2	1.3			
11/11/2016							0.95	0.99	
11/14/2016									1.6
11/18/2016									
11/21/2016	1.5								
11/22/2016									
11/23/2016									
11/28/2016									
1/30/2017		1.5				1.2		0.95	
1/31/2017			1.3	1.6	1.2		0.99		
2/1/2017									1.4
2/3/2017	1.8								
2/6/2017									
2/7/2017									
2/8/2017									
2/9/2017									
2/10/2017									
2/13/2017									
2/22/2017									
3/30/2017		1.8	1.6	1.4					

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 12/3/2018 10:16 AM View: Cells1&2_AppIII_Interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-8Z	GWA-1 (bg)	GWA-2 (bg)	GWA-3 (bg)	GWA-2R (bg)	GWA-50 (bg)	GWC-5	GWA-50R (bg)	GWC-6RZ
4/3/2017					0.99		0.93	0.88	
4/6/2017									1.5
4/7/2017	1.5					1.2			
4/10/2017									
4/11/2017									
4/12/2017									
6/9/2017		1.6			0.87				
6/12/2017			1.6	1.4		1.1	0.91	0.83	
6/13/2017	1.3								1.3
6/14/2017									
6/15/2017									
6/16/2017									
7/12/2017									
7/14/2017									
7/20/2017									
7/26/2017									
7/28/2017									
8/9/2017									
8/10/2017									
8/24/2017									
10/2/2017		1.6	0.94		1	1.2		0.94	
10/3/2017	1.4						0.95		1.3
10/4/2017				1.5					
10/5/2017									
10/6/2017									
10/9/2017									
3/16/2018		1.7			1.6	1.4		<1.1	
3/19/2018			1.9	1.5			0.82		
3/20/2018	1.8								1.7
3/21/2018									
3/22/2018									
3/23/2018									
9/14/2018			0.98		0.92				
9/17/2018		1.55 (D)		1.5		1.1	0.9		1.3
9/18/2018	1.9							1	
9/19/2018									
9/20/2018									

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 12/3/2018 10:16 AM View: Cells1&2_AppIII_Interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-6	GWC-8RR	GWC-9	GWC-10	GWC-10R	GWC-13R_13RZ	GWC-13	GWC-11	GWC-11R
3/22/2016									
3/23/2016									
3/28/2016									
3/29/2016	1.3977								
3/30/2016		0.9409	2.21						
3/31/2016				2.72	2.79				
4/4/2016						3.3	3.55	1.42	1.67
4/5/2016									
5/19/2016									
5/20/2016									
5/23/2016									
5/24/2016	1.33	0.92							
5/25/2016									
5/26/2016			2.1	2.63	2.87			1.37	1.64
5/27/2016									
5/31/2016							3.55		
6/1/2016						3.18			
7/29/2016									
8/1/2016	1.2								
8/2/2016		1.2							
8/3/2016					3.2			1.4	
8/4/2016							4.4		1.7
8/5/2016			2.4	3					
8/9/2016									
9/22/2016									
9/23/2016									
9/26/2016	1.1								
9/27/2016		1.1							
9/28/2016			2.1	2.5	3			1.2	1.4
9/29/2016							4		
9/30/2016									
11/9/2016									
11/10/2016									
11/11/2016									
11/14/2016									
11/18/2016	1.2								
11/21/2016			2.2						
11/22/2016		1.2		2.6	3.1			1.6	1.9
11/23/2016									
11/28/2016							4		
1/30/2017									
1/31/2017									
2/1/2017	1.3								
2/3/2017									
2/6/2017		1.1	2.5						
2/7/2017				2.3	3				
2/8/2017								1.4	1.7
2/9/2017							7.5		
2/10/2017									
2/13/2017									
2/22/2017						7.2			
3/30/2017									

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 12/3/2018 10:16 AM View: Cells1&2_AppIII_Interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-6	GWC-8RR	GWC-9	GWC-10	GWC-10R	GWC-13R_13RZ	GWC-13	GWC-11	GWC-11R
4/3/2017									
4/6/2017	1.1	1.2	2.2						
4/7/2017									
4/10/2017				1.9	2.3			1.3	1.8
4/11/2017						5.5			
4/12/2017							5.3		
6/9/2017									
6/12/2017									
6/13/2017	1.2		2						
6/14/2017		0.92		1.9	2				
6/15/2017								1.2	1.5
6/16/2017						8.7	5.4		
7/12/2017						7.5			
7/14/2017									
7/20/2017									
7/26/2017									
7/28/2017						6.6			
8/9/2017									
8/10/2017						8.5			
8/24/2017									
10/2/2017									
10/3/2017	1.2		2						
10/4/2017		1		2	2.1			1.3	1.6
10/5/2017									
10/6/2017						8.9			
10/9/2017							6.2		
3/16/2018									
3/19/2018	1.2								
3/20/2018			2.4	2.2					
3/21/2018		1.3			2.5		4.6	1.6	
3/22/2018									2
3/23/2018						8.3			
9/14/2018									
9/17/2018	1.1								
9/18/2018		1.2	2.4 (D)	2.4	2.5			1.5	1.9
9/19/2018							5.1		
9/20/2018						9.6			

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 12/3/2018 10:16 AM View: Cells1&2_AppIII_Interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-12	GWC-15_15Z	GWC-15R	GWC-14_14Z	GWC-7Z	GWA-4RZ (bg)
3/22/2016						
3/23/2016						
3/28/2016						
3/29/2016						
3/30/2016						
3/31/2016						
4/4/2016	1.03					
4/5/2016		0.9439	2.08	1.93		
5/19/2016						
5/20/2016						
5/23/2016						
5/24/2016						
5/25/2016						
5/26/2016						
5/27/2016	0.9684					
5/31/2016		1	1.51		1.33	
6/1/2016				1.93		
7/29/2016						
8/1/2016						
8/2/2016					1.5	
8/3/2016	1.3					
8/4/2016			1.7			
8/5/2016						
8/9/2016				2.4		
9/22/2016						
9/23/2016						
9/26/2016						
9/27/2016					1.4	
9/28/2016						
9/29/2016			1.5			
9/30/2016	1.2					
11/9/2016						
11/10/2016						
11/11/2016						
11/14/2016						
11/18/2016						
11/21/2016					1.5	
11/22/2016	1.2					
11/23/2016		1.7	1.9			
11/28/2016				3		
1/30/2017						
1/31/2017						
2/1/2017					1.5	
2/3/2017						
2/6/2017						
2/7/2017						
2/8/2017						
2/9/2017				3		
2/10/2017		1.6	1.5			
2/13/2017	0.96					
2/22/2017						3.7
3/30/2017						

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 12/3/2018 10:16 AM View: Cells1&2_AppIII_Interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-12	GWC-15_15Z	GWC-15R	GWC-14_14Z	GWC-7Z	GWA-4RZ (bg)
4/3/2017						
4/6/2017					1.2	
4/7/2017						2.5
4/10/2017						
4/11/2017	1.2	1.5		4.5		
4/12/2017			1.7			
6/9/2017						
6/12/2017						
6/13/2017					0.98	
6/14/2017	0.89			3		2.6
6/15/2017		1	1.4			
6/16/2017						
7/12/2017		1.8		3.9		2.8
7/14/2017					1.1	
7/20/2017						2.3
7/26/2017		1.2				
7/28/2017						2
8/9/2017						1.8
8/10/2017						
8/24/2017						2.9
10/2/2017						
10/3/2017					1	2.8
10/4/2017	1					
10/5/2017				2.7		
10/6/2017		1.7	1.6			
10/9/2017						
3/16/2018						
3/19/2018						
3/20/2018					1.5	
3/21/2018						2.9
3/22/2018	<1.3			3.4		
3/23/2018		<0.25	1.5			
9/14/2018						
9/17/2018						
9/18/2018	1.3				1.3	3.1
9/19/2018		1.1	1.7	2.8		
9/20/2018						

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 12/3/2018 10:16 AM View: Cells1&2_AppIII_Interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-8Z	GWA-1 (bg)	GWA-2 (bg)	GWA-3 (bg)	GWA-2R (bg)	GWA-50 (bg)	GWC-5	GWA-50R (bg)	GWC-6RZ
3/22/2016	0.00323 (J)	0.0614 (J)							
3/23/2016			0.0477 (J)	<0.3	0.0826 (J)				
3/28/2016						0.0314 (J)	0.00421 (J)	0.0326 (J)	
3/29/2016									0.00363 (J)
3/30/2016									
3/31/2016									
4/4/2016									
4/5/2016									
5/19/2016		0.064 (J)			0.0409 (J)				
5/20/2016			0.033 (J)						
5/23/2016				<0.3		0.027 (J)			
5/24/2016									0.0286 (J)
5/25/2016	0.0345 (J)						0.0207 (J)	0.0285 (J)	
5/26/2016									
5/27/2016									
5/31/2016									
6/1/2016									
7/29/2016		0.11 (J)	0.16 (J)	<0.3	0.07 (J)				
8/1/2016						<0.3	<0.3	<0.3	0.08 (J)
8/2/2016	0.08 (J)								
8/3/2016									
8/4/2016									
8/5/2016									
8/9/2016									
9/22/2016				<0.3	<0.3				
9/23/2016		0.03 (J)	0.1 (J)						
9/26/2016	0.07 (J)					<0.3		<0.3	<0.3
9/27/2016							<0.3		
9/28/2016									
9/29/2016									
9/30/2016									
11/9/2016		0.1 (J)	0.04 (J)						
11/10/2016				<0.3	0.03 (J)	0.04 (J)			
11/11/2016							0.04 (J)	<0.3	
11/14/2016									0.08 (J)
11/18/2016									
11/21/2016	0.07 (J)								
11/22/2016									
11/23/2016									
11/28/2016									
1/30/2017		<0.3				<0.3		<0.3	
1/31/2017			<0.3	<0.3	<0.3		<0.3		
2/1/2017									<0.3
2/3/2017	<0.3								
2/6/2017									
2/7/2017									
2/8/2017									
2/9/2017									
2/10/2017									
2/13/2017									
2/22/2017									
3/30/2017		0.01 (J)	0.02 (J)	<0.3					

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 12/3/2018 10:16 AM View: Cells1&2_AppIII_Interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-8Z	GWA-1 (bg)	GWA-2 (bg)	GWA-3 (bg)	GWA-2R (bg)	GWA-50 (bg)	GWC-5	GWA-50R (bg)	GWC-6RZ
4/3/2017					0.02 (J)		<0.3	0.04 (J)	
4/6/2017									<0.3
4/7/2017	0.03 (J)					<0.3			
4/10/2017									
4/11/2017									
4/12/2017									
6/9/2017		0.04 (J)			0.06 (J)				
6/12/2017			0.17 (J)	<0.3		0.07 (J)	0.02 (J)	0.06 (J)	
6/13/2017	0.05 (J)								0.05 (J)
6/14/2017									
6/15/2017									
6/16/2017									
7/12/2017									
7/14/2017									
7/20/2017									
7/26/2017									
7/28/2017									
8/9/2017									
8/10/2017									
8/24/2017									
10/2/2017		0.07 (J)	<0.3		<0.3	<0.3		<0.3	
10/3/2017	0.1 (J)						<0.3		<0.3
10/4/2017				<0.3					
10/5/2017									
10/6/2017									
10/9/2017									
3/16/2018		0.029 (J)			<0.3	<0.3		<0.3	
3/19/2018			1.1	<0.3			<0.3		
3/20/2018	<0.3								<0.3
3/21/2018									
3/22/2018									
3/23/2018									
9/14/2018			<0.3		<0.3				
9/17/2018		<0.3 (D)		<0.3		<0.3	<0.3		<0.3
9/18/2018	<0.3							<0.3	
9/19/2018									
9/20/2018									

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 12/3/2018 10:16 AM View: Cells1&2_AppIII_Interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-6	GWC-8RR	GWC-9	GWC-10	GWC-10R	GWC-13R_13RZ	GWC-13	GWC-11	GWC-11R
3/22/2016									
3/23/2016									
3/28/2016									
3/29/2016	0.0376 (J)								
3/30/2016		0.00345 (J)	0.0518 (J)						
3/31/2016				0.0389 (J)	0.0209 (J)				
4/4/2016						0.044 (J)	0.026 (J)	0.0357 (J)	0.022 (J)
4/5/2016									
5/19/2016									
5/20/2016									
5/23/2016									
5/24/2016	0.023 (J)	0.019 (J)							
5/25/2016									
5/26/2016			0.0307 (J)	0.0375 (J)	0.037 (J)			0.042 (J)	0.023 (J)
5/27/2016									
5/31/2016							0.0234 (J)		
6/1/2016						0.0338 (J)			
7/29/2016									
8/1/2016	<0.3								
8/2/2016		<0.3							
8/3/2016					<0.3			0.04 (J)	
8/4/2016							0.09 (J)		0.05 (J)
8/5/2016			<0.3	0.03 (J)					
8/9/2016									
9/22/2016									
9/23/2016									
9/26/2016	<0.3								
9/27/2016		<0.3							
9/28/2016			<0.3	<0.3	0.05 (J)			<0.3	<0.3
9/29/2016							<0.3		
9/30/2016									
11/9/2016									
11/10/2016									
11/11/2016									
11/14/2016									
11/18/2016	0.02 (J)								
11/21/2016			0.05 (J)						
11/22/2016		0.02 (J)		0.04 (J)	0.04 (J)			0.06 (J)	0.04 (J)
11/23/2016									
11/28/2016							0.08 (J)		
1/30/2017									
1/31/2017									
2/1/2017	<0.3								
2/3/2017									
2/6/2017		<0.3	<0.3						
2/7/2017				<0.3	<0.3				
2/8/2017								0.05 (J)	<0.3
2/9/2017							0.24 (J)		
2/10/2017									
2/13/2017									
2/22/2017						0.22 (J)			
3/30/2017									

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 12/3/2018 10:16 AM View: Cells1&2_AppIII_Interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-6	GWC-8RR	GWC-9	GWC-10	GWC-10R	GWC-13R_13RZ	GWC-13	GWC-11	GWC-11R
4/3/2017									
4/6/2017	<0.3	<0.3	<0.3						
4/7/2017									
4/10/2017				<0.3	<0.3			<0.3	<0.3
4/11/2017						0.16 (J)			
4/12/2017							<0.3		
6/9/2017									
6/12/2017									
6/13/2017	0.006 (J)		<0.3						
6/14/2017		<0.3		0.02 (J)	<0.3				
6/15/2017								0.03 (J)	<0.3
6/16/2017						0.2 (J)	0.04 (J)		
7/12/2017						0.2 (J)			
7/14/2017									
7/20/2017									
7/26/2017									
7/28/2017						0.18 (J)			
8/9/2017									
8/10/2017						<0.3 (*)			
8/24/2017									
10/2/2017									
10/3/2017	<0.3		<0.3						
10/4/2017		<0.3		<0.3	<0.3			<0.3	<0.3
10/5/2017									
10/6/2017						0.14 (J)			
10/9/2017							<0.3		
3/16/2018									
3/19/2018	<0.3								
3/20/2018			<0.3	<0.3					
3/21/2018		<0.3			<0.3		<0.3	<0.3	
3/22/2018									<0.3
3/23/2018						0.24 (J)			
9/14/2018									
9/17/2018	<0.3								
9/18/2018		<0.3	<0.3 (D)	<0.3	<0.3			<0.3	<0.3
9/19/2018							<0.3		
9/20/2018						<0.3			

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 12/3/2018 10:16 AM View: Cells1&2_AppIII_Interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-12	GWC-15_15Z	GWC-15R	GWC-14_14Z	GWC-7Z	GWA-4RZ (bg)
3/22/2016						
3/23/2016						
3/28/2016						
3/29/2016						
3/30/2016						
3/31/2016						
4/4/2016	0.035 (J)					
4/5/2016		0.011 (J)	0.00288 (J)	1.78243 (J)		
5/19/2016						
5/20/2016						
5/23/2016						
5/24/2016						
5/25/2016						
5/26/2016						
5/27/2016	0.032 (J)					
5/31/2016		0.0669 (J)	0.0233 (J)		0.043 (J)	
6/1/2016				0.0148 (J)		
7/29/2016						
8/1/2016						
8/2/2016					<0.3	
8/3/2016	<0.3					
8/4/2016			<0.3			
8/5/2016						
8/9/2016				0.04 (J)		
9/22/2016						
9/23/2016						
9/26/2016						
9/27/2016					<0.3	
9/28/2016						
9/29/2016			<0.3			
9/30/2016	<0.3					
11/9/2016						
11/10/2016						
11/11/2016						
11/14/2016						
11/18/2016						
11/21/2016					0.22 (J)	
11/22/2016	0.03 (J)					
11/23/2016		0.03 (J)	0.04 (J)			
11/28/2016				0.07 (J)		
1/30/2017						
1/31/2017						
2/1/2017					<0.3	
2/3/2017						
2/6/2017						
2/7/2017						
2/8/2017						
2/9/2017				0.08 (J)		
2/10/2017		<0.3	<0.3			
2/13/2017	<0.3					
2/22/2017						0.3
3/30/2017						

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 12/3/2018 10:16 AM View: Cells1&2_AppIII_Interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-12	GWC-15_15Z	GWC-15R	GWC-14_14Z	GWC-7Z	GWA-4RZ (bg)
4/3/2017						
4/6/2017					0.008 (J)	
4/7/2017						0.19 (J)
4/10/2017						
4/11/2017	<0.3	<0.3		<0.3		
4/12/2017			<0.3			
6/9/2017						
6/12/2017						
6/13/2017					0.03 (J)	
6/14/2017	0.01 (J)			0.01 (J)		0.19 (J)
6/15/2017		0.02 (J)	0.06 (J)			
6/16/2017						
7/12/2017		0.04 (J)		0.05 (J)		0.18 (J)
7/14/2017					0.05 (J)	
7/20/2017						0.17 (J)
7/26/2017		0.03 (J)				
7/28/2017						0.13 (J)
8/9/2017						<0.3 (*)
8/10/2017						
8/24/2017						0.16 (J)
10/2/2017						
10/3/2017					0.06 (J)	0.17 (J)
10/4/2017	<0.3					
10/5/2017				<0.3		
10/6/2017		<0.3	<0.3			
10/9/2017						
3/16/2018						
3/19/2018						
3/20/2018					<0.3	
3/21/2018						0.24 (J)
3/22/2018	<0.3			<0.3		
3/23/2018		<0.3	<0.3			
9/14/2018						
9/17/2018						
9/18/2018	<0.3				<0.3	<0.3
9/19/2018		<0.3	<0.3	<0.3		
9/20/2018						

Prediction Limit

Constituent: pH (pH units) Analysis Run 12/3/2018 10:17 AM View: Cells1&2_AppIII_Interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-8Z	GWA-1 (bg)	GWA-3 (bg)	GWA-2R (bg)	GWA-2 (bg)	GWC-5	GWA-50R (bg)	GWA-50 (bg)	GWC-6RZ
3/22/2016	7.53 (D)	7.65							
3/23/2016			5.96	7.45	6.7				
3/28/2016						7.04	6.45 (D)	6.22	
3/29/2016									7.24
3/30/2016									
3/31/2016									
4/4/2016									
4/5/2016									
5/19/2016		7.6		7.5					
5/20/2016					6.36				
5/23/2016			5.73					5.86	
5/24/2016									7.1
5/25/2016	8.04					6.39	6.96		
5/26/2016									
5/27/2016									
5/31/2016									
6/1/2016									
7/29/2016		7.58	5.51	7.59	6.75				
8/1/2016						6.13	5.64	6.39	7.07
8/2/2016	7.74								
8/3/2016									
8/4/2016									
8/5/2016									
8/9/2016									
9/22/2016			5.45	7.44					
9/23/2016		7.57			6.62				
9/26/2016	7.4						6.26	5.74	7.15
9/27/2016						5.98			
9/28/2016									
9/29/2016									
9/30/2016									
11/9/2016		7.45			6.42				
11/10/2016			5.51	7.55				5.78	
11/11/2016						6.11	5.62		
11/14/2016									7.15
11/18/2016									
11/21/2016	7.4								
11/22/2016									
11/23/2016									
11/28/2016									
1/30/2017		7.64					5.49	5.88	
1/31/2017			5.42	7.56	5.66	6.08			
2/1/2017									7.09
2/3/2017	7.05								
2/6/2017									
2/7/2017									
2/8/2017									
2/9/2017									
2/10/2017									
2/13/2017									
2/22/2017									
3/30/2017		7.51	5.43		6.33				

Prediction Limit

Constituent: pH (pH units) Analysis Run 12/3/2018 10:17 AM View: Cells1&2_AppIII_Interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-8Z	GWA-1 (bg)	GWA-3 (bg)	GWA-2R (bg)	GWA-2 (bg)	GWC-5	GWA-50R (bg)	GWA-50 (bg)	GWC-6RZ
4/3/2017				7.46		6.13	6.32		
4/6/2017									7.23
4/7/2017	7.14							5.94	
4/10/2017									
4/11/2017									
4/12/2017									
6/9/2017		7.6		7.24					
6/12/2017			5.47		6.6	6.83	6.48	5.81	
6/13/2017	7.52								6.99
6/14/2017									
6/15/2017									
6/16/2017									
7/12/2017									
7/14/2017									
7/20/2017									
7/26/2017									
7/27/2017									
7/28/2017									
8/9/2017									
8/10/2017									
8/24/2017									
10/2/2017		7.55		7.35	5.61		6.41	5.93	
10/3/2017	7.38					6.2			7.09
10/4/2017			5.23						
10/5/2017									
10/6/2017									
10/9/2017									
12/28/2017									
1/9/2018									
3/16/2018		7.58		7.31			5.46	5.64	
3/19/2018			5.4		6.55	6.06			
3/20/2018	7.27								6.9
3/21/2018									
3/22/2018									
3/23/2018									
9/14/2018				7.55	5.81				
9/17/2018		7.53 (D)	5.22			6.14		5.82	6.96
9/18/2018	6.95						5.35		
9/19/2018									
9/20/2018									

Prediction Limit

Constituent: pH (pH units) Analysis Run 12/3/2018 10:17 AM View: Cells1&2_AppIII_Interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-6	GWC-9	GWC-8RR	GWC-10	GWC-10R	GWC-11	GWC-11R	GWC-12	GWC-13
3/22/2016									
3/23/2016									
3/28/2016									
3/29/2016	7.54								
3/30/2016		6.07	8.2						
3/31/2016				7.21	7.54				
4/4/2016						7.16	8.01	6.53 (D)	7.44 (D)
4/5/2016									
5/19/2016									
5/20/2016									
5/23/2016									
5/24/2016	7.39		8.07						
5/25/2016									
5/26/2016		6.44		7.3	7.43	7.23	7.91		
5/27/2016								6.45	
5/31/2016									7.37
6/1/2016									
7/29/2016									
8/1/2016	7.26								
8/2/2016			8.07						
8/3/2016					7.41	6.96		6.41	
8/4/2016							7.85		7.32
8/5/2016		6.67		7.54					
8/9/2016									
9/22/2016									
9/23/2016									
9/26/2016	7.19								
9/27/2016			8.06						
9/28/2016		6.89		7.48	7.26	7.6	8.26		
9/29/2016									7.38
9/30/2016								6.46	
11/9/2016									
11/10/2016									
11/11/2016									
11/14/2016									
11/18/2016	7.04								
11/21/2016		6.89							
11/22/2016			8.07	7.54	7.38	6.71	7.79	6.39	
11/23/2016									
11/28/2016									7.43
1/30/2017									
1/31/2017									
2/1/2017	7.34								
2/3/2017									
2/6/2017		4.93	7.88						
2/7/2017				7.17	7.46				
2/8/2017						6.84	7.77		
2/9/2017									7.36
2/10/2017									
2/13/2017								6.4	
2/22/2017									
3/30/2017									

Prediction Limit

Constituent: pH (pH units) Analysis Run 12/3/2018 10:17 AM View: Cells1&2_AppIII_Interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-6	GWC-9	GWC-8RR	GWC-10	GWC-10R	GWC-11	GWC-11R	GWC-12	GWC-13
4/3/2017									
4/6/2017	7.49	4.92	7.86						
4/7/2017									
4/10/2017				6.72	7.51	7.13	7.95		
4/11/2017								6.37	
4/12/2017									7.46
6/9/2017									
6/12/2017									
6/13/2017	7.38	5.03							
6/14/2017			7.66	6.83	7.34			5.85	
6/15/2017						7.1	7.79		
6/16/2017									7.36
7/12/2017									
7/14/2017									
7/20/2017									
7/26/2017									
7/27/2017									
7/28/2017									
8/9/2017									
8/10/2017									
8/24/2017									
10/2/2017									
10/3/2017	7.39	6.01							
10/4/2017			7.84	7.38	7.54	6.25	7.74	6.27	
10/5/2017									
10/6/2017									
10/9/2017									7.38
12/28/2017									
1/9/2018			7.86 (Y)						
3/16/2018									
3/19/2018	7.32								
3/20/2018		4.88		6.23					
3/21/2018			7.9		7.33	7.07			7.33
3/22/2018							7.72	6.45	
3/23/2018									
9/14/2018									
9/17/2018	7.57								
9/18/2018		5.36 (D)	7.92	7.14	7.66	6.9	7.88	6.42	
9/19/2018									7.31
9/20/2018									

Prediction Limit

Constituent: pH (pH units) Analysis Run 12/3/2018 10:17 AM View: Cells1&2_AppIII_Interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-13R_13RZ	GWC-14_14Z	GWC-15_15Z	GWC-15R	GWC-7Z	GWA-4RZ (bg)
3/22/2016						
3/23/2016						
3/28/2016						
3/29/2016						
3/30/2016						
3/31/2016						
4/4/2016	8.56					
4/5/2016		10.61	9.23	7.71		
5/19/2016						
5/20/2016						
5/23/2016						
5/24/2016						
5/25/2016						
5/26/2016						
5/27/2016						
5/31/2016			9.52	7.66	7.98	
6/1/2016	9.83	10.32				
7/29/2016						
8/1/2016						
8/2/2016					7.64	
8/3/2016						
8/4/2016				7.8		
8/5/2016						
8/9/2016		8.23				
9/22/2016						
9/23/2016						
9/26/2016						
9/27/2016					7.18	
9/28/2016						
9/29/2016				7.46		
9/30/2016						
11/9/2016						
11/10/2016						
11/11/2016						
11/14/2016						
11/18/2016						
11/21/2016					7.49	
11/22/2016						
11/23/2016			7.88	7.62		
11/28/2016		7.29				
1/30/2017						
1/31/2017						
2/1/2017					7.2	
2/3/2017						
2/6/2017						
2/7/2017						
2/8/2017						
2/9/2017		6.91				
2/10/2017			7.72	7.51		
2/13/2017						
2/22/2017	7.45					7.38
3/30/2017						

Prediction Limit

Constituent: pH (pH units) Analysis Run 12/3/2018 10:17 AM View: Cells1&2_AppIII_Interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-13R_13RZ	GWC-14_14Z	GWC-15_15Z	GWC-15R	GWC-7Z	GWA-4RZ (bg)
4/3/2017						
4/6/2017					7.42	
4/7/2017						7.35
4/10/2017						
4/11/2017	6.37	6.68	7.83			
4/12/2017				7.54		
6/9/2017						
6/12/2017						
6/13/2017					7.25	
6/14/2017		6.84				7.3
6/15/2017			7.86	7.71		
6/16/2017	7.33					
7/12/2017	7.46	6.54	7.73			7.39
7/14/2017					7.5	
7/20/2017						7.44
7/26/2017			7.71			
7/27/2017	7.37					
7/28/2017	7.37					7.5
8/9/2017	7.38					7.52
8/10/2017	7.38					
8/24/2017						7.5
10/2/2017						
10/3/2017					7.5	7.51
10/4/2017						
10/5/2017		6.93				
10/6/2017	6.55		7.74	7.58		
10/9/2017						
12/28/2017	7.43 (Y)					7.32 (Y)
1/9/2018						
3/16/2018						
3/19/2018						
3/20/2018					6.76	
3/21/2018						7.3
3/22/2018		6.93				
3/23/2018	7.58		7.89	7.34		
9/14/2018						
9/17/2018						
9/18/2018					7.26	7.26
9/19/2018		6.88	7.77	7.66		
9/20/2018	7.43					

Intrawell Prediction Limit

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR Printed 12/3/2018, 10:36 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method

Intrawell Prediction Limit

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR Printed 12/3/2018, 10:36 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Calcium (mg/L)	GWA-1	36	n/a	9/17/2018	30.8	No	8	0	No	0.000...	Param 1 of 3
Calcium (mg/L)	GWA-2	61	n/a	9/14/2018	2.4	No	8	0	No	0.000...	Param 1 of 3
Calcium (mg/L)	GWA-2R	50	n/a	9/14/2018	22.8	No	8	0	x^(1/3)	0.000...	Param 1 of 3
Calcium (mg/L)	GWA-3	2.1	n/a	9/17/2018	0.95	No	8	0	sqrt(x)	0.000...	Param 1 of 3
Calcium (mg/L)	GWA-50	4.2	n/a	9/17/2018	2.3	No	8	0	No	0.000...	Param 1 of 3
Calcium (mg/L)	GWA-50R	15	n/a	9/18/2018	1.3	No	8	0	No	0.000...	Param 1 of 3
Calcium (mg/L)	GWC-10	43	n/a	9/18/2018	36.7	No	8	0	No	0.000...	Param 1 of 3
Calcium (mg/L)	GWC-10R	47	n/a	9/18/2018	45.4	No	8	0	No	0.000...	Param 1 of 3
Calcium (mg/L)	GWC-11	27	n/a	9/18/2018	17.6	No	8	0	No	0.000...	Param 1 of 3
Calcium (mg/L)	GWC-11R	37	n/a	9/18/2018	26.3	No	8	0	No	0.000...	Param 1 of 3
Calcium (mg/L)	GWC-12	10	n/a	9/18/2018	8.2	No	8	0	No	0.000...	Param 1 of 3
Calcium (mg/L)	GWC-13	75	n/a	9/19/2018	45.9	No	8	0	No	0.000...	Param 1 of 3
Calcium (mg/L)	GWC-14_14Z	48	n/a	9/19/2018	20	No	8	0	No	0.000...	Param 1 of 3
Calcium (mg/L)	GWC-15R	64	n/a	9/19/2018	35.7	No	8	0	sqrt(x)	0.000...	Param 1 of 3
Calcium (mg/L)	GWC-15_15Z	34	n/a	9/19/2018	23.7	No	8	0	x^2	0.000...	Param 1 of 3
Calcium (mg/L)	GWC-5	8.3	n/a	9/17/2018	2	No	8	0	No	0.000...	Param 1 of 3
Calcium (mg/L)	GWC-6	16	n/a	9/17/2018	12.4	No	7	0	No	0.000...	Param 1 of 3
Calcium (mg/L)	GWC-6RZ	15	n/a	9/17/2018	11	No	7	0	No	0.000...	Param 1 of 3
Calcium (mg/L)	GWC-7Z	27	n/a	9/18/2018	20.8	No	8	0	No	0.000...	Param 1 of 3
Calcium (mg/L)	GWC-8RR	26	n/a	9/18/2018	20.8	No	8	0	No	0.000...	Param 1 of 3
Calcium (mg/L)	GWC-8Z	27	n/a	9/18/2018	15.5	No	7	0	No	0.000...	Param 1 of 3
Calcium (mg/L)	GWC-9	37	n/a	9/18/2018	3.35	No	8	0	No	0.000...	Param 1 of 3
Calcium (mg/L)	GWA-4RZ	59	n/a	9/18/2018	48.1	No	8	0	No	0.000...	Param 1 of 3
Calcium (mg/L)	GWC-13R_13RZ	70	n/a	9/20/2018	47.5	No	8	0	No	0.000...	Param 1 of 3
Sulfate (mg/L)	GWA-1	2.6	n/a	9/17/2018	1.3	No	8	0	No	0.000...	Param 1 of 3
Sulfate (mg/L)	GWA-2	130	n/a	9/14/2018	7.7	No	8	0	No	0.000...	Param 1 of 3
Sulfate (mg/L)	GWA-2R	35	n/a	9/14/2018	2.1	No	8	0	ln(x)	0.000...	Param 1 of 3
Sulfate (mg/L)	GWA-3	1.2	n/a	9/17/2018	0.36	No	8	0	No	0.000...	Param 1 of 3
Sulfate (mg/L)	GWA-50	1.1	n/a	9/17/2018	0.47	No	8	12.5	No	0.000...	Param 1 of 3
Sulfate (mg/L)	GWA-50R	1.9	n/a	9/18/2018	0.87	No	8	12.5	No	0.000...	Param 1 of 3
Sulfate (mg/L)	GWC-10	2.3	n/a	9/18/2018	1.6	No	8	0	No	0.000...	Param 1 of 3
Sulfate (mg/L)	GWC-10R	2.1	n/a	9/18/2018	1.9	No	8	0	No	0.000...	Param 1 of 3
Sulfate (mg/L)	GWC-11	4	n/a	9/18/2018	2.8	No	8	0	No	0.000...	Param 1 of 3
Sulfate (mg/L)	GWC-11R	5	n/a	9/18/2018	2.6	No	8	0	No	0.000...	Param 1 of 3
Sulfate (mg/L)	GWC-12	0.83	n/a	9/18/2018	0.5ND	No	8	12.5	No	0.000...	Param 1 of 3
Sulfate (mg/L)	GWC-13	200	n/a	9/19/2018	64.5	No	8	0	No	0.000...	Param 1 of 3
Sulfate (mg/L)	GWC-14_14Z	6.2	n/a	9/19/2018	1.7	No	7	0	No	0.000...	Param 1 of 3
Sulfate (mg/L)	GWC-15R	11	n/a	9/19/2018	10.4	No	8	0	No	0.000...	Param 1 of 3
Sulfate (mg/L)	GWC-15_15Z	15	n/a	9/19/2018	2.6	No	8	0	No	0.000...	Param 1 of 3
Sulfate (mg/L)	GWC-5	2.3	n/a	9/17/2018	1.3	No	8	0	No	0.000...	Param 1 of 3
Sulfate (mg/L)	GWC-6	4.2	n/a	9/17/2018	2.2	No	8	12.5	No	0.000...	Param 1 of 3
Sulfate (mg/L)	GWC-6RZ	3.5	n/a	9/17/2018	2.5	No	8	12.5	No	0.000...	Param 1 of 3
Sulfate (mg/L)	GWC-7Z	2.2	n/a	9/18/2018	0.65	No	8	12.5	No	0.000...	Param 1 of 3
Sulfate (mg/L)	GWC-8RR	2.1	n/a	9/18/2018	0.9	No	8	12.5	No	0.000...	Param 1 of 3
Sulfate (mg/L)	GWC-8Z	4.1	n/a	9/18/2018	1.6	No	8	0	No	0.000...	Param 1 of 3
Sulfate (mg/L)	GWC-9	5	n/a	9/18/2018	2.6	No	8	12.5	No	0.000...	Param 1 of 3
Sulfate (mg/L)	GWA-4RZ	23	n/a	9/18/2018	22.8	No	8	0	No	0.000...	Param 1 of 3
Sulfate (mg/L)	GWC-13R_13RZ	86	n/a	9/20/2018	72.2	No	8	0	No	0.000...	Param 1 of 3
Total Dissolved Solids (mg/l)	GWA-1	180	n/a	9/17/2018	162	No	8	0	No	0.000...	Param 1 of 3
Total Dissolved Solids (mg/l)	GWA-2	310	n/a	9/14/2018	30	No	8	0	No	0.000...	Param 1 of 3

Intrawell Prediction Limit

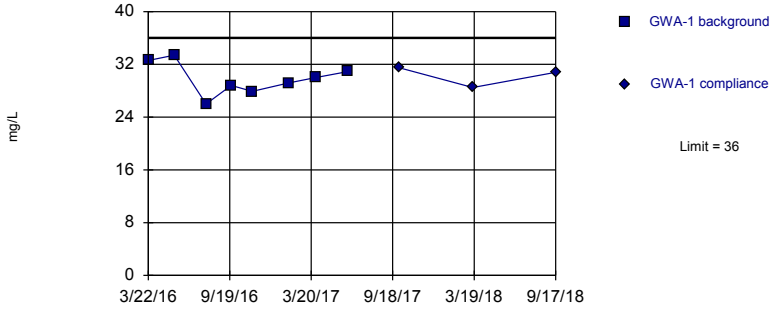
Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR Printed 12/3/2018, 10:36 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Total Dissolved Solids (mg/l)	GWA-2R	240	n/a	9/14/2018	103	No	8	0	No	0.000...	Param 1 of 3
Total Dissolved Solids (mg/l)	GWA-3	74	n/a	9/17/2018	32	No	8	37.5	No	0.000...	Param 1 of 3
Total Dissolved Solids (mg/l)	GWA-50	63	n/a	9/17/2018	38	No	8	37.5	No	0.000...	Param 1 of 3
Total Dissolved Solids (mg/l)	GWA-50R	130	n/a	9/18/2018	15	No	8	25	No	0.000...	Param 1 of 3
Total Dissolved Solids (mg/l)	GWC-10	190	n/a	9/18/2018	155	No	8	0	No	0.000...	Param 1 of 3
Total Dissolved Solids (mg/l)	GWC-10R	220	n/a	9/18/2018	155	No	8	0	No	0.000...	Param 1 of 3
Total Dissolved Solids (mg/l)	GWC-11	160	n/a	9/18/2018	106	No	8	0	No	0.000...	Param 1 of 3
Total Dissolved Solids (mg/l)	GWC-11R	170	n/a	9/18/2018	139	No	8	0	No	0.000...	Param 1 of 3
Total Dissolved Solids (mg/l)	GWC-12	120	n/a	9/18/2018	73	No	8	0	ln(x)	0.000...	Param 1 of 3
Total Dissolved Solids (mg/l)	GWC-13	440	n/a	9/19/2018	222	No	8	0	No	0.000...	Param 1 of 3
Total Dissolved Solids (mg/l)	GWC-14_14Z	320	n/a	9/19/2018	114	No	8	0	No	0.000...	Param 1 of 3
Total Dissolved Solids (mg/l)	GWC-15R	260	n/a	9/19/2018	181	No	8	0	No	0.000...	Param 1 of 3
Total Dissolved Solids (mg/l)	GWC-15_15Z	250	n/a	9/19/2018	138	No	8	0	No	0.000...	Param 1 of 3
Total Dissolved Solids (mg/l)	GWC-5	140	n/a	9/17/2018	38	No	8	12.5	No	0.000...	Param 1 of 3
Total Dissolved Solids (mg/l)	GWC-6	180	n/a	9/17/2018	77	No	8	0	No	0.000...	Param 1 of 3
Total Dissolved Solids (mg/l)	GWC-6RZ	180	n/a	9/17/2018	74	No	8	0	No	0.000...	Param 1 of 3
Total Dissolved Solids (mg/l)	GWC-7Z	180	n/a	9/18/2018	116	No	8	0	No	0.000...	Param 1 of 3
Total Dissolved Solids (mg/l)	GWC-8RR	130	n/a	9/18/2018	110	No	8	0	No	0.000...	Param 1 of 3
Total Dissolved Solids (mg/l)	GWC-8Z	170	n/a	9/18/2018	93	No	8	0	No	0.000...	Param 1 of 3
Total Dissolved Solids (mg/l)	GWC-9	210	n/a	9/18/2018	38	No	8	0	No	0.000...	Param 1 of 3
Total Dissolved Solids (mg/l)	GWA-4RZ	440	n/a	9/18/2018	227	No	8	0	No	0.000...	Param 1 of 3
Total Dissolved Solids (mg/l)	GWC-13R_13RZ	440	n/a	9/20/2018	297	No	8	0	No	0.000...	Param 1 of 3

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=29.85, Std. Dev.=2.433, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9812, critical = 0.749. Kappa = 2.468 (c=7, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Calcium Analysis Run 12/3/2018 10:23 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

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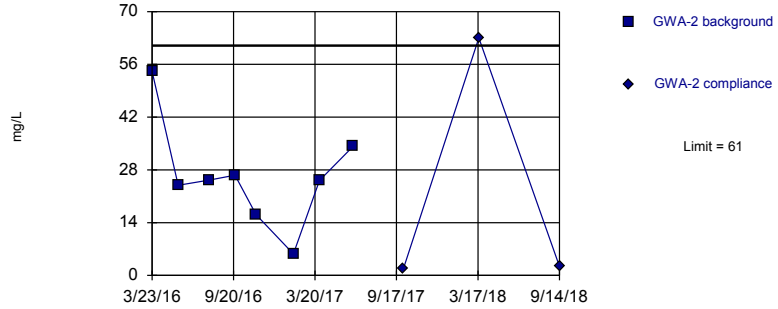
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=26.39, Std. Dev.=14, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9186, critical = 0.749. Kappa = 2.468 (c=7, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Calcium Analysis Run 12/3/2018 10:23 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

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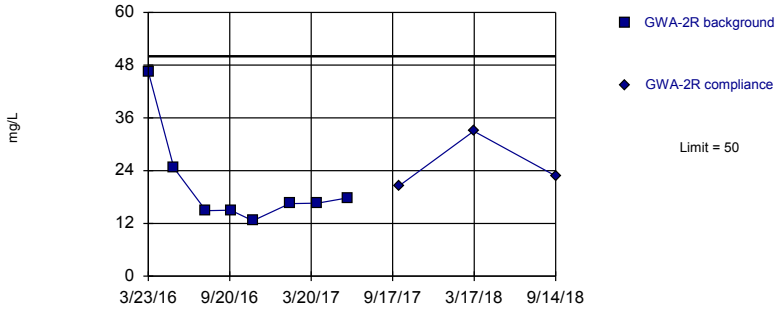
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube root transformation): Mean=2.683, Std. Dev.=0.4051, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7612, critical = 0.749. Kappa = 2.468 (c=7, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Calcium Analysis Run 12/3/2018 10:23 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

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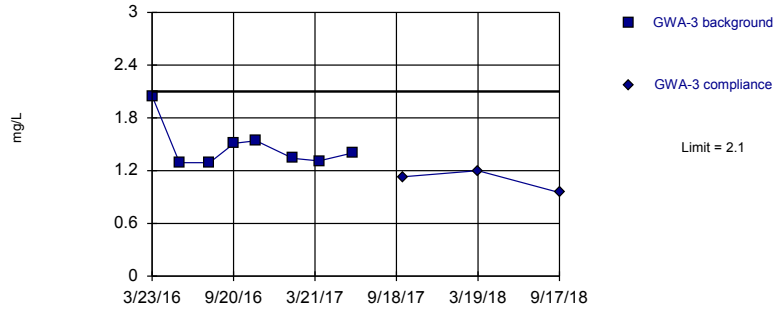
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square root transformation): Mean=1.207, Std. Dev.=0.09943, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7547, critical = 0.749. Kappa = 2.468 (c=7, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Calcium Analysis Run 12/3/2018 10:23 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 12/3/2018 10:36 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-1	GWA-1
3/22/2016	32.6	
5/19/2016	33.4	
7/29/2016	26	
9/23/2016	28.8	
11/9/2016	27.9	
1/30/2017	29.2	
3/30/2017	30	
6/9/2017	30.9	
10/2/2017		31.5
3/16/2018		28.5
9/17/2018		30.8

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 12/3/2018 10:36 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-2	GWA-2
3/23/2016	54.1	
5/20/2016	23.9	
7/29/2016	25.3	
9/23/2016	26.6	
11/9/2016	16.1	
1/31/2017	5.68	
3/30/2017	25.2	
6/12/2017	34.2	
10/2/2017		1.69
3/19/2018		63
9/14/2018		2.4

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 12/3/2018 10:36 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-2R	GWA-2R
3/23/2016	46.5	
5/19/2016	24.6	
7/29/2016	14.9	
9/22/2016	15	
11/10/2016	12.6	
1/31/2017	16.5	
4/3/2017	16.6	
6/9/2017	17.8	
10/2/2017		20.6
3/16/2018		33
9/14/2018		22.8 (J)

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 12/3/2018 10:36 AM View: cells_1&2_AppIII_intrawell

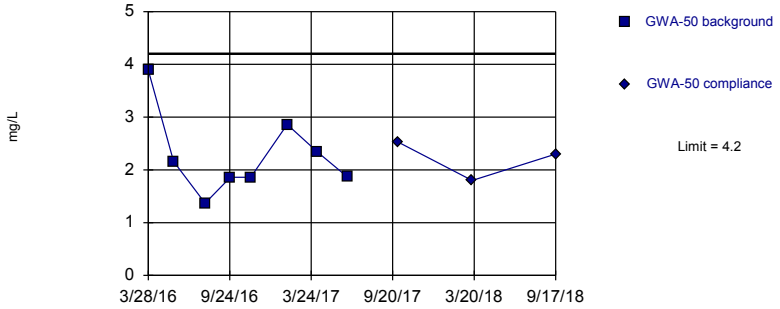
Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-3	GWA-3
3/23/2016	2.05	
5/23/2016	1.29	
7/29/2016	1.29	
9/22/2016	1.51	
11/10/2016	1.54	
1/31/2017	1.34	
3/30/2017	1.31	
6/12/2017	1.4	
10/4/2017		1.13
3/19/2018		1.2
9/17/2018		0.95

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=2.276, Std. Dev.=0.7833, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8775, critical = 0.749. Kappa = 2.468 (c=7, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Calcium Analysis Run 12/3/2018 10:23 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

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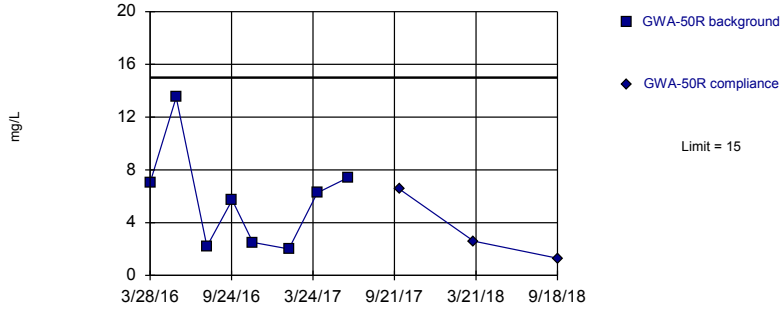
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=5.834, Std. Dev.=3.816, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8729, critical = 0.749. Kappa = 2.468 (c=7, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Calcium Analysis Run 12/3/2018 10:23 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

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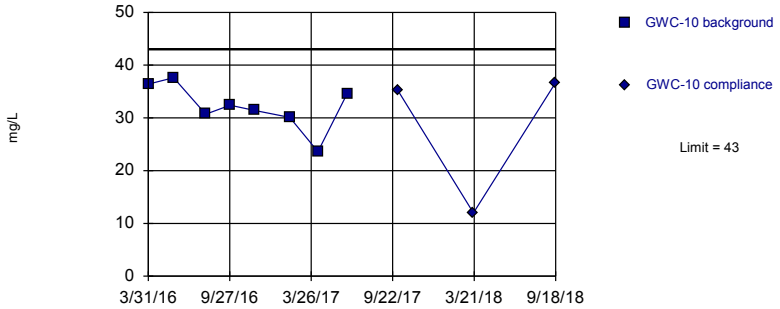
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=32.1, Std. Dev.=4.372, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.938, critical = 0.749. Kappa = 2.468 (c=7, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Calcium Analysis Run 12/3/2018 10:24 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

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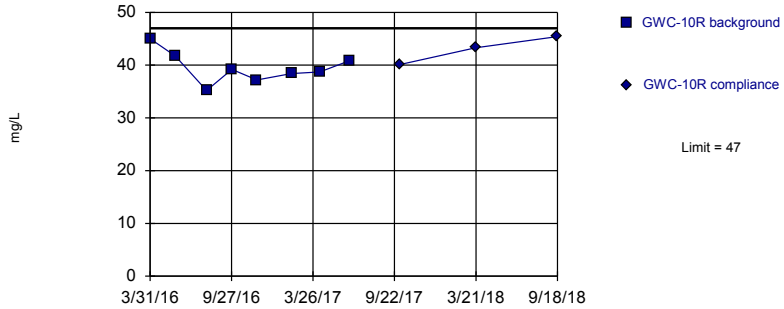
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=39.53, Std. Dev.=2.988, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9738, critical = 0.749. Kappa = 2.468 (c=7, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Calcium Analysis Run 12/3/2018 10:24 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 12/3/2018 10:36 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50	GWA-50
3/28/2016	3.89	
5/23/2016	2.16	
8/1/2016	1.37	
9/26/2016	1.86	
11/10/2016	1.86	
1/30/2017	2.86	
4/7/2017	2.34	
6/12/2017	1.87	
10/2/2017		2.53
3/16/2018		1.8
9/17/2018		2.3

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 12/3/2018 10:36 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50R	GWA-50R
3/28/2016	7.04	
5/25/2016	13.5	
8/1/2016	2.2	
9/26/2016	5.72	
11/11/2016	2.5	
1/30/2017	2.01	
4/3/2017	6.26	
6/12/2017	7.44	
10/2/2017		6.55
3/16/2018		2.6
9/18/2018		1.3

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 12/3/2018 10:36 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-10	GWC-10
3/31/2016	36.4	
5/26/2016	37.6	
8/5/2016	30.7	
9/28/2016	32.4	
11/22/2016	31.4	
2/7/2017	30.1	
4/10/2017	23.6	
6/14/2017	34.6	
10/4/2017		35.2
3/20/2018		12 (J)
9/18/2018		36.7

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 12/3/2018 10:37 AM View: cells_1&2_AppIII_intrawell

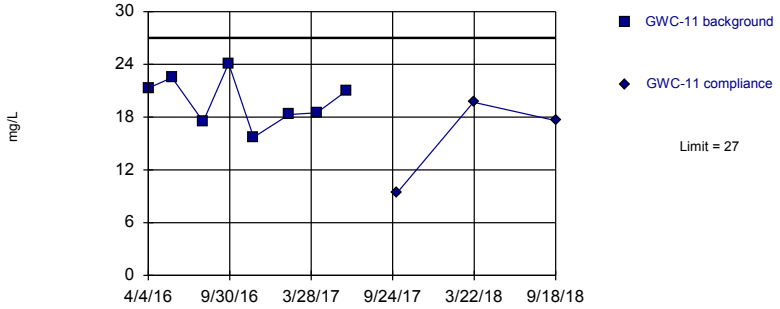
Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-10R	GWC-10R
3/31/2016	45	
5/26/2016	41.7	
8/3/2016	35.2	
9/28/2016	39.2	
11/22/2016	37.2	
2/7/2017	38.4	
4/10/2017	38.7	
6/14/2017	40.8	
10/4/2017		40.1
3/21/2018		43.3
9/18/2018		45.4

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=19.86, Std. Dev.=2.815, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9681, critical = 0.749. Kappa = 2.468 (c=7, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Calcium Analysis Run 12/3/2018 10:24 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

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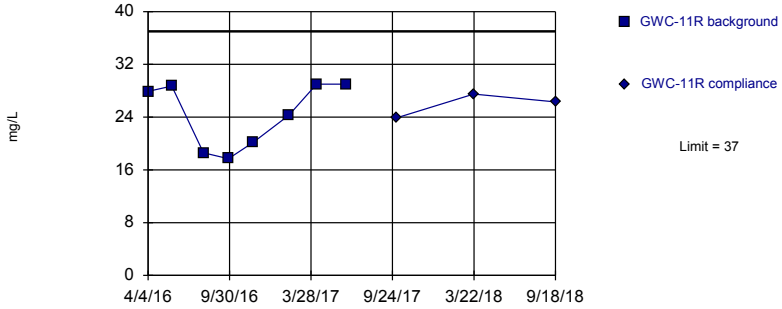
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=24.43, Std. Dev.=4.917, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8246, critical = 0.749. Kappa = 2.468 (c=7, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Calcium Analysis Run 12/3/2018 10:24 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

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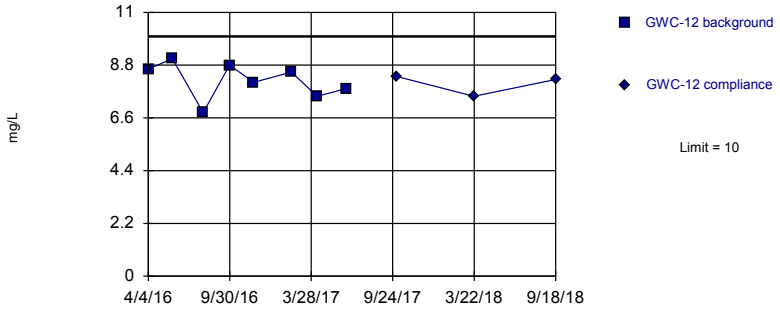
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=8.154, Std. Dev.=0.7497, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.955, critical = 0.749. Kappa = 2.468 (c=7, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Calcium Analysis Run 12/3/2018 10:24 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

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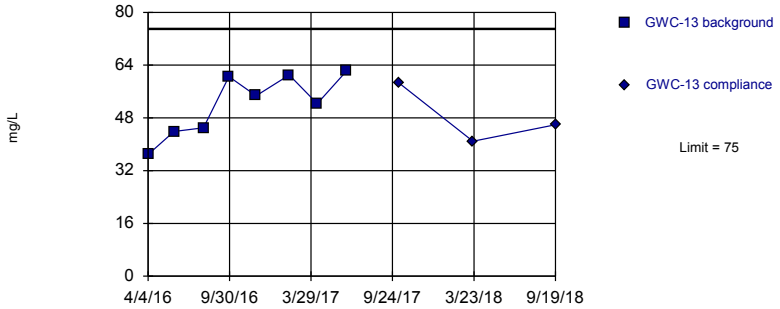
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=52.08, Std. Dev.=9.33, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9156, critical = 0.749. Kappa = 2.468 (c=7, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Calcium Analysis Run 12/3/2018 10:24 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 12/3/2018 10:37 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-11	GWC-11
4/4/2016	21.3	
5/26/2016	22.5	
8/3/2016	17.5	
9/28/2016	24.1	
11/22/2016	15.7	
2/8/2017	18.3	
4/10/2017	18.5	
6/15/2017	21	
10/4/2017		9.4
3/21/2018		19.7 (J)
9/18/2018		17.6 (J)

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 12/3/2018 10:37 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-11R	GWC-11R
4/4/2016	27.9	
5/26/2016	28.7	
8/4/2016	18.6	
9/28/2016	17.7	
11/22/2016	20.2	
2/8/2017	24.3	
4/10/2017	29	
6/15/2017	29	
10/4/2017		23.9
3/22/2018		27.5
9/18/2018		26.3

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 12/3/2018 10:37 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-12	GWC-12
4/4/2016	8.63	
5/27/2016	9.07	
8/3/2016	6.82	
9/30/2016	8.8	
11/22/2016	8.08	
2/13/2017	8.51	
4/11/2017	7.5	
6/14/2017	7.82	
10/4/2017		8.32
3/22/2018		7.5
9/18/2018		8.2

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 12/3/2018 10:37 AM View: cells_1&2_AppIII_intrawell

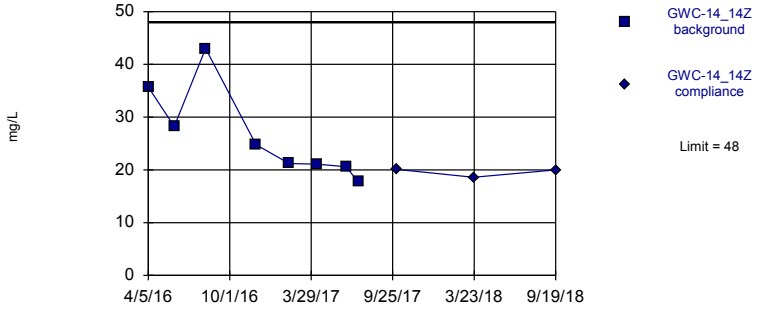
Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-13	GWC-13
4/4/2016	36.9	
5/31/2016	43.9	
8/4/2016	45	
9/29/2016	60.5	
11/28/2016	54.7	
2/9/2017	61	
4/12/2017	52.3	
6/16/2017	62.3	
10/9/2017		58.6
3/21/2018		40.9
9/19/2018		45.9

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=26.54, Std. Dev.=8.719, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.871, critical = 0.749. Kappa = 2.468 (c=7, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004426.

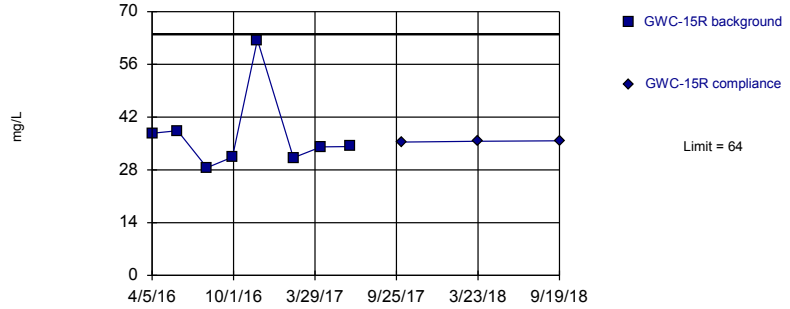
Constituent: Calcium Analysis Run 12/3/2018 10:25 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square root transformation): Mean=6.058, Std. Dev.=0.7987, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7543, critical = 0.749. Kappa = 2.468 (c=7, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004426.

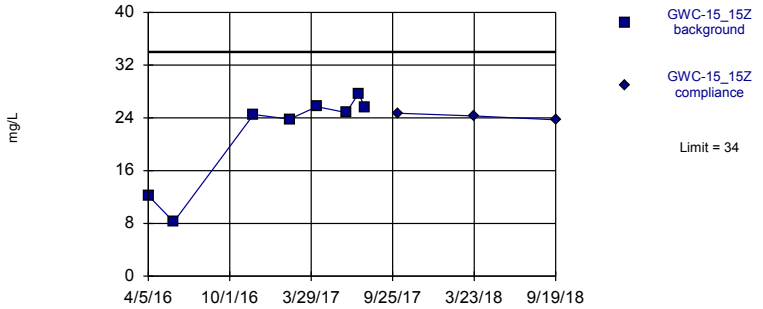
Constituent: Calcium Analysis Run 12/3/2018 10:25 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square transformation): Mean=510.2, Std. Dev.=255.9, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7895, critical = 0.749. Kappa = 2.468 (c=7, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004426.

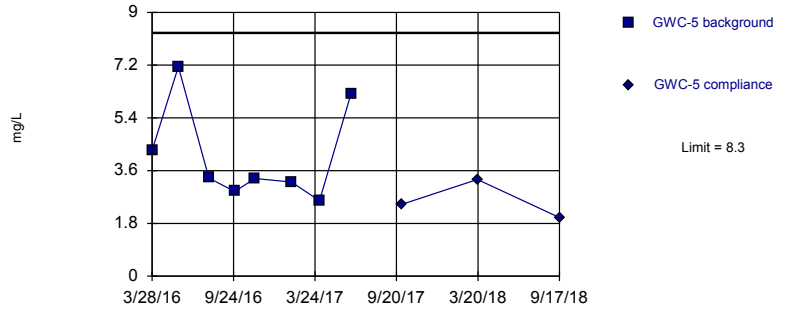
Constituent: Calcium Analysis Run 12/3/2018 10:25 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=4.126, Std. Dev.=1.672, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8232, critical = 0.749. Kappa = 2.468 (c=7, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Calcium Analysis Run 12/3/2018 10:25 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 12/3/2018 10:37 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-14_14Z	GWC-14_14Z
4/5/2016	35.7	
6/1/2016	28.2	
8/9/2016	43	
11/28/2016	24.8	
2/9/2017	21.2	
4/11/2017	21.1	
6/14/2017	20.6	
7/12/2017	17.7	
10/5/2017		20.1
3/22/2018		18.6 (J)
9/19/2018		20 (J)

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 12/3/2018 10:37 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-15R	GWC-15R
4/5/2016	37.7	
5/31/2016	38.4	
8/4/2016	28.6	
9/29/2016	31.4	
11/23/2016	62.5	
2/10/2017	31.2	
4/12/2017	34.1	
6/15/2017	34.2	
10/6/2017		35.4
3/23/2018		35.6
9/19/2018		35.7

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 12/3/2018 10:37 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-15_15Z	GWC-15_15Z
4/5/2016	12.2	
5/31/2016	8.24	
11/23/2016	24.5	
2/10/2017	23.8	
4/11/2017	25.7	
6/15/2017	24.8	
7/12/2017	27.7	
7/26/2017	25.6	
10/6/2017		24.7
3/23/2018		24.3 (J)
9/19/2018		23.7 (J)

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 12/3/2018 10:37 AM View: cells_1&2_AppIII_intrawell

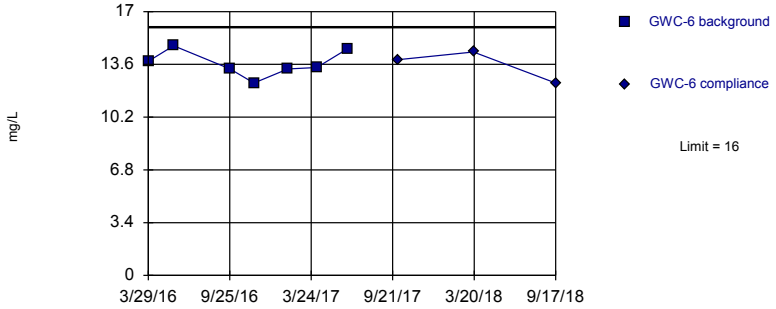
Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-5	GWC-5
3/28/2016	4.29	
5/25/2016	7.15	
8/1/2016	3.35	
9/27/2016	2.89	
11/11/2016	3.33	
1/31/2017	3.21	
4/3/2017	2.57	
6/12/2017	6.22	
10/3/2017		2.45
3/19/2018		3.3
9/17/2018		2

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=13.66, Std. Dev.=0.8284, n=7. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9331, critical = 0.73. Kappa = 2.789 (c=7, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Calcium Analysis Run 12/3/2018 10:25 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

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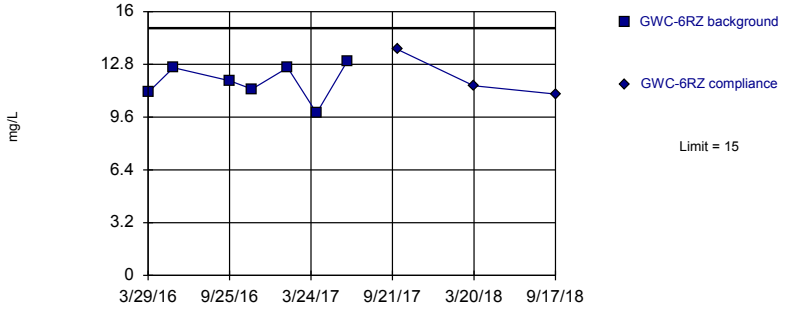
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=11.75, Std. Dev.=1.102, n=7. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9328, critical = 0.73. Kappa = 2.789 (c=7, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Calcium Analysis Run 12/3/2018 10:25 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

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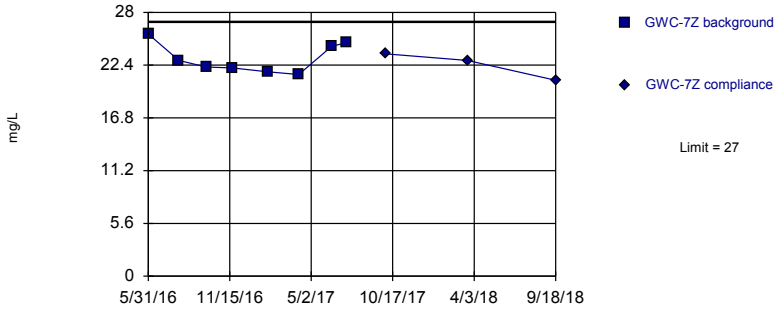
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=23.15, Std. Dev.=1.604, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8983, critical = 0.749. Kappa = 2.468 (c=7, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Calcium Analysis Run 12/3/2018 10:25 AM View: cells_1&2_AppIII_intrawell

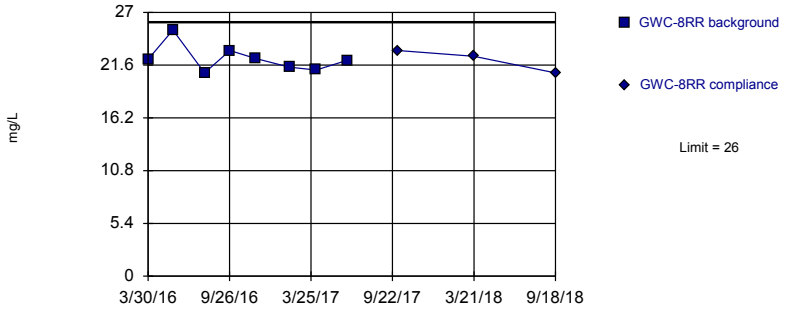
Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

Sanitas™ v.9.5.32 Sanitas software licensed to AMEC. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=22.28, Std. Dev.=1.394, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8797, critical = 0.749. Kappa = 2.468 (c=7, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Calcium Analysis Run 12/3/2018 10:25 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 12/3/2018 10:37 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-6	GWC-6
3/29/2016	13.8	
5/24/2016	14.8	
9/26/2016	13.3	
11/18/2016	12.4	
2/1/2017	13.3	
4/6/2017	13.4	
6/13/2017	14.6	
10/3/2017		13.9
3/19/2018		14.4 (J)
9/17/2018		12.4 (J)

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 12/3/2018 10:37 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-6RZ	GWC-6RZ
3/29/2016	11.1	
5/24/2016	12.6	
9/26/2016	11.8	
11/14/2016	11.3	
2/1/2017	12.6	
4/6/2017	9.84	
6/13/2017	13	
10/3/2017		13.7
3/20/2018		11.5 (J)
9/17/2018		11 (J)

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 12/3/2018 10:37 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-7Z	GWC-7Z
5/31/2016	25.7	
8/2/2016	22.9	
9/27/2016	22.2	
11/21/2016	22.1	
2/1/2017	21.7	
4/6/2017	21.4	
6/13/2017	24.4	
7/14/2017	24.8	
10/3/2017		23.6
3/20/2018		22.9 (J)
9/18/2018		20.8 (J)

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 12/3/2018 10:37 AM View: cells_1&2_AppIII_intrawell

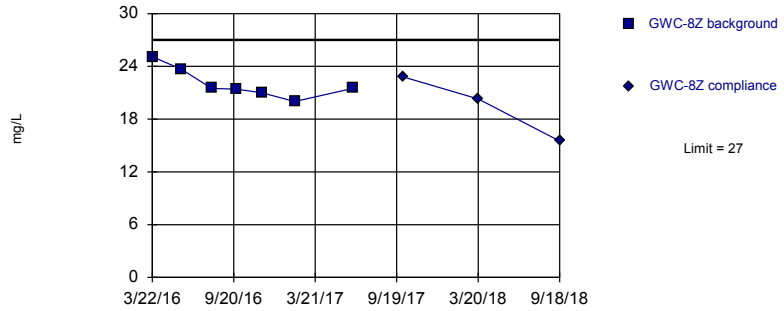
Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-8RR	GWC-8RR
3/30/2016	22.2	
5/24/2016	25.2	
8/2/2016	20.8	
9/27/2016	23.1	
11/22/2016	22.3	
2/6/2017	21.4	
4/6/2017	21.1	
6/14/2017	22.1	
10/4/2017		23.1
3/21/2018		22.5 (J)
9/18/2018		20.8 (J)

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=22.03, Std. Dev.=1.749, n=7. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8766, critical = 0.73. Kappa = 2.789 (c=7, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004426.

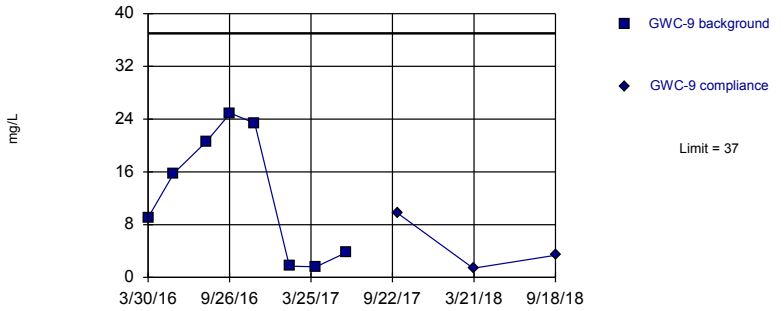
Constituent: Calcium Analysis Run 12/3/2018 10:25 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=12.6, Std. Dev.=9.783, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8779, critical = 0.749. Kappa = 2.468 (c=7, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004426.

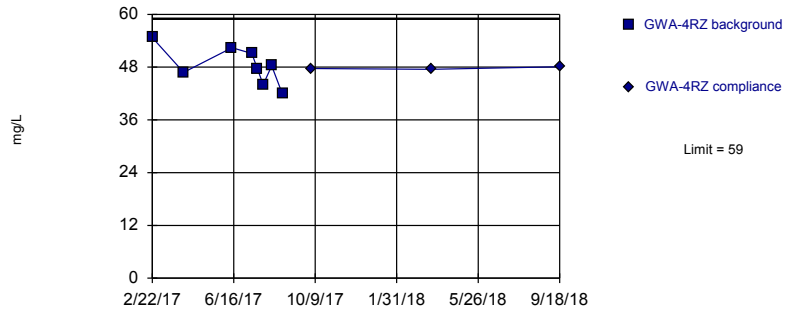
Constituent: Calcium Analysis Run 12/3/2018 10:26 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=48.34, Std. Dev.=4.275, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9802, critical = 0.749. Kappa = 2.468 (c=7, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004426.

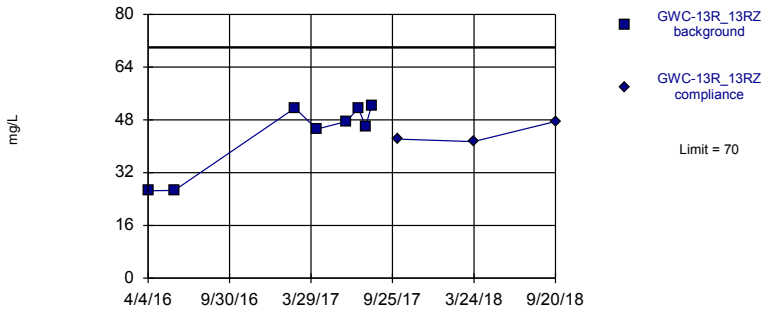
Constituent: Calcium Analysis Run 12/3/2018 10:26 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=43.4, Std. Dev.=10.73, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7541, critical = 0.749. Kappa = 2.468 (c=7, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Calcium Analysis Run 12/3/2018 10:26 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 12/3/2018 10:37 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-8Z	GWC-8Z
3/22/2016	25.1	
5/25/2016	23.7	
8/2/2016	21.5	
9/26/2016	21.4	
11/21/2016	21	
2/3/2017	20	
6/13/2017	21.5	
10/3/2017		22.8
3/20/2018		20.3 (J)
9/18/2018		15.5 (J)

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 12/3/2018 10:37 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-9	GWC-9
3/30/2016	9.07	
5/26/2016	15.8	
8/5/2016	20.5	
9/28/2016	24.9	
11/21/2016	23.4	
2/6/2017	1.7	
4/6/2017	1.6	
6/13/2017	3.82	
10/3/2017		9.77
3/20/2018		1.4
9/18/2018		3.35 (D)

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 12/3/2018 10:37 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-4RZ	GWA-4RZ
2/22/2017	54.7	
4/7/2017	46.8	
6/14/2017	52.4	
7/12/2017	51.1	
7/20/2017	47.5	
7/28/2017	44	
8/9/2017	48.3	
8/24/2017	41.9	
10/3/2017		47.7
3/21/2018		47.5
9/18/2018		48.1

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 12/3/2018 10:37 AM View: cells_1&2_AppIII_intrawell

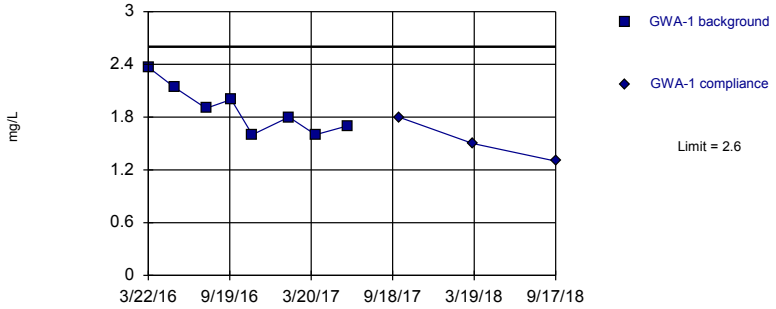
Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-13R_13RZ	GWC-13R_13RZ
4/4/2016	26.5	
6/1/2016	26.6	
2/22/2017	51.6	
4/11/2017	45.2	
6/16/2017	47.5	
7/12/2017	51.6	
7/28/2017	46	
8/10/2017	52.2	
10/6/2017		42.2
3/23/2018		41.4
9/20/2018		47.5

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=1.889, Std. Dev.=0.2715, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9329, critical = 0.749. Kappa = 2.468 (c=7, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Sulfate Analysis Run 12/3/2018 10:26 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

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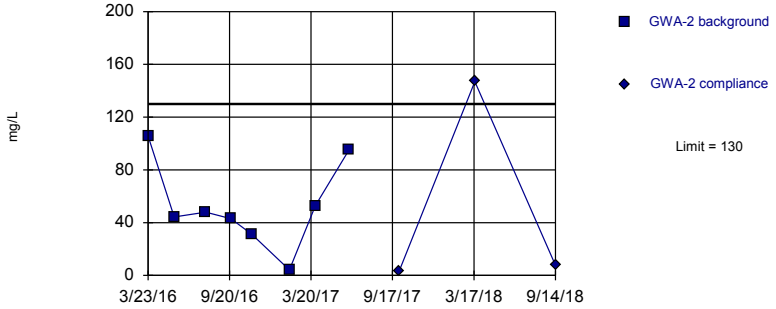
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=53.01, Std. Dev.=32.93, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9192, critical = 0.749. Kappa = 2.468 (c=7, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Sulfate Analysis Run 12/3/2018 10:26 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

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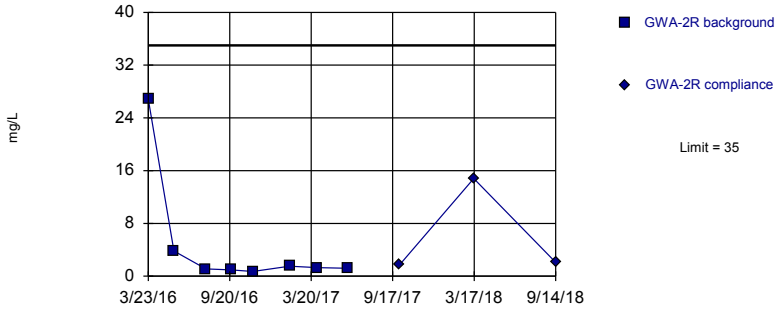
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=0.6504, Std. Dev.=1.172, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7497, critical = 0.749. Kappa = 2.468 (c=7, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Sulfate Analysis Run 12/3/2018 10:26 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

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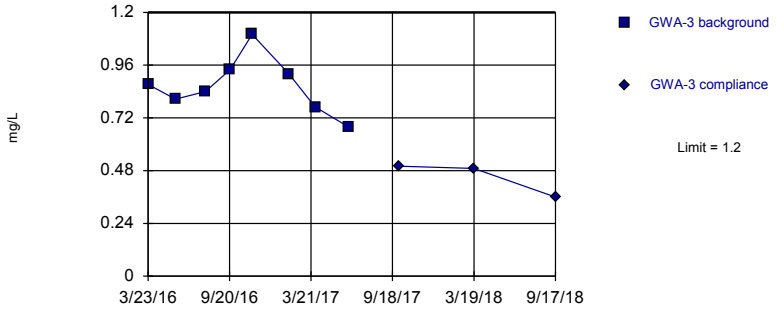
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.8659, Std. Dev.=0.1262, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9766, critical = 0.749. Kappa = 2.468 (c=7, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Sulfate Analysis Run 12/3/2018 10:26 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 12/3/2018 10:37 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-1	GWA-1
3/22/2016	2.3685	
5/19/2016	2.14	
7/29/2016	1.9	
9/23/2016	2	
11/9/2016	1.6	
1/30/2017	1.8	
3/30/2017	1.6	
6/9/2017	1.7	
10/2/2017		1.8
3/16/2018		1.5
9/17/2018		1.3 (D)

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 12/3/2018 10:37 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-2	GWA-2
3/23/2016	105.552	
5/20/2016	44.3	
7/29/2016	48	
9/23/2016	43	
11/9/2016	31	
1/31/2017	4.2	
3/30/2017	53	
6/12/2017	95	
10/2/2017		3.5
3/19/2018		147
9/14/2018		7.7

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 12/3/2018 10:37 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-2R	GWA-2R
3/23/2016	26.8249	
5/19/2016	3.81	
7/29/2016	1.1	
9/22/2016	0.96 (J)	
11/10/2016	0.72 (J)	
1/31/2017	1.5	
4/3/2017	1.3	
6/9/2017	1.2	
10/2/2017		1.7
3/16/2018		14.8 (J)
9/14/2018		2.1

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 12/3/2018 10:37 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-3	GWA-3
3/23/2016	0.8724 (J)	
5/23/2016	0.805 (J)	
7/29/2016	0.84 (J)	
9/22/2016	0.94 (J)	
11/10/2016	1.1	
1/31/2017	0.92 (J)	
3/30/2017	0.77 (J)	
6/12/2017	0.68 (J)	
10/4/2017		0.5 (J)
3/19/2018		0.49 (J)
9/17/2018		0.36 (J)

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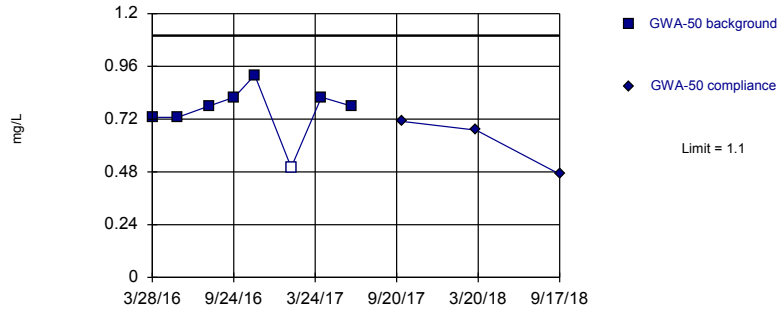
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.7595, Std. Dev.=0.1214, n=8, 12.5% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8677, critical = 0.749. Kappa = 2.468 (c=7, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004426.

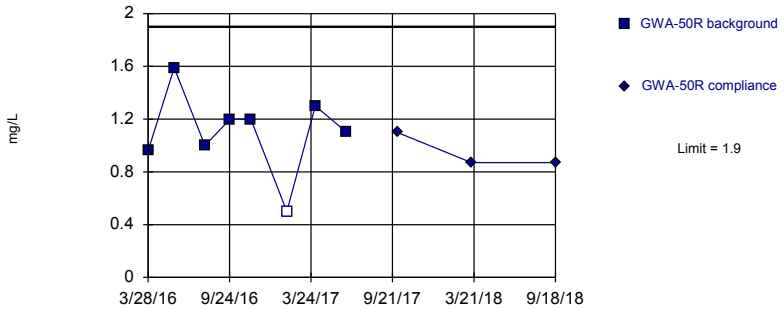
Constituent: Sulfate Analysis Run 12/3/2018 10:26 AM View: cells_1&2_AppIII_intrawell
Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

Sanitas™ v.9.5.32 Sanitas software licensed to AMEC. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=1.106, Std. Dev.=0.3139, n=8, 12.5% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9466, critical = 0.749. Kappa = 2.468 (c=7, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Sulfate Analysis Run 12/3/2018 10:26 AM View: cells_1&2_AppIII_intrawell
Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

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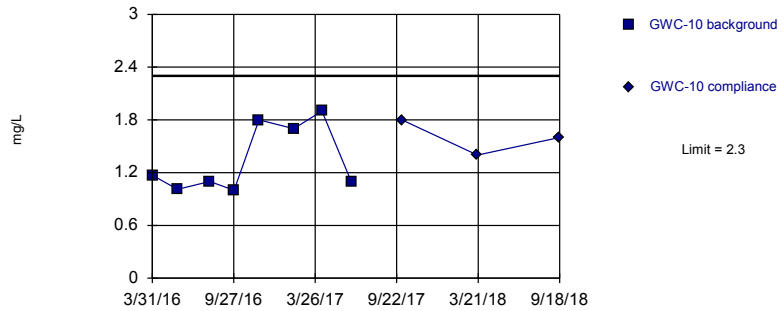
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=1.348, Std. Dev.=0.3823, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7974, critical = 0.749. Kappa = 2.468 (c=7, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Sulfate Analysis Run 12/3/2018 10:26 AM View: cells_1&2_AppIII_intrawell
Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

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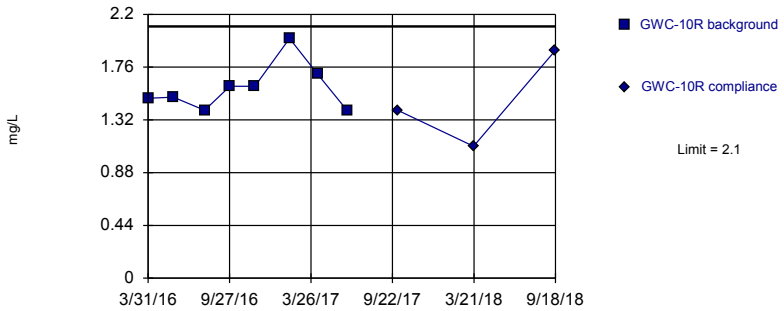
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=1.589, Std. Dev.=0.1953, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8645, critical = 0.749. Kappa = 2.468 (c=7, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Sulfate Analysis Run 12/3/2018 10:27 AM View: cells_1&2_AppIII_intrawell
Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 12/3/2018 10:37 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50	GWA-50
3/28/2016	0.7283 (J)	
5/23/2016	0.728 (J)	
8/1/2016	0.78 (J)	
9/26/2016	0.82 (J)	
11/10/2016	0.92 (J)	
1/30/2017	<1 (*)	
4/7/2017	0.82 (J)	
6/12/2017	0.78 (J)	
10/2/2017		0.71 (J)
3/16/2018		0.67 (J)
9/17/2018		0.47 (J)

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 12/3/2018 10:37 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50R	GWA-50R
3/28/2016	0.9594 (J)	
5/25/2016	1.59	
8/1/2016	1	
9/26/2016	1.2	
11/11/2016	1.2	
1/30/2017	<1 (*)	
4/3/2017	1.3	
6/12/2017	1.1	
10/2/2017		1.1
3/16/2018		0.87 (J)
9/18/2018		0.87 (J)

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 12/3/2018 10:37 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-10	GWC-10
3/31/2016	1.17	
5/26/2016	1.01	
8/5/2016	1.1	
9/28/2016	1	
11/22/2016	1.8	
2/7/2017	1.7	
4/10/2017	1.9	
6/14/2017	1.1	
10/4/2017		1.8
3/20/2018		1.4
9/18/2018		1.6

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 12/3/2018 10:37 AM View: cells_1&2_AppIII_intrawell

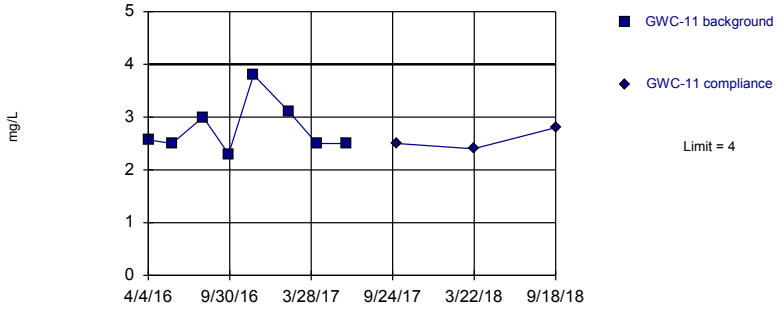
Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-10R	GWC-10R
3/31/2016	1.5	
5/26/2016	1.51	
8/3/2016	1.4	
9/28/2016	1.6	
11/22/2016	1.6	
2/7/2017	2	
4/10/2017	1.7	
6/14/2017	1.4	
10/4/2017		1.4
3/21/2018		1.1
9/18/2018		1.9

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=2.784, Std. Dev.=0.4929, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8308, critical = 0.749. Kappa = 2.468 (c=7, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004426.

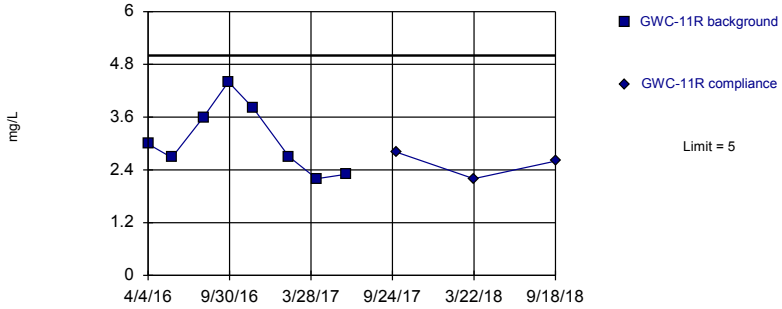
Constituent: Sulfate Analysis Run 12/3/2018 10:27 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=3.084, Std. Dev.=0.777, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9301, critical = 0.749. Kappa = 2.468 (c=7, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Sulfate Analysis Run 12/3/2018 10:27 AM View: cells_1&2_AppIII_intrawell

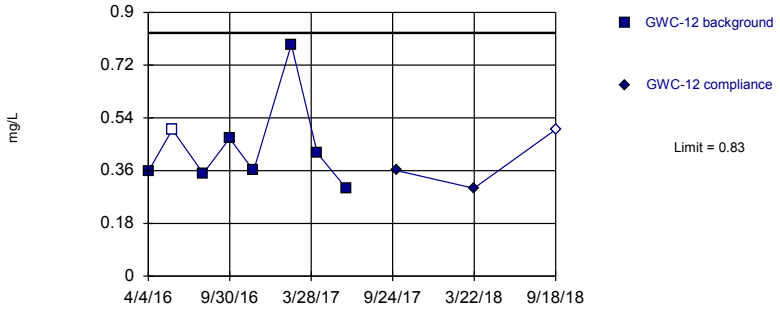
Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.4434, Std. Dev.=0.155, n=8, 12.5% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8006, critical = 0.749. Kappa = 2.468 (c=7, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004426.

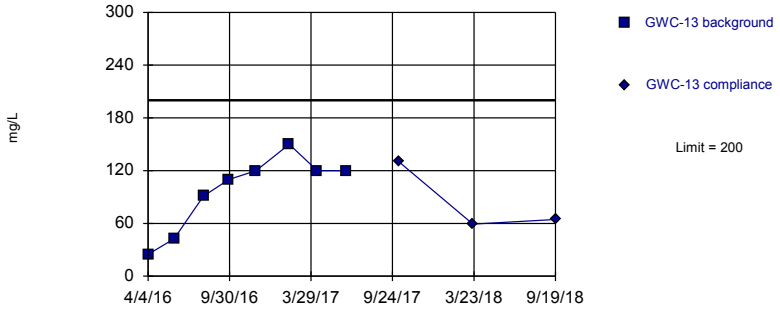
Constituent: Sulfate Analysis Run 12/3/2018 10:27 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=97.29, Std. Dev.=42.73, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8774, critical = 0.749. Kappa = 2.468 (c=7, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Sulfate Analysis Run 12/3/2018 10:27 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 12/3/2018 10:37 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-11	GWC-11
4/4/2016	2.57	
5/26/2016	2.5	
8/3/2016	3	
9/28/2016	2.3	
11/22/2016	3.8	
2/8/2017	3.1	
4/10/2017	2.5	
6/15/2017	2.5	
10/4/2017		2.5
3/21/2018		2.4
9/18/2018		2.8

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 12/3/2018 10:37 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-11R	GWC-11R
4/4/2016	2.99	
5/26/2016	2.68	
8/4/2016	3.6	
9/28/2016	4.4	
11/22/2016	3.8	
2/8/2017	2.7	
4/10/2017	2.2	
6/15/2017	2.3	
10/4/2017		2.8
3/22/2018		2.2
9/18/2018		2.6

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 12/3/2018 10:37 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-12	GWC-12
4/4/2016	0.3574 (J)	
5/27/2016	<1	
8/3/2016	0.35 (J)	
9/30/2016	0.47 (J)	
11/22/2016	0.36 (J)	
2/13/2017	0.79 (J)	
4/11/2017	0.42 (J)	
6/14/2017	0.3 (J)	
10/4/2017		0.36 (J)
3/22/2018		0.3 (J)
9/18/2018		<1

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 12/3/2018 10:37 AM View: cells_1&2_AppIII_intrawell

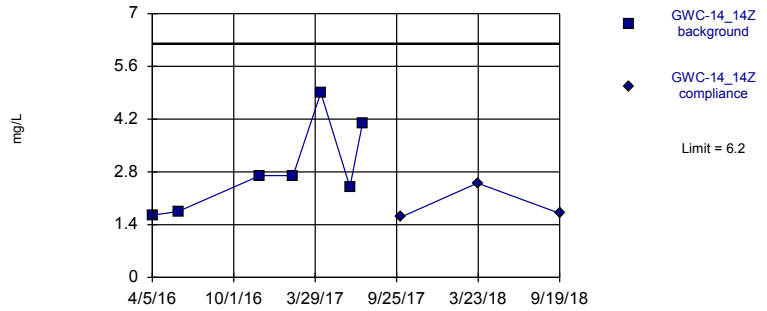
Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-13	GWC-13
4/4/2016	24.8	
5/31/2016	42.5	
8/4/2016	91	
9/29/2016	110	
11/28/2016	120	
2/9/2017	150	
4/12/2017	120	
6/16/2017	120	
10/9/2017		130
3/21/2018		59.1
9/19/2018		64.5

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=2.886, Std. Dev.=1.201, n=7. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8931, critical = 0.73. Kappa = 2.789 (c=7, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Sulfate Analysis Run 12/3/2018 10:27 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

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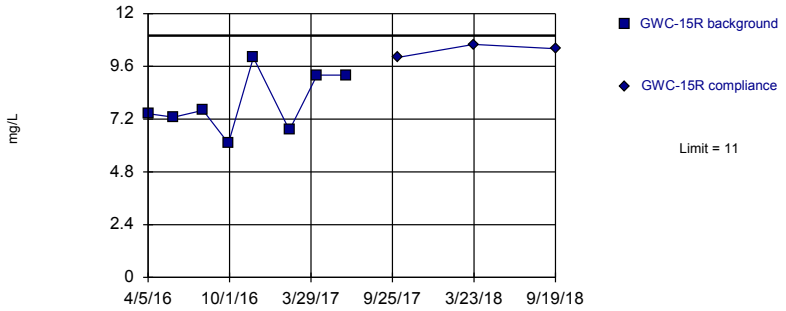
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=7.943, Std. Dev.=1.369, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9297, critical = 0.749. Kappa = 2.468 (c=7, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Sulfate Analysis Run 12/3/2018 10:27 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

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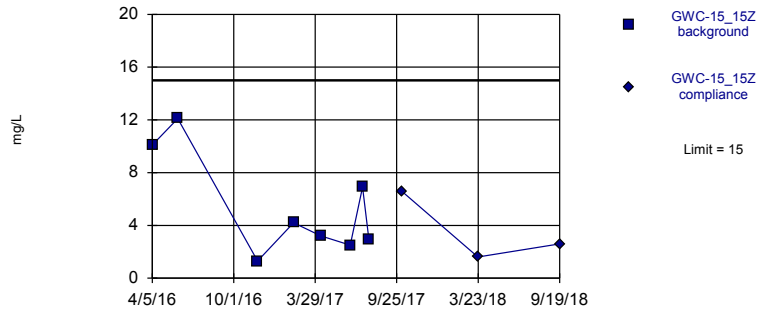
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=5.4, Std. Dev.=3.909, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8784, critical = 0.749. Kappa = 2.468 (c=7, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Sulfate Analysis Run 12/3/2018 10:27 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

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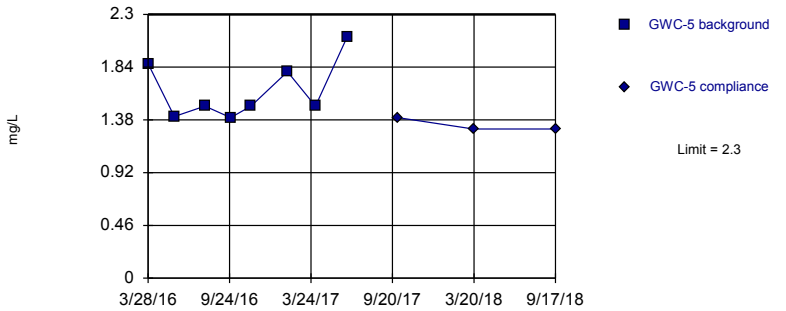
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=1.635, Std. Dev.=0.2561, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8411, critical = 0.749. Kappa = 2.468 (c=7, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Sulfate Analysis Run 12/3/2018 10:27 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 12/3/2018 10:37 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-14_14Z	GWC-14_14Z
4/5/2016	1.65	
6/1/2016	1.75	
11/28/2016	2.7	
2/9/2017	2.7	
4/11/2017	4.9	
6/14/2017	2.4	
7/12/2017	4.1	
10/5/2017		1.6
3/22/2018		2.5
9/19/2018		1.7

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 12/3/2018 10:37 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-15R	GWC-15R
4/5/2016	7.45	
5/31/2016	7.29	
8/4/2016	7.6	
9/29/2016	6.1	
11/23/2016	10	
2/10/2017	6.7	
4/12/2017	9.2	
6/15/2017	9.2	
10/6/2017		10
3/23/2018		10.6
9/19/2018		10.4

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 12/3/2018 10:37 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-15_15Z	GWC-15_15Z
4/5/2016	10.1	
5/31/2016	12.1	
11/23/2016	1.3	
2/10/2017	4.2	
4/11/2017	3.2	
6/15/2017	2.5	
7/12/2017	6.9	
7/26/2017	2.9	
10/6/2017		6.6
3/23/2018		1.6
9/19/2018		2.6

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 12/3/2018 10:37 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-5	GWC-5
3/28/2016	1.87	
5/25/2016	1.41	
8/1/2016	1.5	
9/27/2016	1.4	
11/11/2016	1.5	
1/31/2017	1.8	
4/3/2017	1.5	
6/12/2017	2.1	
10/3/2017		1.4
3/19/2018		1.3
9/17/2018		1.3

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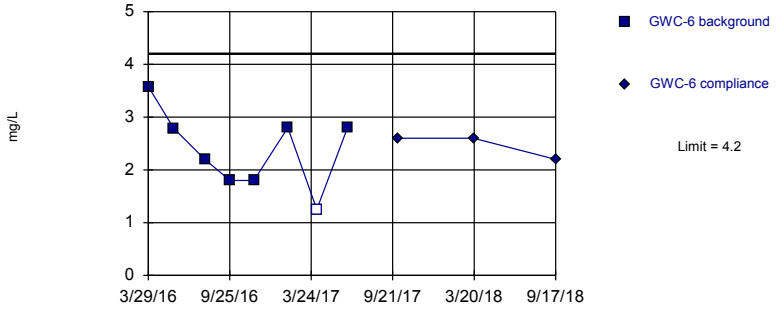
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=2.378, Std. Dev.=0.7505, n=8, 12.5% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9485, critical = 0.749. Kappa = 2.468 (c=7, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Sulfate Analysis Run 12/3/2018 10:28 AM View: cells_1&2_AppIII_intrawell
Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

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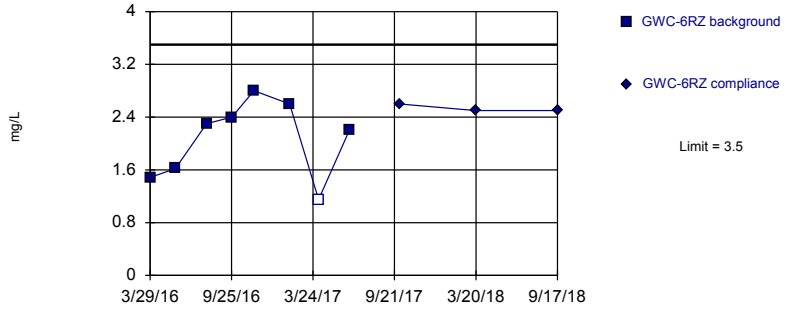
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=2.07, Std. Dev.=0.5834, n=8, 12.5% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9351, critical = 0.749. Kappa = 2.468 (c=7, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Sulfate Analysis Run 12/3/2018 10:28 AM View: cells_1&2_AppIII_intrawell
Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

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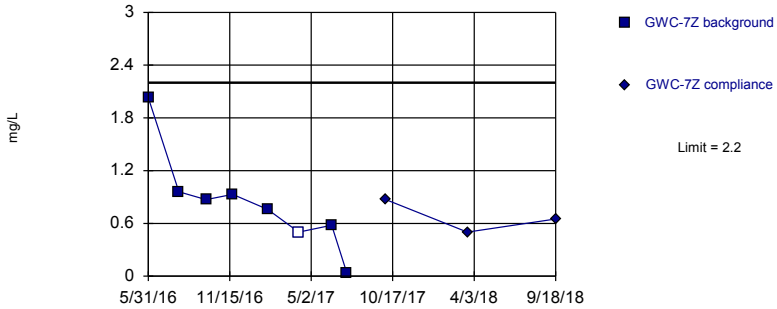
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.8338, Std. Dev.=0.5693, n=8, 12.5% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8851, critical = 0.749. Kappa = 2.468 (c=7, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Sulfate Analysis Run 12/3/2018 10:28 AM View: cells_1&2_AppIII_intrawell
Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

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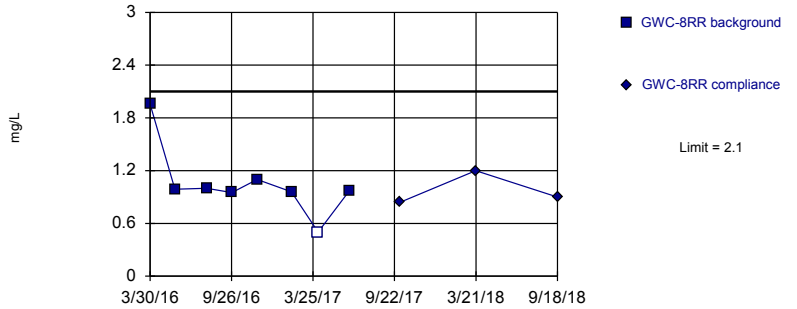
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=1.053, Std. Dev.=0.4059, n=8, 12.5% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.759, critical = 0.749. Kappa = 2.468 (c=7, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Sulfate Analysis Run 12/3/2018 10:28 AM View: cells_1&2_AppIII_intrawell
Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 12/3/2018 10:37 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-6	GWC-6
3/29/2016	3.5801	
5/24/2016	2.79	
8/1/2016	2.2	
9/26/2016	1.8	
11/18/2016	1.8	
2/1/2017	2.8	
4/6/2017	<2.5 (*)	
6/13/2017	2.8	
10/3/2017		2.6
3/19/2018		2.6
9/17/2018		2.2

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 12/3/2018 10:37 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-6RZ	GWC-6RZ
3/29/2016	1.4863	
5/24/2016	1.62	
8/1/2016	2.3	
9/26/2016	2.4	
11/14/2016	2.8	
2/1/2017	2.6	
4/6/2017	<2.3 (*)	
6/13/2017	2.2	
10/3/2017		2.6
3/20/2018		2.5
9/17/2018		2.5

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 12/3/2018 10:37 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-7Z	GWC-7Z
5/31/2016	2.03	
8/2/2016	0.96 (J)	
9/27/2016	0.87 (J)	
11/21/2016	0.93 (J)	
2/1/2017	0.76 (J)	
4/6/2017	<1 (*)	
6/13/2017	0.58 (J)	
7/14/2017	0.04 (J)	
10/3/2017		0.87 (J)
3/20/2018		0.5 (J)
9/18/2018		0.65 (J)

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 12/3/2018 10:37 AM View: cells_1&2_AppIII_intrawell

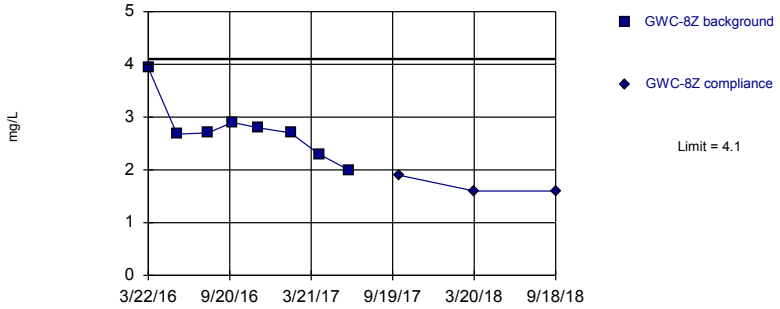
Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-8RR	GWC-8RR
3/30/2016	1.9542	
5/24/2016	0.989 (J)	
8/2/2016	1	
9/27/2016	0.95 (J)	
11/22/2016	1.1	
2/6/2017	0.96 (J)	
4/6/2017	<1 (*)	
6/14/2017	0.97 (J)	
10/4/2017		0.84 (J)
3/21/2018		1.2
9/18/2018		0.9 (J)

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=2.752, Std. Dev.=0.5603, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8668, critical = 0.749. Kappa = 2.468 (c=7, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Sulfate Analysis Run 12/3/2018 10:28 AM View: cells_1&2_AppIII_intrawell

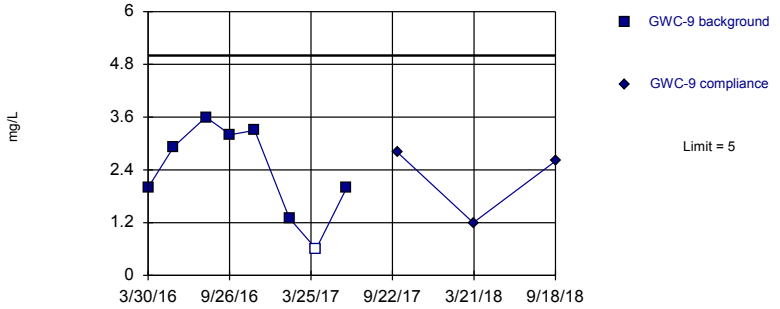
Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=2.366, Std. Dev.=1.064, n=8, 12.5% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9257, critical = 0.749. Kappa = 2.468 (c=7, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004426.

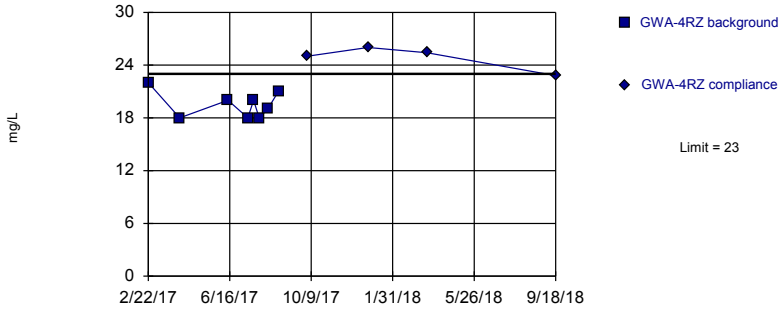
Constituent: Sulfate Analysis Run 12/3/2018 10:28 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=19.5, Std. Dev.=1.512, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8905, critical = 0.749. Kappa = 2.468 (c=7, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004426.

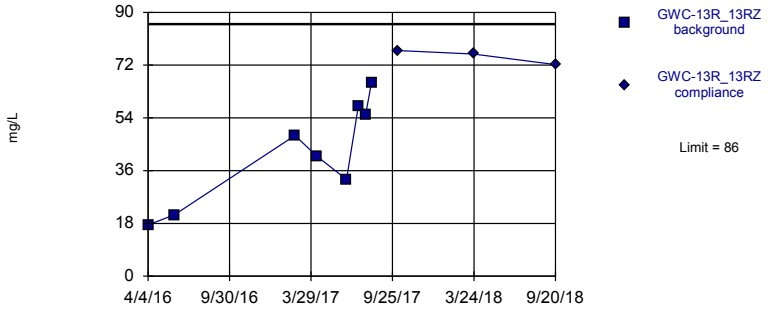
Constituent: Sulfate Analysis Run 12/3/2018 10:28 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=42.43, Std. Dev.=17.58, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9495, critical = 0.749. Kappa = 2.468 (c=7, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Sulfate Analysis Run 12/3/2018 10:28 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 12/3/2018 10:37 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-8Z	GWC-8Z
3/22/2016	3.9321	
5/25/2016	2.68	
8/2/2016	2.7	
9/26/2016	2.9	
11/21/2016	2.8	
2/3/2017	2.7	
4/7/2017	2.3	
6/13/2017	2	
10/3/2017		1.9
3/20/2018		1.6
9/18/2018		1.6

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 12/3/2018 10:37 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-9	GWC-9
3/30/2016	2	
5/26/2016	2.93	
8/5/2016	3.6	
9/28/2016	3.2	
11/21/2016	3.3	
2/6/2017	1.3	
4/6/2017	<1.2 (*)	
6/13/2017	2	
10/3/2017		2.8
3/20/2018		1.2
9/18/2018		2.6

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 12/3/2018 10:37 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-4RZ	GWA-4RZ
2/22/2017	22	
4/7/2017	18	
6/14/2017	20	
7/12/2017	18	
7/20/2017	20	
7/28/2017	18	
8/9/2017	19	
8/24/2017	21	
10/3/2017		25
12/28/2017		26 (Y)
3/21/2018		25.4
9/18/2018		22.8

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 12/3/2018 10:37 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-13R_13RZ	GWC-13R_13RZ
4/4/2016	17.5	
6/1/2016	20.9	
2/22/2017	48	
4/11/2017	41	
6/16/2017	33	
7/12/2017	58	
7/28/2017	55	
8/10/2017	66	
10/6/2017		77
3/23/2018		75.8
9/20/2018		72.2

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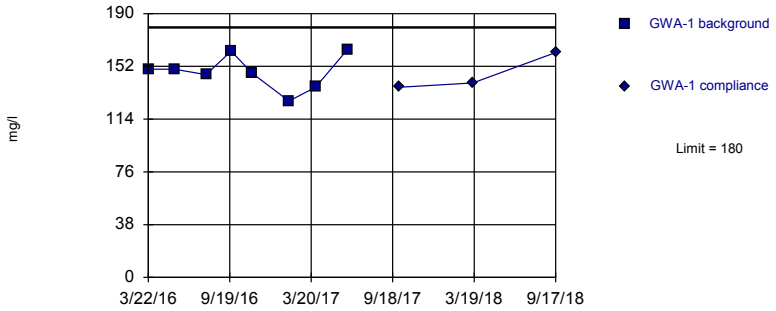
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=148, Std. Dev.=12.28, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9387, critical = 0.749. Kappa = 2.468 (c=7, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Total Dissolved Solids Analysis Run 12/3/2018 10:28 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

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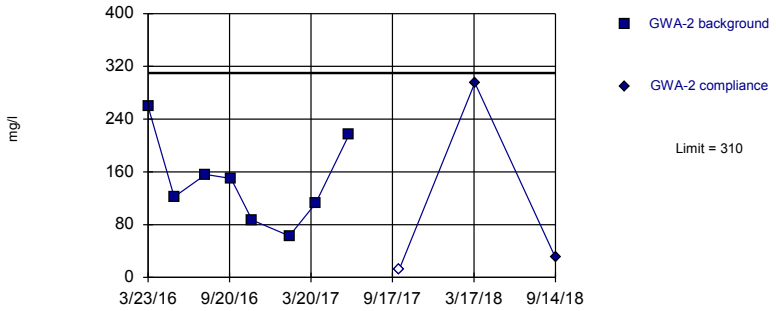
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=145.6, Std. Dev.=65.34, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.952, critical = 0.749. Kappa = 2.468 (c=7, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Total Dissolved Solids Analysis Run 12/3/2018 10:28 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

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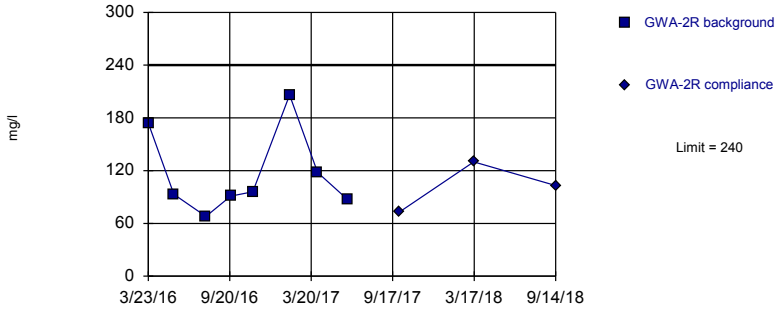
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=116.6, Std. Dev.=48.05, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8313, critical = 0.749. Kappa = 2.468 (c=7, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Total Dissolved Solids Analysis Run 12/3/2018 10:29 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

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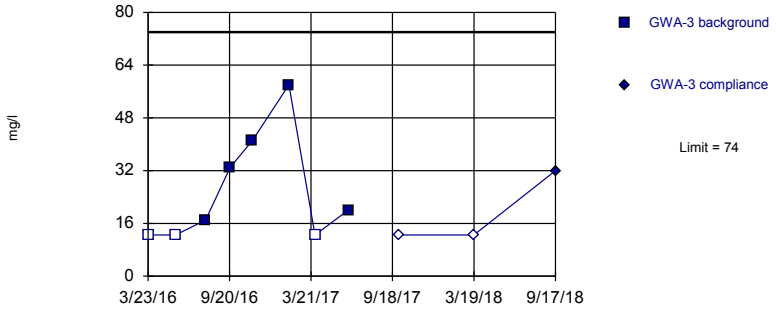
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (after Aitchison`s Adjustment): Mean=21.13, Std. Dev.=21.56, n=8, 37.5% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8278, critical = 0.749. Kappa = 2.468 (c=7, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Total Dissolved Solids Analysis Run 12/3/2018 10:29 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 12/3/2018 10:38 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-1	GWA-1
3/22/2016	150	
5/19/2016	150	
7/29/2016	146	
9/23/2016	163	
11/9/2016	147	
1/30/2017	127	
3/30/2017	137	
6/9/2017	164	
10/2/2017		137
3/16/2018		140
9/17/2018		162

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 12/3/2018 10:38 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-2	GWA-2
3/23/2016	259	
5/20/2016	122	
7/29/2016	156	
9/23/2016	150	
11/9/2016	87	
1/31/2017	63	
3/30/2017	112	
6/12/2017	216	
10/2/2017		<25
3/19/2018		295
9/14/2018		30

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 12/3/2018 10:38 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-2R	GWA-2R
3/23/2016	174	
5/19/2016	93	
7/29/2016	68	
9/22/2016	91	
11/10/2016	96	
1/31/2017	206	
4/3/2017	118	
6/9/2017	87	
10/2/2017		73
3/16/2018		130
9/14/2018		103

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 12/3/2018 10:38 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-3	GWA-3
3/23/2016	<25	
5/23/2016	<25	
7/29/2016	17 (J)	
9/22/2016	33	
11/10/2016	41	
1/31/2017	58	
3/30/2017	<25	
6/12/2017	20 (J)	
10/4/2017		<25
3/19/2018		<25
9/17/2018		32

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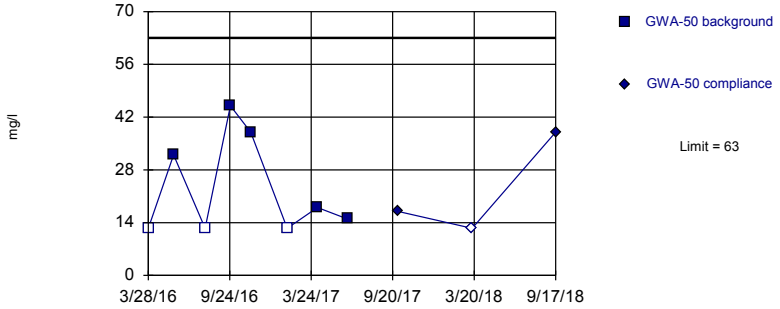
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (after Aitchison`s Adjustment): Mean=18.5, Std. Dev.=18.14, n=8, 37.5% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8102, critical = 0.749. Kappa = 2.468 (c=7, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Total Dissolved Solids Analysis Run 12/3/2018 10:29 AM View: cells_1&2_AppIII_intrawell
Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

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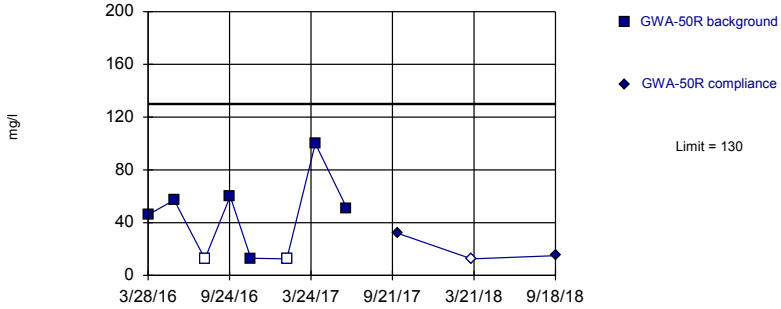
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (after Aitchison`s Adjustment): Mean=40.88, Std. Dev.=34.58, n=8, 25% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.879, critical = 0.749. Kappa = 2.468 (c=7, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Total Dissolved Solids Analysis Run 12/3/2018 10:29 AM View: cells_1&2_AppIII_intrawell
Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

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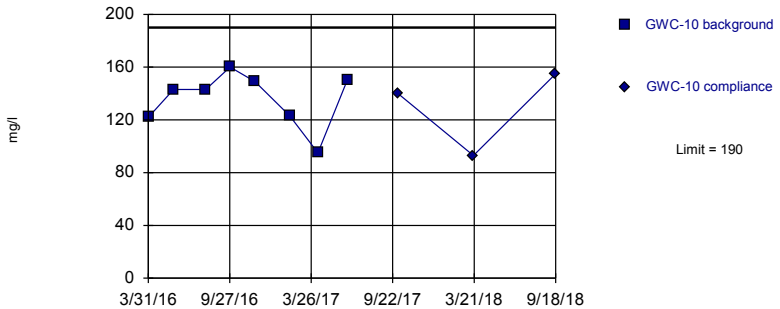
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=135.6, Std. Dev.=20.99, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9016, critical = 0.749. Kappa = 2.468 (c=7, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Total Dissolved Solids Analysis Run 12/3/2018 10:29 AM View: cells_1&2_AppIII_intrawell
Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

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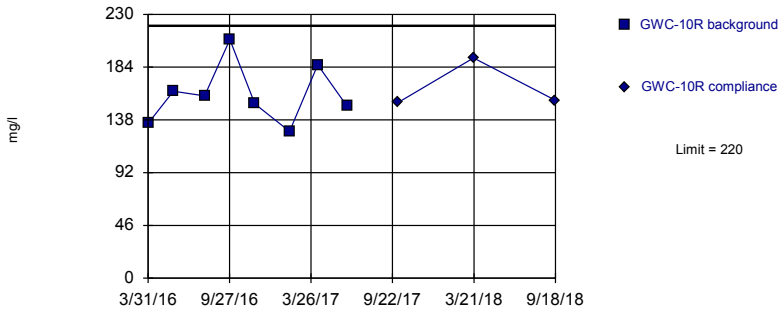
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=160.1, Std. Dev.=26.19, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9405, critical = 0.749. Kappa = 2.468 (c=7, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Total Dissolved Solids Analysis Run 12/3/2018 10:29 AM View: cells_1&2_AppIII_intrawell
Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 12/3/2018 10:38 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50	GWA-50
3/28/2016	<25	
5/23/2016	32	
8/1/2016	<25	
9/26/2016	45	
11/10/2016	38	
1/30/2017	<25	
4/7/2017	18 (J)	
6/12/2017	15 (J)	
10/2/2017		17 (J)
3/16/2018		<25
9/17/2018		38

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 12/3/2018 10:38 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-50R	GWA-50R
3/28/2016	46	
5/25/2016	57	
8/1/2016	<25	
9/26/2016	60	
11/11/2016	13 (J)	
1/30/2017	<25	
4/3/2017	100	
6/12/2017	51	
10/2/2017		32
3/16/2018		<25
9/18/2018		15 (J)

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 12/3/2018 10:38 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-10	GWC-10
3/31/2016	122	
5/26/2016	143	
8/5/2016	143	
9/28/2016	160	
11/22/2016	149	
2/7/2017	123	
4/10/2017	95	
6/14/2017	150	
10/4/2017		140
3/20/2018		93
9/18/2018		155

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 12/3/2018 10:38 AM View: cells_1&2_AppIII_intrawell

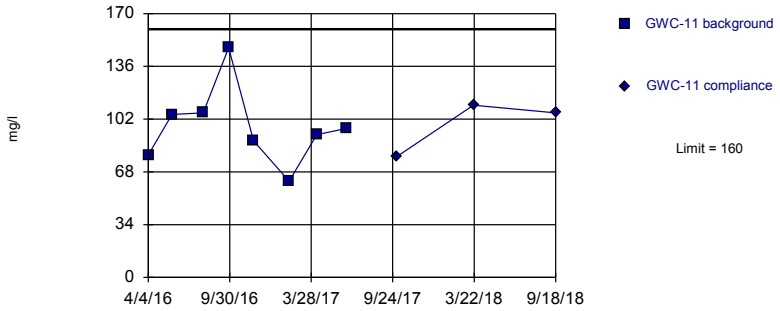
Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-10R	GWC-10R
3/31/2016	135	
5/26/2016	163	
8/3/2016	159	
9/28/2016	208	
11/22/2016	152	
2/7/2017	128	
4/10/2017	186	
6/14/2017	150	
10/4/2017		153
3/21/2018		192
9/18/2018		155

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=97, Std. Dev.=25.08, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.924, critical = 0.749. Kappa = 2.468 (c=7, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Total Dissolved Solids Analysis Run 12/3/2018 10:29 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

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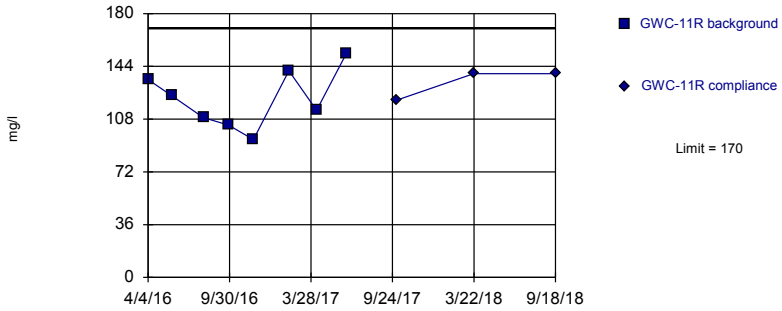
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=121.8, Std. Dev.=20.13, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9723, critical = 0.749. Kappa = 2.468 (c=7, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Total Dissolved Solids Analysis Run 12/3/2018 10:29 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

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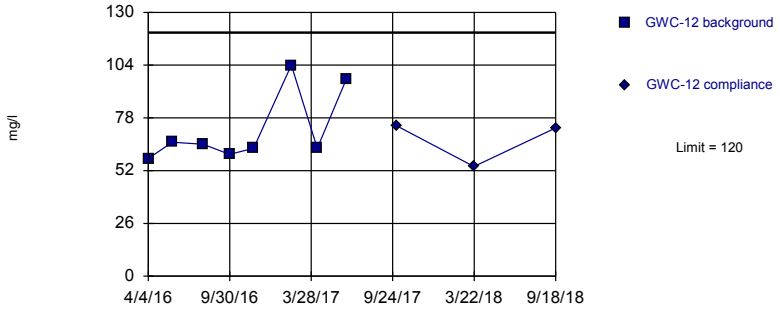
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=4.253, Std. Dev.=0.2246, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7515, critical = 0.749. Kappa = 2.468 (c=7, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Total Dissolved Solids Analysis Run 12/3/2018 10:29 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

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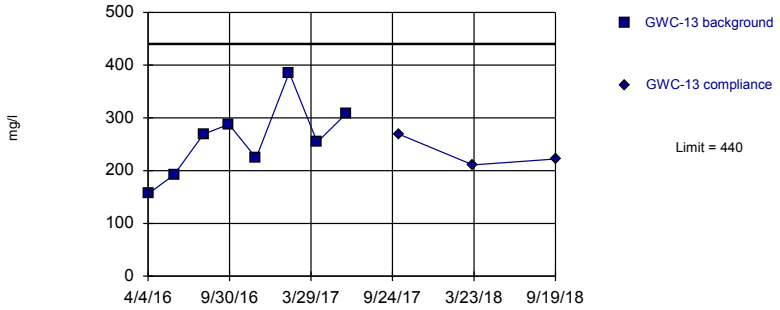
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=259.8, Std. Dev.=71.63, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9864, critical = 0.749. Kappa = 2.468 (c=7, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Total Dissolved Solids Analysis Run 12/3/2018 10:29 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 12/3/2018 10:38 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-11	GWC-11
4/4/2016	79	
5/26/2016	105	
8/3/2016	106	
9/28/2016	148	
11/22/2016	88	
2/8/2017	62	
4/10/2017	92	
6/15/2017	96	
10/4/2017		78
3/21/2018		111
9/18/2018		106

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 12/3/2018 10:38 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-11R	GWC-11R
4/4/2016	135	
5/26/2016	124	
8/4/2016	109	
9/28/2016	104	
11/22/2016	94	
2/8/2017	141 (J)	
4/10/2017	114	
6/15/2017	153	
10/4/2017		121
3/22/2018		139
9/18/2018		139

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 12/3/2018 10:38 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-12	GWC-12
4/4/2016	58	
5/27/2016	66	
8/3/2016	65	
9/30/2016	60	
11/22/2016	63	
2/13/2017	104 (J)	
4/11/2017	63	
6/14/2017	97	
10/4/2017		74
3/22/2018		54
9/18/2018		73

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 12/3/2018 10:38 AM View: cells_1&2_AppIII_intrawell

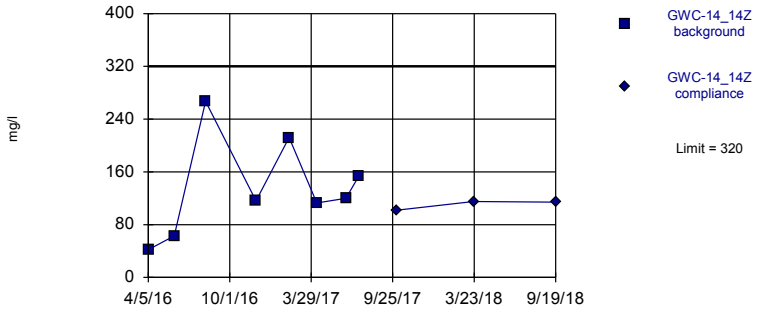
Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-13	GWC-13
4/4/2016	156	
5/31/2016	192	
8/4/2016	269	
9/29/2016	288	
11/28/2016	224	
2/9/2017	386	
4/12/2017	254	
6/16/2017	309	
10/9/2017		269
3/21/2018		211
9/19/2018		222

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=135.8, Std. Dev.=74.23, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9409, critical = 0.749. Kappa = 2.468 (c=7, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004426.

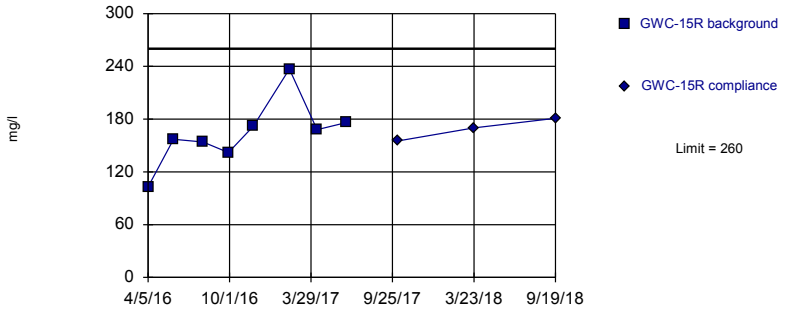
Constituent: Total Dissolved Solids Analysis Run 12/3/2018 10:30 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=163.6, Std. Dev.=37.62, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9228, critical = 0.749. Kappa = 2.468 (c=7, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004426.

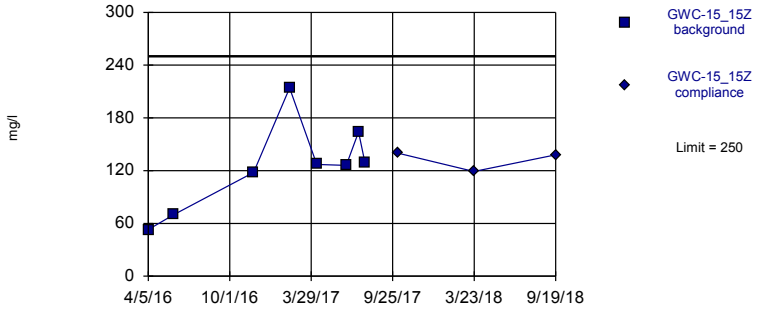
Constituent: Total Dissolved Solids Analysis Run 12/3/2018 10:30 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=125.1, Std. Dev.=50.31, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9413, critical = 0.749. Kappa = 2.468 (c=7, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Total Dissolved Solids Analysis Run 12/3/2018 10:30 AM View: cells_1&2_AppIII_intrawell

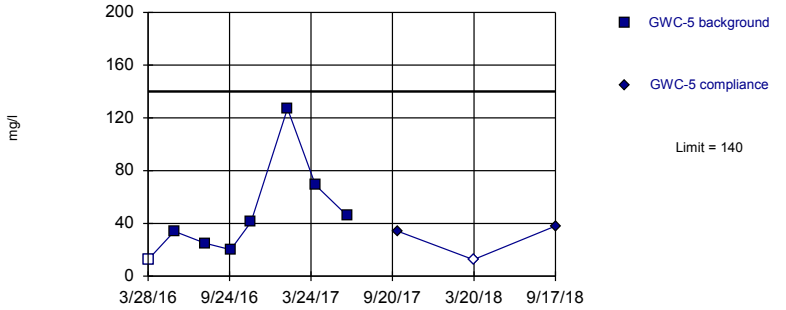
Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=46.81, Std. Dev.=36.83, n=8, 12.5% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8316, critical = 0.749. Kappa = 2.468 (c=7, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Total Dissolved Solids Analysis Run 12/3/2018 10:30 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 12/3/2018 10:38 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-14_14Z	GWC-14_14Z
4/5/2016	42	
6/1/2016	63	
8/9/2016	267	
11/28/2016	116	
2/9/2017	212 (J)	
4/11/2017	113	
6/14/2017	120	
7/12/2017	153	
10/5/2017		102
3/22/2018		115
9/19/2018		114

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 12/3/2018 10:38 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-15R	GWC-15R
4/5/2016	103	
5/31/2016	157	
8/4/2016	154	
9/29/2016	142	
11/23/2016	172	
2/10/2017	237	
4/12/2017	168	
6/15/2017	176	
10/6/2017		155
3/23/2018		170
9/19/2018		181

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 12/3/2018 10:38 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-15_15Z	GWC-15_15Z
4/5/2016	53	
5/31/2016	70	
11/23/2016	118	
2/10/2017	214	
4/11/2017	127	
6/15/2017	126	
7/12/2017	164	
7/26/2017	129	
10/6/2017		140
3/23/2018		119
9/19/2018		138

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 12/3/2018 10:38 AM View: cells_1&2_AppIII_intrawell

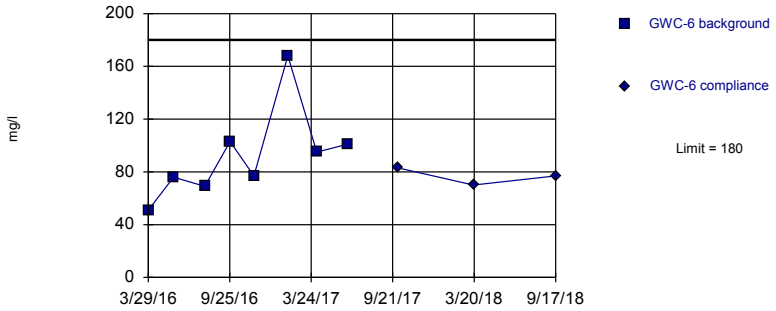
Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-5	GWC-5
3/28/2016	<25	
5/25/2016	34	
8/1/2016	25	
9/27/2016	20 (J)	
11/11/2016	41	
1/31/2017	127	
4/3/2017	69	
6/12/2017	46	
10/3/2017		34
3/19/2018		<25
9/17/2018		38

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=92.5, Std. Dev.=35.21, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8711, critical = 0.749. Kappa = 2.468 (c=7, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Total Dissolved Solids Analysis Run 12/3/2018 10:30 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

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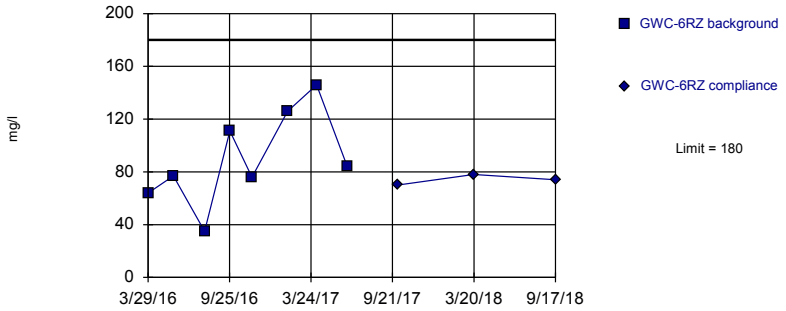
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=89.88, Std. Dev.=35.81, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9697, critical = 0.749. Kappa = 2.468 (c=7, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Total Dissolved Solids Analysis Run 12/3/2018 10:30 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

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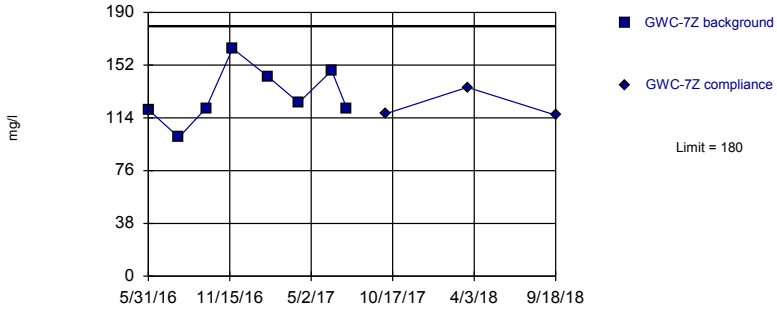
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=130.4, Std. Dev.=20.22, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9385, critical = 0.749. Kappa = 2.468 (c=7, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Total Dissolved Solids Analysis Run 12/3/2018 10:30 AM View: cells_1&2_AppIII_intrawell

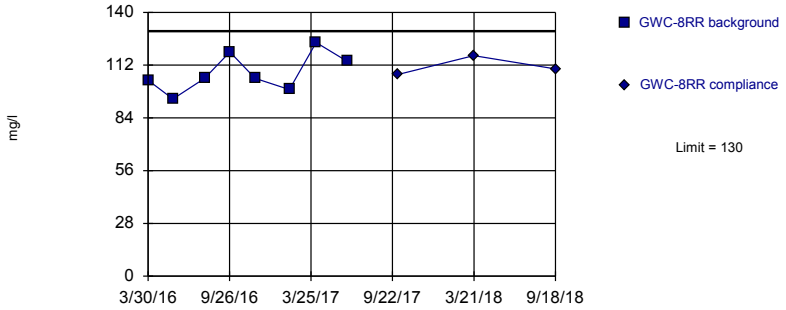
Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

Sanitas™ v.9.5.32 Sanitas software licensed to AMEC. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=108, Std. Dev.=10.17, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9501, critical = 0.749. Kappa = 2.468 (c=7, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Total Dissolved Solids Analysis Run 12/3/2018 10:30 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 12/3/2018 10:38 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-6	GWC-6
3/29/2016	51	
5/24/2016	76	
8/1/2016	69	
9/26/2016	103	
11/18/2016	77	
2/1/2017	168	
4/6/2017	95	
6/13/2017	101	
10/3/2017		83
3/19/2018		70
9/17/2018		77

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 12/3/2018 10:38 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-6RZ	GWC-6RZ
3/29/2016	64	
5/24/2016	77	
8/1/2016	35	
9/26/2016	111	
11/14/2016	76	
2/1/2017	126	
4/6/2017	146	
6/13/2017	84	
10/3/2017		70
3/20/2018		78
9/17/2018		74

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 12/3/2018 10:38 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-7Z	GWC-7Z
5/31/2016	120	
8/2/2016	100	
9/27/2016	121	
11/21/2016	164	
2/1/2017	144	
4/6/2017	125	
6/13/2017	148	
7/14/2017	121	
10/3/2017		117
3/20/2018		136
9/18/2018		116

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 12/3/2018 10:38 AM View: cells_1&2_AppIII_intrawell

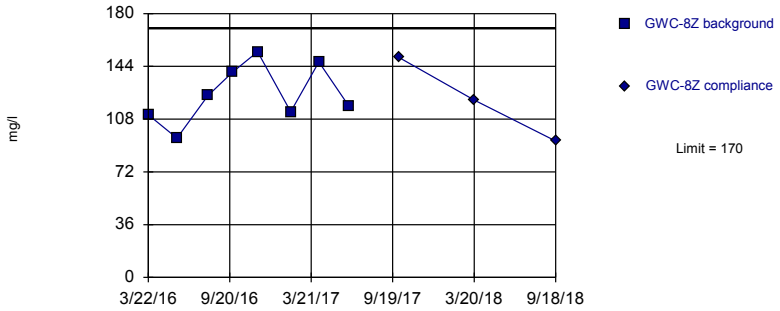
Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-8RR	GWC-8RR
3/30/2016	104	
5/24/2016	94	
8/2/2016	105	
9/27/2016	119	
11/22/2016	105	
2/6/2017	99	
4/6/2017	124	
6/14/2017	114	
10/4/2017		107
3/21/2018		117
9/18/2018		110

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=125.1, Std. Dev.=20.2, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9543, critical = 0.749. Kappa = 2.468 (c=7, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004426.

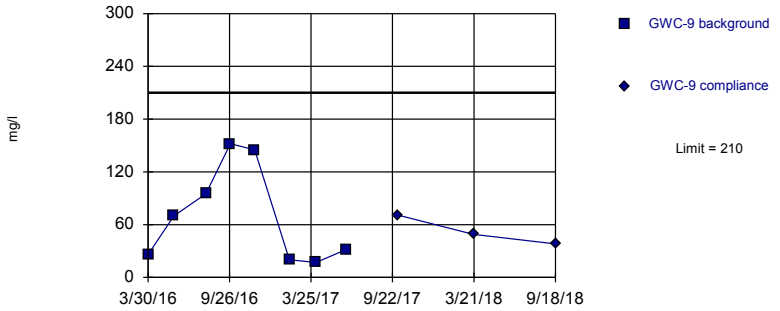
Constituent: Total Dissolved Solids Analysis Run 12/3/2018 10:30 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=69.63, Std. Dev.=55.63, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8465, critical = 0.749. Kappa = 2.468 (c=7, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004426.

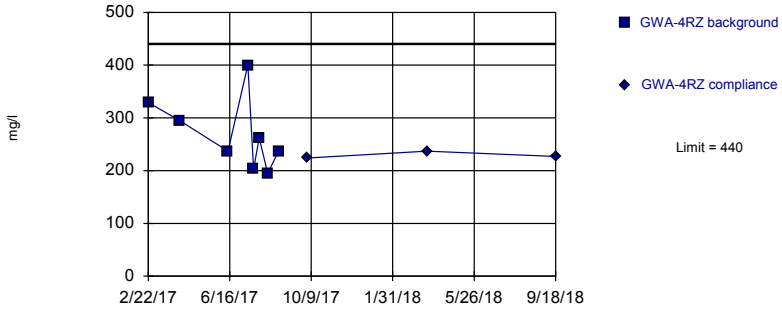
Constituent: Total Dissolved Solids Analysis Run 12/3/2018 10:31 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=269.6, Std. Dev.=69.1, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9226, critical = 0.749. Kappa = 2.468 (c=7, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004426.

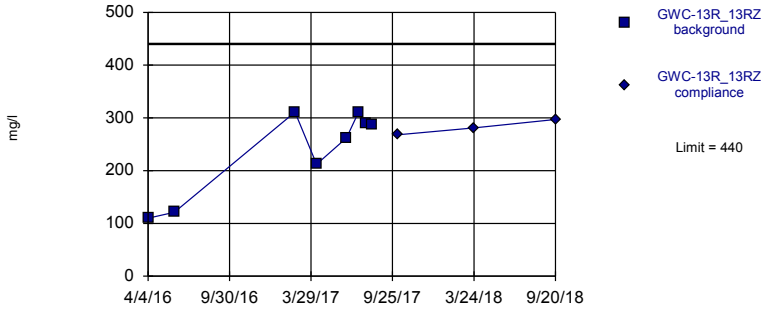
Constituent: Total Dissolved Solids Analysis Run 12/3/2018 10:31 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=237.9, Std. Dev.=81.89, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8211, critical = 0.749. Kappa = 2.468 (c=7, w=17, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Total Dissolved Solids Analysis Run 12/3/2018 10:31 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 12/3/2018 10:38 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-8Z	GWC-8Z
3/22/2016	111	
5/25/2016	95	
8/2/2016	124	
9/26/2016	140	
11/21/2016	154	
2/3/2017	113	
4/7/2017	147	
6/13/2017	117	
10/3/2017		150
3/20/2018		121
9/18/2018		93

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 12/3/2018 10:38 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-9	GWC-9
3/30/2016	26	
5/26/2016	70	
8/5/2016	95	
9/28/2016	152	
11/21/2016	145	
2/6/2017	20 (J)	
4/6/2017	17 (J)	
6/13/2017	32	
10/3/2017		71
3/20/2018		49
9/18/2018		38

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 12/3/2018 10:38 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWA-4RZ	GWA-4RZ
2/22/2017	329	
4/7/2017	295	
6/14/2017	237	
7/12/2017	400	
7/20/2017	203	
7/28/2017	262	
8/9/2017	195	
8/24/2017	236	
10/3/2017		224
3/21/2018		237
9/18/2018		227

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 12/3/2018 10:38 AM View: cells_1&2_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 1-2 CCR

	GWC-13R_13RZ	GWC-13R_13RZ
4/4/2016	110	
6/1/2016	121	
2/22/2017	311	
4/11/2017	212	
6/16/2017	262	
7/12/2017	310	
7/28/2017	289	
8/10/2017	288	
10/6/2017		268
3/23/2018		281
9/20/2018		297

Interwell Prediction Limit

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR Printed 12/7/2018, 9:56 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method

Interwell Prediction Limit

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR Printed 12/7/2018, 9:56 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Antimony (mg/L)	GWC-16R	0.0052	n/a	9/7/2018	0.0026	No	240	83.33	n/a	0.000...	NP (NDs) 1 of 2
Antimony (mg/L)	GWC-17R	0.0052	n/a	9/11/2018	0.0015ND	No	240	83.33	n/a	0.000...	NP (NDs) 1 of 2
Antimony (mg/L)	GWC-18	0.0052	n/a	9/11/2018	0.0015ND	No	240	83.33	n/a	0.000...	NP (NDs) 1 of 2
Antimony (mg/L)	GWC-18R	0.0052	n/a	9/7/2018	0.0015ND	No	240	83.33	n/a	0.000...	NP (NDs) 1 of 2
Antimony (mg/L)	GWC-19R	0.0052	n/a	9/10/2018	0.0015ND	No	240	83.33	n/a	0.000...	NP (NDs) 1 of 2
Antimony (mg/L)	GWC-20R	0.0052	n/a	9/10/2018	0.0015ND	No	240	83.33	n/a	0.000...	NP (NDs) 1 of 2
Antimony (mg/L)	GWC-21R	0.0052	n/a	9/10/2018	0.0033	No	240	83.33	n/a	0.000...	NP (NDs) 1 of 2
Antimony (mg/L)	GWC-22R	0.0052	n/a	9/7/2018	0.0015ND	No	240	83.33	n/a	0.000...	NP (NDs) 1 of 2
Antimony (mg/L)	GWC-23R	0.0052	n/a	9/11/2018	0.0015ND	No	240	83.33	n/a	0.000...	NP (NDs) 1 of 2
Antimony (mg/L)	GWC-24R	0.0052	n/a	9/11/2018	0.0015ND	No	240	83.33	n/a	0.000...	NP (NDs) 1 of 2
Antimony (mg/L)	GWC-25R	0.0052	n/a	9/11/2018	0.0015ND	No	240	83.33	n/a	0.000...	NP (NDs) 1 of 2
Arsenic (mg/L)	GWC-16R	0.016	n/a	9/7/2018	0.0025ND	No	240	81.25	n/a	0.000...	NP (NDs) 1 of 2
Arsenic (mg/L)	GWC-17R	0.016	n/a	9/11/2018	0.0025ND	No	240	81.25	n/a	0.000...	NP (NDs) 1 of 2
Arsenic (mg/L)	GWC-18	0.016	n/a	9/11/2018	0.0025ND	No	240	81.25	n/a	0.000...	NP (NDs) 1 of 2
Arsenic (mg/L)	GWC-18R	0.016	n/a	9/7/2018	0.0025ND	No	240	81.25	n/a	0.000...	NP (NDs) 1 of 2
Arsenic (mg/L)	GWC-19R	0.016	n/a	9/10/2018	0.0025ND	No	240	81.25	n/a	0.000...	NP (NDs) 1 of 2
Arsenic (mg/L)	GWC-20R	0.016	n/a	9/10/2018	0.0025ND	No	240	81.25	n/a	0.000...	NP (NDs) 1 of 2
Arsenic (mg/L)	GWC-21R	0.016	n/a	9/10/2018	0.0025ND	No	240	81.25	n/a	0.000...	NP (NDs) 1 of 2
Arsenic (mg/L)	GWC-22R	0.016	n/a	9/7/2018	0.0025ND	No	240	81.25	n/a	0.000...	NP (NDs) 1 of 2
Arsenic (mg/L)	GWC-23R	0.016	n/a	9/11/2018	0.0025ND	No	240	81.25	n/a	0.000...	NP (NDs) 1 of 2
Arsenic (mg/L)	GWC-24R	0.016	n/a	9/11/2018	0.0025ND	No	240	81.25	n/a	0.000...	NP (NDs) 1 of 2
Arsenic (mg/L)	GWC-25R	0.016	n/a	9/11/2018	0.0025ND	No	240	81.25	n/a	0.000...	NP (NDs) 1 of 2
Barium (mg/L)	GWC-16R	0.07	n/a	9/7/2018	0.047	No	240	2.917	ln(x)	0.000...	Param 1 of 2
Barium (mg/L)	GWC-17R	0.07	n/a	9/11/2018	0.019	No	240	2.917	ln(x)	0.000...	Param 1 of 2
Barium (mg/L)	GWC-18	0.07	n/a	9/11/2018	0.019	No	240	2.917	ln(x)	0.000...	Param 1 of 2
Barium (mg/L)	GWC-18R	0.07	n/a	9/7/2018	0.015	No	240	2.917	ln(x)	0.000...	Param 1 of 2
Barium (mg/L)	GWC-19R	0.07	n/a	9/10/2018	0.016	No	240	2.917	ln(x)	0.000...	Param 1 of 2
Barium (mg/L)	GWC-20R	0.07	n/a	9/10/2018	0.028	No	240	2.917	ln(x)	0.000...	Param 1 of 2
Barium (mg/L)	GWC-21R	0.07	n/a	9/10/2018	0.016	No	240	2.917	ln(x)	0.000...	Param 1 of 2
Barium (mg/L)	GWC-22R	0.07	n/a	9/7/2018	0.055	No	240	2.917	ln(x)	0.000...	Param 1 of 2
Barium (mg/L)	GWC-23R	0.07	n/a	9/11/2018	0.023	No	240	2.917	ln(x)	0.000...	Param 1 of 2
Barium (mg/L)	GWC-24R	0.07	n/a	9/11/2018	0.024	No	240	2.917	ln(x)	0.000...	Param 1 of 2
Barium (mg/L)	GWC-25R	0.07	n/a	9/11/2018	0.015	No	240	2.917	ln(x)	0.000...	Param 1 of 2
Beryllium (mg/L)	GWC-16R	0.0032	n/a	9/7/2018	0.0015ND	No	240	84.58	n/a	0.000...	NP (NDs) 1 of 2
Beryllium (mg/L)	GWC-17R	0.0032	n/a	9/11/2018	0.0015ND	No	240	84.58	n/a	0.000...	NP (NDs) 1 of 2
Beryllium (mg/L)	GWC-18	0.0032	n/a	9/11/2018	0.0015ND	No	240	84.58	n/a	0.000...	NP (NDs) 1 of 2
Beryllium (mg/L)	GWC-18R	0.0032	n/a	9/7/2018	0.0015ND	No	240	84.58	n/a	0.000...	NP (NDs) 1 of 2
Beryllium (mg/L)	GWC-19R	0.0032	n/a	9/10/2018	0.0015ND	No	240	84.58	n/a	0.000...	NP (NDs) 1 of 2
Beryllium (mg/L)	GWC-20R	0.0032	n/a	9/10/2018	0.0015ND	No	240	84.58	n/a	0.000...	NP (NDs) 1 of 2
Beryllium (mg/L)	GWC-21R	0.0032	n/a	9/10/2018	0.0015ND	No	240	84.58	n/a	0.000...	NP (NDs) 1 of 2
Beryllium (mg/L)	GWC-22R	0.0032	n/a	9/7/2018	0.0015ND	No	240	84.58	n/a	0.000...	NP (NDs) 1 of 2
Beryllium (mg/L)	GWC-23R	0.0032	n/a	9/11/2018	0.0015ND	No	240	84.58	n/a	0.000...	NP (NDs) 1 of 2
Beryllium (mg/L)	GWC-24R	0.0032	n/a	9/11/2018	0.0015ND	No	240	84.58	n/a	0.000...	NP (NDs) 1 of 2
Beryllium (mg/L)	GWC-25R	0.0032	n/a	9/11/2018	0.0015ND	No	240	84.58	n/a	0.000...	NP (NDs) 1 of 2
Cadmium (mg/L)	GWC-16R	0.050	n/a	9/7/2018	0.0005ND	No	240	83.75	n/a	0.000...	NP (NDs) 1 of 2
Cadmium (mg/L)	GWC-17R	0.050	n/a	9/11/2018	0.0005ND	No	240	83.75	n/a	0.000...	NP (NDs) 1 of 2
Cadmium (mg/L)	GWC-18	0.050	n/a	9/11/2018	0.0005ND	No	240	83.75	n/a	0.000...	NP (NDs) 1 of 2
Cadmium (mg/L)	GWC-18R	0.050	n/a	9/7/2018	0.0005ND	No	240	83.75	n/a	0.000...	NP (NDs) 1 of 2
Cadmium (mg/L)	GWC-19R	0.050	n/a	9/10/2018	0.0005ND	No	240	83.75	n/a	0.000...	NP (NDs) 1 of 2
Cadmium (mg/L)	GWC-20R	0.050	n/a	9/10/2018	0.0005ND	No	240	83.75	n/a	0.000...	NP (NDs) 1 of 2

Interwell Prediction Limit

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR Printed 12/7/2018, 9:56 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Cadmium (mg/L)	GWC-21R	0.050	n/a	9/10/2018	0.00021	No	240	83.75	n/a	0.000...	NP (NDs) 1 of 2
Cadmium (mg/L)	GWC-22R	0.050	n/a	9/7/2018	0.0005ND	No	240	83.75	n/a	0.000...	NP (NDs) 1 of 2
Cadmium (mg/L)	GWC-23R	0.050	n/a	9/11/2018	0.0005ND	No	240	83.75	n/a	0.000...	NP (NDs) 1 of 2
Cadmium (mg/L)	GWC-24R	0.050	n/a	9/11/2018	0.0005ND	No	240	83.75	n/a	0.000...	NP (NDs) 1 of 2
Cadmium (mg/L)	GWC-25R	0.050	n/a	9/11/2018	0.0005ND	No	240	83.75	n/a	0.000...	NP (NDs) 1 of 2
Chromium (mg/L)	GWC-16R	0.036	n/a	9/7/2018	0.005ND	No	240	67.5	n/a	0.000...	NP (NDs) 1 of 2
Chromium (mg/L)	GWC-17R	0.036	n/a	9/11/2018	0.005ND	No	240	67.5	n/a	0.000...	NP (NDs) 1 of 2
Chromium (mg/L)	GWC-18	0.036	n/a	9/11/2018	0.0017	No	240	67.5	n/a	0.000...	NP (NDs) 1 of 2
Chromium (mg/L)	GWC-18R	0.036	n/a	9/7/2018	0.005ND	No	240	67.5	n/a	0.000...	NP (NDs) 1 of 2
Chromium (mg/L)	GWC-19R	0.036	n/a	9/10/2018	0.005ND	No	240	67.5	n/a	0.000...	NP (NDs) 1 of 2
Chromium (mg/L)	GWC-20R	0.036	n/a	9/10/2018	0.005ND	No	240	67.5	n/a	0.000...	NP (NDs) 1 of 2
Mercury (mg/L)	GWC-25R	0.025	n/a	9/11/2018	0.00025ND	No	240	92.08	n/a	0.000...	NP (NDs) 1 of 2
Nickel (mg/L)	GWC-16R	0.022	n/a	9/7/2018	0.0086	No	179	71.51	n/a	0.000...	NP (NDs) 1 of 2
Nickel (mg/L)	GWC-17R	0.022	n/a	9/11/2018	0.005ND	No	179	71.51	n/a	0.000...	NP (NDs) 1 of 2
Nickel (mg/L)	GWC-18	0.022	n/a	9/11/2018	0.005ND	No	179	71.51	n/a	0.000...	NP (NDs) 1 of 2
Nickel (mg/L)	GWC-18R	0.022	n/a	9/7/2018	0.005ND	No	179	71.51	n/a	0.000...	NP (NDs) 1 of 2
Nickel (mg/L)	GWC-19R	0.022	n/a	9/10/2018	0.005ND	No	179	71.51	n/a	0.000...	NP (NDs) 1 of 2
Nickel (mg/L)	GWC-20R	0.022	n/a	9/10/2018	0.005ND	No	179	71.51	n/a	0.000...	NP (NDs) 1 of 2
Nickel (mg/L)	GWC-21R	0.022	n/a	9/10/2018	0.002	No	179	71.51	n/a	0.000...	NP (NDs) 1 of 2
Nickel (mg/L)	GWC-22R	0.022	n/a	9/7/2018	0.005ND	No	179	71.51	n/a	0.000...	NP (NDs) 1 of 2
Nickel (mg/L)	GWC-23R	0.022	n/a	9/11/2018	0.005ND	No	179	71.51	n/a	0.000...	NP (NDs) 1 of 2
Nickel (mg/L)	GWC-24R	0.022	n/a	9/11/2018	0.005ND	No	179	71.51	n/a	0.000...	NP (NDs) 1 of 2
Nickel (mg/L)	GWC-25R	0.022	n/a	9/11/2018	0.005ND	No	179	71.51	n/a	0.000...	NP (NDs) 1 of 2
Selenium (mg/L)	GWC-16R	0.010	n/a	9/7/2018	0.005ND	No	240	93.33	n/a	0.000...	NP (NDs) 1 of 2
Selenium (mg/L)	GWC-17R	0.010	n/a	9/11/2018	0.005ND	No	240	93.33	n/a	0.000...	NP (NDs) 1 of 2
Selenium (mg/L)	GWC-18	0.010	n/a	9/11/2018	0.005ND	No	240	93.33	n/a	0.000...	NP (NDs) 1 of 2
Selenium (mg/L)	GWC-18R	0.010	n/a	9/7/2018	0.005ND	No	240	93.33	n/a	0.000...	NP (NDs) 1 of 2
Silver (mg/L)	GWC-24R	0.0050	n/a	9/11/2018	0.005ND	No	179	99.44	n/a	0.000...	NP (NDs) 1 of 2
Silver (mg/L)	GWC-25R	0.0050	n/a	9/11/2018	0.005ND	No	179	99.44	n/a	0.000...	NP (NDs) 1 of 2
Thallium (mg/L)	GWC-16R	0.0050	n/a	9/7/2018	0.00016	No	238	83.19	n/a	0.000...	NP (NDs) 1 of 2
Thallium (mg/L)	GWC-17R	0.0050	n/a	9/11/2018	0.0005ND	No	238	83.19	n/a	0.000...	NP (NDs) 1 of 2
Thallium (mg/L)	GWC-18	0.0050	n/a	9/11/2018	0.0005ND	No	238	83.19	n/a	0.000...	NP (NDs) 1 of 2
Thallium (mg/L)	GWC-18R	0.0050	n/a	9/7/2018	0.0005ND	No	238	83.19	n/a	0.000...	NP (NDs) 1 of 2
Thallium (mg/L)	GWC-19R	0.0050	n/a	9/10/2018	0.0005ND	No	238	83.19	n/a	0.000...	NP (NDs) 1 of 2
Thallium (mg/L)	GWC-20R	0.0050	n/a	9/10/2018	0.0005ND	No	238	83.19	n/a	0.000...	NP (NDs) 1 of 2
Thallium (mg/L)	GWC-21R	0.0050	n/a	9/10/2018	0.0005ND	No	238	83.19	n/a	0.000...	NP (NDs) 1 of 2
Thallium (mg/L)	GWC-22R	0.0050	n/a	9/7/2018	0.0005ND	No	238	83.19	n/a	0.000...	NP (NDs) 1 of 2
Thallium (mg/L)	GWC-23R	0.0050	n/a	9/11/2018	0.0005ND	No	238	83.19	n/a	0.000...	NP (NDs) 1 of 2
Thallium (mg/L)	GWC-24R	0.0050	n/a	9/11/2018	0.0005ND	No	238	83.19	n/a	0.000...	NP (NDs) 1 of 2
Thallium (mg/L)	GWC-25R	0.0050	n/a	9/11/2018	0.0005ND	No	238	83.19	n/a	0.000...	NP (NDs) 1 of 2
Vanadium (mg/L)	GWC-16R	0.028	n/a	9/7/2018	0.005ND	No	179	79.89	n/a	0.000...	NP (NDs) 1 of 2
Vanadium (mg/L)	GWC-17R	0.028	n/a	9/11/2018	0.005ND	No	179	79.89	n/a	0.000...	NP (NDs) 1 of 2
Vanadium (mg/L)	GWC-18	0.028	n/a	9/11/2018	0.005ND	No	179	79.89	n/a	0.000...	NP (NDs) 1 of 2
Zinc (mg/L)	GWC-23R	0.50	n/a	9/11/2018	0.005ND	No	179	34.08	n/a	0.000...	NP (normality) 1 of 2
Zinc (mg/L)	GWC-24R	0.50	n/a	9/11/2018	0.005ND	No	179	34.08	n/a	0.000...	NP (normality) 1 of 2
Zinc (mg/L)	GWC-25R	0.50	n/a	9/11/2018	0.005ND	No	179	34.08	n/a	0.000...	NP (normality) 1 of 2
Chromium (mg/L)	GWC-21R	0.036	n/a	9/10/2018	0.005ND	No	240	67.5	n/a	0.000...	NP (NDs) 1 of 2
Chromium (mg/L)	GWC-22R	0.036	n/a	9/7/2018	0.005ND	No	240	67.5	n/a	0.000...	NP (NDs) 1 of 2
Chromium (mg/L)	GWC-23R	0.036	n/a	9/11/2018	0.005ND	No	240	67.5	n/a	0.000...	NP (NDs) 1 of 2
Chromium (mg/L)	GWC-24R	0.036	n/a	9/11/2018	0.005ND	No	240	67.5	n/a	0.000...	NP (NDs) 1 of 2

Interwell Prediction Limit

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR Printed 12/7/2018, 9:56 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Chromium (mg/L)	GWC-25R	0.036	n/a	9/11/2018	0.005ND	No	240	67.5	n/a	0.000...	NP (NDs) 1 of 2
Cobalt (mg/L)	GWC-16R	0.0072	n/a	9/7/2018	0.0034	No	239	77.82	n/a	0.000...	NP (NDs) 1 of 2
Cobalt (mg/L)	GWC-17R	0.0072	n/a	9/11/2018	0.005ND	No	239	77.82	n/a	0.000...	NP (NDs) 1 of 2
Cobalt (mg/L)	GWC-18	0.0072	n/a	9/11/2018	0.005ND	No	239	77.82	n/a	0.000...	NP (NDs) 1 of 2
Cobalt (mg/L)	GWC-18R	0.0072	n/a	9/7/2018	0.005ND	No	239	77.82	n/a	0.000...	NP (NDs) 1 of 2
Cobalt (mg/L)	GWC-19R	0.0072	n/a	9/10/2018	0.005ND	No	239	77.82	n/a	0.000...	NP (NDs) 1 of 2
Cobalt (mg/L)	GWC-20R	0.0072	n/a	9/10/2018	0.005ND	No	239	77.82	n/a	0.000...	NP (NDs) 1 of 2
Cobalt (mg/L)	GWC-21R	0.0072	n/a	9/10/2018	0.00071	No	239	77.82	n/a	0.000...	NP (NDs) 1 of 2
Cobalt (mg/L)	GWC-22R	0.0072	n/a	9/7/2018	0.005ND	No	239	77.82	n/a	0.000...	NP (NDs) 1 of 2
Cobalt (mg/L)	GWC-23R	0.0072	n/a	9/11/2018	0.005ND	No	239	77.82	n/a	0.000...	NP (NDs) 1 of 2
Cobalt (mg/L)	GWC-24R	0.0072	n/a	9/11/2018	0.005ND	No	239	77.82	n/a	0.000...	NP (NDs) 1 of 2
Cobalt (mg/L)	GWC-25R	0.0072	n/a	9/11/2018	0.005ND	No	239	77.82	n/a	0.000...	NP (NDs) 1 of 2
Selenium (mg/L)	GWC-19R	0.010	n/a	9/10/2018	0.005ND	No	240	93.33	n/a	0.000...	NP (NDs) 1 of 2
Selenium (mg/L)	GWC-20R	0.010	n/a	9/10/2018	0.005ND	No	240	93.33	n/a	0.000...	NP (NDs) 1 of 2
Selenium (mg/L)	GWC-21R	0.010	n/a	9/10/2018	0.005ND	No	240	93.33	n/a	0.000...	NP (NDs) 1 of 2
Selenium (mg/L)	GWC-22R	0.010	n/a	9/7/2018	0.005ND	No	240	93.33	n/a	0.000...	NP (NDs) 1 of 2
Selenium (mg/L)	GWC-23R	0.010	n/a	9/11/2018	0.005ND	No	240	93.33	n/a	0.000...	NP (NDs) 1 of 2
Selenium (mg/L)	GWC-24R	0.010	n/a	9/11/2018	0.005ND	No	240	93.33	n/a	0.000...	NP (NDs) 1 of 2
Selenium (mg/L)	GWC-25R	0.010	n/a	9/11/2018	0.005ND	No	240	93.33	n/a	0.000...	NP (NDs) 1 of 2
Silver (mg/L)	GWC-16R	0.0050	n/a	9/7/2018	0.005ND	No	179	99.44	n/a	0.000...	NP (NDs) 1 of 2
Silver (mg/L)	GWC-17R	0.0050	n/a	9/11/2018	0.005ND	No	179	99.44	n/a	0.000...	NP (NDs) 1 of 2
Silver (mg/L)	GWC-18	0.0050	n/a	9/11/2018	0.005ND	No	179	99.44	n/a	0.000...	NP (NDs) 1 of 2
Silver (mg/L)	GWC-18R	0.0050	n/a	9/7/2018	0.005ND	No	179	99.44	n/a	0.000...	NP (NDs) 1 of 2
Silver (mg/L)	GWC-19R	0.0050	n/a	9/10/2018	0.005ND	No	179	99.44	n/a	0.000...	NP (NDs) 1 of 2
Silver (mg/L)	GWC-20R	0.0050	n/a	9/10/2018	0.005ND	No	179	99.44	n/a	0.000...	NP (NDs) 1 of 2
Silver (mg/L)	GWC-21R	0.0050	n/a	9/10/2018	0.005ND	No	179	99.44	n/a	0.000...	NP (NDs) 1 of 2
Silver (mg/L)	GWC-22R	0.0050	n/a	9/7/2018	0.005ND	No	179	99.44	n/a	0.000...	NP (NDs) 1 of 2
Silver (mg/L)	GWC-23R	0.0050	n/a	9/11/2018	0.005ND	No	179	99.44	n/a	0.000...	NP (NDs) 1 of 2
Vanadium (mg/L)	GWC-18R	0.028	n/a	9/7/2018	0.005ND	No	179	79.89	n/a	0.000...	NP (NDs) 1 of 2
Vanadium (mg/L)	GWC-19R	0.028	n/a	9/10/2018	0.005ND	No	179	79.89	n/a	0.000...	NP (NDs) 1 of 2
Vanadium (mg/L)	GWC-20R	0.028	n/a	9/10/2018	0.005ND	No	179	79.89	n/a	0.000...	NP (NDs) 1 of 2
Vanadium (mg/L)	GWC-21R	0.028	n/a	9/10/2018	0.005ND	No	179	79.89	n/a	0.000...	NP (NDs) 1 of 2
Vanadium (mg/L)	GWC-22R	0.028	n/a	9/7/2018	0.005ND	No	179	79.89	n/a	0.000...	NP (NDs) 1 of 2
Vanadium (mg/L)	GWC-23R	0.028	n/a	9/11/2018	0.005ND	No	179	79.89	n/a	0.000...	NP (NDs) 1 of 2
Vanadium (mg/L)	GWC-24R	0.028	n/a	9/11/2018	0.005ND	No	179	79.89	n/a	0.000...	NP (NDs) 1 of 2
Vanadium (mg/L)	GWC-25R	0.028	n/a	9/11/2018	0.005ND	No	179	79.89	n/a	0.000...	NP (NDs) 1 of 2
Zinc (mg/L)	GWC-16R	0.50	n/a	9/7/2018	0.005ND	No	179	34.08	n/a	0.000...	NP (normality) 1 of 2
Zinc (mg/L)	GWC-17R	0.50	n/a	9/11/2018	0.005ND	No	179	34.08	n/a	0.000...	NP (normality) 1 of 2
Zinc (mg/L)	GWC-18	0.50	n/a	9/11/2018	0.005ND	No	179	34.08	n/a	0.000...	NP (normality) 1 of 2
Zinc (mg/L)	GWC-18R	0.50	n/a	9/7/2018	0.005ND	No	179	34.08	n/a	0.000...	NP (normality) 1 of 2
Zinc (mg/L)	GWC-19R	0.50	n/a	9/10/2018	0.005ND	No	179	34.08	n/a	0.000...	NP (normality) 1 of 2
Zinc (mg/L)	GWC-20R	0.50	n/a	9/10/2018	0.006ND	No	179	34.08	n/a	0.000...	NP (normality) 1 of 2
Zinc (mg/L)	GWC-21R	0.50	n/a	9/10/2018	0.005ND	No	179	34.08	n/a	0.000...	NP (normality) 1 of 2
Zinc (mg/L)	GWC-22R	0.50	n/a	9/7/2018	0.005ND	No	179	34.08	n/a	0.000...	NP (normality) 1 of 2
Copper (mg/L)	GWC-16R	0.022	n/a	9/7/2018	0.0125ND	No	179	75.98	n/a	0.000...	NP (NDs) 1 of 2
Copper (mg/L)	GWC-17R	0.022	n/a	9/11/2018	0.0125ND	No	179	75.98	n/a	0.000...	NP (NDs) 1 of 2
Copper (mg/L)	GWC-18	0.022	n/a	9/11/2018	0.0125ND	No	179	75.98	n/a	0.000...	NP (NDs) 1 of 2
Copper (mg/L)	GWC-18R	0.022	n/a	9/7/2018	0.0125ND	No	179	75.98	n/a	0.000...	NP (NDs) 1 of 2
Copper (mg/L)	GWC-19R	0.022	n/a	9/10/2018	0.0125ND	No	179	75.98	n/a	0.000...	NP (NDs) 1 of 2
Copper (mg/L)	GWC-20R	0.022	n/a	9/10/2018	0.0125ND	No	179	75.98	n/a	0.000...	NP (NDs) 1 of 2

Interwell Prediction Limit

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR Printed 12/7/2018, 9:56 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Copper (mg/L)	GWC-21R	0.022	n/a	9/10/2018	0.0125ND	No	179	75.98	n/a	0.000...	NP (NDs) 1 of 2
Copper (mg/L)	GWC-22R	0.022	n/a	9/7/2018	0.0125ND	No	179	75.98	n/a	0.000...	NP (NDs) 1 of 2
Copper (mg/L)	GWC-23R	0.022	n/a	9/11/2018	0.0125ND	No	179	75.98	n/a	0.000...	NP (NDs) 1 of 2
Copper (mg/L)	GWC-24R	0.022	n/a	9/11/2018	0.0125ND	No	179	75.98	n/a	0.000...	NP (NDs) 1 of 2
Copper (mg/L)	GWC-25R	0.022	n/a	9/11/2018	0.0125ND	No	179	75.98	n/a	0.000...	NP (NDs) 1 of 2
Lead (mg/L)	GWC-16R	0.013	n/a	9/7/2018	0.0025ND	No	240	82.92	n/a	0.000...	NP (NDs) 1 of 2
Lead (mg/L)	GWC-17R	0.013	n/a	9/11/2018	0.0025ND	No	240	82.92	n/a	0.000...	NP (NDs) 1 of 2
Lead (mg/L)	GWC-18	0.013	n/a	9/11/2018	0.0025ND	No	240	82.92	n/a	0.000...	NP (NDs) 1 of 2
Lead (mg/L)	GWC-18R	0.013	n/a	9/7/2018	0.0025ND	No	240	82.92	n/a	0.000...	NP (NDs) 1 of 2
Lead (mg/L)	GWC-19R	0.013	n/a	9/10/2018	0.0025ND	No	240	82.92	n/a	0.000...	NP (NDs) 1 of 2
Lead (mg/L)	GWC-20R	0.013	n/a	9/10/2018	0.0025ND	No	240	82.92	n/a	0.000...	NP (NDs) 1 of 2
Lead (mg/L)	GWC-21R	0.013	n/a	9/10/2018	0.0025ND	No	240	82.92	n/a	0.000...	NP (NDs) 1 of 2
Lead (mg/L)	GWC-22R	0.013	n/a	9/7/2018	0.0025ND	No	240	82.92	n/a	0.000...	NP (NDs) 1 of 2
Lead (mg/L)	GWC-23R	0.013	n/a	9/11/2018	0.0025ND	No	240	82.92	n/a	0.000...	NP (NDs) 1 of 2
Lead (mg/L)	GWC-24R	0.013	n/a	9/11/2018	0.0025ND	No	240	82.92	n/a	0.000...	NP (NDs) 1 of 2
Lead (mg/L)	GWC-25R	0.013	n/a	9/11/2018	0.0025ND	No	240	82.92	n/a	0.000...	NP (NDs) 1 of 2
Mercury (mg/L)	GWC-16R	0.025	n/a	9/7/2018	0.00025ND	No	240	92.08	n/a	0.000...	NP (NDs) 1 of 2
Mercury (mg/L)	GWC-17R	0.025	n/a	9/11/2018	0.00025ND	No	240	92.08	n/a	0.000...	NP (NDs) 1 of 2
Mercury (mg/L)	GWC-18	0.025	n/a	9/11/2018	0.00025ND	No	240	92.08	n/a	0.000...	NP (NDs) 1 of 2
Mercury (mg/L)	GWC-18R	0.025	n/a	9/7/2018	0.00025ND	No	240	92.08	n/a	0.000...	NP (NDs) 1 of 2
Mercury (mg/L)	GWC-19R	0.025	n/a	9/10/2018	0.00025ND	No	240	92.08	n/a	0.000...	NP (NDs) 1 of 2
Mercury (mg/L)	GWC-20R	0.025	n/a	9/10/2018	0.00025ND	No	240	92.08	n/a	0.000...	NP (NDs) 1 of 2
Mercury (mg/L)	GWC-21R	0.025	n/a	9/10/2018	0.00025ND	No	240	92.08	n/a	0.000...	NP (NDs) 1 of 2
Mercury (mg/L)	GWC-22R	0.025	n/a	9/7/2018	0.00025ND	No	240	92.08	n/a	0.000...	NP (NDs) 1 of 2
Mercury (mg/L)	GWC-23R	0.025	n/a	9/11/2018	0.00025ND	No	240	92.08	n/a	0.000...	NP (NDs) 1 of 2
Mercury (mg/L)	GWC-24R	0.025	n/a	9/11/2018	0.00025ND	No	240	92.08	n/a	0.000...	NP (NDs) 1 of 2

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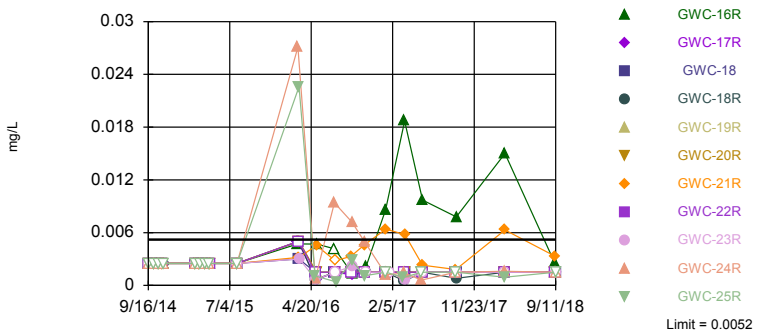
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 240 background values. 83.33% NDs. Annual per-constituent alpha = 0.00108. Individual comparison alpha = 0.00004913 (1 of 2). Comparing 11 points to limit.

Constituent: Antimony Analysis Run 12/7/2018 9:45 AM View: cells 3&4 OB&BR metals
Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

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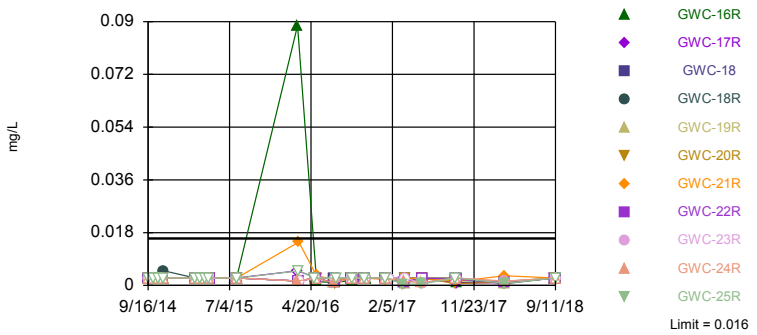
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 240 background values. 81.25% NDs. Annual per-constituent alpha = 0.00108. Individual comparison alpha = 0.00004913 (1 of 2). Comparing 11 points to limit.

Constituent: Arsenic Analysis Run 12/7/2018 9:45 AM View: cells 3&4 OB&BR metals
Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

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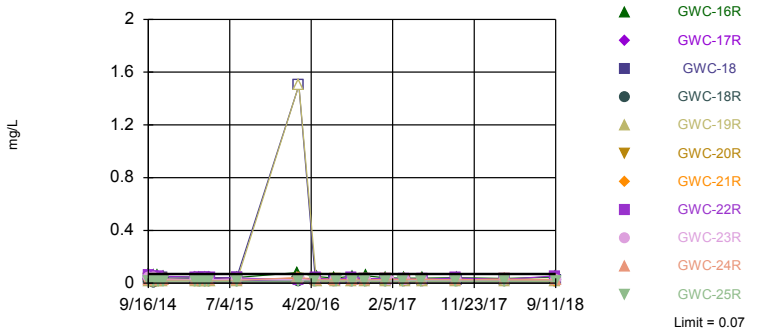
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Parametric



Background Data Summary (based on natural log transformation): Mean=-4.002, Std. Dev.=0.6248, n=240, 2.917% NDs. Normality test: Chi Squared @alpha = 0.01, calculated = 12.83, critical = 14.07. Kappa = 2.149 (c=16, w=11, 1 of 2, event alpha = 0.05132). N exceeds UG tables; Kappa based on n=150. Report alpha = 0.003287. Individual comparison alpha = 0.0002993. Comparing 11 points to limit.

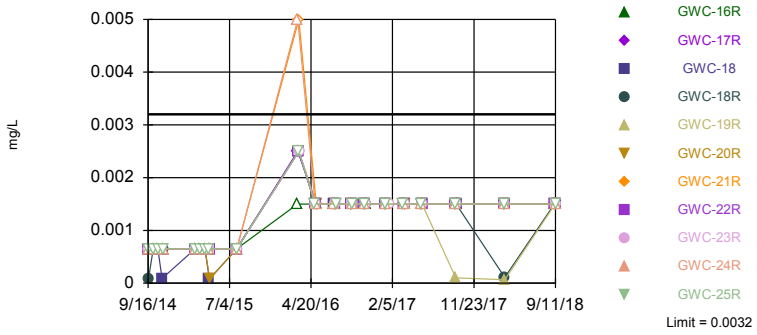
Constituent: Barium Analysis Run 12/7/2018 9:46 AM View: cells 3&4 OB&BR metals
Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Sanitas™ v.9.5.32 Sanitas software licensed to AMEC. UG
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 240 background values. 84.58% NDs. Annual per-constituent alpha = 0.00108. Individual comparison alpha = 0.00004913 (1 of 2). Comparing 11 points to limit.

Constituent: Beryllium Analysis Run 12/7/2018 9:46 AM View: cells 3&4 OB&BR metals
Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 12/7/2018 9:56 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-36R (bg)	GWA-36 (bg)	GWC-25R	GWC-24R	GWA-37 (bg)	GWA-38 (bg)	GWC-16R	GWC-18R	GWC-17R
9/15/2014	<0.005	<0.005							
9/16/2014			<0.005	<0.005	<0.005	<0.005	<0.005		
9/17/2014								<0.005	<0.005
9/18/2014									
10/3/2014	<0.005	<0.005			<0.005	<0.005			
10/4/2014			<0.005	<0.005			<0.005	<0.005	<0.005
10/5/2014									
10/20/2014	<0.005	<0.005			<0.005	<0.005			
10/21/2014							<0.005	<0.005	<0.005
10/22/2014									
10/23/2014			<0.005	<0.005					
11/5/2014									
11/10/2014	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005			
11/11/2014							<0.005	<0.005	<0.005
3/2/2015	<0.005	<0.005			<0.005	<0.005			
3/3/2015							<0.005	<0.005	<0.005
3/4/2015			<0.005	<0.005					
3/17/2015	<0.005	<0.005			<0.005	<0.005			
3/18/2015							<0.005	<0.005	<0.005
3/19/2015									
3/20/2015			<0.005	<0.005					
4/5/2015	<0.005	<0.005			<0.005				
4/6/2015						<0.005	<0.005		<0.005
4/7/2015								<0.005	
4/8/2015				<0.005					
4/9/2015			<0.005						
4/21/2015	<0.005	<0.005							
4/22/2015					<0.005	<0.005			
4/23/2015			<0.005	<0.005			<0.005	<0.005	<0.005
4/24/2015									
5/8/2015									
5/9/2015									
5/17/2015									
5/18/2015									
5/19/2015									
5/25/2015									
5/26/2015									
6/8/2015									
6/9/2015									
6/17/2015									
6/18/2015									
6/24/2015									
6/25/2015									
6/30/2015									
7/1/2015									
7/6/2015									
7/7/2015									
7/28/2015	<0.005	<0.005			<0.005	<0.005			
7/29/2015							<0.005	<0.005	<0.005
7/30/2015			<0.005	<0.005					
8/12/2015									
8/13/2015									

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 12/7/2018 9:56 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-36R (bg)	GWA-36 (bg)	GWC-25R	GWC-24R	GWA-37 (bg)	GWA-38 (bg)	GWC-16R	GWC-18R	GWC-17R
2/29/2016									
3/1/2016	<0.003	<0.003			0.00214 (J)				
3/2/2016						<0.003			
3/3/2016							0.00472 (D)		
3/4/2016				0.0271 (J)					<0.01
3/7/2016								<0.01	
3/8/2016			0.0226 (J)						
3/9/2016									
5/2/2016	<0.003	<0.003							
5/3/2016					0.00178 (J)	<0.003			
5/4/2016			0.00107 (J)						
5/5/2016				0.000761 (J)				0.000672 (J)	
5/6/2016									
5/9/2016									
5/10/2016							0.0047		0.000641 (J)
7/6/2016	<0.003 (*)								
7/7/2016		<0.003 (*)				<0.003			
7/8/2016					0.0023 (J)				
7/11/2016									
7/12/2016				0.0094					
7/13/2016							<0.0083 (*)	<0.003 (*)	
7/14/2016									<0.003 (*)
7/15/2016									
7/18/2016			0.0004 (J)						
9/7/2016	<0.003	<0.003			0.0039				
9/8/2016						<0.003			
9/9/2016									
9/12/2016								<0.003	
9/13/2016			0.0028 (J)	0.0072					
9/14/2016									0.0012 (J)
9/15/2016							0.0013 (J)		
10/25/2016	<0.003	<0.003			0.0035	<0.003			
10/26/2016									
10/27/2016			0.0011 (J)	0.005					
10/31/2016									
11/1/2016								<0.003	<0.003
11/2/2016							0.0021 (J)		
1/5/2017	<0.003	<0.003							
1/6/2017					0.0052				
1/9/2017									
1/11/2017							0.0086	<0.003	<0.003
1/12/2017									
1/13/2017			<0.003	0.0012 (J)					
1/25/2017									
2/9/2017						<0.003			
3/14/2017	<0.003				0.003				
3/15/2017		0.0004 (J)							
3/16/2017			0.0009 (J)						
3/20/2017				0.0014 (J)			0.0187	0.0005 (J)	
3/21/2017									<0.003
3/22/2017									
3/23/2017						<0.003			

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 12/7/2018 9:56 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-36R (bg)	GWA-36 (bg)	GWC-25R	GWC-24R	GWA-37 (bg)	GWA-38 (bg)	GWC-16R	GWC-18R	GWC-17R
5/16/2017	<0.003				0.0026 (J)				
5/17/2017		0.0032				<0.003			
5/18/2017									
5/19/2017			<0.003	0.0006 (J)					
5/22/2017								<0.003	
5/23/2017							0.0097		<0.003
5/24/2017									
7/19/2017									
9/15/2017	<0.003	<0.003			0.0016 (J)				
9/18/2017									
9/19/2017			<0.003	<0.003		<0.003			
9/20/2017									
9/21/2017							0.0078	0.0008 (J)	
9/22/2017									<0.003
9/25/2017									
3/12/2018	<0.003	<0.003			0.0023 (J)				
3/13/2018			0.00093 (J)	0.0016 (J)		<0.003			
3/14/2018							0.015	<0.003	<0.003
9/6/2018	<0.003	<0.003			0.0024 (J)	<0.003			
9/7/2018							0.0026 (J)	<0.003	
9/10/2018									
9/11/2018			<0.003	<0.003					<0.003

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 12/7/2018 9:56 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-19R	GWC-18	GWC-23R	GWC-20R	GWC-21R	GWC-22R	GWA-51R_51RZ ...	GWA-52 (bg)	GWA-53R (bg)
9/15/2014									
9/16/2014									
9/17/2014	<0.005	<0.005							
9/18/2014			<0.005	<0.005	<0.005	<0.005			
10/3/2014									
10/4/2014	<0.005	<0.005							
10/5/2014			<0.005	<0.005	<0.005	<0.005			
10/20/2014									
10/21/2014	<0.005	<0.005							
10/22/2014			<0.005	<0.005	<0.005	<0.005			
10/23/2014									
11/5/2014	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005			
11/10/2014									
11/11/2014									
3/2/2015									
3/3/2015	<0.005	<0.005							
3/4/2015			<0.005	<0.005	<0.005	<0.005			
3/17/2015									
3/18/2015		<0.005							
3/19/2015	<0.005			<0.005	<0.005	<0.005			
3/20/2015			<0.005						
4/5/2015									
4/6/2015									
4/7/2015	<0.005	<0.005		<0.005					
4/8/2015			<0.005		<0.005	<0.005			
4/9/2015									
4/21/2015									
4/22/2015									
4/23/2015		<0.005	<0.005						
4/24/2015	<0.005			<0.005	<0.005	<0.005			
5/8/2015							<0.005	<0.005	<0.005
5/9/2015									
5/17/2015							<0.005	<0.005	<0.005
5/18/2015									
5/19/2015									
5/25/2015							<0.005	<0.005	<0.005
5/26/2015									
6/8/2015							<0.005	<0.005	<0.005
6/9/2015									
6/17/2015									
6/18/2015							<0.005	<0.005	<0.005
6/24/2015							<0.005	<0.005	<0.005
6/25/2015									
6/30/2015							<0.005	<0.005	<0.005
7/1/2015									
7/6/2015							<0.005	<0.005	<0.005
7/7/2015									
7/28/2015									
7/29/2015	<0.005	<0.005							
7/30/2015			<0.005	<0.005	<0.005	<0.005			
8/12/2015							<0.005	<0.005	<0.005
8/13/2015									

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 12/7/2018 9:56 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-19R	GWC-18	GWC-23R	GWC-20R	GWC-21R	GWC-22R	GWA-51R_51RZ ...	GWA-52 (bg)	GWA-53R (bg)
2/29/2016								<0.003	
3/1/2016									
3/2/2016									0.00106 (J)
3/3/2016									
3/4/2016									
3/7/2016	<0.01	0.003				<0.01			
3/8/2016				<0.01	0.00318				
3/9/2016			0.003						
5/2/2016									
5/3/2016									0.00171 (J)
5/4/2016							0.00254 (JD)	<0.003	
5/5/2016		<0.003				<0.003			
5/6/2016			0.000666 (J)						
5/9/2016	<0.003			<0.003	0.00454				
5/10/2016									
7/6/2016									
7/7/2016							0.0033 (D)		
7/8/2016								<0.003 (*)	
7/11/2016									<0.003 (*)
7/12/2016									
7/13/2016		<0.003 (*)							
7/14/2016	<0.003 (*)			<0.003 (*)		<0.003			
7/15/2016			<0.003 (*)		<0.0056 (*)				
7/18/2016									
9/7/2016									0.0013 (J)
9/8/2016							0.0046 (D)	<0.003	
9/9/2016					0.0033				
9/12/2016	<0.003			<0.003		<0.003			
9/13/2016		<0.003							
9/14/2016			0.0022 (J)						
9/15/2016									
10/25/2016									
10/26/2016							0.001 (JD)	<0.003	
10/27/2016					0.0046	<0.003			0.0011 (J)
10/31/2016	<0.003	<0.003		<0.003					
11/1/2016			<0.003						
11/2/2016									
1/5/2017									
1/6/2017							0.0011 (JD)	<0.003	0.0013 (J)
1/9/2017									
1/11/2017	<0.003								
1/12/2017		<0.003		<0.003	0.0064				
1/13/2017						<0.003			
1/25/2017			<0.003						
2/9/2017									
3/14/2017									
3/15/2017							0.0006 (JD)	<0.003	
3/16/2017									0.0029 (J)
3/20/2017						<0.003			
3/21/2017	<0.003				0.0058				
3/22/2017			0.0006 (J)	<0.003					
3/23/2017		<0.003							

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 12/7/2018 9:56 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-19R	GWC-18	GWC-23R	GWC-20R	GWC-21R	GWC-22R	GWA-51R_51RZ ...	GWA-52 (bg)	GWA-53R (bg)
5/16/2017									
5/17/2017								<0.003	
5/18/2017							0.0009 (JD)		
5/19/2017									<0.003
5/22/2017	<0.003			<0.003					
5/23/2017		<0.003			0.0023 (J)	<0.003			
5/24/2017			<0.003						
7/19/2017							<0.003 (D)		
9/15/2017								<0.003	
9/18/2017									
9/19/2017				<0.003	0.0018 (J)	<0.003	<0.003 (D)		<0.003
9/20/2017	<0.003								
9/21/2017			<0.003						
9/22/2017									
9/25/2017		<0.003							
3/12/2018									
3/13/2018						<0.003	<0.003	<0.003	0.0034
3/14/2018	<0.003	<0.003	<0.003	<0.003	0.0063				
9/6/2018								<0.003	
9/7/2018						<0.003	<0.003		
9/10/2018	<0.003			<0.003	0.0033				
9/11/2018		<0.003	<0.003						0.0033

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 12/7/2018 9:56 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-54 (bg)	GWA-56 (bg)	GWA-53 (bg)	GWA-55 (bg)	GWA-55R (bg)
9/15/2014					
9/16/2014					
9/17/2014					
9/18/2014					
10/3/2014					
10/4/2014					
10/5/2014					
10/20/2014					
10/21/2014					
10/22/2014					
10/23/2014					
11/5/2014					
11/10/2014					
11/11/2014					
3/2/2015					
3/3/2015					
3/4/2015					
3/17/2015					
3/18/2015					
3/19/2015					
3/20/2015					
4/5/2015					
4/6/2015					
4/7/2015					
4/8/2015					
4/9/2015					
4/21/2015					
4/22/2015					
4/23/2015					
4/24/2015					
5/8/2015					
5/9/2015	<0.005	<0.005	<0.005	<0.005	<0.005
5/17/2015					
5/18/2015	<0.005		<0.005	<0.005	<0.005
5/19/2015		<0.005			
5/25/2015	<0.005		<0.005		
5/26/2015		<0.005		<0.005	<0.005
6/8/2015			<0.005		
6/9/2015	<0.005	<0.005		<0.005	<0.005
6/17/2015	<0.005	<0.005	<0.005	<0.005	<0.005
6/18/2015					
6/24/2015			<0.005		
6/25/2015	<0.005	<0.005		<0.005	<0.005
6/30/2015			<0.005		
7/1/2015	<0.005	<0.005		<0.005	<0.005
7/6/2015			<0.005		
7/7/2015	<0.005	<0.005		<0.005	<0.005
7/28/2015					
7/29/2015					
7/30/2015					
8/12/2015	<0.005		<0.005		
8/13/2015		<0.005		<0.005	<0.005

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 12/7/2018 9:56 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-54 (bg)	GWA-56 (bg)	GWA-53 (bg)	GWA-55 (bg)	GWA-55R (bg)
2/29/2016					
3/1/2016					
3/2/2016	<0.003		0.000782 (J)	0.000608 (J)	
3/3/2016		<0.001			<0.003
3/4/2016					
3/7/2016					
3/8/2016					
3/9/2016					
5/2/2016					
5/3/2016			<0.003	<0.003	<0.003
5/4/2016	<0.003				
5/5/2016					
5/6/2016					
5/9/2016		<0.003			
5/10/2016					
7/6/2016					
7/7/2016					
7/8/2016	<0.003		<0.003 (*)		
7/11/2016		<0.003		<0.003 (*)	<0.003 (*)
7/12/2016					
7/13/2016					
7/14/2016					
7/15/2016					
7/18/2016					
9/7/2016					
9/8/2016	0.0019 (J)		0.0009 (J)		
9/9/2016		<0.003		<0.003	0.0009 (J)
9/12/2016					
9/13/2016					
9/14/2016					
9/15/2016					
10/25/2016					
10/26/2016	<0.003	<0.003	0.0012 (J)	<0.003	
10/27/2016					<0.003
10/31/2016					
11/1/2016					
11/2/2016					
1/5/2017					
1/6/2017					
1/9/2017	<0.003	0.0012 (J)	<0.003	<0.003	0.0023 (J)
1/11/2017					
1/12/2017					
1/13/2017					
1/25/2017					
2/9/2017					
3/14/2017					
3/15/2017	<0.003	<0.003			
3/16/2017			<0.003	<0.003	0.0007 (J)
3/20/2017					
3/21/2017					
3/22/2017					
3/23/2017					

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 12/7/2018 9:56 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-54 (bg)	GWA-56 (bg)	GWA-53 (bg)	GWA-55 (bg)	GWA-55R (bg)
5/16/2017					
5/17/2017					
5/18/2017	<0.003	<0.003		<0.003	0.0012 (J)
5/19/2017			0.0005 (J)		
5/22/2017					
5/23/2017					
5/24/2017					
7/19/2017					
9/15/2017	<0.003	<0.003		<0.003	
9/18/2017					<0.003
9/19/2017			<0.003		
9/20/2017					
9/21/2017					
9/22/2017					
9/25/2017					
3/12/2018				<0.003	<0.003
3/13/2018	<0.003	<0.003	<0.003		
3/14/2018					
9/6/2018	0.001 (J)				
9/7/2018		<0.003		<0.003	<0.003
9/10/2018					
9/11/2018			<0.003		

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 12/7/2018 9:56 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-36R (bg)	GWA-36 (bg)	GWC-25R	GWC-24R	GWA-37 (bg)	GWA-38 (bg)	GWC-16R	GWC-18R	GWC-17R
9/15/2014	0.0036 (J)	<0.005							
9/16/2014			<0.005	<0.005	<0.005	<0.005	<0.005		
9/17/2014								<0.005	<0.005
9/18/2014									
10/3/2014	<0.005	<0.005			<0.005	<0.005			
10/4/2014			<0.005	<0.005			<0.005	<0.005	<0.005
10/5/2014									
10/20/2014	0.0022 (J)	<0.005			<0.005	<0.005			
10/21/2014							<0.005	<0.005	<0.005
10/22/2014									
10/23/2014			<0.005	<0.005					
11/5/2014									
11/10/2014	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005			
11/11/2014							<0.005	0.005	<0.005
3/2/2015	<0.005	<0.005			<0.005	0.0062			
3/3/2015							<0.005	<0.005	<0.005
3/4/2015			<0.005	<0.005					
3/17/2015	<0.005	<0.005			<0.005	<0.005			
3/18/2015							<0.005	<0.005	<0.005
3/19/2015									
3/20/2015			<0.005	<0.005					
4/5/2015	<0.005	<0.005			<0.005				
4/6/2015						<0.005	<0.005		<0.005
4/7/2015								<0.005	
4/8/2015				<0.005					
4/9/2015			<0.005						
4/21/2015	<0.005	<0.005							
4/22/2015					<0.005	<0.005			
4/23/2015			<0.005	<0.005			<0.005	<0.005	<0.005
4/24/2015									
5/8/2015									
5/9/2015									
5/17/2015									
5/18/2015									
5/19/2015									
5/25/2015									
5/26/2015									
6/8/2015									
6/9/2015									
6/17/2015									
6/18/2015									
6/24/2015									
6/25/2015									
6/30/2015									
7/1/2015									
7/6/2015									
7/7/2015									
7/28/2015	<0.005	<0.005			<0.005	<0.005			
7/29/2015							<0.005	<0.005	<0.005
7/30/2015			<0.005	<0.005					
8/12/2015									
8/13/2015									

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 12/7/2018 9:56 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-36R (bg)	GWA-36 (bg)	GWC-25R	GWC-24R	GWA-37 (bg)	GWA-38 (bg)	GWC-16R	GWC-18R	GWC-17R
2/29/2016									
3/1/2016	<0.005	<0.005			<0.005				
3/2/2016						<0.005			
3/3/2016							0.08869 (JD)		
3/4/2016				0.0015 (J)					<0.01
3/7/2016								<0.003	
3/8/2016			<0.01						
3/9/2016									
5/2/2016	<0.005	<0.005							
5/3/2016					<0.005	<0.005			
5/4/2016			<0.005						
5/5/2016				<0.005				<0.005	
5/6/2016									
5/9/2016									
5/10/2016							0.00128 (J)		<0.005
7/6/2016	0.0008 (J)								
7/7/2016		<0.005				<0.005			
7/8/2016					<0.005				
7/11/2016									
7/12/2016				0.0009 (J)					
7/13/2016							0.001 (J)	<0.005	
7/14/2016									<0.005
7/15/2016									
7/18/2016			<0.005						
9/7/2016	<0.005	<0.005			<0.005				
9/8/2016						<0.005			
9/9/2016									
9/12/2016								<0.005	
9/13/2016			<0.005	<0.005					
9/14/2016									<0.005
9/15/2016							0.0017 (J)		
10/25/2016	<0.005	<0.005			<0.005	<0.005			
10/26/2016									
10/27/2016			<0.005	<0.005					
10/31/2016									
11/1/2016								<0.005	<0.005
11/2/2016							<0.005		
1/5/2017	<0.005	<0.005							
1/6/2017					<0.005				
1/9/2017									
1/11/2017							<0.005	<0.005	<0.005
1/12/2017									
1/13/2017			<0.005	<0.005					
1/25/2017									
2/9/2017						<0.005			
3/14/2017	<0.005				0.0005 (J)				
3/15/2017		<0.005							
3/16/2017			0.0004 (J)						
3/20/2017				0.0013 (J)			0.0012 (J)	0.0006 (J)	
3/21/2017									0.0009 (J)
3/22/2017									
3/23/2017						<0.005			

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 12/7/2018 9:56 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-36R (bg)	GWA-36 (bg)	GWC-25R	GWC-24R	GWA-37 (bg)	GWA-38 (bg)	GWC-16R	GWC-18R	GWC-17R
5/16/2017	<0.005				<0.005				
5/17/2017		<0.005				<0.005			
5/18/2017									
5/19/2017			0.0005 (J)	0.001 (J)					
5/22/2017								<0.005 (*)	
5/23/2017							<0.005		<0.005 (*)
5/24/2017									
7/19/2017									
9/15/2017	0.0007 (J)	<0.005			<0.005				
9/18/2017									
9/19/2017			<0.005	<0.005		<0.005			
9/20/2017									
9/21/2017							0.001 (J)	<0.005	
9/22/2017									0.0008 (J)
9/25/2017									
3/12/2018	<0.005	<0.005			<0.005				
3/13/2018			0.00073 (J)	0.0015 (J)		0.00061 (J)			
3/14/2018							0.0013 (J)	0.00057 (J)	0.00092 (J)
9/6/2018	<0.005	<0.005			<0.005	0.00071 (J)			
9/7/2018							<0.005	<0.005	
9/10/2018									
9/11/2018			<0.005	<0.005					<0.005

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 12/7/2018 9:56 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-19R	GWC-18	GWC-23R	GWC-20R	GWC-21R	GWC-22R	GWA-51R_51RZ ...	GWA-52 (bg)	GWA-53R (bg)
9/15/2014									
9/16/2014									
9/17/2014	<0.005	<0.005							
9/18/2014			<0.005	<0.005	<0.005	<0.005			
10/3/2014									
10/4/2014	<0.005	<0.005							
10/5/2014			<0.005	<0.005	<0.005	<0.005			
10/20/2014									
10/21/2014	<0.005	<0.005							
10/22/2014			<0.005	<0.005	<0.005	<0.005			
10/23/2014									
11/5/2014	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005			
11/10/2014									
11/11/2014									
3/2/2015									
3/3/2015	<0.005	<0.005							
3/4/2015			<0.005	<0.005	<0.005	<0.005			
3/17/2015									
3/18/2015		<0.005							
3/19/2015	<0.005			<0.005	<0.005	<0.005			
3/20/2015			<0.005						
4/5/2015									
4/6/2015									
4/7/2015	<0.005	<0.005		<0.005					
4/8/2015			<0.005		<0.005	<0.005			
4/9/2015									
4/21/2015									
4/22/2015									
4/23/2015		<0.005	<0.005						
4/24/2015	<0.005			<0.005	<0.005	<0.005			
5/8/2015							<0.005	<0.005	<0.005
5/9/2015									
5/17/2015							0.0021 (J)	<0.005	<0.005
5/18/2015									
5/19/2015									
5/25/2015							<0.005	<0.005	<0.005
5/26/2015									
6/8/2015							0.002 (J)	<0.005	<0.005
6/9/2015									
6/17/2015									
6/18/2015							0.0028 (J)	<0.005	<0.005
6/24/2015							0.0074	<0.005	<0.005
6/25/2015									
6/30/2015							0.0065	<0.005	<0.005
7/1/2015									
7/6/2015							0.0057	<0.005	<0.005
7/7/2015									
7/28/2015									
7/29/2015	<0.005	<0.005							
7/30/2015			<0.005	<0.005	<0.005	<0.005			
8/12/2015							0.0162	<0.005	<0.005
8/13/2015									

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 12/7/2018 9:56 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-19R	GWC-18	GWC-23R	GWC-20R	GWC-21R	GWC-22R	GWA-51R_51RZ ...	GWA-52 (bg)	GWA-53R (bg)
2/29/2016								<0.005	
3/1/2016									
3/2/2016									<0.005
3/3/2016									
3/4/2016									
3/7/2016	<0.003	<0.003				<0.003			
3/8/2016				<0.003	0.0148				
3/9/2016			<0.003						
5/2/2016									
5/3/2016									<0.005
5/4/2016							<0.005 (D)	<0.005	
5/5/2016		<0.005				<0.005			
5/6/2016			<0.005						
5/9/2016	<0.005			<0.005	0.00347 (J)				
5/10/2016									
7/6/2016									
7/7/2016							0.0009 (JD)		
7/8/2016								<0.005	
7/11/2016									<0.005
7/12/2016									
7/13/2016		<0.005							
7/14/2016	<0.005			0.0008 (J)		0.001 (J)			
7/15/2016			<0.005		0.0017 (J)				
7/18/2016									
9/7/2016									<0.005
9/8/2016							<0.005 (D)	<0.005	
9/9/2016					<0.005				
9/12/2016	<0.005			<0.005		<0.005			
9/13/2016		<0.005							
9/14/2016			<0.005						
9/15/2016									
10/25/2016									
10/26/2016							<0.005 (D)	<0.005	
10/27/2016					<0.005	<0.005			<0.005
10/31/2016	<0.005	<0.005		<0.005					
11/1/2016			<0.005						
11/2/2016									
1/5/2017									
1/6/2017							<0.005 (D)	<0.005	<0.005
1/9/2017									
1/11/2017	<0.005								
1/12/2017		<0.005		<0.005	0.002 (J)				
1/13/2017						<0.005			
1/25/2017			<0.005						
2/9/2017									
3/14/2017									
3/15/2017							0.0006 (JD)	<0.005	
3/16/2017									0.0005 (J)
3/20/2017						0.0012 (J)			
3/21/2017	0.0007 (J)				0.0021 (J)				
3/22/2017			<0.005	<0.005					
3/23/2017		<0.005							

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 12/7/2018 9:56 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-19R	GWC-18	GWC-23R	GWC-20R	GWC-21R	GWC-22R	GWA-51R_51RZ ...	GWA-52 (bg)	GWA-53R (bg)
5/16/2017									
5/17/2017								<0.005	
5/18/2017							0.0007 (JD)		
5/19/2017									0.0007 (J)
5/22/2017	<0.005 (*)			<0.005 (*)					
5/23/2017		<0.005			<0.005 (*)	<0.005			
5/24/2017			0.0006 (J)						
7/19/2017							0.0061 (D)		
9/15/2017								0.0006 (J)	
9/18/2017									
9/19/2017				0.0006 (J)	0.0013 (J)	0.0021 (J)	0.0021 (JD)		<0.005
9/20/2017	<0.005								
9/21/2017			<0.005						
9/22/2017									
9/25/2017		<0.005							
3/12/2018									
3/13/2018						0.00087 (J)	0.0017 (J)	0.00063 (J)	<0.005
3/14/2018	0.00076 (J)	0.00091 (J)	0.0014 (J)	0.0011 (J)	0.0033 (J)				
9/6/2018								<0.005	
9/7/2018						<0.005	<0.005		
9/10/2018	<0.005			<0.005	<0.005				
9/11/2018		<0.005	<0.005						<0.005

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 12/7/2018 9:56 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-54 (bg)	GWA-56 (bg)	GWA-53 (bg)	GWA-55 (bg)	GWA-55R (bg)
9/15/2014					
9/16/2014					
9/17/2014					
9/18/2014					
10/3/2014					
10/4/2014					
10/5/2014					
10/20/2014					
10/21/2014					
10/22/2014					
10/23/2014					
11/5/2014					
11/10/2014					
11/11/2014					
3/2/2015					
3/3/2015					
3/4/2015					
3/17/2015					
3/18/2015					
3/19/2015					
3/20/2015					
4/5/2015					
4/6/2015					
4/7/2015					
4/8/2015					
4/9/2015					
4/21/2015					
4/22/2015					
4/23/2015					
4/24/2015					
5/8/2015					
5/9/2015	<0.005	<0.005	<0.005	<0.005	<0.005
5/17/2015					
5/18/2015	<0.005		<0.005	<0.005	<0.005
5/19/2015		<0.005			
5/25/2015	<0.005		<0.005		
5/26/2015		<0.005		<0.005	<0.005
6/8/2015			<0.005		
6/9/2015	<0.005	<0.005		<0.005	0.0028 (J)
6/17/2015	<0.005	<0.005	<0.005	<0.005	<0.005
6/18/2015					
6/24/2015			<0.005		
6/25/2015	<0.005	<0.005		<0.005	<0.005
6/30/2015			<0.005		
7/1/2015	<0.005	<0.005		<0.005	0.0024 (J)
7/6/2015			<0.005		
7/7/2015	<0.005	<0.005		<0.005	<0.005
7/28/2015					
7/29/2015					
7/30/2015					
8/12/2015	<0.005		<0.005		
8/13/2015		0.0021 (J)		<0.005	<0.005

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 12/7/2018 9:56 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-54 (bg)	GWA-56 (bg)	GWA-53 (bg)	GWA-55 (bg)	GWA-55R (bg)
2/29/2016					
3/1/2016					
3/2/2016	<0.005		<0.005	<0.005	
3/3/2016		<0.003			<0.005
3/4/2016					
3/7/2016					
3/8/2016					
3/9/2016					
5/2/2016					
5/3/2016			<0.005	<0.005	<0.005
5/4/2016	<0.005				
5/5/2016					
5/6/2016					
5/9/2016		<0.005			
5/10/2016					
7/6/2016					
7/7/2016					
7/8/2016	<0.005		<0.005		
7/11/2016		0.001 (J)		<0.005	0.001 (J)
7/12/2016					
7/13/2016					
7/14/2016					
7/15/2016					
7/18/2016					
9/7/2016					
9/8/2016	<0.005		<0.005		
9/9/2016		<0.005		<0.005	<0.005
9/12/2016					
9/13/2016					
9/14/2016					
9/15/2016					
10/25/2016					
10/26/2016	<0.005	<0.005	<0.005	<0.005	
10/27/2016					<0.005
10/31/2016					
11/1/2016					
11/2/2016					
1/5/2017					
1/6/2017					
1/9/2017	<0.005	<0.005	<0.005	<0.005	<0.005
1/11/2017					
1/12/2017					
1/13/2017					
1/25/2017					
2/9/2017					
3/14/2017					
3/15/2017	0.0006 (J)	0.0005 (J)			
3/16/2017			0.0005 (J)	0.0005 (J)	0.0007 (J)
3/20/2017					
3/21/2017					
3/22/2017					
3/23/2017					

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 12/7/2018 9:56 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-54 (bg)	GWA-56 (bg)	GWA-53 (bg)	GWA-55 (bg)	GWA-55R (bg)
5/16/2017					
5/17/2017					
5/18/2017	<0.005	0.0006 (J)		0.0006 (J)	0.0006 (J)
5/19/2017			0.0007 (J)		
5/22/2017					
5/23/2017					
5/24/2017					
7/19/2017					
9/15/2017	<0.005	0.0008 (J)		0.0007 (J)	
9/18/2017					<0.005
9/19/2017			<0.005		
9/20/2017					
9/21/2017					
9/22/2017					
9/25/2017					
3/12/2018				<0.005	<0.005
3/13/2018	0.00066 (J)	0.00088 (J)	0.00058 (J)		
3/14/2018					
9/6/2018	0.00057 (J)				
9/7/2018		<0.005		<0.005	<0.005
9/10/2018					
9/11/2018			<0.005		

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 12/7/2018 9:56 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-36R (bg)	GWA-36 (bg)	GWC-25R	GWC-24R	GWA-37 (bg)	GWA-38 (bg)	GWC-16R	GWC-19R	GWC-17R
9/15/2014	0.031	0.0069							
9/16/2014			0.015	0.019	0.0071	0.014	0.069		
9/17/2014								0.018	0.019
9/18/2014									
10/3/2014	0.024	0.0045			0.0087	0.016			
10/4/2014			0.015	0.019			0.057	0.017	0.02
10/5/2014									
10/20/2014	0.024	0.0044			0.0085	0.014			
10/21/2014							0.056	0.017	0.02
10/22/2014									
10/23/2014			0.015	0.019					
11/5/2014								0.017	
11/10/2014	0.014	<0.0013	0.015	0.019	0.008	0.015			
11/11/2014							0.05		0.021
3/2/2015	0.013	0.0045			0.0063	0.03			
3/3/2015							0.045	0.016	0.02
3/4/2015			0.016	0.021					
3/17/2015	0.013	0.0078			0.0066	0.018			
3/18/2015							0.044		0.019
3/19/2015								0.015	
3/20/2015			0.015	0.02					
4/5/2015	0.022	0.01			0.0068				
4/6/2015						0.014	0.045		0.02
4/7/2015								0.017	
4/8/2015				0.023					
4/9/2015			0.016						
4/21/2015	0.018	0.013							
4/22/2015					0.0094	0.012			
4/23/2015			0.015	0.02			0.041		0.019
4/24/2015								0.015	
5/8/2015									
5/9/2015									
5/17/2015									
5/18/2015									
5/19/2015									
5/25/2015									
5/26/2015									
6/8/2015									
6/9/2015									
6/17/2015									
6/18/2015									
6/24/2015									
6/25/2015									
6/30/2015									
7/1/2015									
7/6/2015									
7/7/2015									
7/28/2015	0.022	0.011			0.0057	0.012			
7/29/2015							0.043	0.016	0.02
7/30/2015			0.015	0.021					
8/12/2015									
2/29/2016									

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 12/7/2018 9:56 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-36R (bg)	GWA-36 (bg)	GWC-25R	GWC-24R	GWA-37 (bg)	GWA-38 (bg)	GWC-16R	GWC-19R	GWC-17R
3/1/2016	0.021	0.0189			0.0101				
3/2/2016						0.0123			
3/3/2016							0.0806 (D)		
3/4/2016				0.0422					0.0262 (J)
3/7/2016								<3	
3/8/2016			0.0161						
3/9/2016									
5/2/2016	0.0225	0.0133							
5/3/2016					0.0104	0.0114			
5/4/2016			0.0167						
5/5/2016				0.0249					
5/6/2016									
5/9/2016								0.0162	
5/10/2016							0.0495		0.0204
7/6/2016	0.0249								
7/7/2016		0.013				0.012			
7/8/2016					0.0095 (J)				
7/11/2016									
7/12/2016				0.0246					
7/13/2016							0.0374		
7/14/2016								0.0142	0.0198
7/15/2016									
7/18/2016			0.0162						
9/7/2016	0.0251	0.0116			0.0095 (J)				
9/8/2016						0.0131			
9/9/2016									
9/12/2016								0.0154	
9/13/2016			0.0161	0.0236					
9/14/2016									0.0183
9/15/2016							0.0542		
10/25/2016	0.0274	0.0129			0.0121	0.0122			
10/26/2016									
10/27/2016			0.016	0.0229					
10/31/2016								0.015	
11/1/2016									0.0209
11/2/2016							0.0561		
1/5/2017	0.028	0.013							
1/6/2017					0.014				
1/9/2017									
1/11/2017							0.0401	0.0148	0.0194
1/12/2017									
1/13/2017			0.015	0.0292					
1/25/2017									
2/9/2017						0.0104			
3/14/2017	0.02				0.009 (J)				
3/15/2017		0.0121							
3/16/2017			0.0163						
3/20/2017				0.029			0.0383		
3/21/2017								0.0159	0.0201
3/22/2017									
3/23/2017						0.0128			
5/16/2017	0.0221				0.0084 (J)				

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 12/7/2018 9:56 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-36R (bg)	GWA-36 (bg)	GWC-25R	GWC-24R	GWA-37 (bg)	GWA-38 (bg)	GWC-16R	GWC-19R	GWC-17R
5/17/2017		0.0123				0.0113			
5/18/2017									
5/19/2017			0.0164	0.0295					
5/22/2017								0.0155	
5/23/2017							0.0376		0.0199
5/24/2017									
7/19/2017									
9/15/2017	0.0231	0.0127			0.0078 (J)				
9/18/2017									
9/19/2017			0.0147	0.0248		0.0114			
9/20/2017								0.0164	
9/21/2017							0.0418		
9/22/2017									0.0195
9/25/2017									
3/12/2018	0.023	0.014			0.006 (J)				
3/13/2018			0.015	0.031		0.011			
3/14/2018							0.036	0.016	0.02
9/6/2018	0.024	0.013			0.0058 (J)	0.011			
9/7/2018							0.047		
9/10/2018								0.016	
9/11/2018			0.015	0.024					0.019

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 12/7/2018 9:56 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-18R	GWC-18	GWC-21R	GWC-20R	GWC-23R	GWC-22R	GWA-52 (bg)	GWA-51R_51RZ ...	GWA-53R (bg)
9/15/2014									
9/16/2014									
9/17/2014	0.015	0.035							
9/18/2014			0.023	0.031	0.042	0.057			
10/3/2014									
10/4/2014	<0.0013	0.038							
10/5/2014			0.025	0.032	0.038	0.052			
10/20/2014									
10/21/2014	0.027	0.034							
10/22/2014			0.025	0.03	0.029	0.052			
10/23/2014									
11/5/2014		0.04	0.025	0.031	0.031				
11/10/2014									
11/11/2014	0.028								
3/2/2015									
3/3/2015	0.034	0.033							
3/4/2015			0.024	0.026	0.03	0.046			
3/17/2015									
3/18/2015	0.014	0.031							
3/19/2015			0.024	0.028		0.045			
3/20/2015					0.027				
4/5/2015									
4/6/2015									
4/7/2015	0.017	0.038		0.031					
4/8/2015			0.027		0.032	0.045			
4/9/2015									
4/21/2015									
4/22/2015									
4/23/2015	0.013	0.031			0.026				
4/24/2015			0.025	0.027		0.039			
5/8/2015							0.033	0.0094	0.014
5/9/2015									
5/17/2015							0.04	0.014	0.015
5/18/2015									
5/19/2015									
5/25/2015							0.039	0.012	0.014
5/26/2015									
6/8/2015							0.031	0.0094	0.014
6/9/2015									
6/17/2015									
6/18/2015							0.039	0.0075	0.013
6/24/2015							0.042	0.0056	0.014
6/25/2015									
6/30/2015							0.033	0.0047	0.014
7/1/2015									
7/6/2015							0.031	0.0047	0.013
7/7/2015									
7/28/2015									
7/29/2015	0.013	0.045							
7/30/2015			0.025	0.032	0.029	0.039			
8/12/2015							<0.02	0.00383 (J)	0.015 (J)
2/29/2016							0.028		

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 12/7/2018 9:56 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-18R	GWC-18	GWC-21R	GWC-20R	GWC-23R	GWC-22R	GWA-52 (bg)	GWA-51R_51RZ ...	GWA-53R (bg)
3/1/2016									
3/2/2016									0.015
3/3/2016									
3/4/2016									
3/7/2016	0.0129	<3				0.026			
3/8/2016			0.0377	0.0298					
3/9/2016					0.0284 (J)				
5/2/2016									
5/3/2016									0.0144
5/4/2016							0.0273	0.0207 (D)	
5/5/2016	0.0149	0.0278				0.0374			
5/6/2016					0.0233				
5/9/2016			0.0347	0.0304					
5/10/2016									
7/6/2016									
7/7/2016								0.0207 (D)	
7/8/2016							0.0284		
7/11/2016									0.0145
7/12/2016									
7/13/2016	0.0132	0.0255							
7/14/2016				0.0307		0.0271			
7/15/2016			0.0259		0.0208				
7/18/2016									
9/7/2016									0.014
9/8/2016							0.0242	0.0278 (D)	
9/9/2016			0.0242						
9/12/2016	0.0142			0.0331		0.045			
9/13/2016		0.0251							
9/14/2016					0.0198				
9/15/2016									
10/25/2016									
10/26/2016							0.021	0.0204 (D)	
10/27/2016			0.0227			0.0359			0.0142
10/31/2016		0.0277		0.0321					
11/1/2016	0.0127				0.0207				
11/2/2016									
1/5/2017									
1/6/2017							0.0219	0.0221 (D)	0.0139
1/9/2017									
1/11/2017	0.0146								
1/12/2017		0.0258	0.0253	0.0291					
1/13/2017						0.0338			
1/25/2017					0.0195				
2/9/2017									
3/14/2017									
3/15/2017							0.0202	0.0172 (D)	
3/16/2017									0.0145
3/20/2017	0.0147					0.033			
3/21/2017			0.0292						
3/22/2017				0.025	0.0211				
3/23/2017		0.0254							
5/16/2017									

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 12/7/2018 9:56 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-18R	GWC-18	GWC-21R	GWC-20R	GWC-23R	GWC-22R	GWA-52 (bg)	GWA-51R_51RZ ...	GWA-53R (bg)
5/17/2017							0.0219		
5/18/2017								0.0181 (D)	
5/19/2017									0.0161
5/22/2017	0.0146			0.0276					
5/23/2017		0.0247	0.0282			0.0287			
5/24/2017					0.0217				
7/19/2017								0.018 (D)	
9/15/2017							0.0209		
9/18/2017									
9/19/2017			0.0276	0.034		0.0389		0.0271 (D)	0.0153
9/20/2017									
9/21/2017	0.0152				0.0226				
9/22/2017									
9/25/2017		0.0228							
3/12/2018									
3/13/2018						0.028	0.02	0.017	0.015
3/14/2018	0.014	0.025	0.024	0.03	0.024				
9/6/2018							0.024		
9/7/2018	0.015					0.055		0.022	
9/10/2018			0.016	0.028					
9/11/2018		0.019			0.023				0.015

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 12/7/2018 9:56 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-54 (bg)	GWA-55 (bg)	GWA-56 (bg)	GWA-55R (bg)	GWA-53 (bg)
9/15/2014					
9/16/2014					
9/17/2014					
9/18/2014					
10/3/2014					
10/4/2014					
10/5/2014					
10/20/2014					
10/21/2014					
10/22/2014					
10/23/2014					
11/5/2014					
11/10/2014					
11/11/2014					
3/2/2015					
3/3/2015					
3/4/2015					
3/17/2015					
3/18/2015					
3/19/2015					
3/20/2015					
4/5/2015					
4/6/2015					
4/7/2015					
4/8/2015					
4/9/2015					
4/21/2015					
4/22/2015					
4/23/2015					
4/24/2015					
5/8/2015					
5/9/2015	0.054	0.022	0.018	0.042	0.044
5/17/2015					
5/18/2015	0.058	0.031		0.063	0.04
5/19/2015			0.02		
5/25/2015	0.051				0.036
5/26/2015		0.028	0.02	0.057	
6/8/2015					0.028
6/9/2015	0.034	0.031	0.02	0.07	
6/17/2015	0.032	0.029	0.019	0.065	0.026
6/18/2015					
6/24/2015					0.021
6/25/2015	0.032	0.024	0.019	0.068	
6/30/2015					0.018
7/1/2015	0.029	0.026	0.018	0.069	
7/6/2015					0.018
7/7/2015	0.029	0.027	0.019	0.071	
7/28/2015					
7/29/2015					
7/30/2015					
8/12/2015	<0.02	<0.02	<0.02	<0.02	<0.02
2/29/2016					

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 12/7/2018 9:56 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-54 (bg)	GWA-55 (bg)	GWA-56 (bg)	GWA-55R (bg)	GWA-53 (bg)
3/1/2016					
3/2/2016	0.0297	0.0276			0.017
3/3/2016			0.0259	0.0424	
3/4/2016					
3/7/2016					
3/8/2016					
3/9/2016					
5/2/2016					
5/3/2016		0.0291		0.0477	0.016
5/4/2016	0.0299				
5/5/2016					
5/6/2016					
5/9/2016			0.0236		
5/10/2016					
7/6/2016					
7/7/2016					
7/8/2016	0.0294				0.0156
7/11/2016		0.0225	0.0295	0.0506	
7/12/2016					
7/13/2016					
7/14/2016					
7/15/2016					
7/18/2016					
9/7/2016					
9/8/2016	0.0275				0.0144
9/9/2016		0.018	0.0259	0.0478	
9/12/2016					
9/13/2016					
9/14/2016					
9/15/2016					
10/25/2016					
10/26/2016	0.0263	0.0177	0.0231		0.0128
10/27/2016				0.0472	
10/31/2016					
11/1/2016					
11/2/2016					
1/5/2017					
1/6/2017					
1/9/2017	0.0263	0.0183	0.0273	0.0507	0.0134
1/11/2017					
1/12/2017					
1/13/2017					
1/25/2017					
2/9/2017					
3/14/2017					
3/15/2017	0.0262		0.0286		
3/16/2017		0.0175		0.0497	0.0129
3/20/2017					
3/21/2017					
3/22/2017					
3/23/2017					
5/16/2017					

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 12/7/2018 9:56 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-54 (bg)	GWA-55 (bg)	GWA-56 (bg)	GWA-55R (bg)	GWA-53 (bg)
5/17/2017					
5/18/2017	0.0276	0.0203	0.0253	0.0466	
5/19/2017					0.0141
5/22/2017					
5/23/2017					
5/24/2017					
7/19/2017					
9/15/2017	0.0281	0.0197	0.0247		
9/18/2017				0.0436	
9/19/2017					0.0127
9/20/2017					
9/21/2017					
9/22/2017					
9/25/2017					
3/12/2018		0.023		0.041	
3/13/2018	0.034		0.031		0.013
3/14/2018					
9/6/2018	0.04				
9/7/2018		0.025	0.034	0.039	
9/10/2018					
9/11/2018					0.013

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 12/7/2018 9:56 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-36R (bg)	GWA-36 (bg)	GWC-25R	GWC-24R	GWA-37 (bg)	GWA-38 (bg)	GWC-16R	GWC-18R	GWC-17R
9/15/2014	0.0032	0.00011 (J)							
9/16/2014			<0.0013	<0.0013	<0.0013	<0.0013	<0.0013		
9/17/2014								7.8E-05 (J)	<0.0013
9/18/2014									
10/3/2014	<0.0013	<0.0013			<0.0013	8.3E-05 (J)			
10/4/2014			<0.0013	<0.0013			<0.0013	<0.0013	<0.0013
10/5/2014									
10/20/2014	0.0014	<0.0013			<0.0013	7.8E-05 (J)			
10/21/2014							<0.0013	<0.0013	<0.0013
10/22/2014									
10/23/2014			<0.0013	<0.0013					
11/5/2014									
11/10/2014	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	8E-05 (J)			
11/11/2014							<0.0013	<0.0013	<0.0013
3/2/2015	<0.0013	<0.0013			<0.0013	0.00034 (J)			
3/3/2015							<0.0013	<0.0013	<0.0013
3/4/2015			<0.0013	<0.0013					
3/17/2015	8.3E-05 (J)	0.0001 (J)			<0.0013	0.00014 (J)			
3/18/2015							<0.0013	<0.0013	<0.0013
3/19/2015									
3/20/2015			<0.0013	<0.0013					
4/5/2015	0.00038 (J)	0.00012 (J)			<0.0013				
4/6/2015						<0.0013	<0.0013		<0.0013
4/7/2015								<0.0013	
4/8/2015				<0.0013					
4/9/2015			<0.0013						
4/21/2015	0.0011 (J)	0.00033 (J)							
4/22/2015					8.3E-05 (J)	7.8E-05 (J)			
4/23/2015			<0.0013	<0.0013			<0.0013	<0.0013	<0.0013
4/24/2015									
5/8/2015									
5/9/2015									
5/17/2015									
5/18/2015									
5/19/2015									
5/25/2015									
5/26/2015									
6/8/2015									
6/9/2015									
6/17/2015									
6/18/2015									
6/24/2015									
6/25/2015									
6/30/2015									
7/1/2015									
7/6/2015									
7/7/2015									
7/28/2015	0.00092 (J)	0.00014 (J)			<0.0013	<0.0013			
7/29/2015							<0.0013	<0.0013	<0.0013
7/30/2015			<0.0013	<0.0013					
8/12/2015									
2/29/2016									

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 12/7/2018 9:56 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-36R (bg)	GWA-36 (bg)	GWC-25R	GWC-24R	GWA-37 (bg)	GWA-38 (bg)	GWC-16R	GWC-18R	GWC-17R
3/1/2016	<0.003	<0.003			<0.003				
3/2/2016						<0.003			
3/3/2016							<0.003 (D)		
3/4/2016				<0.01					<0.005
3/7/2016								<0.005	
3/8/2016			<0.005						
3/9/2016									
5/2/2016	<0.003	<0.003							
5/3/2016					<0.003	<0.003			
5/4/2016			<0.003						
5/5/2016				<0.003				<0.003	
5/6/2016									
5/9/2016									
5/10/2016							<0.003		<0.003
7/6/2016	0.0002 (J)								
7/7/2016		0.0001 (J)				<0.003			
7/8/2016					<0.003				
7/11/2016									
7/12/2016				<0.003					
7/13/2016							<0.003	<0.003	
7/14/2016									<0.003
7/15/2016									
7/18/2016			<0.003						
9/7/2016	<0.003	0.0001 (J)			<0.003				
9/8/2016						<0.003			
9/9/2016									
9/12/2016								<0.003	
9/13/2016			<0.003	<0.003					
9/14/2016									<0.003
9/15/2016							<0.003		
10/25/2016	<0.003	<0.003			<0.003	<0.003			
10/26/2016									
10/27/2016			<0.003	<0.003					
10/31/2016									
11/1/2016								<0.003	<0.003
11/2/2016							<0.003		
1/5/2017	0.0001 (J)	0.0001 (J)							
1/6/2017					<0.003				
1/9/2017									
1/11/2017							<0.003	<0.003	<0.003
1/12/2017									
1/13/2017			<0.003	<0.003					
1/25/2017									
2/9/2017						<0.003			
3/14/2017	0.0001 (J)				<0.003				
3/15/2017		0.0002 (J)							
3/16/2017			<0.003						
3/20/2017				<0.003			<0.003	<0.003	
3/21/2017									<0.003
3/22/2017									
3/23/2017						<0.003			
5/16/2017	<0.003				<0.003				

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 12/7/2018 9:56 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-36R (bg)	GWA-36 (bg)	GWC-25R	GWC-24R	GWA-37 (bg)	GWA-38 (bg)	GWC-16R	GWC-18R	GWC-17R
5/17/2017		0.0002 (J)				<0.003			
5/18/2017									
5/19/2017			<0.003	<0.003					
5/22/2017								<0.003	
5/23/2017							<0.003		<0.003
5/24/2017									
7/19/2017									
9/15/2017	<0.003	0.0002 (J)			<0.003				
9/18/2017									
9/19/2017			<0.003	<0.003		<0.003			
9/20/2017									
9/21/2017							<0.003	<0.003	
9/22/2017									<0.003
9/25/2017									
3/12/2018	5.6E-05 (J)	0.00017 (J)			<0.003				
3/13/2018			<0.003	<0.003		<0.003			
3/14/2018							<0.003	0.00011 (J)	<0.003
9/6/2018	<0.003	0.00015 (J)			<0.003	<0.003			
9/7/2018							<0.003	<0.003	
9/10/2018									
9/11/2018			<0.003	<0.003					<0.003

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 12/7/2018 9:56 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-19R	GWC-18	GWC-23R	GWC-20R	GWC-21R	GWC-22R	GWA-51R_51RZ ...	GWA-52 (bg)	GWA-53R (bg)
9/15/2014									
9/16/2014									
9/17/2014	<0.0013	<0.0013							
9/18/2014			<0.0013	<0.0013	<0.0013	<0.0013			
10/3/2014									
10/4/2014	<0.0013	<0.0013							
10/5/2014			<0.0013	<0.0013	<0.0013	<0.0013			
10/20/2014									
10/21/2014	<0.0013	<0.0013							
10/22/2014			<0.0013	<0.0013	<0.0013	<0.0013			
10/23/2014									
11/5/2014	<0.0013	9E-05 (J)	<0.0013	<0.0013	<0.0013	<0.0013			
11/10/2014									
11/11/2014									
3/2/2015									
3/3/2015	<0.0013	<0.0013							
3/4/2015			<0.0013	<0.0013	<0.0013	<0.0013			
3/17/2015									
3/18/2015		<0.0013							
3/19/2015	<0.0013			<0.0013	<0.0013	<0.0013			
3/20/2015			<0.0013						
4/5/2015									
4/6/2015									
4/7/2015	<0.0013	<0.0013		<0.0013					
4/8/2015			<0.0013		<0.0013	<0.0013			
4/9/2015									
4/21/2015									
4/22/2015									
4/23/2015		7.8E-05 (J)	<0.0013						
4/24/2015	<0.0013			8.3E-05 (J)	<0.0013	<0.0013			
5/8/2015							<0.0013	<0.0013	<0.0013
5/9/2015									
5/17/2015							0.00022 (J)	<0.0013	<0.0013
5/18/2015									
5/19/2015									
5/25/2015							<0.0013	<0.0013	<0.0013
5/26/2015									
6/8/2015							<0.0013	<0.0013	<0.0013
6/9/2015									
6/17/2015									
6/18/2015							<0.0013	<0.0013	<0.0013
6/24/2015							<0.0013	<0.0013	<0.0013
6/25/2015									
6/30/2015							<0.0013	<0.0013	0.00014 (J)
7/1/2015									
7/6/2015							<0.0013	<0.0013	<0.0013
7/7/2015									
7/28/2015									
7/29/2015	<0.0013	<0.0013							
7/30/2015			<0.0013	<0.0013	<0.0013	<0.0013			
8/12/2015							<0.004	<0.004	<0.004
2/29/2016								<0.003	

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 12/7/2018 9:56 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-19R	GWC-18	GWC-23R	GWC-20R	GWC-21R	GWC-22R	GWA-51R_51RZ ...	GWA-52 (bg)	GWA-53R (bg)
3/1/2016									
3/2/2016									<0.003
3/3/2016									
3/4/2016									
3/7/2016	<0.005	<0.005				<0.005			
3/8/2016				<0.005	<0.01				
3/9/2016			<0.005						
5/2/2016									
5/3/2016									<0.003
5/4/2016							<0.003 (D)	<0.003	
5/5/2016		<0.003				<0.003			
5/6/2016			<0.003						
5/9/2016	<0.003			<0.003	<0.003				
5/10/2016									
7/6/2016									
7/7/2016							<0.003 (D)		
7/8/2016								<0.003	
7/11/2016									<0.003
7/12/2016									
7/13/2016		<0.003							
7/14/2016	<0.003			<0.003		<0.003			
7/15/2016			<0.003		<0.003				
7/18/2016									
9/7/2016									<0.003
9/8/2016							<0.003 (D)	<0.003	
9/9/2016					<0.003				
9/12/2016	<0.003			<0.003		<0.003			
9/13/2016		<0.003							
9/14/2016			<0.003						
9/15/2016									
10/25/2016									
10/26/2016							<0.003 (D)	<0.003	
10/27/2016					<0.003	<0.003			<0.003
10/31/2016	<0.003	<0.003		<0.003					
11/1/2016			<0.003						
11/2/2016									
1/5/2017									
1/6/2017							<0.003 (D)	<0.003	<0.003
1/9/2017									
1/11/2017	<0.003								
1/12/2017		<0.003		<0.003	<0.003				
1/13/2017						<0.003			
1/25/2017			<0.003						
2/9/2017									
3/14/2017									
3/15/2017							<0.003 (D)	<0.003	
3/16/2017									<0.003
3/20/2017						<0.003			
3/21/2017	<0.003				<0.003				
3/22/2017			<0.003	<0.003					
3/23/2017		<0.003							
5/16/2017									

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 12/7/2018 9:57 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-19R	GWC-18	GWC-23R	GWC-20R	GWC-21R	GWC-22R	GWA-51R_51RZ ...	GWA-52 (bg)	GWA-53R (bg)
5/17/2017								<0.003	
5/18/2017							<0.003 (D)		
5/19/2017									<0.003
5/22/2017	<0.003			<0.003					
5/23/2017		<0.003			<0.003	<0.003			
5/24/2017			<0.003						
7/19/2017							<0.003 (D)		
9/15/2017								<0.003	
9/18/2017									
9/19/2017				<0.003	<0.003	<0.003	<0.003 (D)		<0.003
9/20/2017	0.0001 (J)								
9/21/2017			<0.003						
9/22/2017									
9/25/2017		<0.003							
3/12/2018									
3/13/2018						<0.003	<0.003	<0.003	<0.003
3/14/2018	6.5E-05 (J)	<0.003	<0.003	<0.003	<0.003				
9/6/2018								<0.003	
9/7/2018						<0.003	<0.003		
9/10/2018	<0.003			<0.003	<0.003				
9/11/2018		<0.003	<0.003						<0.003

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 12/7/2018 9:57 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-54 (bg)	GWA-56 (bg)	GWA-53 (bg)	GWA-55 (bg)	GWA-55R (bg)
9/15/2014					
9/16/2014					
9/17/2014					
9/18/2014					
10/3/2014					
10/4/2014					
10/5/2014					
10/20/2014					
10/21/2014					
10/22/2014					
10/23/2014					
11/5/2014					
11/10/2014					
11/11/2014					
3/2/2015					
3/3/2015					
3/4/2015					
3/17/2015					
3/18/2015					
3/19/2015					
3/20/2015					
4/5/2015					
4/6/2015					
4/7/2015					
4/8/2015					
4/9/2015					
4/21/2015					
4/22/2015					
4/23/2015					
4/24/2015					
5/8/2015					
5/9/2015	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013
5/17/2015					
5/18/2015	<0.0013		<0.0013	<0.0013	0.00011 (J)
5/19/2015		<0.0013			
5/25/2015	<0.0013		<0.0013		
5/26/2015		<0.0013		<0.0013	<0.0013
6/8/2015			<0.0013		
6/9/2015	<0.0013	<0.0013		<0.0013	0.00025 (J)
6/17/2015	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013
6/18/2015					
6/24/2015			<0.0013		
6/25/2015	<0.0013	<0.0013		<0.0013	<0.0013
6/30/2015			<0.0013		
7/1/2015	<0.0013	<0.0013		<0.0013	0.00024 (J)
7/6/2015			<0.0013		
7/7/2015	<0.0013	<0.0013		0.00012 (J)	<0.0013
7/28/2015					
7/29/2015					
7/30/2015					
8/12/2015	<0.004	<0.004	<0.004	<0.004	<0.004
2/29/2016					

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 12/7/2018 9:57 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-54 (bg)	GWA-56 (bg)	GWA-53 (bg)	GWA-55 (bg)	GWA-55R (bg)
3/1/2016					
3/2/2016	<0.003		<0.003	<0.003	
3/3/2016		<0.005			<0.003
3/4/2016					
3/7/2016					
3/8/2016					
3/9/2016					
5/2/2016					
5/3/2016			<0.003	<0.003	<0.003
5/4/2016	<0.003				
5/5/2016					
5/6/2016					
5/9/2016		<0.003			
5/10/2016					
7/6/2016					
7/7/2016					
7/8/2016	<0.003		<0.003		
7/11/2016		0.0001 (J)		<0.003	<0.003
7/12/2016					
7/13/2016					
7/14/2016					
7/15/2016					
7/18/2016					
9/7/2016					
9/8/2016	<0.003		<0.003		
9/9/2016		<0.003		<0.003	<0.003
9/12/2016					
9/13/2016					
9/14/2016					
9/15/2016					
10/25/2016					
10/26/2016	<0.003	<0.003	<0.003	<0.003	
10/27/2016					<0.003
10/31/2016					
11/1/2016					
11/2/2016					
1/5/2017					
1/6/2017					
1/9/2017	<0.003	<0.003	<0.003	<0.003	<0.003
1/11/2017					
1/12/2017					
1/13/2017					
1/25/2017					
2/9/2017					
3/14/2017					
3/15/2017	<0.003	<0.003			
3/16/2017			<0.003	<0.003	<0.003
3/20/2017					
3/21/2017					
3/22/2017					
3/23/2017					
5/16/2017					

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 12/7/2018 9:57 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

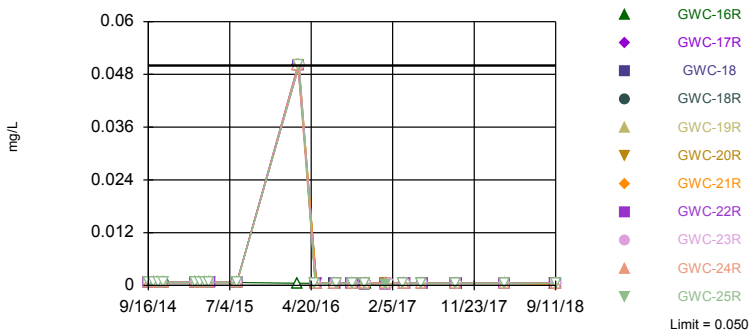
	GWA-54 (bg)	GWA-56 (bg)	GWA-53 (bg)	GWA-55 (bg)	GWA-55R (bg)
5/17/2017					
5/18/2017	<0.003	<0.003		<0.003	<0.003
5/19/2017			<0.003		
5/22/2017					
5/23/2017					
5/24/2017					
7/19/2017					
9/15/2017	<0.003	<0.003		<0.003	
9/18/2017					<0.003
9/19/2017			<0.003		
9/20/2017					
9/21/2017					
9/22/2017					
9/25/2017					
3/12/2018				<0.003	<0.003
3/13/2018	<0.003	<0.003	<0.003		
3/14/2018					
9/6/2018	<0.003				
9/7/2018		<0.003		<0.003	<0.003
9/10/2018					
9/11/2018			<0.003		

Sanitas™ v.9.5.32 Sanitas software licensed to AMEC. UG
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 240 background values. 83.75% NDs. Annual per-constituent alpha = 0.00108. Individual comparison alpha = 0.00004913 (1 of 2). Comparing 11 points to limit.

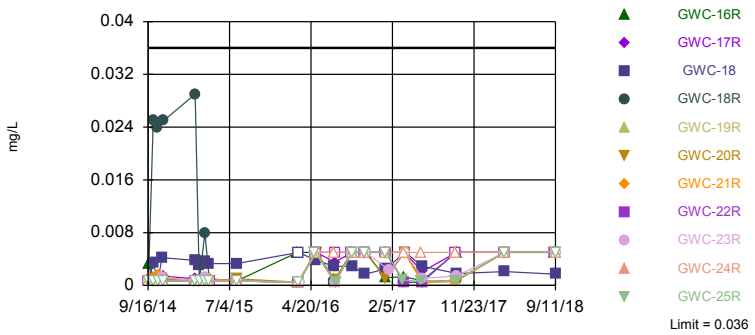
Constituent: Cadmium Analysis Run 12/7/2018 9:47 AM View: cells 3&4 OB&BR metals
Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Sanitas™ v.9.5.32 Sanitas software licensed to AMEC. UG
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 240 background values. 67.5% NDs. Annual per-constituent alpha = 0.00108. Individual comparison alpha = 0.00004913 (1 of 2). Comparing 11 points to limit.

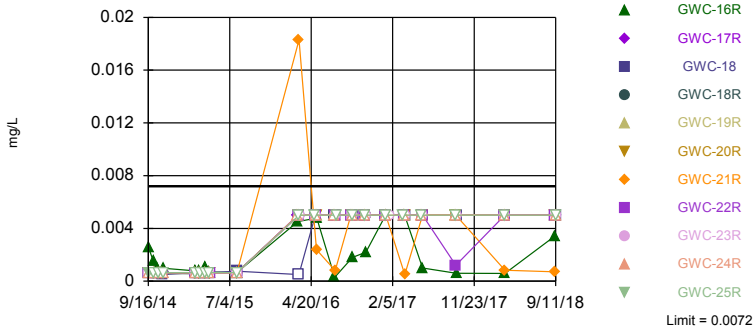
Constituent: Chromium Analysis Run 12/7/2018 9:47 AM View: cells 3&4 OB&BR metals
Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Sanitas™ v.9.5.32 Sanitas software licensed to AMEC. UG
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 239 background values. 77.82% NDs. Annual per-constituent alpha = 0.00108. Individual comparison alpha = 0.00004913 (1 of 2). Comparing 11 points to limit.

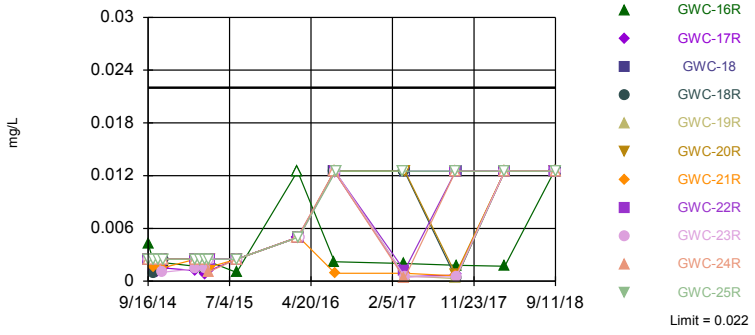
Constituent: Cobalt Analysis Run 12/7/2018 9:47 AM View: cells 3&4 OB&BR metals
Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Sanitas™ v.9.5.32 Sanitas software licensed to AMEC. UG
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 179 background values. 75.98% NDs. Annual per-constituent alpha = 0.001348. Individual comparison alpha = 0.0000613 (1 of 2). Comparing 11 points to limit.

Constituent: Copper Analysis Run 12/7/2018 9:48 AM View: cells 3&4 OB&BR metals
Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 12/7/2018 9:57 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-36R (bg)	GWA-36 (bg)	GWC-25R	GWC-24R	GWA-37 (bg)	GWA-38 (bg)	GWC-16R	GWC-18R	GWC-17R
9/15/2014	0.001 (J)	0.00035 (J)							
9/16/2014			<0.0013	<0.0013	<0.0013	<0.0013	<0.0013		
9/17/2014								<0.0013	<0.0013
9/18/2014									
10/3/2014	<0.0013	<0.0013			<0.0013	<0.0013			
10/4/2014			<0.0013	<0.0013			<0.0013	<0.0013	<0.0013
10/5/2014									
10/20/2014	0.00036 (J)	<0.0013			<0.0013	<0.0013			
10/21/2014							<0.0013	<0.0013	<0.0013
10/22/2014									
10/23/2014			<0.0013	<0.0013					
11/5/2014									
11/10/2014	<0.0013	0.00033 (J)	<0.0013	<0.0013	0.00026 (J)	<0.0013			
11/11/2014							<0.0013	<0.0013	<0.0013
3/2/2015	<0.0013	<0.0013			<0.0013	0.00035 (J)			
3/3/2015							<0.0013	<0.0013	<0.0013
3/4/2015			<0.0013	<0.0013					
3/17/2015	<0.0013	0.00057 (J)			<0.0013	<0.0013			
3/18/2015							<0.0013	<0.0013	<0.0013
3/19/2015									
3/20/2015			<0.0013	<0.0013					
4/5/2015	<0.0013	0.00068 (J)			<0.0013				
4/6/2015						<0.0013	<0.0013		<0.0013
4/7/2015								<0.0013	
4/8/2015				<0.0013					
4/9/2015			<0.0013						
4/21/2015	0.00044 (J)	0.0011 (J)							
4/22/2015					<0.0013	<0.0013			
4/23/2015			<0.0013	<0.0013			<0.0013	<0.0013	<0.0013
4/24/2015									
5/8/2015									
5/9/2015									
5/17/2015									
5/18/2015									
5/19/2015									
5/25/2015									
5/26/2015									
6/8/2015									
6/9/2015									
6/17/2015									
6/18/2015									
6/24/2015									
6/25/2015									
6/30/2015									
7/1/2015									
7/6/2015									
7/7/2015									
7/28/2015	0.00027 (J)	0.00073 (J)			<0.0013	<0.0013			
7/29/2015							<0.0013	<0.0013	<0.0013
7/30/2015			<0.0013	<0.0013					
8/12/2015									
8/13/2015									

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 12/7/2018 9:57 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-36R (bg)	GWA-36 (bg)	GWC-25R	GWC-24R	GWA-37 (bg)	GWA-38 (bg)	GWC-16R	GWC-18R	GWC-17R
2/29/2016									
3/1/2016	0.000207 (J)	0.00103			0.000103 (J)				
3/2/2016						0.000109 (J)			
3/3/2016							<0.001 (D)		
3/4/2016				<0.1					<0.1
3/7/2016								<0.1	
3/8/2016			<0.1						
3/9/2016									
5/2/2016	0.000154 (J)	0.000846 (J)							
5/3/2016					<0.001	<0.001			
5/4/2016			<0.001						
5/5/2016				<0.001				<0.001	
5/6/2016									
5/9/2016									
5/10/2016							<0.001		<0.001
7/6/2016	0.0002 (J)								
7/7/2016		0.0007 (J)				<0.001			
7/8/2016					<0.001				
7/11/2016									
7/12/2016				<0.001					
7/13/2016							<0.001	<0.001	
7/14/2016									<0.001
7/15/2016									
7/18/2016			<0.001						
9/7/2016	0.0002 (J)	0.0007 (J)			<0.001				
9/8/2016						0.0001 (J)			
9/9/2016									
9/12/2016								<0.001	
9/13/2016			<0.001	<0.001					
9/14/2016									<0.001
9/15/2016							<0.001		
10/25/2016	0.0002 (J)	0.0007 (J)			<0.001	<0.001			
10/26/2016									
10/27/2016			<0.001	<0.001					
10/31/2016									
11/1/2016								<0.001	<0.001
11/2/2016							<0.001		
1/5/2017	<0.001 (*)	0.0008 (J)							
1/6/2017					<0.001 (*)				
1/9/2017									
1/11/2017							<0.001 (*)	<0.001 (*)	<0.001 (*)
1/12/2017									
1/13/2017			0.0001 (J)	<0.001					
1/25/2017									
2/9/2017						0.0001 (J)			
3/14/2017	<0.001 (*)				<0.001 (*)				
3/15/2017		0.0013							
3/16/2017			<0.001 (*)						
3/20/2017				<0.001			<0.001	<0.001	
3/21/2017									<0.001
3/22/2017									
3/23/2017						0.0001 (J)			

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 12/7/2018 9:57 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-36R (bg)	GWA-36 (bg)	GWC-25R	GWC-24R	GWA-37 (bg)	GWA-38 (bg)	GWC-16R	GWC-18R	GWC-17R
5/16/2017	0.0001 (J)				<0.001				
5/17/2017		0.001				0.0001 (J)			
5/18/2017									
5/19/2017			<0.001	<0.001					
5/22/2017								<0.001	
5/23/2017							<0.001		<0.001
5/24/2017									
7/19/2017									
9/15/2017	<0.001	0.0011			<0.001				
9/18/2017									
9/19/2017			<0.001	<0.001		<0.001			
9/20/2017									
9/21/2017							<0.001	<0.001	
9/22/2017									<0.001
9/25/2017									
3/12/2018	0.00013 (J)	0.0011			<0.001				
3/13/2018			<0.001	<0.001		<0.001			
3/14/2018							<0.001	<0.001	<0.001
9/6/2018	0.00011 (J)	0.00086 (J)			<0.001	<0.001			
9/7/2018							<0.001	<0.001	
9/10/2018									
9/11/2018			<0.001	<0.001					<0.001

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 12/7/2018 9:57 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-19R	GWC-18	GWC-23R	GWC-20R	GWC-21R	GWC-22R	GWA-51R_51RZ ...	GWA-52 (bg)	GWA-53R (bg)
9/15/2014									
9/16/2014									
9/17/2014	<0.0013	<0.0013							
9/18/2014			<0.0013	<0.0013	<0.0013	<0.0013			
10/3/2014									
10/4/2014	<0.0013	<0.0013							
10/5/2014			<0.0013	<0.0013	<0.0013	<0.0013			
10/20/2014									
10/21/2014	<0.0013	<0.0013							
10/22/2014			<0.0013	<0.0013	<0.0013	<0.0013			
10/23/2014									
11/5/2014	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013			
11/10/2014									
11/11/2014									
3/2/2015									
3/3/2015	<0.0013	<0.0013							
3/4/2015			<0.0013	<0.0013	<0.0013	<0.0013			
3/17/2015									
3/18/2015		<0.0013							
3/19/2015	<0.0013			<0.0013	<0.0013	<0.0013			
3/20/2015			<0.0013						
4/5/2015									
4/6/2015									
4/7/2015	<0.0013	<0.0013		<0.0013					
4/8/2015			<0.0013		<0.0013	<0.0013			
4/9/2015									
4/21/2015									
4/22/2015									
4/23/2015		<0.0013	<0.0013						
4/24/2015	<0.0013			<0.0013	<0.0013	<0.0013			
5/8/2015							<0.0013	<0.0013	<0.0013
5/9/2015									
5/17/2015							0.00029 (J)	<0.0013	<0.0013
5/18/2015									
5/19/2015									
5/25/2015							<0.0013	<0.0013	<0.0013
5/26/2015									
6/8/2015							<0.0013	<0.0013	<0.0013
6/9/2015									
6/17/2015									
6/18/2015							<0.0013	<0.0013	<0.0013
6/24/2015							<0.0013	<0.0013	<0.0013
6/25/2015									
6/30/2015							<0.0013	<0.0013	<0.0013
7/1/2015									
7/6/2015							<0.0013	<0.0013	<0.0013
7/7/2015									
7/28/2015									
7/29/2015	<0.0013	<0.0013							
7/30/2015			<0.0013	<0.0013	<0.0013	<0.0013			
8/12/2015							<0.0005	<0.0005	<0.0005
8/13/2015									

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 12/7/2018 9:57 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-19R	GWC-18	GWC-23R	GWC-20R	GWC-21R	GWC-22R	GWA-51R_51RZ ...	GWA-52 (bg)	GWA-53R (bg)
2/29/2016								<0.001	
3/1/2016									
3/2/2016									<0.001
3/3/2016									
3/4/2016									
3/7/2016	<0.1	<0.1				<0.1			
3/8/2016				<0.1	<0.1				
3/9/2016			<0.1						
5/2/2016									
5/3/2016									<0.001
5/4/2016							<0.001 (D)	<0.001	
5/5/2016		<0.001				<0.001			
5/6/2016			<0.001						
5/9/2016	<0.001			<0.001	<0.001				
5/10/2016									
7/6/2016									
7/7/2016							<0.001 (D)		
7/8/2016								<0.001	
7/11/2016									<0.001
7/12/2016									
7/13/2016		<0.001							
7/14/2016	<0.001			<0.001		<0.001			
7/15/2016			<0.001		<0.001				
7/18/2016									
9/7/2016									<0.001
9/8/2016							<0.001 (D)	<0.001	
9/9/2016					<0.001				
9/12/2016	<0.001			<0.001		<0.001			
9/13/2016		<0.001							
9/14/2016			<0.001						
9/15/2016									
10/25/2016									
10/26/2016							<0.001 (D)	<0.001	
10/27/2016					<0.001	<0.001			<0.001
10/31/2016	<0.001	8E-05 (J)		<0.001					
11/1/2016			<0.001						
11/2/2016									
1/5/2017									
1/6/2017							<0.001 (D)	<0.001	<0.001
1/9/2017									
1/11/2017	<0.001								
1/12/2017		<0.001 (*)		<0.001 (*)	<0.001 (*)				
1/13/2017						8E-05 (J)			
1/25/2017			<0.001						
2/9/2017									
3/14/2017									
3/15/2017							0.0003 (D)	<0.001 (*)	
3/16/2017									<0.001
3/20/2017						<0.001			
3/21/2017	<0.001				<0.001				
3/22/2017			<0.001	<0.001					
3/23/2017		<0.001							

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 12/7/2018 9:57 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-19R	GWC-18	GWC-23R	GWC-20R	GWC-21R	GWC-22R	GWA-51R_51RZ ...	GWA-52 (bg)	GWA-53R (bg)
5/16/2017									
5/17/2017								<0.001	
5/18/2017							<0.001 (D)		
5/19/2017									<0.001
5/22/2017	<0.001			<0.001					
5/23/2017		<0.001			<0.001	<0.001			
5/24/2017			<0.001						
7/19/2017							<0.001 (D)		
9/15/2017								<0.001	
9/18/2017									
9/19/2017				<0.001	<0.001	<0.001	<0.001 (D)		<0.001
9/20/2017	<0.001								
9/21/2017			<0.001						
9/22/2017									
9/25/2017		<0.001							
3/12/2018									
3/13/2018						<0.001	<0.001	<0.001	<0.001
3/14/2018	<0.001	<0.001	<0.001	<0.001	<0.001				
9/6/2018								<0.001	
9/7/2018						<0.001	<0.001		
9/10/2018	<0.001			<0.001	0.00021 (J)				
9/11/2018		<0.001	<0.001						<0.001

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 12/7/2018 9:57 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-54 (bg)	GWA-56 (bg)	GWA-53 (bg)	GWA-55 (bg)	GWA-55R (bg)
9/15/2014					
9/16/2014					
9/17/2014					
9/18/2014					
10/3/2014					
10/4/2014					
10/5/2014					
10/20/2014					
10/21/2014					
10/22/2014					
10/23/2014					
11/5/2014					
11/10/2014					
11/11/2014					
3/2/2015					
3/3/2015					
3/4/2015					
3/17/2015					
3/18/2015					
3/19/2015					
3/20/2015					
4/5/2015					
4/6/2015					
4/7/2015					
4/8/2015					
4/9/2015					
4/21/2015					
4/22/2015					
4/23/2015					
4/24/2015					
5/8/2015					
5/9/2015	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013
5/17/2015					
5/18/2015	<0.0013		<0.0013	<0.0013	<0.0013
5/19/2015		<0.0013			
5/25/2015	<0.0013		<0.0013		
5/26/2015		<0.0013		<0.0013	<0.0013
6/8/2015			<0.0013		
6/9/2015	<0.0013	<0.0013		<0.0013	<0.0013
6/17/2015	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013
6/18/2015					
6/24/2015			<0.0013		
6/25/2015	<0.0013	<0.0013		<0.0013	<0.0013
6/30/2015			<0.0013		
7/1/2015	<0.0013	<0.0013		<0.0013	<0.0013
7/6/2015			<0.0013		
7/7/2015	<0.0013	<0.0013		<0.0013	<0.0013
7/28/2015					
7/29/2015					
7/30/2015					
8/12/2015	<0.0005		<0.0005		
8/13/2015		<0.0005		<0.0005	<0.0005

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 12/7/2018 9:57 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-54 (bg)	GWA-56 (bg)	GWA-53 (bg)	GWA-55 (bg)	GWA-55R (bg)
2/29/2016					
3/1/2016					
3/2/2016	<0.001		<0.001	<0.001	
3/3/2016		<0.1			<0.001
3/4/2016					
3/7/2016					
3/8/2016					
3/9/2016					
5/2/2016					
5/3/2016			<0.001	<0.001	<0.001
5/4/2016	<0.001				
5/5/2016					
5/6/2016					
5/9/2016		<0.001			
5/10/2016					
7/6/2016					
7/7/2016					
7/8/2016	<0.001		<0.001		
7/11/2016		<0.001		<0.001	<0.001
7/12/2016					
7/13/2016					
7/14/2016					
7/15/2016					
7/18/2016					
9/7/2016					
9/8/2016	<0.001		<0.001		
9/9/2016		<0.001		<0.001	<0.001
9/12/2016					
9/13/2016					
9/14/2016					
9/15/2016					
10/25/2016					
10/26/2016	<0.001	<0.001	<0.001	<0.001	
10/27/2016					<0.001
10/31/2016					
11/1/2016					
11/2/2016					
1/5/2017					
1/6/2017					
1/9/2017	<0.001	<0.001	<0.001	<0.001 (*)	<0.001 (*)
1/11/2017					
1/12/2017					
1/13/2017					
1/25/2017					
2/9/2017					
3/14/2017					
3/15/2017	<0.001 (*)	<0.001 (*)			
3/16/2017			<0.001 (*)	<0.001	<0.001 (*)
3/20/2017					
3/21/2017					
3/22/2017					
3/23/2017					

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 12/7/2018 9:57 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-54 (bg)	GWA-56 (bg)	GWA-53 (bg)	GWA-55 (bg)	GWA-55R (bg)
5/16/2017					
5/17/2017					
5/18/2017	<0.001	<0.001		<0.001	<0.001
5/19/2017			<0.001		
5/22/2017					
5/23/2017					
5/24/2017					
7/19/2017					
9/15/2017	<0.001	<0.001		<0.001	
9/18/2017					<0.001
9/19/2017			<0.001		
9/20/2017					
9/21/2017					
9/22/2017					
9/25/2017					
3/12/2018				<0.001	<0.001
3/13/2018	<0.001	<0.001	<0.001		
3/14/2018					
9/6/2018	<0.001				
9/7/2018		<0.001		<0.001	<0.001
9/10/2018					
9/11/2018			<0.001		

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 12/7/2018 9:57 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-36R (bg)	GWA-36 (bg)	GWC-25R	GWC-24R	GWA-37 (bg)	GWA-38 (bg)	GWC-16R	GWC-18R	GWC-17R
9/15/2014	0.0028	<0.0013							
9/16/2014			<0.0013	<0.0013	0.0015	0.0026	0.0033		
9/17/2014								<0.0013	<0.0013
9/18/2014									
10/3/2014	<0.0013	<0.0013			0.0015	0.0021			
10/4/2014			<0.0013	<0.0013			0.0011 (J)	0.025	<0.0013
10/5/2014									
10/20/2014	0.0029	<0.0013			0.0011 (J)	0.0023			
10/21/2014							<0.0013	0.024	<0.0013
10/22/2014									
10/23/2014			<0.0013	<0.0013					
11/5/2014									
11/10/2014	0.0017	<0.0013	<0.0013	<0.0013	<0.0013	0.0022			
11/11/2014							<0.0013	0.025	0.0014
3/2/2015	<0.0013	<0.0013			<0.0013	0.0021			
3/3/2015							<0.0013	0.029	0.001 (J)
3/4/2015			<0.0013	<0.0013					
3/17/2015	<0.0013	<0.0013			<0.0013	0.0022			
3/18/2015							<0.0013	<0.0013	<0.0013
3/19/2015									
3/20/2015			<0.0013	<0.0013					
4/5/2015	<0.0013	<0.0013			<0.0013				
4/6/2015						0.0016	<0.0013		<0.0013
4/7/2015								0.008	
4/8/2015				<0.0013					
4/9/2015			<0.0013						
4/21/2015	0.0018	0.0011 (J)							
4/22/2015					<0.0013	0.0013			
4/23/2015			<0.0013	<0.0013			0.001 (J)	<0.0013	<0.0013
4/24/2015									
5/8/2015									
5/9/2015									
5/17/2015									
5/18/2015									
5/19/2015									
5/25/2015									
5/26/2015									
6/8/2015									
6/9/2015									
6/17/2015									
6/18/2015									
6/24/2015									
6/25/2015									
6/30/2015									
7/1/2015									
7/6/2015									
7/7/2015									
7/28/2015	0.0015	<0.0013			<0.0013	0.0014			
7/29/2015							<0.0013	<0.0013	<0.0013
7/30/2015			<0.0013	<0.0013					
8/12/2015									
8/13/2015									

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 12/7/2018 9:57 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-36R (bg)	GWA-36 (bg)	GWC-25R	GWC-24R	GWA-37 (bg)	GWA-38 (bg)	GWC-16R	GWC-18R	GWC-17R
2/29/2016									
3/1/2016	<0.01	<0.01			<0.01				
3/2/2016						<0.01			
3/3/2016							<0.01 (D)		
3/4/2016				<0.001					<0.001
3/7/2016								<0.001	
3/8/2016			<0.001						
3/9/2016									
5/2/2016	<0.01	0.00385 (J)							
5/3/2016					<0.01	<0.01			
5/4/2016			<0.01						
5/5/2016				<0.01				<0.01	
5/6/2016									
5/9/2016									
5/10/2016							<0.01		<0.01
7/6/2016	0.0005 (J)								
7/7/2016		0.0004 (J)				0.002 (J)			
7/8/2016					<0.01				
7/11/2016									
7/12/2016				<0.01					
7/13/2016							0.0008 (J)	0.0006 (J)	
7/14/2016									0.0035 (J)
7/15/2016									
7/18/2016			0.0005 (J)						
9/7/2016	<0.01	<0.01			<0.01				
9/8/2016						0.001 (J)			
9/9/2016									
9/12/2016								<0.01	
9/13/2016			<0.01	<0.01					
9/14/2016									<0.01
9/15/2016							<0.01		
10/25/2016	<0.01	<0.01			<0.01	0.0028 (J)			
10/26/2016									
10/27/2016			<0.01	<0.01					
10/31/2016									
11/1/2016								<0.01	<0.01
11/2/2016							<0.01		
1/5/2017	<0.01	<0.01							
1/6/2017					<0.01				
1/9/2017									
1/11/2017							0.0012 (J)	<0.01	<0.01
1/12/2017									
1/13/2017			<0.01	<0.01					
1/25/2017									
2/9/2017						0.0012 (J)			
3/14/2017	0.0008 (J)				0.0006 (J)				
3/15/2017		0.0007 (J)							
3/16/2017			0.0008 (J)						
3/20/2017				<0.01			0.0013 (J)	0.0005 (J)	
3/21/2017									<0.01 (*)
3/22/2017									
3/23/2017						<0.01 (*)			

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 12/7/2018 9:57 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-36R (bg)	GWA-36 (bg)	GWC-25R	GWC-24R	GWA-37 (bg)	GWA-38 (bg)	GWC-16R	GWC-18R	GWC-17R
5/16/2017	<0.01				<0.01				
5/17/2017		0.0004 (J)				0.0019 (J)			
5/18/2017									
5/19/2017			0.0006 (J)	<0.01					
5/22/2017								0.0005 (J)	
5/23/2017							0.0007 (J)		0.0021 (J)
5/24/2017									
7/19/2017									
9/15/2017	<0.01	<0.01			<0.01				
9/18/2017									
9/19/2017			0.0007 (J)	<0.01		0.0022 (J)			
9/20/2017									
9/21/2017							<0.01	0.0008 (J)	
9/22/2017									<0.01
9/25/2017									
3/12/2018	<0.01	<0.01			<0.01				
3/13/2018			<0.01	<0.01		0.0017 (J)			
3/14/2018							<0.01	<0.01	<0.01
9/6/2018	<0.01	<0.01			<0.01	<0.01			
9/7/2018							<0.01	<0.01	
9/10/2018									
9/11/2018			<0.01	<0.01					<0.01

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 12/7/2018 9:57 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-19R	GWC-18	GWC-23R	GWC-20R	GWC-21R	GWC-22R	GWA-51R_51RZ ...	GWA-52 (bg)	GWA-53R (bg)
9/15/2014									
9/16/2014									
9/17/2014	<0.0013	<0.0013							
9/18/2014			<0.0013	<0.0013	0.001 (J)	<0.0013			
10/3/2014									
10/4/2014	0.001 (J)	0.0034							
10/5/2014			<0.0013	<0.0013	0.0013	<0.0013			
10/20/2014									
10/21/2014	0.0011 (J)	<0.0013							
10/22/2014			<0.0013	<0.0013	0.0016	<0.0013			
10/23/2014									
11/5/2014	0.001 (J)	0.0042	0.0013	0.001 (J)	0.0013	<0.0013			
11/10/2014									
11/11/2014									
3/2/2015									
3/3/2015	<0.0013	0.0038							
3/4/2015			<0.0013	<0.0013	<0.0013	<0.0013			
3/17/2015									
3/18/2015		0.0031							
3/19/2015	<0.0013			<0.0013	<0.0013	<0.0013			
3/20/2015			<0.0013						
4/5/2015									
4/6/2015									
4/7/2015	<0.0013	0.0037		<0.0013					
4/8/2015			0.0012 (J)		<0.0013	<0.0013			
4/9/2015									
4/21/2015									
4/22/2015									
4/23/2015		0.0033	<0.0013						
4/24/2015	<0.0013			<0.0013	0.001 (J)	<0.0013			
5/8/2015							0.036	<0.0013	<0.0013
5/9/2015									
5/17/2015							0.029	<0.0013	<0.0013
5/18/2015									
5/19/2015									
5/25/2015							0.029	<0.0013	<0.0013
5/26/2015									
6/8/2015							0.015	0.0013	<0.0013
6/9/2015									
6/17/2015									
6/18/2015							0.016	<0.0013	<0.0013
6/24/2015							0.02	0.0013	<0.0013
6/25/2015									
6/30/2015							0.02	<0.0013	<0.0013
7/1/2015									
7/6/2015							0.015	<0.0013	<0.0013
7/7/2015									
7/28/2015									
7/29/2015	<0.0013	0.0033							
7/30/2015			<0.0013	0.001 (J)	<0.0013	<0.0013			
8/12/2015							0.0139	<0.005	<0.005
8/13/2015									

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 12/7/2018 9:57 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-19R	GWC-18	GWC-23R	GWC-20R	GWC-21R	GWC-22R	GWA-51R_51RZ ...	GWA-52 (bg)	GWA-53R (bg)
2/29/2016								<0.01	
3/1/2016									
3/2/2016									<0.01
3/3/2016									
3/4/2016									
3/7/2016	<0.001	<0.01				<0.001			
3/8/2016				<0.001	<0.001				
3/9/2016			<0.001						
5/2/2016									
5/3/2016									<0.01
5/4/2016							<0.01 (D)	<0.01	
5/5/2016		0.00385 (J)				<0.01			
5/6/2016			<0.01						
5/9/2016	<0.01			<0.01	<0.01				
5/10/2016									
7/6/2016									
7/7/2016							0.0005 (JD)		
7/8/2016								0.0014 (J)	
7/11/2016									<0.01
7/12/2016									
7/13/2016		0.0029 (J)							
7/14/2016	0.0005 (J)			0.0008 (J)		<0.01			
7/15/2016			0.0005 (J)		<0.01				
7/18/2016									
9/7/2016									<0.01
9/8/2016							<0.01 (D)	<0.01	
9/9/2016					<0.01				
9/12/2016	<0.01			<0.01		<0.01			
9/13/2016		0.0029 (J)							
9/14/2016			<0.01						
9/15/2016									
10/25/2016									
10/26/2016							<0.01 (D)	0.0011 (J)	
10/27/2016					<0.01	<0.01			<0.01
10/31/2016	<0.01	0.0017 (J)		<0.01					
11/1/2016			<0.01						
11/2/2016									
1/5/2017									
1/6/2017							<0.01 (D)	0.0011 (J)	<0.01
1/9/2017									
1/11/2017	<0.01								
1/12/2017		0.0025 (J)		0.0011 (J)	<0.01				
1/13/2017						<0.01			
1/25/2017			0.0023 (J)						
2/9/2017									
3/14/2017									
3/15/2017							<0.01 (D)	0.0014 (J)	
3/16/2017									0.0011 (J)
3/20/2017						0.0004 (J)			
3/21/2017	<0.01 (*)				<0.01 (*)				
3/22/2017			<0.01 (*)	<0.01 (*)					
3/23/2017		<0.01 (*)							

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 12/7/2018 9:57 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-19R	GWC-18	GWC-23R	GWC-20R	GWC-21R	GWC-22R	GWA-51R_51RZ ...	GWA-52 (bg)	GWA-53R (bg)
5/16/2017									
5/17/2017								0.0011 (J)	
5/18/2017							<0.01 (D)		
5/19/2017									0.0007 (J)
5/22/2017	0.0005 (J)			0.0007 (J)					
5/23/2017		0.0029 (J)			0.0004 (J)	0.0005 (J)			
5/24/2017			0.0011 (J)						
7/19/2017							<0.01 (D)		
9/15/2017								0.001 (J)	
9/18/2017									
9/19/2017				0.0006 (J)	0.0006 (J)	<0.01	<0.01 (D)		0.0006 (J)
9/20/2017	0.0008 (J)								
9/21/2017			0.0014 (J)						
9/22/2017									
9/25/2017		0.0018 (J)							
3/12/2018									
3/13/2018						<0.01	<0.01	<0.01	<0.01
3/14/2018	<0.01	0.0021 (J)	<0.01	<0.01	<0.01				
9/6/2018								<0.01	
9/7/2018						<0.01	<0.01		
9/10/2018	<0.01			<0.01	<0.01				
9/11/2018		0.0017 (J)	<0.01						<0.01

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 12/7/2018 9:57 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-54 (bg)	GWA-56 (bg)	GWA-53 (bg)	GWA-55 (bg)	GWA-55R (bg)
9/15/2014					
9/16/2014					
9/17/2014					
9/18/2014					
10/3/2014					
10/4/2014					
10/5/2014					
10/20/2014					
10/21/2014					
10/22/2014					
10/23/2014					
11/5/2014					
11/10/2014					
11/11/2014					
3/2/2015					
3/3/2015					
3/4/2015					
3/17/2015					
3/18/2015					
3/19/2015					
3/20/2015					
4/5/2015					
4/6/2015					
4/7/2015					
4/8/2015					
4/9/2015					
4/21/2015					
4/22/2015					
4/23/2015					
4/24/2015					
5/8/2015					
5/9/2015	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013
5/17/2015					
5/18/2015	<0.0013		<0.0013	<0.0013	<0.0013
5/19/2015		<0.0013			
5/25/2015	0.0011 (J)		<0.0013		
5/26/2015		<0.0013		<0.0013	<0.0013
6/8/2015			<0.0013		
6/9/2015	<0.0013	<0.0013		<0.0013	0.0017
6/17/2015	0.0014	<0.0013	<0.0013	<0.0013	<0.0013
6/18/2015					
6/24/2015			<0.0013		
6/25/2015	0.001 (J)	<0.0013		<0.0013	<0.0013
6/30/2015			<0.0013		
7/1/2015	<0.0013	<0.0013		<0.0013	0.0011 (J)
7/6/2015			<0.0013		
7/7/2015	0.0011 (J)	<0.0013		<0.0013	<0.0013
7/28/2015					
7/29/2015					
7/30/2015					
8/12/2015	0.0011 (J)		<0.005		
8/13/2015		<0.005		<0.005	<0.005

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 12/7/2018 9:57 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-54 (bg)	GWA-56 (bg)	GWA-53 (bg)	GWA-55 (bg)	GWA-55R (bg)
2/29/2016					
3/1/2016					
3/2/2016	<0.01		<0.01	<0.01	
3/3/2016		<0.001			<0.01
3/4/2016					
3/7/2016					
3/8/2016					
3/9/2016					
5/2/2016					
5/3/2016			<0.01	<0.01	<0.01
5/4/2016	<0.01				
5/5/2016					
5/6/2016					
5/9/2016		<0.01			
5/10/2016					
7/6/2016					
7/7/2016					
7/8/2016	0.0014 (J)		0.0007 (J)		
7/11/2016		0.0005 (J)		0.0006 (J)	<0.01
7/12/2016					
7/13/2016					
7/14/2016					
7/15/2016					
7/18/2016					
9/7/2016					
9/8/2016	0.0015 (J)		<0.01		
9/9/2016		<0.01		<0.01	<0.01
9/12/2016					
9/13/2016					
9/14/2016					
9/15/2016					
10/25/2016					
10/26/2016	0.0016 (J)	<0.01	<0.01	<0.01	
10/27/2016					<0.01
10/31/2016					
11/1/2016					
11/2/2016					
1/5/2017					
1/6/2017					
1/9/2017	0.0013 (J)	<0.01	<0.01	<0.01	<0.01
1/11/2017					
1/12/2017					
1/13/2017					
1/25/2017					
2/9/2017					
3/14/2017					
3/15/2017	0.0019 (J)	<0.01			
3/16/2017			0.001 (J)	0.0008 (J)	0.0018 (J)
3/20/2017					
3/21/2017					
3/22/2017					
3/23/2017					

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 12/7/2018 9:57 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-54 (bg)	GWA-56 (bg)	GWA-53 (bg)	GWA-55 (bg)	GWA-55R (bg)
5/16/2017					
5/17/2017					
5/18/2017	0.0012 (J)	0.0011 (J)		0.001 (J)	<0.01
5/19/2017			0.0006 (J)		
5/22/2017					
5/23/2017					
5/24/2017					
7/19/2017					
9/15/2017	0.0012 (J)	<0.01		0.0007 (J)	
9/18/2017					<0.01
9/19/2017			0.0006 (J)		
9/20/2017					
9/21/2017					
9/22/2017					
9/25/2017					
3/12/2018				<0.01	<0.01
3/13/2018	<0.01	<0.01	<0.01		
3/14/2018					
9/6/2018	<0.01				
9/7/2018		<0.01		<0.01	<0.01
9/10/2018					
9/11/2018			<0.01		

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 12/7/2018 9:57 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-36R (bg)	GWA-36 (bg)	GWC-24R	GWA-38 (bg)	GWC-16R	GWC-25R	GWA-37 (bg)	GWC-19R	GWC-17R
9/15/2014	0.0039	<0.0013							
9/16/2014			<0.0013	0.0028	0.0026	0.0006 (J)	0.00077 (J)		
9/17/2014								<0.0013	<0.0013
9/18/2014									
10/3/2014	<0.0013	<0.0013		0.0029			0.0013		
10/4/2014			<0.0013		0.0015	<0.0013		<0.0013	<0.0013
10/5/2014									
10/20/2014	0.0014	<0.0013		0.0022			0.001 (J)		
10/21/2014					0.00099 (J)			<0.0013	<0.0013
10/22/2014									
10/23/2014			<0.0013			<0.0013			
11/5/2014								<0.0013	
11/10/2014	<0.0013	<0.0013	<0.0013	0.0022		<0.0013	<0.0013		
11/11/2014					0.00097 (J)				<0.0013
3/2/2015	<0.0013	<0.0013					<0.0013		
3/3/2015					0.00078 (J)			<0.0013	<0.0013
3/4/2015			<0.0013			<0.0013			
3/17/2015	<0.0013	<0.0013		0.0044			<0.0013		
3/18/2015					0.00081 (J)				<0.0013
3/19/2015								<0.0013	
3/20/2015			<0.0013			<0.0013			
4/5/2015	<0.0013	<0.0013					<0.0013		
4/6/2015				0.002	0.0011 (J)				<0.0013
4/7/2015								<0.0013	
4/8/2015			<0.0013						
4/9/2015						<0.0013			
4/21/2015	0.0012 (J)	0.00055 (J)							
4/22/2015				0.0016			<0.0013		
4/23/2015			<0.0013		0.0007 (J)	<0.0013			<0.0013
4/24/2015								<0.0013	
5/8/2015									
5/9/2015									
5/17/2015									
5/18/2015									
5/19/2015									
5/25/2015									
5/26/2015									
6/8/2015									
6/9/2015									
6/17/2015									
6/18/2015									
6/24/2015									
6/25/2015									
6/30/2015									
7/1/2015									
7/6/2015									
7/7/2015									
7/28/2015	0.0012 (J)	<0.0013		0.0017			<0.0013		
7/29/2015					<0.0013			<0.0013	<0.0013
7/30/2015			<0.0013			<0.0013			
8/12/2015									
8/13/2015									

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 12/7/2018 9:57 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-36R (bg)	GWA-36 (bg)	GWC-24R	GWA-38 (bg)	GWC-16R	GWC-25R	GWA-37 (bg)	GWC-19R	GWC-17R
2/29/2016									
3/1/2016	<0.01	<0.01					0.00202 (J)		
3/2/2016				<0.01					
3/3/2016					0.00451 (JD)				
3/4/2016			<0.01						<0.01
3/7/2016								<0.01	
3/8/2016						<0.01			
3/9/2016									
5/2/2016	<0.01	<0.01							
5/3/2016				<0.01			<0.01		
5/4/2016						<0.01			
5/5/2016			<0.01						
5/6/2016									
5/9/2016								<0.01	
5/10/2016					0.00478 (J)				<0.01
7/6/2016	<0.01								
7/7/2016		<0.01		0.0015 (J)					
7/8/2016							0.0004 (J)		
7/11/2016									
7/12/2016			<0.01						
7/13/2016					0.0003 (J)				
7/14/2016								<0.01	<0.01
7/15/2016									
7/18/2016						<0.01			
9/7/2016	<0.01	<0.01					0.0009 (J)		
9/8/2016				0.0018 (J)					
9/9/2016									
9/12/2016								<0.01	
9/13/2016			<0.01			<0.01			
9/14/2016									<0.01
9/15/2016					0.0018 (J)				
10/25/2016	<0.01	<0.01		0.0019 (J)			0.0022 (J)		
10/26/2016									
10/27/2016			<0.01			<0.01			
10/31/2016								<0.01	
11/1/2016									<0.01
11/2/2016					0.0022 (J)				
1/5/2017	<0.01	<0.01							
1/6/2017							0.0011 (J)		
1/9/2017									
1/11/2017					<0.01			<0.01	<0.01
1/12/2017									
1/13/2017			<0.01			<0.01			
1/25/2017									
2/9/2017				0.0017 (J)					
3/14/2017	<0.01						0.0009 (J)		
3/15/2017		<0.01							
3/16/2017						<0.01			
3/20/2017			<0.01		<0.01				
3/21/2017								<0.01	<0.01
3/22/2017									
3/23/2017				0.0018 (J)					

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 12/7/2018 9:57 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-36R (bg)	GWA-36 (bg)	GWC-24R	GWA-38 (bg)	GWC-16R	GWC-25R	GWA-37 (bg)	GWC-19R	GWC-17R
5/16/2017	<0.01						<0.01		
5/17/2017		<0.01		0.0016 (J)					
5/18/2017									
5/19/2017			<0.01			<0.01			
5/22/2017								<0.01	
5/23/2017					0.001 (J)				<0.01
5/24/2017									
7/19/2017									
9/15/2017	<0.01	<0.01					<0.01		
9/18/2017									
9/19/2017			<0.01	0.0012 (J)		<0.01			
9/20/2017								<0.01	
9/21/2017					0.0006 (J)				
9/22/2017									<0.01
9/25/2017									
3/12/2018	<0.01	<0.01					<0.01		
3/13/2018			<0.01	0.0013 (J)		<0.01			
3/14/2018					0.00058 (J)			<0.01	<0.01
9/6/2018	<0.01	<0.01		0.00094 (J)			<0.01		
9/7/2018					0.0034 (J)				
9/10/2018								<0.01	
9/11/2018			<0.01			<0.01			<0.01

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 12/7/2018 9:57 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-18R	GWC-18	GWC-22R	GWC-23R	GWC-21R	GWC-20R	GWA-52 (bg)	GWA-53R (bg)	GWA-51R_51RZ ...
9/15/2014									
9/16/2014									
9/17/2014	<0.0013	<0.0013							
9/18/2014			<0.0013	<0.0013	<0.0013	<0.0013			
10/3/2014									
10/4/2014	0.00063 (J)	<0.0013							
10/5/2014			<0.0013	<0.0013	<0.0013	<0.0013			
10/20/2014									
10/21/2014	0.00058 (J)	<0.0013							
10/22/2014			<0.0013	<0.0013	<0.0013	<0.0013			
10/23/2014									
11/5/2014		0.0005 (J)	<0.0013	<0.0013	<0.0013	<0.0013			
11/10/2014									
11/11/2014	0.00058 (J)								
3/2/2015									
3/3/2015	0.00056 (J)	<0.0013							
3/4/2015			<0.0013	<0.0013	<0.0013	<0.0013			
3/17/2015									
3/18/2015	<0.0013	<0.0013							
3/19/2015			<0.0013		<0.0013	<0.0013			
3/20/2015				<0.0013					
4/5/2015									
4/6/2015									
4/7/2015	<0.0013	<0.0013				<0.0013			
4/8/2015			<0.0013	<0.0013	<0.0013				
4/9/2015									
4/21/2015									
4/22/2015									
4/23/2015	<0.0013	<0.0013		<0.0013					
4/24/2015			<0.0013		<0.0013	<0.0013			
5/8/2015							<0.0013	<0.0013	<0.0013
5/9/2015									
5/17/2015							<0.0013	<0.0013	0.00059 (J)
5/18/2015									
5/19/2015									
5/25/2015							<0.0013	<0.0013	<0.0013
5/26/2015									
6/8/2015							<0.0013	<0.0013	<0.0013
6/9/2015									
6/17/2015									
6/18/2015							<0.0013	<0.0013	<0.0013
6/24/2015							<0.0013	<0.0013	<0.0013
6/25/2015									
6/30/2015							<0.0013	<0.0013	<0.0013
7/1/2015									
7/6/2015							<0.0013	<0.0013	<0.0013
7/7/2015									
7/28/2015									
7/29/2015	<0.0013	0.00076 (J)							
7/30/2015			<0.0013	<0.0013	<0.0013	<0.0013			
8/12/2015							<0.005	<0.005	<0.005
8/13/2015									

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 12/7/2018 9:57 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-18R	GWC-18	GWC-22R	GWC-23R	GWC-21R	GWC-20R	GWA-52 (bg)	GWA-53R (bg)	GWA-51R_51RZ ...
2/29/2016							<0.01		
3/1/2016									
3/2/2016								<0.01	
3/3/2016									
3/4/2016									
3/7/2016	<0.01	<0.001	<0.01						
3/8/2016					0.0183 (J)	<0.01			
3/9/2016				<0.01					
5/2/2016									
5/3/2016								<0.01	
5/4/2016							<0.01		<0.01 (D)
5/5/2016	<0.01	<0.01	<0.01						
5/6/2016				<0.01					
5/9/2016					0.00239 (J)	<0.01			
5/10/2016									
7/6/2016									
7/7/2016									<0.01 (D)
7/8/2016							<0.01		
7/11/2016								<0.01	
7/12/2016									
7/13/2016	<0.01	<0.01							
7/14/2016			<0.01			<0.01			
7/15/2016				<0.01	0.0008 (J)				
7/18/2016									
9/7/2016								<0.01	
9/8/2016							<0.01		<0.01 (D)
9/9/2016					<0.01				
9/12/2016	<0.01		<0.01			<0.01			
9/13/2016		<0.01							
9/14/2016				<0.01					
9/15/2016									
10/25/2016									
10/26/2016							<0.01		<0.01 (D)
10/27/2016			<0.01		<0.01			<0.01	
10/31/2016		<0.01				<0.01			
11/1/2016	<0.01			<0.01					
11/2/2016									
1/5/2017									
1/6/2017							<0.01	<0.01	<0.01 (D)
1/9/2017									
1/11/2017	<0.01								
1/12/2017		<0.01			<0.01	<0.01			
1/13/2017			<0.01						
1/25/2017				<0.01					
2/9/2017									
3/14/2017									
3/15/2017							<0.01		<0.01 (D)
3/16/2017								<0.01	
3/20/2017	<0.01		<0.01						
3/21/2017					0.0005 (J)				
3/22/2017				<0.01		<0.01			
3/23/2017		<0.01							

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 12/7/2018 9:57 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-18R	GWC-18	GWC-22R	GWC-23R	GWC-21R	GWC-20R	GWA-52 (bg)	GWA-53R (bg)	GWA-51R_51RZ ...
5/16/2017									
5/17/2017							<0.01		
5/18/2017									<0.01 (D)
5/19/2017								<0.01	
5/22/2017	<0.01					<0.01			
5/23/2017		<0.01	<0.01		<0.01				
5/24/2017				<0.01					
7/19/2017									<0.01 (D)
9/15/2017							<0.01		
9/18/2017									
9/19/2017			0.0012 (J)		<0.01	<0.01		<0.01	<0.01 (D)
9/20/2017									
9/21/2017	<0.01			<0.01					
9/22/2017									
9/25/2017		<0.01							
3/12/2018									
3/13/2018			<0.01				<0.01	<0.01	<0.01
3/14/2018	<0.01	<0.01		<0.01	0.00083 (J)	<0.01			
9/6/2018							<0.01		
9/7/2018	<0.01		<0.01						<0.01
9/10/2018					0.00071 (J)	<0.01			
9/11/2018		<0.01		<0.01				<0.01	

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 12/7/2018 9:57 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-55R (bg)	GWA-56 (bg)	GWA-54 (bg)	GWA-55 (bg)	GWA-53 (bg)
9/15/2014					
9/16/2014					
9/17/2014					
9/18/2014					
10/3/2014					
10/4/2014					
10/5/2014					
10/20/2014					
10/21/2014					
10/22/2014					
10/23/2014					
11/5/2014					
11/10/2014					
11/11/2014					
3/2/2015					
3/3/2015					
3/4/2015					
3/17/2015					
3/18/2015					
3/19/2015					
3/20/2015					
4/5/2015					
4/6/2015					
4/7/2015					
4/8/2015					
4/9/2015					
4/21/2015					
4/22/2015					
4/23/2015					
4/24/2015					
5/8/2015					
5/9/2015	<0.0013	<0.0013	0.00057 (J)	<0.0013	<0.0013
5/17/2015					
5/18/2015	0.001 (J)		0.00055 (J)	0.00071 (J)	<0.0013
5/19/2015		<0.0013			
5/25/2015			<0.0013		<0.0013
5/26/2015	0.00052 (J)	<0.0013		0.00067 (J)	
6/8/2015					<0.0013
6/9/2015	0.00087 (J)	<0.0013	<0.0013	0.001 (J)	
6/17/2015	<0.0013	<0.0013	<0.0013	0.00093 (J)	<0.0013
6/18/2015					
6/24/2015					<0.0013
6/25/2015	<0.0013	<0.0013	<0.0013	0.00059 (J)	
6/30/2015					<0.0013
7/1/2015	0.0006 (J)	<0.0013	<0.0013	0.00059 (J)	
7/6/2015					<0.0013
7/7/2015	<0.0013	<0.0013	<0.0013	0.00091 (J)	
7/28/2015					
7/29/2015					
7/30/2015					
8/12/2015			<0.005		<0.005
8/13/2015	<0.005	<0.005		0.0006 (J)	

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 12/7/2018 9:57 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-55R (bg)	GWA-56 (bg)	GWA-54 (bg)	GWA-55 (bg)	GWA-53 (bg)
2/29/2016					
3/1/2016					
3/2/2016			<0.01	0.00715 (J)	<0.01
3/3/2016	<0.01	<0.01			
3/4/2016					
3/7/2016					
3/8/2016					
3/9/2016					
5/2/2016					
5/3/2016	<0.01			0.00349 (J)	<0.01
5/4/2016			<0.01		
5/5/2016					
5/6/2016					
5/9/2016		<0.01			
5/10/2016					
7/6/2016					
7/7/2016					
7/8/2016			<0.01		<0.01
7/11/2016	0.001 (J)	<0.01		0.0007 (J)	
7/12/2016					
7/13/2016					
7/14/2016					
7/15/2016					
7/18/2016					
9/7/2016					
9/8/2016			<0.01		<0.01
9/9/2016	0.0006 (J)	<0.01		<0.01	
9/12/2016					
9/13/2016					
9/14/2016					
9/15/2016					
10/25/2016					
10/26/2016		<0.01	<0.01	<0.01	<0.01
10/27/2016	<0.01				
10/31/2016					
11/1/2016					
11/2/2016					
1/5/2017					
1/6/2017					
1/9/2017	<0.01	<0.01	<0.01	<0.01	<0.01
1/11/2017					
1/12/2017					
1/13/2017					
1/25/2017					
2/9/2017					
3/14/2017					
3/15/2017		<0.01	<0.01		
3/16/2017	<0.01			0.0006 (J)	<0.01
3/20/2017					
3/21/2017					
3/22/2017					
3/23/2017					

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 12/7/2018 9:57 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-55R (bg)	GWA-56 (bg)	GWA-54 (bg)	GWA-55 (bg)	GWA-53 (bg)
5/16/2017					
5/17/2017					
5/18/2017	<0.01	<0.01	<0.01	<0.01	
5/19/2017					<0.01
5/22/2017					
5/23/2017					
5/24/2017					
7/19/2017					
9/15/2017		<0.01	<0.01	<0.01	
9/18/2017	<0.01				
9/19/2017					<0.01
9/20/2017					
9/21/2017					
9/22/2017					
9/25/2017					
3/12/2018	<0.01			0.0034 (J)	
3/13/2018		<0.01	<0.01		<0.01
3/14/2018					
9/6/2018			<0.01		
9/7/2018	<0.01	<0.01		<0.01	
9/10/2018					
9/11/2018					<0.01

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 12/7/2018 9:57 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-36R (bg)	GWA-36 (bg)	GWC-24R	GWC-25R	GWC-16R	GWA-38 (bg)	GWA-37 (bg)	GWC-18	GWC-17R
9/15/2014	0.0049 (J)	<0.005							
9/16/2014			<0.005	<0.005	0.0042 (J)	<0.005	0.018		
9/17/2014								<0.005	<0.005
9/18/2014									
10/3/2014	<0.005	<0.005				0.00089 (J)	0.021		
10/4/2014			<0.005	<0.005	0.0024 (J)			<0.005	0.0012 (J)
10/5/2014									
10/20/2014	0.0024 (J)	<0.005				0.00087 (J)	0.022		
10/21/2014					0.002 (J)			<0.005	0.0011 (J)
10/22/2014									
10/23/2014			<0.005	<0.005					
11/5/2014								<0.005	
11/10/2014	<0.005	<0.005	<0.005	<0.005		<0.005	0.02		
11/11/2014					0.0021 (J)				0.0015 (J)
3/2/2015	<0.005	<0.005				0.004 (J)	0.015		
3/3/2015					0.0017 (J)			<0.005	0.0012 (J)
3/4/2015			<0.005	<0.005					
3/17/2015	<0.005	<0.005				0.0016 (J)	0.016		
3/18/2015					0.0019 (J)			<0.005	<0.005
3/19/2015									
3/20/2015			<0.005	<0.005					
4/5/2015	<0.005	<0.005					0.016		
4/6/2015					0.0014 (J)	0.00083 (J)			0.00083 (J)
4/7/2015								<0.005	
4/8/2015			<0.005						
4/9/2015				<0.005					
4/21/2015	0.0017 (J)	0.00095 (J)							
4/22/2015						0.00085 (J)	0.013		
4/23/2015			0.0011 (J)	<0.005	0.0022 (J)			<0.005	0.0012 (J)
4/24/2015									
5/8/2015									
5/9/2015									
5/17/2015									
5/18/2015									
5/19/2015									
5/25/2015									
5/26/2015									
6/8/2015									
6/9/2015									
6/17/2015									
6/18/2015									
6/24/2015									
6/25/2015									
6/30/2015									
7/1/2015									
7/6/2015									
7/7/2015									
7/28/2015	0.00097 (J)	<0.005				<0.005	0.02		
7/29/2015					0.00098 (J)			<0.005	<0.005
7/30/2015			<0.005	<0.005					
8/12/2015									
8/13/2015									

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 12/7/2018 9:57 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-36R (bg)	GWA-36 (bg)	GWC-24R	GWC-25R	GWC-16R	GWA-38 (bg)	GWA-37 (bg)	GWC-18	GWC-17R
2/29/2016									
3/1/2016	<0.025	<0.025					0.0103 (J)		
3/2/2016						<0.025			
3/3/2016					<0.025 (D)				
3/4/2016			<0.01						<0.01
3/7/2016								<0.01	
3/8/2016				<0.01					
3/9/2016									
7/6/2016	<0.025								
7/7/2016		<0.025				<0.025			
7/8/2016							0.0152 (J)		
7/11/2016									
7/12/2016			<0.025						
7/13/2016					0.0022 (J)			<0.025	
7/14/2016									0.0124 (J)
7/15/2016									
7/18/2016				<0.025					
3/14/2017	0.0003 (J)						0.0085 (J)		
3/15/2017		<0.025 (*)							
3/16/2017				<0.025 (*)					
3/20/2017			0.0003 (J)		0.002 (J)				
3/21/2017									0.0005 (J)
3/22/2017									
3/23/2017						<0.025		<0.025	
9/15/2017	<0.025	<0.025					0.0058 (J)		
9/18/2017									
9/19/2017			<0.025	<0.025		0.0004 (J)			
9/20/2017									
9/21/2017					0.0018 (J)				
9/22/2017									0.0007 (J)
9/25/2017								<0.025	
3/12/2018	<0.025	<0.025					0.0053 (J)		
3/13/2018			<0.025	<0.025		<0.025			
3/14/2018					0.0017 (J)			<0.025	<0.025
9/6/2018	<0.025	<0.025				<0.025	0.0054 (J)		
9/7/2018					<0.025				
9/10/2018									
9/11/2018			<0.025	<0.025				<0.025	<0.025

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 12/7/2018 9:57 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-19R	GWC-18R	GWC-20R	GWC-21R	GWC-23R	GWC-22R	GWA-52 (bg)	GWA-53R (bg)	GWA-51R_51RZ ...
9/15/2014									
9/16/2014									
9/17/2014	<0.005	<0.005							
9/18/2014			<0.005	<0.005	<0.005	<0.005			
10/3/2014									
10/4/2014	<0.005	0.00086 (J)							
10/5/2014			<0.005	0.0016 (J)	<0.005	<0.005			
10/20/2014									
10/21/2014	<0.005	<0.005							
10/22/2014			<0.005	0.0018 (J)	<0.005	<0.005			
10/23/2014									
11/5/2014	<0.005		<0.005	0.0015 (J)	0.001 (J)	<0.005			
11/10/2014									
11/11/2014		<0.005							
3/2/2015									
3/3/2015	<0.005	<0.005							
3/4/2015			<0.005	<0.005	0.0014 (J)	<0.005			
3/17/2015									
3/18/2015		<0.005							
3/19/2015	<0.005		<0.005	<0.005		<0.005			
3/20/2015					<0.005				
4/5/2015									
4/6/2015									
4/7/2015	<0.005	<0.005	<0.005						
4/8/2015				<0.005	0.0014 (J)	<0.005			
4/9/2015									
4/21/2015									
4/22/2015									
4/23/2015		<0.005			<0.005				
4/24/2015	<0.005		<0.005	0.0016 (J)		<0.005			
5/8/2015							<0.005	<0.005	<0.005
5/9/2015									
5/17/2015							<0.005	<0.005	0.0015 (J)
5/18/2015									
5/19/2015									
5/25/2015							<0.005	<0.005	<0.005
5/26/2015									
6/8/2015							<0.005	<0.005	<0.005
6/9/2015									
6/17/2015									
6/18/2015							<0.005	<0.005	<0.005
6/24/2015							0.00082 (J)	<0.005	0.0012 (J)
6/25/2015									
6/30/2015							<0.005	0.00093 (J)	0.00096 (J)
7/1/2015									
7/6/2015							<0.005	<0.005	0.00091 (J)
7/7/2015									
7/28/2015									
7/29/2015	<0.005	<0.005							
7/30/2015			<0.005	<0.005	<0.005	<0.005			
8/12/2015							<0.005	<0.005	<0.005
8/13/2015									

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 12/7/2018 9:57 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-19R	GWC-18R	GWC-20R	GWC-21R	GWC-23R	GWC-22R	GWA-52 (bg)	GWA-53R (bg)	GWA-51R_51RZ ...
2/29/2016							<0.025		
3/1/2016									
3/2/2016								<0.025	
3/3/2016									
3/4/2016									
3/7/2016	<0.01	<0.01				<0.01			
3/8/2016			<0.01	<0.01					
3/9/2016					<0.01				
7/6/2016									
7/7/2016									0.0066 (JD)
7/8/2016							<0.025		
7/11/2016								<0.025	
7/12/2016									
7/13/2016		<0.025							
7/14/2016	<0.025		<0.025			<0.025			
7/15/2016				0.0009 (J)	<0.025				
7/18/2016									
3/14/2017									
3/15/2017							<0.025		<0.025 (D)
3/16/2017								<0.025	
3/20/2017		<0.025				0.0012 (J)			
3/21/2017	0.0006 (J)			0.0009 (J)					
3/22/2017			<0.025		0.0005 (J)				
3/23/2017									
9/15/2017							<0.025		
9/18/2017									
9/19/2017			0.0008 (J)	0.0006 (J)		<0.025		0.0003 (J)	<0.025 (D)
9/20/2017	0.0003 (J)								
9/21/2017		0.0003 (J)			0.0005 (J)				
9/22/2017									
9/25/2017									
3/12/2018									
3/13/2018						<0.025	<0.025	<0.025	<0.025
3/14/2018	<0.025	<0.025	<0.025	<0.025	<0.025				
9/6/2018							<0.025		
9/7/2018		<0.025				<0.025			<0.025
9/10/2018	<0.025		<0.025	<0.025					
9/11/2018					<0.025			<0.025	

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 12/7/2018 9:57 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-53 (bg)	GWA-55R (bg)	GWA-54 (bg)	GWA-55 (bg)	GWA-56 (bg)
9/15/2014					
9/16/2014					
9/17/2014					
9/18/2014					
10/3/2014					
10/4/2014					
10/5/2014					
10/20/2014					
10/21/2014					
10/22/2014					
10/23/2014					
11/5/2014					
11/10/2014					
11/11/2014					
3/2/2015					
3/3/2015					
3/4/2015					
3/17/2015					
3/18/2015					
3/19/2015					
3/20/2015					
4/5/2015					
4/6/2015					
4/7/2015					
4/8/2015					
4/9/2015					
4/21/2015					
4/22/2015					
4/23/2015					
4/24/2015					
5/8/2015					
5/9/2015	<0.005	<0.005	<0.005	<0.005	<0.005
5/17/2015					
5/18/2015	<0.005	0.00093 (J)	<0.005	<0.005	
5/19/2015					<0.005
5/25/2015	<0.005		<0.005		
5/26/2015		<0.005		<0.005	<0.005
6/8/2015	<0.005				
6/9/2015		0.0014 (J)	<0.005	<0.005	<0.005
6/17/2015	<0.005	<0.005	<0.005	<0.005	<0.005
6/18/2015					
6/24/2015	<0.005				
6/25/2015		<0.005	<0.005	<0.005	<0.005
6/30/2015	<0.005				
7/1/2015		0.0014 (J)	<0.005	<0.005	<0.005
7/6/2015	<0.005				
7/7/2015		<0.005	<0.005	0.0011 (J)	<0.005
7/28/2015					
7/29/2015					
7/30/2015					
8/12/2015	<0.005		<0.005		
8/13/2015		<0.005		<0.005	<0.005

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 12/7/2018 9:57 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

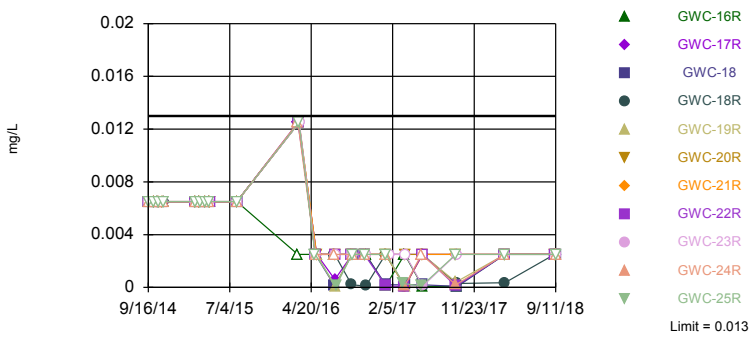
	GWA-53 (bg)	GWA-55R (bg)	GWA-54 (bg)	GWA-55 (bg)	GWA-56 (bg)
2/29/2016					
3/1/2016					
3/2/2016	<0.025		<0.025	<0.025	
3/3/2016		<0.025			<0.01
3/4/2016					
3/7/2016					
3/8/2016					
3/9/2016					
7/6/2016					
7/7/2016					
7/8/2016	<0.025		<0.025		
7/11/2016		<0.025		<0.025	<0.025
7/12/2016					
7/13/2016					
7/14/2016					
7/15/2016					
7/18/2016					
3/14/2017					
3/15/2017			<0.025		<0.025 (*)
3/16/2017	<0.025	<0.025 (*)		<0.025	
3/20/2017					
3/21/2017					
3/22/2017					
3/23/2017					
9/15/2017			0.0007 (J)	<0.025	0.002 (J)
9/18/2017		<0.025			
9/19/2017	0.0003 (J)				
9/20/2017					
9/21/2017					
9/22/2017					
9/25/2017					
3/12/2018		<0.025		<0.025	
3/13/2018	<0.025		<0.025		<0.025
3/14/2018					
9/6/2018			<0.025		
9/7/2018		<0.025		<0.025	<0.025
9/10/2018					
9/11/2018	<0.025				

Sanitas™ v.9.5.32 Sanitas software licensed to AMEC. UG
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 240 background values. 82.92% NDs. Annual per-constituent alpha = 0.00108. Individual comparison alpha = 0.00004913 (1 of 2). Comparing 11 points to limit.

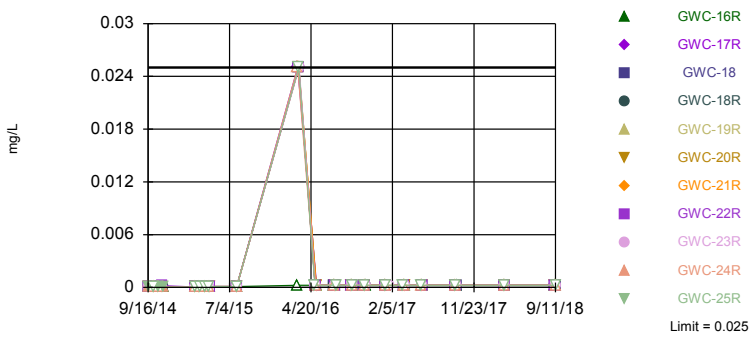
Constituent: Lead Analysis Run 12/7/2018 9:48 AM View: cells 3&4 OB&BR metals
Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Sanitas™ v.9.5.32 Sanitas software licensed to AMEC. UG
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 240 background values. 92.08% NDs. Annual per-constituent alpha = 0.00108. Individual comparison alpha = 0.00004913 (1 of 2). Comparing 11 points to limit.

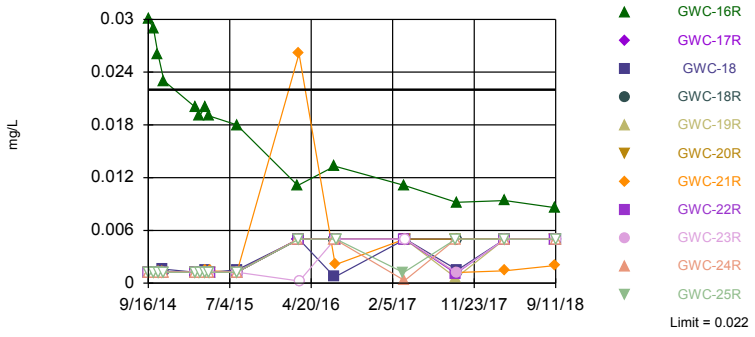
Constituent: Mercury Analysis Run 12/7/2018 9:48 AM View: cells 3&4 OB&BR metals
Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Sanitas™ v.9.5.32 Sanitas software licensed to AMEC. UG
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 179 background values. 71.51% NDs. Annual per-constituent alpha = 0.001348. Individual comparison alpha = 0.0000613 (1 of 2). Comparing 11 points to limit.

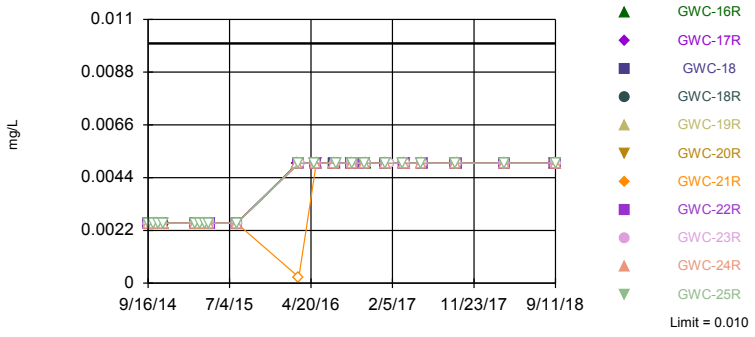
Constituent: Nickel Analysis Run 12/7/2018 9:49 AM View: cells 3&4 OB&BR metals
Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Sanitas™ v.9.5.32 Sanitas software licensed to AMEC. UG
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 240 background values. 93.33% NDs. Annual per-constituent alpha = 0.00108. Individual comparison alpha = 0.00004913 (1 of 2). Comparing 11 points to limit.

Constituent: Selenium Analysis Run 12/7/2018 9:49 AM View: cells 3&4 OB&BR metals
Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 12/7/2018 9:57 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-36R (bg)	GWA-36 (bg)	GWC-25R	GWC-24R	GWA-37 (bg)	GWA-38 (bg)	GWC-16R	GWC-18R	GWC-17R
9/15/2014	0.0069 (J)	<0.013							
9/16/2014			<0.013	<0.013	<0.013	<0.013	<0.013		
9/17/2014								<0.013	<0.013
9/18/2014									
10/3/2014	<0.013	<0.013			<0.013	<0.013			
10/4/2014			<0.013	<0.013			<0.013	<0.013	<0.013
10/5/2014									
10/20/2014	<0.013	<0.013			<0.013	<0.013			
10/21/2014							<0.013	<0.013	<0.013
10/22/2014									
10/23/2014			<0.013	<0.013					
11/5/2014									
11/10/2014	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013			
11/11/2014							<0.013	<0.013	<0.013
3/2/2015	<0.013	<0.013			<0.013	0.0047 (J)			
3/3/2015							<0.013	<0.013	<0.013
3/4/2015			<0.013	<0.013					
3/17/2015	<0.013	<0.013			<0.013	<0.013			
3/18/2015							<0.013	<0.013	<0.013
3/19/2015									
3/20/2015			<0.013	<0.013					
4/5/2015	<0.013	<0.013			<0.013				
4/6/2015						<0.013	<0.013		<0.013
4/7/2015								<0.013	
4/8/2015				<0.013					
4/9/2015			<0.013						
4/21/2015	<0.013	0.0025 (J)							
4/22/2015					<0.013	<0.013			
4/23/2015			<0.013	<0.013			<0.013	<0.013	<0.013
4/24/2015									
5/8/2015									
5/9/2015									
5/17/2015									
5/18/2015									
5/19/2015									
5/25/2015									
5/26/2015									
6/8/2015									
6/9/2015									
6/17/2015									
6/18/2015									
6/24/2015									
6/25/2015									
6/30/2015									
7/1/2015									
7/6/2015									
7/7/2015									
7/28/2015	<0.013	<0.013			<0.013	<0.013			
7/29/2015							<0.013	<0.013	<0.013
7/30/2015			<0.013	<0.013					
8/12/2015									
8/13/2015									

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 12/7/2018 9:57 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-36R (bg)	GWA-36 (bg)	GWC-25R	GWC-24R	GWA-37 (bg)	GWA-38 (bg)	GWC-16R	GWC-18R	GWC-17R
2/29/2016									
3/1/2016	<0.005	<0.005			<0.005				
3/2/2016						<0.005			
3/3/2016							<0.005 (D)		
3/4/2016				<0.025					<0.025
3/7/2016								<0.025	
3/8/2016			<0.025						
3/9/2016									
5/2/2016	<0.005	<0.005							
5/3/2016					<0.005	<0.005			
5/4/2016			<0.005						
5/5/2016				<0.005				<0.005	
5/6/2016									
5/9/2016									
5/10/2016							<0.005		<0.005
7/6/2016	0.0004 (J)								
7/7/2016		0.0001 (J)				0.0001 (J)			
7/8/2016					0.0001 (J)				
7/11/2016									
7/12/2016				<0.005					
7/13/2016							<0.005	<0.005	
7/14/2016									0.0006 (J)
7/15/2016									
7/18/2016			0.0001 (J)						
9/7/2016	<0.005	0.0001 (J)			0.0001 (J)				
9/8/2016						0.0001 (J)			
9/9/2016									
9/12/2016								0.0002 (J)	
9/13/2016			<0.005	<0.005					
9/14/2016									<0.005
9/15/2016							<0.005		
10/25/2016	0.0001 (J)	<0.005			<0.005	0.0002 (J)			
10/26/2016									
10/27/2016			<0.005	<0.005					
10/31/2016									
11/1/2016								0.0001 (J)	<0.005
11/2/2016							<0.005		
1/5/2017	0.0002 (J)	0.0001 (J)							
1/6/2017					<0.005				
1/9/2017									
1/11/2017							0.0001 (J)	<0.005	<0.005
1/12/2017									
1/13/2017			<0.005	<0.005					
1/25/2017									
2/9/2017						<0.005			
3/14/2017	0.0003 (J)				0.0001 (J)				
3/15/2017		0.0002 (J)							
3/16/2017			0.0003 (J)						
3/20/2017				0.0001 (J)			<0.005	7E-05 (J)	
3/21/2017									<0.005
3/22/2017									
3/23/2017						0.0001 (J)			

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 12/7/2018 9:57 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-36R (bg)	GWA-36 (bg)	GWC-25R	GWC-24R	GWA-37 (bg)	GWA-38 (bg)	GWC-16R	GWC-18R	GWC-17R
5/16/2017	<0.005				<0.005				
5/17/2017		8E-05 (J)				0.0001 (J)			
5/18/2017									
5/19/2017			0.0001 (J)	<0.005					
5/22/2017								<0.005	
5/23/2017							8E-05 (J)		<0.005
5/24/2017									
7/19/2017									
9/15/2017	8E-05 (J)	0.0003 (J)			<0.005				
9/18/2017									
9/19/2017			<0.005	0.0002 (J)		<0.005			
9/20/2017									
9/21/2017							9E-05 (J)	0.0003 (J)	
9/22/2017									<0.005
9/25/2017									
3/12/2018	<0.005	<0.005			<0.005				
3/13/2018			<0.005	<0.005		<0.005			
3/14/2018							<0.005	0.00035 (J)	<0.005
9/6/2018	<0.005	<0.005			<0.005	<0.005			
9/7/2018							<0.005	<0.005	
9/10/2018									
9/11/2018			<0.005	<0.005					<0.005

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 12/7/2018 9:57 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-19R	GWC-18	GWC-23R	GWC-20R	GWC-21R	GWC-22R	GWA-51R_51RZ ...	GWA-52 (bg)	GWA-53R (bg)
9/15/2014									
9/16/2014									
9/17/2014	<0.013	<0.013							
9/18/2014			<0.013	<0.013	<0.013	<0.013			
10/3/2014									
10/4/2014	<0.013	<0.013							
10/5/2014			<0.013	<0.013	<0.013	<0.013			
10/20/2014									
10/21/2014	<0.013	<0.013							
10/22/2014			<0.013	<0.013	<0.013	<0.013			
10/23/2014									
11/5/2014	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013			
11/10/2014									
11/11/2014									
3/2/2015									
3/3/2015	<0.013	<0.013							
3/4/2015			<0.013	<0.013	<0.013	<0.013			
3/17/2015									
3/18/2015		<0.013							
3/19/2015	<0.013			<0.013	<0.013	<0.013			
3/20/2015			<0.013						
4/5/2015									
4/6/2015									
4/7/2015	<0.013	<0.013		<0.013					
4/8/2015			<0.013		<0.013	<0.013			
4/9/2015									
4/21/2015									
4/22/2015									
4/23/2015		<0.013	<0.013						
4/24/2015	<0.013			<0.013	<0.013	<0.013			
5/8/2015							<0.013	<0.013	<0.013
5/9/2015									
5/17/2015							<0.013	<0.013	<0.013
5/18/2015									
5/19/2015									
5/25/2015							<0.013	<0.013	<0.013
5/26/2015									
6/8/2015							<0.013	<0.013	<0.013
6/9/2015									
6/17/2015									
6/18/2015							<0.013	<0.013	<0.013
6/24/2015							<0.013	<0.013	<0.013
6/25/2015									
6/30/2015							<0.013	<0.013	<0.013
7/1/2015									
7/6/2015							<0.013	<0.013	<0.013
7/7/2015									
7/28/2015									
7/29/2015	<0.013	<0.013							
7/30/2015			<0.013	<0.013	<0.013	<0.013			
8/12/2015							<0.0025	<0.0025	<0.0025
8/13/2015									

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 12/7/2018 9:57 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-19R	GWC-18	GWC-23R	GWC-20R	GWC-21R	GWC-22R	GWA-51R_51RZ ...	GWA-52 (bg)	GWA-53R (bg)
2/29/2016								<0.005	
3/1/2016									
3/2/2016									<0.005
3/3/2016									
3/4/2016									
3/7/2016	<0.025	<0.025				<0.025			
3/8/2016				<0.025	<0.025				
3/9/2016			<0.025						
5/2/2016									
5/3/2016									<0.005
5/4/2016							<0.005 (D)	<0.005	
5/5/2016		<0.005				<0.005			
5/6/2016			<0.005						
5/9/2016	<0.005			<0.005	<0.005				
5/10/2016									
7/6/2016									
7/7/2016							0.0002 (JD)		
7/8/2016								<0.005	
7/11/2016									<0.005
7/12/2016									
7/13/2016		0.0001 (J)							
7/14/2016	9E-05 (J)			<0.005		<0.005			
7/15/2016			<0.005		<0.005				
7/18/2016									
9/7/2016									<0.005
9/8/2016							<0.005 (D)	<0.005	
9/9/2016					<0.005				
9/12/2016	<0.005			<0.005		<0.005			
9/13/2016		<0.005							
9/14/2016			<0.005						
9/15/2016									
10/25/2016									
10/26/2016							<0.005 (D)	<0.005	
10/27/2016					<0.005	<0.005			<0.005
10/31/2016	<0.005	<0.005		<0.005					
11/1/2016			<0.005						
11/2/2016									
1/5/2017									
1/6/2017							<0.005 (D)	<0.005	<0.005
1/9/2017									
1/11/2017	<0.005								
1/12/2017		0.0002 (J)		<0.005	<0.005				
1/13/2017						0.0001 (J)			
1/25/2017			<0.005						
2/9/2017									
3/14/2017									
3/15/2017							<0.005 (D)	<0.005	
3/16/2017									5E-05 (J)
3/20/2017						7E-05 (J)			
3/21/2017	7E-05 (J)				6E-05 (J)				
3/22/2017			<0.005	<0.005					
3/23/2017		0.0002 (J)							

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 12/7/2018 9:57 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-19R	GWC-18	GWC-23R	GWC-20R	GWC-21R	GWC-22R	GWA-51R_51RZ ...	GWA-52 (bg)	GWA-53R (bg)
5/16/2017									
5/17/2017								<0.005	
5/18/2017							<0.005 (D)		
5/19/2017									0.0001 (J)
5/22/2017	<0.005			<0.005					
5/23/2017		0.0002 (J)			<0.005	<0.005			
5/24/2017			0.0001 (J)						
7/19/2017							<0.005 (D)		
9/15/2017								<0.005	
9/18/2017									
9/19/2017				<0.005	<0.005	0.0001 (J)	<0.005 (D)		<0.005
9/20/2017	0.0004 (J)								
9/21/2017			<0.005						
9/22/2017									
9/25/2017		8E-05 (J)							
3/12/2018									
3/13/2018						<0.005	<0.005	<0.005	<0.005
3/14/2018	<0.005	<0.005	<0.005	<0.005	<0.005				
9/6/2018								<0.005	
9/7/2018						<0.005	<0.005		
9/10/2018	<0.005			<0.005	<0.005				
9/11/2018		<0.005	<0.005						<0.005

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 12/7/2018 9:57 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-54 (bg)	GWA-56 (bg)	GWA-53 (bg)	GWA-55 (bg)	GWA-55R (bg)
9/15/2014					
9/16/2014					
9/17/2014					
9/18/2014					
10/3/2014					
10/4/2014					
10/5/2014					
10/20/2014					
10/21/2014					
10/22/2014					
10/23/2014					
11/5/2014					
11/10/2014					
11/11/2014					
3/2/2015					
3/3/2015					
3/4/2015					
3/17/2015					
3/18/2015					
3/19/2015					
3/20/2015					
4/5/2015					
4/6/2015					
4/7/2015					
4/8/2015					
4/9/2015					
4/21/2015					
4/22/2015					
4/23/2015					
4/24/2015					
5/8/2015					
5/9/2015	<0.013	<0.013	<0.013	<0.013	<0.013
5/17/2015					
5/18/2015	<0.013		<0.013	<0.013	<0.013
5/19/2015		<0.013			
5/25/2015	<0.013		<0.013		
5/26/2015		<0.013		<0.013	<0.013
6/8/2015			<0.013		
6/9/2015	<0.013	<0.013		<0.013	<0.013
6/17/2015	<0.013	<0.013	<0.013	<0.013	<0.013
6/18/2015					
6/24/2015			<0.013		
6/25/2015	<0.013	<0.013		<0.013	<0.013
6/30/2015			<0.013		
7/1/2015	<0.013	<0.013		<0.013	<0.013
7/6/2015			<0.013		
7/7/2015	<0.013	<0.013		<0.013	<0.013
7/28/2015					
7/29/2015					
7/30/2015					
8/12/2015	<0.0025		<0.0025		
8/13/2015		<0.0025		<0.0025	<0.0025

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 12/7/2018 9:57 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-54 (bg)	GWA-56 (bg)	GWA-53 (bg)	GWA-55 (bg)	GWA-55R (bg)
2/29/2016					
3/1/2016					
3/2/2016	<0.005		<0.005	<0.005	
3/3/2016		<0.025			<0.005
3/4/2016					
3/7/2016					
3/8/2016					
3/9/2016					
5/2/2016					
5/3/2016			<0.005	<0.005	<0.005
5/4/2016	<0.005				
5/5/2016					
5/6/2016					
5/9/2016		<0.005			
5/10/2016					
7/6/2016					
7/7/2016					
7/8/2016	<0.005		0.0002 (J)		
7/11/2016		0.0003 (J)		<0.005	0.0001 (J)
7/12/2016					
7/13/2016					
7/14/2016					
7/15/2016					
7/18/2016					
9/7/2016					
9/8/2016	<0.005		0.0002 (J)		
9/9/2016		0.0001 (J)		<0.005	<0.005
9/12/2016					
9/13/2016					
9/14/2016					
9/15/2016					
10/25/2016					
10/26/2016	<0.005	<0.005	<0.005	<0.005	
10/27/2016					0.0001 (J)
10/31/2016					
11/1/2016					
11/2/2016					
1/5/2017					
1/6/2017					
1/9/2017	<0.005	<0.005	<0.005	<0.005	<0.005
1/11/2017					
1/12/2017					
1/13/2017					
1/25/2017					
2/9/2017					
3/14/2017					
3/15/2017	<0.005	0.0001 (J)			
3/16/2017			0.0001 (J)	7E-05 (J)	0.0001 (J)
3/20/2017					
3/21/2017					
3/22/2017					
3/23/2017					

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 12/7/2018 9:57 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-54 (bg)	GWA-56 (bg)	GWA-53 (bg)	GWA-55 (bg)	GWA-55R (bg)
5/16/2017					
5/17/2017					
5/18/2017	<0.005	0.0001 (J)		0.0001 (J)	7E-05 (J)
5/19/2017			9E-05 (J)		
5/22/2017					
5/23/2017					
5/24/2017					
7/19/2017					
9/15/2017	<0.005	0.0001 (J)		<0.005	
9/18/2017					<0.005
9/19/2017			0.0001 (J)		
9/20/2017					
9/21/2017					
9/22/2017					
9/25/2017					
3/12/2018				<0.005	<0.005
3/13/2018	<0.005	<0.005	<0.005		
3/14/2018					
9/6/2018	<0.005				
9/7/2018		<0.005		<0.005	<0.005
9/10/2018					
9/11/2018			<0.005		

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 12/7/2018 9:57 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-36R (bg)	GWA-36 (bg)	GWC-25R	GWC-24R	GWA-37 (bg)	GWA-38 (bg)	GWC-16R	GWC-18R	GWC-17R
9/15/2014	0.000172 (J)	<0.0002							
9/16/2014			3.13E-05 (J)	2.81E-05 (J)	4.23E-05 (J)	2.75E-05 (J)	2.69E-05 (J)		
9/17/2014								3.5E-05 (J)	2.97E-05 (J)
9/18/2014									
10/3/2014	<0.0002	<0.0002			<0.0002	<0.0002			
10/4/2014			<0.0002	<0.0002			<0.0002	<0.0002	<0.0002
10/5/2014									
10/20/2014	<0.0002	<0.0002			3.87E-05 (J)	4.07E-05 (J)			
10/21/2014							3.18E-05 (J)	5.35E-05 (J)	5.02E-05 (J)
10/22/2014									
10/23/2014			4.6E-05 (J)	<0.0002					
11/5/2014									
11/10/2014	3.84E-05 (J)	5.8E-05 (J)	2.5E-05 (J)	5.15E-05 (J)	3.34E-05 (J)	6.86E-05 (J)			
11/11/2014							<0.0002	4.64E-05 (J)	3.66E-05 (J)
3/2/2015	<0.0001	2.04E-05 (J)			<0.0001	3.07E-05 (J)			
3/3/2015							<0.0001	<0.0001	<0.0001
3/4/2015			<0.0001	<0.0001					
3/17/2015	<0.0002	<0.0002			<0.0002	<0.0002			
3/18/2015							<0.0002	<0.0002	<0.0002
3/19/2015									
3/20/2015			<0.0002	<0.0002					
4/5/2015	<0.0002	<0.0002			<0.0002				
4/6/2015						<0.0002	<0.0002		<0.0002
4/7/2015								<0.0002	
4/8/2015				<0.0002					
4/9/2015			<0.0002						
4/21/2015	2.39E-05 (J)	<0.0002							
4/22/2015					<0.0002	<0.0002			
4/23/2015			<0.0002	<0.0002			<0.0002	<0.0002	<0.0002
4/24/2015									
5/8/2015									
5/9/2015									
5/17/2015									
5/18/2015									
5/19/2015									
5/25/2015									
5/26/2015									
6/8/2015									
6/9/2015									
6/17/2015									
6/18/2015									
6/24/2015									
6/25/2015									
6/30/2015									
7/1/2015									
7/6/2015									
7/7/2015									
7/28/2015	5.2E-05 (J)	2.13E-05 (J)			<0.0002	<0.0002			
7/29/2015							<0.0002	<0.0002	<0.0002
7/30/2015			<0.0002	<0.0002					
8/12/2015									
8/13/2015									

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 12/7/2018 9:57 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-36R (bg)	GWA-36 (bg)	GWC-25R	GWC-24R	GWA-37 (bg)	GWA-38 (bg)	GWC-16R	GWC-18R	GWC-17R
2/29/2016									
3/1/2016	<0.0005	<0.0005			<0.0005				
3/2/2016						<0.0005			
3/3/2016							<0.0005 (D)		
3/4/2016				<0.05					<0.05
3/7/2016								<0.05	
3/8/2016			<0.05						
3/9/2016									
5/2/2016	<0.0005	<0.0005							
5/3/2016					<0.0005	<0.0005			
5/4/2016			<0.0005						
5/5/2016				<0.0005				<0.0005	
5/6/2016									
5/9/2016									
5/10/2016							<0.0005		<0.0005
7/6/2016	<0.0005								
7/7/2016		<0.0005				<0.0005			
7/8/2016					<0.0005				
7/11/2016									
7/12/2016				<0.0005					
7/13/2016							<0.0005	<0.0005	
7/14/2016									<0.0005
7/15/2016									
7/18/2016			<0.0005						
9/7/2016	<0.0005	<0.0005			<0.0005				
9/8/2016						<0.0005			
9/9/2016									
9/12/2016								<0.0005	
9/13/2016			<0.0005	<0.0005					
9/14/2016									<0.0005
9/15/2016							<0.0005		
10/25/2016	<0.0005	<0.0005			<0.0005	<0.0005			
10/26/2016									
10/27/2016			<0.0005	<0.0005					
10/31/2016									
11/1/2016								<0.0005	<0.0005
11/2/2016							<0.0005		
1/5/2017	<0.0005	<0.0005							
1/6/2017					<0.0005				
1/9/2017									
1/11/2017							<0.0005	<0.0005	<0.0005
1/12/2017									
1/13/2017			<0.0005	<0.0005					
1/25/2017									
2/9/2017						<0.0005			
3/14/2017	<0.0005				<0.0005				
3/15/2017		<0.0005							
3/16/2017			<0.0005						
3/20/2017				<0.0005			<0.0005	<0.0005	
3/21/2017									<0.0005
3/22/2017									
3/23/2017						<0.0005			

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 12/7/2018 9:57 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-36R (bg)	GWA-36 (bg)	GWC-25R	GWC-24R	GWA-37 (bg)	GWA-38 (bg)	GWC-16R	GWC-18R	GWC-17R
5/16/2017	<0.0005				<0.0005				
5/17/2017		<0.0005				<0.0005			
5/18/2017									
5/19/2017			<0.0005	<0.0005					
5/22/2017								<0.0005	
5/23/2017							<0.0005		<0.0005
5/24/2017									
7/19/2017									
9/15/2017	<0.0005	<0.0005			<0.0005				
9/18/2017									
9/19/2017			<0.0005	<0.0005		<0.0005			
9/20/2017									
9/21/2017							<0.0005	<0.0005	
9/22/2017									<0.0005
9/25/2017									
3/12/2018	<0.0005	<0.0005			<0.0005				
3/13/2018			<0.0005	<0.0005		<0.0005			
3/14/2018							<0.0005	<0.0005	<0.0005
9/6/2018	<0.0005	<0.0005			<0.0005	<0.0005			
9/7/2018							<0.0005	<0.0005	
9/10/2018									
9/11/2018			<0.0005	<0.0005					<0.0005

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 12/7/2018 9:57 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-19R	GWC-18	GWC-23R	GWC-20R	GWC-21R	GWC-22R	GWA-51R_51RZ ...	GWA-52 (bg)	GWA-53R (bg)
9/15/2014									
9/16/2014									
9/17/2014	4.15E-05 (J)	4.24E-05 (J)							
9/18/2014			2.82E-05 (J)	5.34E-05 (J)	<0.0002	2.54E-05 (J)			
10/3/2014									
10/4/2014	<0.0002	2.5E-05 (J)							
10/5/2014			<0.0002	<0.0002	<0.0002	<0.0002			
10/20/2014									
10/21/2014	5.89E-05 (J)	6.4E-05 (J)							
10/22/2014			<0.0002	4.88E-05 (J)	2.57E-05 (J)	2.83E-05 (J)			
10/23/2014									
11/5/2014	7.28E-05 (J)	7.02E-05 (J)	4.83E-05 (J)	2.85E-05 (J)	<0.0002	0.0002			
11/10/2014									
11/11/2014									
3/2/2015									
3/3/2015	<0.0001	<0.0001							
3/4/2015			<0.0001	<0.0001	<0.0001	<0.0001			
3/17/2015									
3/18/2015		<0.0002							
3/19/2015	<0.0002			<0.0002	<0.0002	<0.0002			
3/20/2015			<0.0002						
4/5/2015									
4/6/2015									
4/7/2015	<0.0002	<0.0002		<0.0002					
4/8/2015			<0.0002		<0.0002	<0.0002			
4/9/2015									
4/21/2015									
4/22/2015									
4/23/2015		<0.0002	<0.0002						
4/24/2015	<0.0002			<0.0002	<0.0002	<0.0002			
5/8/2015							<0.0002	<0.0002	<0.0002
5/9/2015									
5/17/2015							0.000101 (J)	<0.0002	<0.0002
5/18/2015									
5/19/2015									
5/25/2015							4.88E-05 (J)	<0.0002	<0.0002
5/26/2015									
6/8/2015							<0.0002	<0.0002	<0.0002
6/9/2015									
6/17/2015									
6/18/2015							4.1E-05 (J)	<0.0002	<0.0002
6/24/2015							8.41E-05 (J)	<0.0002	<0.0002
6/25/2015									
6/30/2015							<0.0002	<0.0002	<0.0002
7/1/2015									
7/6/2015							<0.0002	<0.0002	<0.0002
7/7/2015									
7/28/2015									
7/29/2015	<0.0002	3.14E-05 (J)							
7/30/2015			<0.0002	<0.0002	<0.0002	<0.0002			
8/12/2015							4.91E-05 (J)	<0.0002	<0.0002
8/13/2015									

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 12/7/2018 9:57 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-19R	GWC-18	GWC-23R	GWC-20R	GWC-21R	GWC-22R	GWA-51R_51RZ ...	GWA-52 (bg)	GWA-53R (bg)
2/29/2016								<0.0005	
3/1/2016									
3/2/2016									<0.0005
3/3/2016									
3/4/2016									
3/7/2016	<0.05	<0.05				<0.05			
3/8/2016				<0.05	<0.05				
3/9/2016			<0.05						
5/2/2016									
5/3/2016									<0.0005
5/4/2016							<0.0005 (D)	<0.0005	
5/5/2016		<0.0005				<0.0005			
5/6/2016			<0.0005						
5/9/2016	<0.0005			<0.0005	<0.0005				
5/10/2016									
7/6/2016									
7/7/2016							<0.0005 (D)		
7/8/2016								<0.0005	
7/11/2016									<0.0005
7/12/2016									
7/13/2016		<0.0005							
7/14/2016	<0.0005			<0.0005		<0.0005			
7/15/2016			<0.0005		<0.0005				
7/18/2016									
9/7/2016									<0.0005
9/8/2016							<0.0005 (D)	<0.0005	
9/9/2016					<0.0005				
9/12/2016	<0.0005			<0.0005		<0.0005			
9/13/2016		<0.0005							
9/14/2016			<0.0005						
9/15/2016									
10/25/2016									
10/26/2016							<0.0005 (D)	<0.0005	
10/27/2016					<0.0005	<0.0005			<0.0005
10/31/2016	<0.0005	<0.0005		<0.0005					
11/1/2016			<0.0005						
11/2/2016									
1/5/2017									
1/6/2017							<0.0005 (D)	<0.0005	<0.0005
1/9/2017									
1/11/2017	<0.0005								
1/12/2017		<0.0005		<0.0005	<0.0005				
1/13/2017						<0.0005			
1/25/2017			<0.0005						
2/9/2017									
3/14/2017									
3/15/2017							<0.0005 (D)	<0.0005	
3/16/2017									<0.0005
3/20/2017						<0.0005			
3/21/2017	<0.0005				<0.0005				
3/22/2017			<0.0005	<0.0005					
3/23/2017		<0.0005							

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 12/7/2018 9:57 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-19R	GWC-18	GWC-23R	GWC-20R	GWC-21R	GWC-22R	GWA-51R_51RZ ...	GWA-52 (bg)	GWA-53R (bg)
5/16/2017									
5/17/2017								<0.0005	
5/18/2017							<0.0005 (D)		
5/19/2017									<0.0005
5/22/2017	<0.0005			<0.0005					
5/23/2017		<0.0005			<0.0005	<0.0005			
5/24/2017			<0.0005						
7/19/2017							<0.0005 (D)		
9/15/2017								<0.0005	
9/18/2017									
9/19/2017				<0.0005	<0.0005	<0.0005	<0.0005 (D)		<0.0005
9/20/2017	<0.0005								
9/21/2017			<0.0005						
9/22/2017									
9/25/2017		<0.0005							
3/12/2018									
3/13/2018						<0.0005	<0.0005	<0.0005	<0.0005
3/14/2018	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005				
9/6/2018								<0.0005	
9/7/2018						<0.0005	<0.0005		
9/10/2018	<0.0005			<0.0005	<0.0005				
9/11/2018		<0.0005	<0.0005						<0.0005

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 12/7/2018 9:57 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-54 (bg)	GWA-56 (bg)	GWA-53 (bg)	GWA-55 (bg)	GWA-55R (bg)
9/15/2014					
9/16/2014					
9/17/2014					
9/18/2014					
10/3/2014					
10/4/2014					
10/5/2014					
10/20/2014					
10/21/2014					
10/22/2014					
10/23/2014					
11/5/2014					
11/10/2014					
11/11/2014					
3/2/2015					
3/3/2015					
3/4/2015					
3/17/2015					
3/18/2015					
3/19/2015					
3/20/2015					
4/5/2015					
4/6/2015					
4/7/2015					
4/8/2015					
4/9/2015					
4/21/2015					
4/22/2015					
4/23/2015					
4/24/2015					
5/8/2015					
5/9/2015	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
5/17/2015					
5/18/2015	<0.0002		<0.0002	<0.0002	<0.0002
5/19/2015		<0.0002			
5/25/2015	<0.0002		<0.0002		
5/26/2015		<0.0002		<0.0002	<0.0002
6/8/2015			<0.0002		
6/9/2015	<0.0002	<0.0002		<0.0002	<0.0002
6/17/2015	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
6/18/2015					
6/24/2015			<0.0002		
6/25/2015	<0.0002	<0.0002		<0.0002	<0.0002
6/30/2015			<0.0002		
7/1/2015	<0.0002	<0.0002		<0.0002	<0.0002
7/6/2015			<0.0002		
7/7/2015	<0.0002	<0.0002		<0.0002	<0.0002
7/28/2015					
7/29/2015					
7/30/2015					
8/12/2015	<0.0002		<0.0002		
8/13/2015		<0.0002		<0.0002	<0.0002

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 12/7/2018 9:57 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-54 (bg)	GWA-56 (bg)	GWA-53 (bg)	GWA-55 (bg)	GWA-55R (bg)
2/29/2016					
3/1/2016					
3/2/2016	<0.0005		<0.0005	<0.0005	
3/3/2016		<0.05			<0.0005
3/4/2016					
3/7/2016					
3/8/2016					
3/9/2016					
5/2/2016					
5/3/2016			<0.0005	<0.0005	<0.0005
5/4/2016	<0.0005				
5/5/2016					
5/6/2016					
5/9/2016		<0.0005			
5/10/2016					
7/6/2016					
7/7/2016					
7/8/2016	<0.0005		<0.0005		
7/11/2016		<0.0005		<0.0005	<0.0005
7/12/2016					
7/13/2016					
7/14/2016					
7/15/2016					
7/18/2016					
9/7/2016					
9/8/2016	<0.0005		<0.0005		
9/9/2016		<0.0005		<0.0005	<0.0005
9/12/2016					
9/13/2016					
9/14/2016					
9/15/2016					
10/25/2016					
10/26/2016	<0.0005	<0.0005	<0.0005	<0.0005	
10/27/2016					<0.0005
10/31/2016					
11/1/2016					
11/2/2016					
1/5/2017					
1/6/2017					
1/9/2017	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
1/11/2017					
1/12/2017					
1/13/2017					
1/25/2017					
2/9/2017					
3/14/2017					
3/15/2017	<0.0005	<0.0005			
3/16/2017			<0.0005	<0.0005	<0.0005
3/20/2017					
3/21/2017					
3/22/2017					
3/23/2017					

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 12/7/2018 9:57 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-54 (bg)	GWA-56 (bg)	GWA-53 (bg)	GWA-55 (bg)	GWA-55R (bg)
5/16/2017					
5/17/2017					
5/18/2017	<0.0005	<0.0005		<0.0005	<0.0005
5/19/2017			<0.0005		
5/22/2017					
5/23/2017					
5/24/2017					
7/19/2017					
9/15/2017	<0.0005	<0.0005		<0.0005	
9/18/2017					<0.0005
9/19/2017			<0.0005		
9/20/2017					
9/21/2017					
9/22/2017					
9/25/2017					
3/12/2018				<0.0005	<0.0005
3/13/2018	<0.0005	<0.0005	<0.0005		
3/14/2018					
9/6/2018	<0.0005				
9/7/2018		<0.0005		<0.0005	<0.0005
9/10/2018					
9/11/2018			<0.0005		

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 12/7/2018 9:57 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-36R (bg)	GWA-36 (bg)	GWC-24R	GWC-25R	GWC-16R	GWA-38 (bg)	GWA-37 (bg)	GWC-18	GWC-17R
9/15/2014	0.01	<0.0025							
9/16/2014			<0.0025	<0.0025	0.03	0.0028	0.018		
9/17/2014								<0.0025	<0.0025
9/18/2014									
10/3/2014	<0.0025	<0.0025				0.0036	0.022		
10/4/2014			<0.0025	<0.0025	0.029			<0.0025	<0.0025
10/5/2014									
10/20/2014	0.0043	<0.0025				0.0025	0.022		
10/21/2014					0.026			<0.0025	<0.0025
10/22/2014									
10/23/2014			<0.0025	<0.0025					
11/5/2014								0.0016 (J)	
11/10/2014	<0.0025	<0.0025	<0.0025	<0.0025		0.0026	0.018		
11/11/2014					0.023				<0.0025
3/2/2015	<0.0025	<0.0025				0.017	0.016		
3/3/2015					0.02			<0.0025	<0.0025
3/4/2015			<0.0025	<0.0025					
3/17/2015	<0.0025	<0.0025				0.0057	0.015		
3/18/2015					0.019			<0.0025	<0.0025
3/19/2015									
3/20/2015			<0.0025	<0.0025					
4/5/2015	0.0016 (J)	<0.0025					0.016		
4/6/2015					0.02	0.0022 (J)			<0.0025
4/7/2015								0.0014 (J)	
4/8/2015			<0.0025						
4/9/2015				<0.0025					
4/21/2015	0.0033	0.0014 (J)							
4/22/2015						0.0015 (J)	0.016		
4/23/2015			<0.0025	<0.0025	0.019			<0.0025	<0.0025
4/24/2015									
5/8/2015									
5/9/2015									
5/17/2015									
5/18/2015									
5/19/2015									
5/25/2015									
5/26/2015									
6/8/2015									
6/9/2015									
6/17/2015									
6/18/2015									
6/24/2015									
6/25/2015									
6/30/2015									
7/1/2015									
7/6/2015									
7/7/2015									
7/28/2015	0.0032	<0.0025				0.0015 (J)	0.018		
7/29/2015					0.018			0.0015 (J)	<0.0025
7/30/2015			<0.0025	<0.0025					
8/12/2015									
8/13/2015									

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 12/7/2018 9:57 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-36R (bg)	GWA-36 (bg)	GWC-24R	GWC-25R	GWC-16R	GWA-38 (bg)	GWA-37 (bg)	GWC-18	GWC-17R
2/29/2016									
3/1/2016	<0.01	<0.01					0.0138		
3/2/2016						<0.01			
3/3/2016					0.0111 (D)				
3/4/2016			<0.01						<0.01
3/7/2016								<0.01	
3/8/2016				<0.01					
3/9/2016									
7/6/2016	0.0007 (J)								
7/7/2016		<0.01				0.0014 (J)			
7/8/2016							0.014		
7/11/2016									
7/12/2016			<0.01						
7/13/2016					0.0133			0.0007 (J)	
7/14/2016									<0.01
7/15/2016									
7/18/2016				<0.01					
3/14/2017	0.0007 (J)						0.0087 (J)		
3/15/2017		0.0142							
3/16/2017				0.0012 (J)					
3/20/2017			0.0003 (J)		0.0111				
3/21/2017									<0.01
3/22/2017									
3/23/2017						<0.01 (*)		<0.01 (*)	
9/15/2017	<0.01	0.0005 (J)					0.0053 (J)		
9/18/2017									
9/19/2017			<0.01	<0.01		0.0011 (J)			
9/20/2017									
9/21/2017					0.0092 (J)				
9/22/2017									<0.01
9/25/2017								0.0015 (J)	
3/12/2018	<0.01	<0.01					0.0054 (J)		
3/13/2018			<0.01	<0.01		<0.01			
3/14/2018					0.0094 (J)			<0.01	<0.01
9/6/2018	<0.01	<0.01				<0.01	0.0069 (J)		
9/7/2018					0.0086 (J)				
9/10/2018									
9/11/2018			<0.01	<0.01				<0.01	<0.01

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 12/7/2018 9:57 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-19R	GWC-18R	GWC-20R	GWC-21R	GWC-23R	GWC-22R	GWA-52 (bg)	GWA-53R (bg)	GWA-51R_51RZ ...
9/15/2014									
9/16/2014									
9/17/2014	<0.0025	<0.0025							
9/18/2014			<0.0025	<0.0025	<0.0025	<0.0025			
10/3/2014									
10/4/2014	<0.0025	<0.0025							
10/5/2014			<0.0025	<0.0025	<0.0025	<0.0025			
10/20/2014									
10/21/2014	<0.0025	<0.0025							
10/22/2014			<0.0025	0.0013 (J)	<0.0025	<0.0025			
10/23/2014									
11/5/2014	<0.0025		<0.0025	0.0013 (J)	<0.0025	<0.0025			
11/10/2014									
11/11/2014		<0.0025							
3/2/2015									
3/3/2015	<0.0025	<0.0025							
3/4/2015			<0.0025	<0.0025	<0.0025	<0.0025			
3/17/2015									
3/18/2015		<0.0025							
3/19/2015	<0.0025		<0.0025	<0.0025		<0.0025			
3/20/2015					<0.0025				
4/5/2015									
4/6/2015									
4/7/2015	<0.0025	<0.0025	<0.0025						
4/8/2015				0.0014 (J)	<0.0025	<0.0025			
4/9/2015									
4/21/2015									
4/22/2015									
4/23/2015		<0.0025			<0.0025				
4/24/2015	<0.0025		<0.0025	0.0014 (J)		<0.0025			
5/8/2015							<0.0025	<0.0025	<0.0025
5/9/2015									
5/17/2015							<0.0025	<0.0025	0.0016 (J)
5/18/2015									
5/19/2015									
5/25/2015							<0.0025	<0.0025	<0.0025
5/26/2015									
6/8/2015							<0.0025	<0.0025	<0.0025
6/9/2015									
6/17/2015									
6/18/2015							<0.0025	<0.0025	<0.0025
6/24/2015							<0.0025	<0.0025	<0.0025
6/25/2015									
6/30/2015							<0.0025	<0.0025	<0.0025
7/1/2015									
7/6/2015							<0.0025	<0.0025	<0.0025
7/7/2015									
7/28/2015									
7/29/2015	<0.0025	<0.0025							
7/30/2015			<0.0025	<0.0025	<0.0025	<0.0025			
8/12/2015							<0.005	<0.005	<0.005
8/13/2015									

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 12/7/2018 9:57 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-19R	GWC-18R	GWC-20R	GWC-21R	GWC-23R	GWC-22R	GWA-52 (bg)	GWA-53R (bg)	GWA-51R_51RZ ...
2/29/2016							<0.01		
3/1/2016									
3/2/2016								<0.01	
3/3/2016									
3/4/2016									
3/7/2016	<0.01	<0.01				<0.01			
3/8/2016			<0.01	0.0261					
3/9/2016					<0.0005				
7/6/2016									
7/7/2016									0.0008 (JD)
7/8/2016							<0.01		
7/11/2016								<0.01	
7/12/2016									
7/13/2016		<0.01							
7/14/2016	<0.01		<0.01			<0.01			
7/15/2016				0.0021 (J)	<0.01				
7/18/2016									
3/14/2017									
3/15/2017							0.0005 (J)		<0.01 (D)
3/16/2017								<0.01	
3/20/2017		<0.01				<0.01			
3/21/2017	<0.01 (*)			<0.01 (*)					
3/22/2017			<0.01		<0.01 (*)				
3/23/2017									
9/15/2017							<0.01		
9/18/2017									
9/19/2017			<0.01	0.0012 (J)		0.0011 (J)		<0.01	<0.01 (D)
9/20/2017	0.0006 (J)								
9/21/2017		<0.01			0.0012 (J)				
9/22/2017									
9/25/2017									
3/12/2018									
3/13/2018						<0.01	<0.01	<0.01	<0.01
3/14/2018	<0.01	<0.01	<0.01	0.0014 (J)	<0.01				
9/6/2018							<0.01		
9/7/2018		<0.01				<0.01			<0.01
9/10/2018	<0.01		<0.01	0.002 (J)					
9/11/2018					<0.01			<0.01	

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 12/7/2018 9:57 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-53 (bg)	GWA-55R (bg)	GWA-54 (bg)	GWA-55 (bg)	GWA-56 (bg)
9/15/2014					
9/16/2014					
9/17/2014					
9/18/2014					
10/3/2014					
10/4/2014					
10/5/2014					
10/20/2014					
10/21/2014					
10/22/2014					
10/23/2014					
11/5/2014					
11/10/2014					
11/11/2014					
3/2/2015					
3/3/2015					
3/4/2015					
3/17/2015					
3/18/2015					
3/19/2015					
3/20/2015					
4/5/2015					
4/6/2015					
4/7/2015					
4/8/2015					
4/9/2015					
4/21/2015					
4/22/2015					
4/23/2015					
4/24/2015					
5/8/2015					
5/9/2015	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
5/17/2015					
5/18/2015	<0.0025	0.0018 (J)	<0.0025	<0.0025	
5/19/2015					<0.0025
5/25/2015	<0.0025		<0.0025		
5/26/2015		<0.0025		<0.0025	<0.0025
6/8/2015	<0.0025				
6/9/2015		0.0022 (J)	0.0015 (J)	<0.0025	<0.0025
6/17/2015	<0.0025	<0.0025	0.0013 (J)	<0.0025	<0.0025
6/18/2015					
6/24/2015	0.0034				
6/25/2015		<0.0025	<0.0025	<0.0025	<0.0025
6/30/2015	<0.0025				
7/1/2015		0.0016 (J)	<0.0025	<0.0025	<0.0025
7/6/2015	<0.0025				
7/7/2015		<0.0025	<0.0025	<0.0025	<0.0025
7/28/2015					
7/29/2015					
7/30/2015					
8/12/2015	<0.005		<0.005		
8/13/2015		<0.005		<0.005	<0.005

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 12/7/2018 9:57 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-53 (bg)	GWA-55R (bg)	GWA-54 (bg)	GWA-55 (bg)	GWA-56 (bg)
2/29/2016					
3/1/2016					
3/2/2016	<0.01		<0.01	<0.01	
3/3/2016		<0.01			<0.0005
3/4/2016					
3/7/2016					
3/8/2016					
3/9/2016					
7/6/2016					
7/7/2016					
7/8/2016	<0.01		<0.01		
7/11/2016		0.0007 (J)		<0.01	0.0006 (J)
7/12/2016					
7/13/2016					
7/14/2016					
7/15/2016					
7/18/2016					
3/14/2017					
3/15/2017			0.0005 (J)		<0.01
3/16/2017	0.0005 (J)	0.0015 (J)		0.0008 (J)	
3/20/2017					
3/21/2017					
3/22/2017					
3/23/2017					
9/15/2017			<0.01	<0.01	<0.01
9/18/2017		<0.01			
9/19/2017	<0.01				
9/20/2017					
9/21/2017					
9/22/2017					
9/25/2017					
3/12/2018		<0.01		<0.01	
3/13/2018	<0.01		<0.01		<0.01
3/14/2018					
9/6/2018			<0.01		
9/7/2018		<0.01		<0.01	<0.01
9/10/2018					
9/11/2018	<0.01				

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 12/7/2018 9:58 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-36R (bg)	GWA-36 (bg)	GWC-25R	GWC-24R	GWA-37 (bg)	GWA-38 (bg)	GWC-16R	GWC-18R	GWC-17R
9/15/2014	<0.005	<0.005							
9/16/2014			<0.005	<0.005	<0.005	<0.005	<0.005		
9/17/2014								<0.005	<0.005
9/18/2014									
10/3/2014	<0.005	<0.005			<0.005	<0.005			
10/4/2014			<0.005	<0.005			<0.005	<0.005	<0.005
10/5/2014									
10/20/2014	<0.005	<0.005			<0.005	<0.005			
10/21/2014							<0.005	<0.005	<0.005
10/22/2014									
10/23/2014			<0.005	<0.005					
11/5/2014									
11/10/2014	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005			
11/11/2014							<0.005	<0.005	<0.005
3/2/2015	<0.005	<0.005			<0.005	<0.005			
3/3/2015							<0.005	<0.005	<0.005
3/4/2015			<0.005	<0.005					
3/17/2015	<0.005	<0.005			<0.005	<0.005			
3/18/2015							<0.005	<0.005	<0.005
3/19/2015									
3/20/2015			<0.005	<0.005					
4/5/2015	<0.005	<0.005			<0.005				
4/6/2015						<0.005	<0.005		<0.005
4/7/2015								<0.005	
4/8/2015				<0.005					
4/9/2015			<0.005						
4/21/2015	<0.005	<0.005							
4/22/2015					<0.005	<0.005			
4/23/2015			<0.005	<0.005			<0.005	<0.005	<0.005
4/24/2015									
5/8/2015									
5/9/2015									
5/17/2015									
5/18/2015									
5/19/2015									
5/25/2015									
5/26/2015									
6/8/2015									
6/9/2015									
6/17/2015									
6/18/2015									
6/24/2015									
6/25/2015									
6/30/2015									
7/1/2015									
7/6/2015									
7/7/2015									
7/28/2015	<0.005	<0.005			<0.005	<0.005			
7/29/2015							<0.005	<0.005	<0.005
7/30/2015			<0.005	<0.005					
8/12/2015									
8/13/2015									

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 12/7/2018 9:58 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-36R (bg)	GWA-36 (bg)	GWC-25R	GWC-24R	GWA-37 (bg)	GWA-38 (bg)	GWC-16R	GWC-18R	GWC-17R
2/29/2016									
3/1/2016	<0.01	<0.01			<0.01				
3/2/2016						<0.01			
3/3/2016							<0.01 (D)		
3/4/2016				<0.01					<0.01
3/7/2016								<0.01	
3/8/2016			<0.01						
3/9/2016									
5/2/2016	<0.01	<0.01							
5/3/2016					<0.01	<0.01			
5/4/2016			<0.01						
5/5/2016				<0.01				<0.01	
5/6/2016									
5/9/2016									
5/10/2016							<0.01		<0.01
7/6/2016	<0.01								
7/7/2016		<0.01				<0.01			
7/8/2016					<0.01				
7/11/2016									
7/12/2016				<0.01					
7/13/2016							<0.01	<0.01	
7/14/2016									<0.01
7/15/2016									
7/18/2016			<0.01						
9/7/2016	<0.01	<0.01			<0.01				
9/8/2016						<0.01			
9/9/2016									
9/12/2016								<0.01	
9/13/2016			<0.01	<0.01					
9/14/2016									<0.01
9/15/2016							<0.01		
10/25/2016	<0.01	<0.01			<0.01	<0.01			
10/26/2016									
10/27/2016			<0.01	<0.01					
10/31/2016									
11/1/2016								<0.01	<0.01
11/2/2016							<0.01		
1/5/2017	<0.01	<0.01							
1/6/2017					<0.01				
1/9/2017									
1/11/2017							<0.01	<0.01	<0.01
1/12/2017									
1/13/2017			<0.01	<0.01					
1/25/2017									
2/9/2017						<0.01			
3/14/2017	<0.01				<0.01				
3/15/2017		<0.01							
3/16/2017			<0.01						
3/20/2017				<0.01			<0.01	<0.01	
3/21/2017									<0.01
3/22/2017									
3/23/2017						<0.01			

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 12/7/2018 9:58 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-36R (bg)	GWA-36 (bg)	GWC-25R	GWC-24R	GWA-37 (bg)	GWA-38 (bg)	GWC-16R	GWC-18R	GWC-17R
5/16/2017	<0.01				<0.01				
5/17/2017		<0.01				<0.01			
5/18/2017									
5/19/2017			<0.01	<0.01					
5/22/2017								<0.01	
5/23/2017							<0.01		<0.01
5/24/2017									
7/19/2017									
9/15/2017	<0.01	<0.01			<0.01				
9/18/2017									
9/19/2017			<0.01	<0.01		<0.01			
9/20/2017									
9/21/2017							<0.01	<0.01	
9/22/2017									<0.01
9/25/2017									
3/12/2018	<0.01	<0.01			<0.01				
3/13/2018			<0.01	<0.01		<0.01			
3/14/2018							<0.01	<0.01	<0.01
9/6/2018	<0.01	<0.01			<0.01	<0.01			
9/7/2018							<0.01	<0.01	
9/10/2018									
9/11/2018			<0.01	<0.01					<0.01

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 12/7/2018 9:58 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-19R	GWC-18	GWC-23R	GWC-20R	GWC-21R	GWC-22R	GWA-51R_51RZ ...	GWA-52 (bg)	GWA-53R (bg)
9/15/2014									
9/16/2014									
9/17/2014	<0.005	<0.005							
9/18/2014			<0.005	<0.005	<0.005	<0.005			
10/3/2014									
10/4/2014	<0.005	<0.005							
10/5/2014			<0.005	<0.005	<0.005	<0.005			
10/20/2014									
10/21/2014	<0.005	<0.005							
10/22/2014			<0.005	<0.005	<0.005	<0.005			
10/23/2014									
11/5/2014	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005			
11/10/2014									
11/11/2014									
3/2/2015									
3/3/2015	<0.005	<0.005							
3/4/2015			<0.005	<0.005	<0.005	<0.005			
3/17/2015									
3/18/2015		<0.005							
3/19/2015	<0.005			<0.005	<0.005	<0.005			
3/20/2015			<0.005						
4/5/2015									
4/6/2015									
4/7/2015	<0.005	<0.005		<0.005					
4/8/2015			<0.005		<0.005	<0.005			
4/9/2015									
4/21/2015									
4/22/2015									
4/23/2015		<0.005	<0.005						
4/24/2015	<0.005			<0.005	<0.005	<0.005			
5/8/2015							<0.005	<0.005	<0.005
5/9/2015									
5/17/2015							<0.005	<0.005	<0.005
5/18/2015									
5/19/2015									
5/25/2015							<0.005	<0.005	<0.005
5/26/2015									
6/8/2015							<0.005	<0.005	<0.005
6/9/2015									
6/17/2015									
6/18/2015							<0.005	<0.005	<0.005
6/24/2015							<0.005	<0.005	<0.005
6/25/2015									
6/30/2015							<0.005	<0.005	<0.005
7/1/2015									
7/6/2015							<0.005	<0.005	<0.005
7/7/2015									
7/28/2015									
7/29/2015	<0.005	<0.005							
7/30/2015			<0.005	<0.005	<0.005	<0.005			
8/12/2015							<0.005	<0.005	<0.005
8/13/2015									

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 12/7/2018 9:58 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-19R	GWC-18	GWC-23R	GWC-20R	GWC-21R	GWC-22R	GWA-51R_51RZ ...	GWA-52 (bg)	GWA-53R (bg)
2/29/2016								<0.01	
3/1/2016									
3/2/2016									<0.01
3/3/2016									
3/4/2016									
3/7/2016	<0.01	<0.01				<0.01			
3/8/2016				<0.01	<0.0005				
3/9/2016			<0.01						
5/2/2016									
5/3/2016									<0.01
5/4/2016							0.00982 (JD)	<0.01	
5/5/2016		<0.01				<0.01			
5/6/2016			<0.01						
5/9/2016	<0.01			<0.01	<0.01				
5/10/2016									
7/6/2016									
7/7/2016							0.01 (D)		
7/8/2016								<0.01	
7/11/2016									<0.01
7/12/2016									
7/13/2016		<0.01							
7/14/2016	<0.01			<0.01		<0.01			
7/15/2016			<0.01		<0.01				
7/18/2016									
9/7/2016									<0.01
9/8/2016							0.0046 (JD)	<0.01	
9/9/2016					<0.01				
9/12/2016	<0.01			<0.01		<0.01			
9/13/2016		<0.01							
9/14/2016			<0.01						
9/15/2016									
10/25/2016									
10/26/2016							0.0071 (JD)	<0.01	
10/27/2016					<0.01	<0.01			<0.01
10/31/2016	<0.01	<0.01		<0.01					
11/1/2016			<0.01						
11/2/2016									
1/5/2017									
1/6/2017							0.0099 (JD)	<0.01	<0.01
1/9/2017									
1/11/2017	<0.01								
1/12/2017		<0.01		<0.01	<0.01				
1/13/2017						<0.01			
1/25/2017			<0.01						
2/9/2017									
3/14/2017									
3/15/2017							0.0056 (JD)	<0.01	
3/16/2017									<0.01
3/20/2017						<0.01			
3/21/2017	<0.01				<0.01				
3/22/2017			<0.01	<0.01					
3/23/2017		<0.01							

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 12/7/2018 9:58 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-19R	GWC-18	GWC-23R	GWC-20R	GWC-21R	GWC-22R	GWA-51R_51RZ ...	GWA-52 (bg)	GWA-53R (bg)
5/16/2017									
5/17/2017								<0.01	
5/18/2017							0.0064 (JD)		
5/19/2017									<0.01
5/22/2017	<0.01			<0.01					
5/23/2017		<0.01			<0.01	<0.01			
5/24/2017			<0.01						
7/19/2017							<0.01 (D)		
9/15/2017								<0.01	
9/18/2017									
9/19/2017				<0.01	<0.01	<0.01	0.0029 (JD)		<0.01
9/20/2017	<0.01								
9/21/2017			<0.01						
9/22/2017									
9/25/2017		<0.01							
3/12/2018									
3/13/2018						<0.01	0.005 (J)	<0.01	<0.01
3/14/2018	<0.01	<0.01	<0.01	<0.01	<0.01				
9/6/2018								<0.01	
9/7/2018						<0.01	0.01		
9/10/2018	<0.01			<0.01	<0.01				
9/11/2018		<0.01	<0.01						<0.01

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 12/7/2018 9:58 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-54 (bg)	GWA-56 (bg)	GWA-53 (bg)	GWA-55 (bg)	GWA-55R (bg)
9/15/2014					
9/16/2014					
9/17/2014					
9/18/2014					
10/3/2014					
10/4/2014					
10/5/2014					
10/20/2014					
10/21/2014					
10/22/2014					
10/23/2014					
11/5/2014					
11/10/2014					
11/11/2014					
3/2/2015					
3/3/2015					
3/4/2015					
3/17/2015					
3/18/2015					
3/19/2015					
3/20/2015					
4/5/2015					
4/6/2015					
4/7/2015					
4/8/2015					
4/9/2015					
4/21/2015					
4/22/2015					
4/23/2015					
4/24/2015					
5/8/2015					
5/9/2015	<0.005	<0.005	<0.005	<0.005	<0.005
5/17/2015					
5/18/2015	<0.005		<0.005	<0.005	<0.005
5/19/2015		<0.005			
5/25/2015	<0.005		<0.005		
5/26/2015		<0.005		<0.005	<0.005
6/8/2015			<0.005		
6/9/2015	<0.005	<0.005		<0.005	<0.005
6/17/2015	<0.005	<0.005	<0.005	<0.005	<0.005
6/18/2015					
6/24/2015			<0.005		
6/25/2015	<0.005	<0.005		<0.005	<0.005
6/30/2015			<0.005		
7/1/2015	<0.005	<0.005		<0.005	<0.005
7/6/2015			<0.005		
7/7/2015	<0.005	<0.005		<0.005	<0.005
7/28/2015					
7/29/2015					
7/30/2015					
8/12/2015	<0.005		<0.005		
8/13/2015		<0.005		<0.005	<0.005

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 12/7/2018 9:58 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-54 (bg)	GWA-56 (bg)	GWA-53 (bg)	GWA-55 (bg)	GWA-55R (bg)
2/29/2016					
3/1/2016					
3/2/2016	<0.01		<0.01	0.00234 (J)	
3/3/2016		<0.01			<0.01
3/4/2016					
3/7/2016					
3/8/2016					
3/9/2016					
5/2/2016					
5/3/2016			<0.01	0.00241 (J)	<0.01
5/4/2016	<0.01				
5/5/2016					
5/6/2016					
5/9/2016		<0.01			
5/10/2016					
7/6/2016					
7/7/2016					
7/8/2016	<0.01		<0.01		
7/11/2016		<0.01		<0.01	0.0011 (J)
7/12/2016					
7/13/2016					
7/14/2016					
7/15/2016					
7/18/2016					
9/7/2016					
9/8/2016	<0.01		<0.01		
9/9/2016		<0.01		<0.01	0.001 (J)
9/12/2016					
9/13/2016					
9/14/2016					
9/15/2016					
10/25/2016					
10/26/2016	<0.01	<0.01	<0.01	<0.01	
10/27/2016					<0.01
10/31/2016					
11/1/2016					
11/2/2016					
1/5/2017					
1/6/2017					
1/9/2017	<0.01	0.0011 (J)	<0.01	<0.01	<0.01
1/11/2017					
1/12/2017					
1/13/2017					
1/25/2017					
2/9/2017					
3/14/2017					
3/15/2017	<0.01	<0.01			
3/16/2017			<0.01	<0.01	<0.01
3/20/2017					
3/21/2017					
3/22/2017					
3/23/2017					

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 12/7/2018 9:58 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-54 (bg)	GWA-56 (bg)	GWA-53 (bg)	GWA-55 (bg)	GWA-55R (bg)
5/16/2017					
5/17/2017					
5/18/2017	<0.01	<0.01		<0.01	<0.01
5/19/2017			<0.01		
5/22/2017					
5/23/2017					
5/24/2017					
7/19/2017					
9/15/2017	<0.01	<0.01		<0.01	
9/18/2017					<0.01
9/19/2017			<0.01		
9/20/2017					
9/21/2017					
9/22/2017					
9/25/2017					
3/12/2018				0.0018 (J)	<0.01
3/13/2018	<0.01	<0.01	<0.01		
3/14/2018					
9/6/2018	<0.01				
9/7/2018		<0.01		<0.01	<0.01
9/10/2018					
9/11/2018			<0.01		

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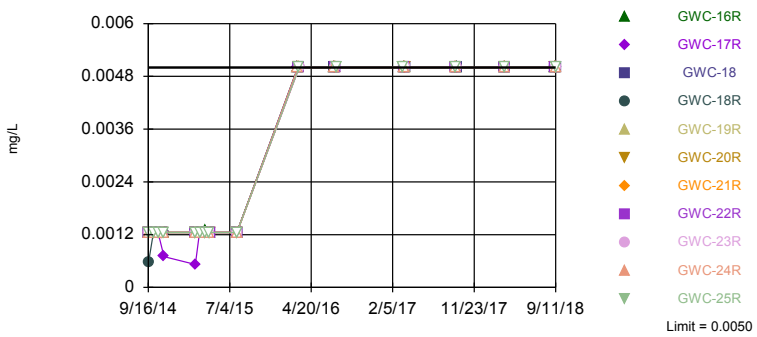
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 179 background values. 99.44% NDs. Annual per-constituent alpha = 0.001348. Individual comparison alpha = 0.0000613 (1 of 2). Comparing 11 points to limit.

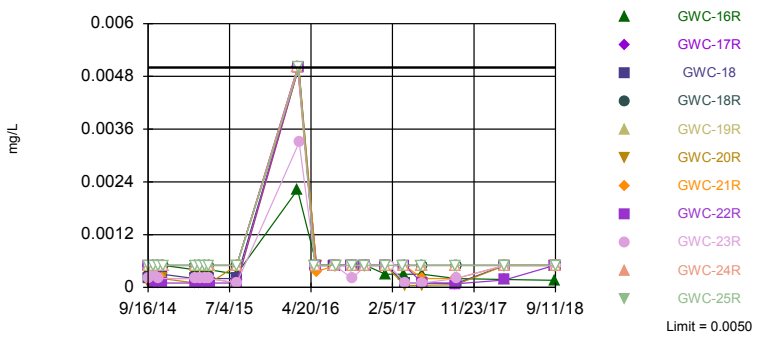
Constituent: Silver Analysis Run 12/7/2018 9:50 AM View: cells 3&4 OB&BR metals
Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Sanitas™ v.9.5.32 Sanitas software licensed to AMEC. UG
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 238 background values. 83.19% NDs. Annual per-constituent alpha = 0.00108. Individual comparison alpha = 0.00004913 (1 of 2). Comparing 11 points to limit.

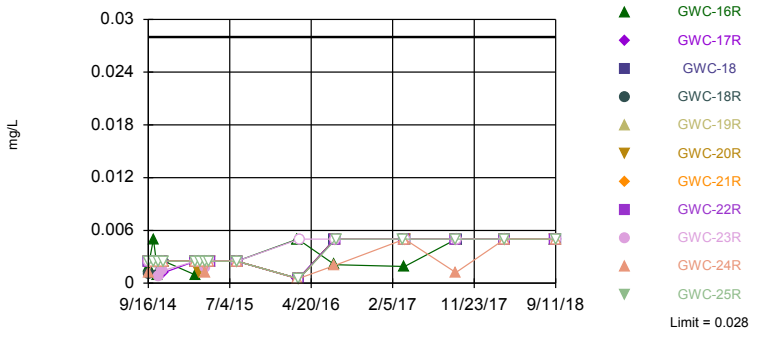
Constituent: Thallium Analysis Run 12/7/2018 9:50 AM View: cells 3&4 OB&BR metals
Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Sanitas™ v.9.5.32 Sanitas software licensed to AMEC. UG
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 179 background values. 79.89% NDs. Annual per-constituent alpha = 0.001348. Individual comparison alpha = 0.0000613 (1 of 2). Comparing 11 points to limit.

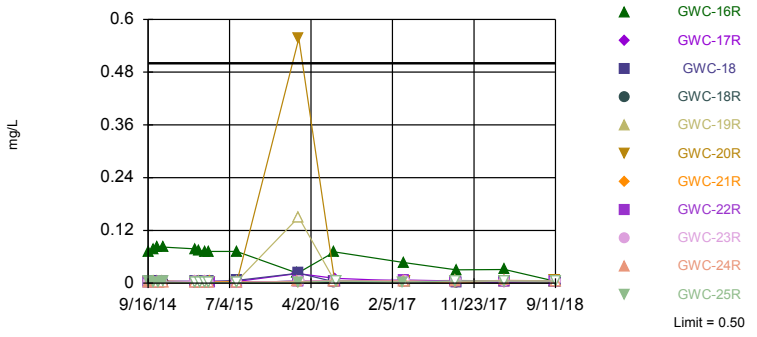
Constituent: Vanadium Analysis Run 12/7/2018 9:50 AM View: cells 3&4 OB&BR metals
Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Sanitas™ v.9.5.32 Sanitas software licensed to AMEC. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 179 background values. 34.08% NDs. Annual per-constituent alpha = 0.001348. Individual comparison alpha = 0.0000613 (1 of 2). Comparing 11 points to limit.

Constituent: Zinc Analysis Run 12/7/2018 9:50 AM View: cells 3&4 OB&BR metals
Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Prediction Limit

Constituent: Silver (mg/L) Analysis Run 12/7/2018 9:58 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-36R (bg)	GWA-36 (bg)	GWC-24R	GWC-25R	GWC-16R	GWA-38 (bg)	GWA-37 (bg)	GWC-18	GWC-17R
9/15/2014	<0.0025	<0.0025							
9/16/2014			<0.0025	<0.0025	<0.0025	0.00051 (J)	<0.0025		
9/17/2014								<0.0025	<0.0025
9/18/2014									
10/3/2014	<0.0025	<0.0025				<0.0025	<0.0025		
10/4/2014			<0.0025	<0.0025	<0.0025			<0.0025	<0.0025
10/5/2014									
10/20/2014	<0.0025	<0.0025				<0.0025	<0.0025		
10/21/2014					<0.0025			<0.0025	<0.0025
10/22/2014									
10/23/2014			<0.0025	<0.0025					
11/5/2014								<0.0025	
11/10/2014	<0.0025	<0.0025	<0.0025	<0.0025		<0.0025	<0.0025		
11/11/2014					<0.0025				0.0007 (J)
3/2/2015	<0.0025	<0.0025				<0.0025	<0.0025		
3/3/2015					<0.0025			<0.0025	0.00052 (J)
3/4/2015			<0.0025	<0.0025					
3/17/2015	<0.0025	<0.0025				<0.0025	<0.0025		
3/18/2015					<0.0025			<0.0025	<0.0025
3/19/2015									
3/20/2015			<0.0025	<0.0025					
4/5/2015	<0.0025	<0.0025					<0.0025		
4/6/2015					0.0013 (J)	<0.0025			<0.0025
4/7/2015								<0.0025	
4/8/2015			<0.0025						
4/9/2015				<0.0025					
4/21/2015	<0.0025	<0.0025							
4/22/2015						<0.0025	<0.0025		
4/23/2015			<0.0025	<0.0025	<0.0025			<0.0025	<0.0025
4/24/2015									
5/8/2015									
5/9/2015									
5/17/2015									
5/18/2015									
5/19/2015									
5/25/2015									
5/26/2015									
6/8/2015									
6/9/2015									
6/17/2015									
6/18/2015									
6/24/2015									
6/25/2015									
6/30/2015									
7/1/2015									
7/6/2015									
7/7/2015									
7/28/2015	<0.0025	<0.0025				<0.0025	<0.0025		
7/29/2015					<0.0025			<0.0025	<0.0025
7/30/2015			<0.0025	<0.0025					
8/12/2015									
8/13/2015									

Prediction Limit

Constituent: Silver (mg/L) Analysis Run 12/7/2018 9:58 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-36R (bg)	GWA-36 (bg)	GWC-24R	GWC-25R	GWC-16R	GWA-38 (bg)	GWA-37 (bg)	GWC-18	GWC-17R
2/29/2016									
3/1/2016	<0.01	<0.01					<0.01		
3/2/2016						<0.01			
3/3/2016					<0.01 (D)				
3/4/2016			<0.01						<0.01
3/7/2016								<0.01	
3/8/2016				<0.01					
3/9/2016									
7/6/2016	<0.01								
7/7/2016		<0.01				<0.01			
7/8/2016							<0.01		
7/11/2016									
7/12/2016			<0.01						
7/13/2016					<0.01			<0.01	
7/14/2016									<0.01
7/15/2016									
7/18/2016				<0.01					
3/14/2017	<0.01						<0.01		
3/15/2017		<0.01							
3/16/2017				<0.01					
3/20/2017			<0.01		<0.01				
3/21/2017									<0.01
3/22/2017									
3/23/2017						<0.01		<0.01	
9/15/2017	<0.01	<0.01					<0.01		
9/18/2017									
9/19/2017			<0.01	<0.01		<0.01			
9/20/2017									
9/21/2017					<0.01				
9/22/2017									<0.01
9/25/2017								<0.01	
3/12/2018	<0.01	<0.01					<0.01		
3/13/2018			<0.01	<0.01		<0.01			
3/14/2018					<0.01			<0.01	<0.01
9/6/2018	<0.01	<0.01				<0.01	<0.01		
9/7/2018					<0.01				
9/10/2018									
9/11/2018			<0.01	<0.01				<0.01	<0.01

Prediction Limit

Constituent: Silver (mg/L) Analysis Run 12/7/2018 9:58 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-19R	GWC-18R	GWC-20R	GWC-21R	GWC-23R	GWC-22R	GWA-52 (bg)	GWA-53R (bg)	GWA-51R_51RZ ...
9/15/2014									
9/16/2014									
9/17/2014	<0.0025	0.00058 (J)							
9/18/2014			<0.0025	<0.0025	<0.0025	<0.0025			
10/3/2014									
10/4/2014	<0.0025	<0.0025							
10/5/2014			<0.0025	<0.0025	<0.0025	<0.0025			
10/20/2014									
10/21/2014	<0.0025	<0.0025							
10/22/2014			<0.0025	<0.0025	<0.0025	<0.0025			
10/23/2014									
11/5/2014	<0.0025		<0.0025	<0.0025	<0.0025	<0.0025			
11/10/2014									
11/11/2014		<0.0025							
3/2/2015									
3/3/2015	<0.0025	<0.0025							
3/4/2015			<0.0025	<0.0025	<0.0025	<0.0025			
3/17/2015									
3/18/2015		<0.0025							
3/19/2015	<0.0025		<0.0025	<0.0025		<0.0025			
3/20/2015					<0.0025				
4/5/2015									
4/6/2015									
4/7/2015	<0.0025	<0.0025	<0.0025						
4/8/2015				<0.0025	<0.0025	<0.0025			
4/9/2015									
4/21/2015									
4/22/2015									
4/23/2015		<0.0025			<0.0025				
4/24/2015	<0.0025		<0.0025	<0.0025		<0.0025			
5/8/2015							<0.0025	<0.0025	<0.0025
5/9/2015									
5/17/2015							<0.0025	<0.0025	<0.0025
5/18/2015									
5/19/2015									
5/25/2015							<0.0025	<0.0025	<0.0025
5/26/2015									
6/8/2015							<0.0025	<0.0025	<0.0025
6/9/2015									
6/17/2015									
6/18/2015							<0.0025	<0.0025	<0.0025
6/24/2015							<0.0025	<0.0025	<0.0025
6/25/2015									
6/30/2015							<0.0025	<0.0025	<0.0025
7/1/2015									
7/6/2015							<0.0025	<0.0025	<0.0025
7/7/2015									
7/28/2015									
7/29/2015	<0.0025	<0.0025							
7/30/2015			<0.0025	<0.0025	<0.0025	<0.0025			
8/12/2015							<0.005	<0.005	<0.005
8/13/2015									

Prediction Limit

Constituent: Silver (mg/L) Analysis Run 12/7/2018 9:58 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-19R	GWC-18R	GWC-20R	GWC-21R	GWC-23R	GWC-22R	GWA-52 (bg)	GWA-53R (bg)	GWA-51R_51RZ ...
2/29/2016							<0.01		
3/1/2016									
3/2/2016								<0.01	
3/3/2016									
3/4/2016									
3/7/2016	<0.01	<0.01				<0.01			
3/8/2016			<0.01	<0.01					
3/9/2016					<0.01				
7/6/2016									
7/7/2016									<0.01 (D)
7/8/2016							<0.01		
7/11/2016								<0.01	
7/12/2016									
7/13/2016		<0.01							
7/14/2016	<0.01		<0.01			<0.01			
7/15/2016				<0.01	<0.01				
7/18/2016									
3/14/2017									
3/15/2017							<0.01		<0.01 (D)
3/16/2017								<0.01	
3/20/2017		<0.01				<0.01			
3/21/2017	<0.01			<0.01					
3/22/2017			<0.01		<0.01				
3/23/2017									
9/15/2017							<0.01		
9/18/2017									
9/19/2017			<0.01	<0.01		<0.01		<0.01	<0.01 (D)
9/20/2017	<0.01								
9/21/2017		<0.01			<0.01				
9/22/2017									
9/25/2017									
3/12/2018									
3/13/2018						<0.01	<0.01	<0.01	<0.01
3/14/2018	<0.01	<0.01	<0.01	<0.01	<0.01				
9/6/2018							<0.01		
9/7/2018		<0.01				<0.01			<0.01
9/10/2018	<0.01		<0.01	<0.01					
9/11/2018					<0.01			<0.01	

Prediction Limit

Constituent: Silver (mg/L) Analysis Run 12/7/2018 9:58 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-53 (bg)	GWA-55R (bg)	GWA-54 (bg)	GWA-55 (bg)	GWA-56 (bg)
9/15/2014					
9/16/2014					
9/17/2014					
9/18/2014					
10/3/2014					
10/4/2014					
10/5/2014					
10/20/2014					
10/21/2014					
10/22/2014					
10/23/2014					
11/5/2014					
11/10/2014					
11/11/2014					
3/2/2015					
3/3/2015					
3/4/2015					
3/17/2015					
3/18/2015					
3/19/2015					
3/20/2015					
4/5/2015					
4/6/2015					
4/7/2015					
4/8/2015					
4/9/2015					
4/21/2015					
4/22/2015					
4/23/2015					
4/24/2015					
5/8/2015					
5/9/2015	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
5/17/2015					
5/18/2015	<0.0025	<0.0025	<0.0025	<0.0025	
5/19/2015					<0.0025
5/25/2015	<0.0025		<0.0025		
5/26/2015		<0.0025		<0.0025	<0.0025
6/8/2015	<0.0025				
6/9/2015		<0.0025	<0.0025	<0.0025	<0.0025
6/17/2015	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
6/18/2015					
6/24/2015	<0.0025				
6/25/2015		<0.0025	<0.0025	<0.0025	<0.0025
6/30/2015	<0.0025				
7/1/2015		<0.0025	<0.0025	<0.0025	<0.0025
7/6/2015	<0.0025				
7/7/2015		<0.0025	<0.0025	<0.0025	<0.0025
7/28/2015					
7/29/2015					
7/30/2015					
8/12/2015	<0.005		<0.005		
8/13/2015		<0.005		<0.005	<0.005

Prediction Limit

Constituent: Silver (mg/L) Analysis Run 12/7/2018 9:58 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-53 (bg)	GWA-55R (bg)	GWA-54 (bg)	GWA-55 (bg)	GWA-56 (bg)
2/29/2016					
3/1/2016					
3/2/2016	<0.01		<0.01	<0.01	
3/3/2016		<0.01			<0.01
3/4/2016					
3/7/2016					
3/8/2016					
3/9/2016					
7/6/2016					
7/7/2016					
7/8/2016	<0.01		<0.01		
7/11/2016		<0.01		<0.01	<0.01
7/12/2016					
7/13/2016					
7/14/2016					
7/15/2016					
7/18/2016					
3/14/2017					
3/15/2017			<0.01		<0.01
3/16/2017	<0.01	<0.01		<0.01	
3/20/2017					
3/21/2017					
3/22/2017					
3/23/2017					
9/15/2017			<0.01	<0.01	<0.01
9/18/2017		<0.01			
9/19/2017	<0.01				
9/20/2017					
9/21/2017					
9/22/2017					
9/25/2017					
3/12/2018		<0.01		<0.01	
3/13/2018	<0.01		<0.01		<0.01
3/14/2018					
9/6/2018			<0.01		
9/7/2018		<0.01		<0.01	<0.01
9/10/2018					
9/11/2018	<0.01				

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 12/7/2018 9:58 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-36 (bg)	GWC-24R	GWC-16R	GWA-37 (bg)	GWC-25R	GWA-38 (bg)	GWC-19R	GWC-17R	GWC-18R
9/15/2014	<0.001								
9/16/2014		<0.001	0.0004 (J)	<0.001	<0.001	<0.001			
9/17/2014							<0.001	<0.001	<0.001
9/18/2014									
10/3/2014	<0.001			<0.001					
10/4/2014		<0.001	0.0004 (J)		<0.001		<0.001	<0.001	<0.001
10/5/2014									
10/6/2014						<0.001			
10/20/2014	<0.001			<0.001		<0.001			
10/21/2014			0.0004 (J)				<0.001	<0.001	<0.001
10/22/2014									
10/23/2014		<0.001			<0.001				
11/5/2014							<0.001		
11/10/2014	<0.001	<0.001		<0.001	<0.001	<0.001			
11/11/2014			0.0005 (J)					<0.001	<0.001
3/2/2015	<0.001			<0.001		<0.001			
3/3/2015			0.0004 (J)				<0.001	<0.001	<0.001
3/4/2015		<0.001			<0.001				
3/17/2015	<0.001			<0.001		<0.001			
3/18/2015			0.0005 (J)					<0.001	<0.001
3/19/2015							<0.001		
3/20/2015		<0.001			<0.001				
4/5/2015	<0.001			<0.001					
4/6/2015			0.0004 (J)			<0.001		<0.001	
4/7/2015							<0.001		<0.001
4/8/2015		<0.001							
4/9/2015					<0.001				
4/21/2015	<0.001								
4/22/2015				<0.001		<0.001			
4/23/2015		<0.001	0.0004 (J)		<0.001			<0.001	<0.001
4/24/2015							<0.001		
5/13/2015									
5/20/2015									
5/27/2015									
6/8/2015									
6/9/2015									
6/17/2015									
6/18/2015									
6/24/2015									
6/25/2015									
6/30/2015									
7/1/2015									
7/6/2015									
7/7/2015									
7/28/2015	<0.001			<0.001		<0.001			
7/29/2015			0.0003 (J)				<0.001	<0.001	<0.001
7/30/2015		<0.001			<0.001				
8/12/2015									
8/13/2015									
2/29/2016									
3/1/2016	<0.001			<0.001					
3/2/2016						<0.001			

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 12/7/2018 9:58 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-36 (bg)	GWC-24R	GWC-16R	GWA-37 (bg)	GWC-25R	GWA-38 (bg)	GWC-19R	GWC-17R	GWC-18R
3/3/2016			0.002222 (JD)						
3/4/2016		<0.01						<0.01	
3/7/2016							<0.01		<0.01
3/8/2016					<0.01				
3/9/2016									
5/2/2016	<0.001								
5/3/2016				<0.001		<0.001			
5/4/2016					<0.001				
5/5/2016		<0.001							<0.001
5/6/2016									
5/9/2016							<0.001		
5/10/2016			<0.001					<0.001	
7/6/2016									
7/7/2016	9E-05 (J)					<0.001			
7/8/2016				<0.001					
7/11/2016									
7/12/2016		<0.001 (*)							
7/13/2016			<0.001 (*)						<0.001
7/14/2016							<0.001	<0.001 (*)	
7/15/2016									
7/18/2016					<0.001				
9/7/2016	<0.001			<0.001					
9/8/2016						<0.001			
9/9/2016									
9/12/2016							<0.001		<0.001
9/13/2016		<0.001			<0.001				
9/14/2016								<0.001	
9/15/2016			<0.001						
10/25/2016	<0.001			<0.001		<0.001			
10/26/2016									
10/27/2016		<0.001			<0.001				
10/31/2016							<0.001		
11/1/2016								<0.001	<0.001
11/2/2016			<0.001						
1/5/2017	<0.001								
1/6/2017				<0.001					
1/9/2017									
1/11/2017			0.0003 (J)				<0.001	<0.001	<0.001
1/12/2017									
1/13/2017		<0.001			<0.001				
1/25/2017									
2/9/2017						<0.001			
3/14/2017				<0.001					
3/15/2017	4E-05 (J)								
3/16/2017					<0.001				
3/20/2017		<0.001 (*)	0.0003 (J)						<0.001
3/21/2017							<0.001	<0.001	
3/22/2017									
3/23/2017						<0.001			
5/16/2017				<0.001					
5/17/2017	<0.001					<0.001			
5/18/2017									

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 12/7/2018 9:58 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-36 (bg)	GWC-24R	GWC-16R	GWA-37 (bg)	GWC-25R	GWA-38 (bg)	GWC-19R	GWC-17R	GWC-18R
5/19/2017		<0.001			<0.001				
5/22/2017							<0.001		<0.001
5/23/2017			0.0003 (J)					<0.001	
5/24/2017									
7/19/2017									
9/15/2017	<0.001			<0.001					
9/18/2017									
9/19/2017		<0.001			<0.001	<0.001			
9/20/2017							<0.001		
9/21/2017			0.0002 (J)						<0.001
9/22/2017								<0.001	
9/25/2017									
3/12/2018	<0.001			<0.001					
3/13/2018		<0.001			<0.001	<0.001			
3/14/2018			0.00018 (J)				<0.001	<0.001	<0.001
9/6/2018	<0.001			<0.001		<0.001			
9/7/2018			0.00016 (J)						<0.001
9/10/2018							<0.001		
9/11/2018		<0.001			<0.001			<0.001	

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 12/7/2018 9:58 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-18	GWC-23R	GWC-22R	GWC-21R	GWC-20R	GWA-36R (bg)	GWA-55R (bg)	GWA-53 (bg)	GWA-52 (bg)
9/15/2014									
9/16/2014									
9/17/2014	0.0002 (J)								
9/18/2014		0.0002 (J)	<0.001	0.0002 (J)	0.0001 (J)				
10/3/2014						<0.001			
10/4/2014	0.0002 (J)								
10/5/2014		0.0003 (J)	0.0001 (J)	0.0002 (J)	0.0001 (J)				
10/6/2014									
10/20/2014						<0.001			
10/21/2014	0.0002 (J)								
10/22/2014		0.0002 (J)	<0.001	0.0002 (J)	0.0001 (J)				
10/23/2014									
11/5/2014	0.0003 (J)		0.0001 (J)	0.0002 (J)	0.0002 (J)				
11/10/2014						<0.001			
11/11/2014									
3/2/2015						<0.001			
3/3/2015	0.0002 (J)								
3/4/2015		0.0002 (J)	0.0001 (J)	0.0002 (J)	0.0001 (J)				
3/17/2015						0.0001 (J)			
3/18/2015	0.0002 (J)								
3/19/2015			0.0001 (J)	0.0002 (J)	0.0001 (J)				
3/20/2015		0.0002 (J)							
4/5/2015						7E-05 (J)			
4/6/2015									
4/7/2015	0.0002 (J)				0.0001 (J)				
4/8/2015		0.0002 (J)	0.0001 (J)	0.0002 (J)					
4/9/2015									
4/21/2015						<0.001			
4/22/2015									
4/23/2015	0.0002 (J)	0.0002 (J)							
4/24/2015			0.0001 (J)	0.0002 (J)	0.0001 (J)				
5/13/2015							<0.001	0.0002 (J)	<0.001
5/20/2015							<0.001	0.0002 (J)	6E-05 (J)
5/27/2015							<0.001	0.0002 (J)	<0.001
6/8/2015								9E-05 (J)	<0.001
6/9/2015							<0.001		
6/17/2015							<0.001	7E-05 (J)	
6/18/2015									<0.001
6/24/2015							<0.001	<0.001	<0.001
6/25/2015									
6/30/2015								9E-05 (J)	<0.001
7/1/2015							<0.001		
7/6/2015								<0.001	<0.001
7/7/2015							<0.001		
7/28/2015						<0.001			
7/29/2015	0.0002 (J)								
7/30/2015		0.0001 (J)	0.0001 (J)	0.0001 (J)	<0.001				
8/12/2015								7E-05 (J)	<0.001
8/13/2015							<0.001		
2/29/2016									<0.001
3/1/2016						<0.001			
3/2/2016								<0.001	

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 12/7/2018 9:58 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-18	GWC-23R	GWC-22R	GWC-21R	GWC-20R	GWA-36R (bg)	GWA-55R (bg)	GWA-53 (bg)	GWA-52 (bg)
3/3/2016							<0.001		
3/4/2016									
3/7/2016	<0.01		<0.01						
3/8/2016				<0.01	<0.01				
3/9/2016		0.0033 (J)							
5/2/2016						<0.001			
5/3/2016							<0.001	<0.001	
5/4/2016									<0.001
5/5/2016	<0.001		<0.001						
5/6/2016		<0.001							
5/9/2016				0.000353 (J)	<0.001				
5/10/2016									
7/6/2016						<0.001			
7/7/2016									
7/8/2016								6E-05 (J)	0.0002 (J)
7/11/2016							<0.001		
7/12/2016									
7/13/2016	<0.001 (*)								
7/14/2016			<0.001 (*)		<0.001 (*)				
7/15/2016		<0.001 (*)		<0.001 (*)					
7/18/2016									
9/7/2016						<0.001			
9/8/2016								<0.001	<0.001
9/9/2016				<0.001			<0.001		
9/12/2016			<0.001		<0.001				
9/13/2016	<0.001								
9/14/2016		0.0002 (J)							
9/15/2016									
10/25/2016						<0.001			
10/26/2016								<0.001	<0.001
10/27/2016			<0.001	<0.001			<0.001		
10/31/2016	<0.001				<0.001				
11/1/2016		<0.001							
11/2/2016									
1/5/2017						<0.001			
1/6/2017									<0.001
1/9/2017							<0.001	<0.001	
1/11/2017									
1/12/2017	<0.001			<0.001	<0.001				
1/13/2017			<0.001						
1/25/2017		<0.001							
2/9/2017									
3/14/2017						<0.001			
3/15/2017									4E-05 (J)
3/16/2017							5E-05 (J)	4E-05 (J)	
3/20/2017			<0.001 (*)						
3/21/2017				<0.001 (*)					
3/22/2017		0.0001 (J)			4E-05 (J)				
3/23/2017	0.0001 (J)								
5/16/2017						<0.001			
5/17/2017									<0.001
5/18/2017							<0.001		

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 12/7/2018 9:58 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-18	GWC-23R	GWC-22R	GWC-21R	GWC-20R	GWA-36R (bg)	GWA-55R (bg)	GWA-53 (bg)	GWA-52 (bg)
5/19/2017								<0.001	
5/22/2017					5E-05 (J)				
5/23/2017	0.0001 (J)		0.0001 (J)	0.0002 (J)					
5/24/2017		0.0001 (J)							
7/19/2017									
9/15/2017						<0.001			<0.001
9/18/2017							<0.001		
9/19/2017			8E-05 (J)	0.0002 (J)	6E-05 (J)			<0.001	
9/20/2017									
9/21/2017		0.0002 (J)							
9/22/2017									
9/25/2017	0.0001 (J)								
3/12/2018						<0.001	<0.001		
3/13/2018			0.00017 (J)					<0.001	<0.001
3/14/2018	<0.001	<0.001		<0.001	<0.001				
9/6/2018						<0.001			<0.001
9/7/2018			<0.001				<0.001		
9/10/2018				<0.001	<0.001				
9/11/2018	<0.001	<0.001						<0.001	

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 12/7/2018 9:58 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-51R_51RZ ...	GWA-56 (bg)	GWA-55 (bg)	GWA-54 (bg)	GWA-53R (bg)
9/15/2014					
9/16/2014					
9/17/2014					
9/18/2014					
10/3/2014					
10/4/2014					
10/5/2014					
10/6/2014					
10/20/2014					
10/21/2014					
10/22/2014					
10/23/2014					
11/5/2014					
11/10/2014					
11/11/2014					
3/2/2015					
3/3/2015					
3/4/2015					
3/17/2015					
3/18/2015					
3/19/2015					
3/20/2015					
4/5/2015					
4/6/2015					
4/7/2015					
4/8/2015					
4/9/2015					
4/21/2015					
4/22/2015					
4/23/2015					
4/24/2015					
5/13/2015	0.0003 (J)	<0.001	<0.001	0.0002 (J)	<0.001
5/20/2015	9E-05 (J)	<0.001	<0.001	0.0002 (J)	<0.001
5/27/2015	<0.001	<0.001	<0.001	0.0002 (J)	<0.001
6/8/2015	<0.001				<0.001 (D)
6/9/2015		<0.001	<0.001	0.0001 (J)	
6/17/2015		<0.001	8E-05 (J)	0.0001 (J)	
6/18/2015	<0.001				
6/24/2015	<0.001				<0.001
6/25/2015		<0.001	7E-05 (J)	0.0001 (J)	
6/30/2015	6E-05 (J)				<0.001
7/1/2015		<0.001	<0.001	0.0001 (J)	
7/6/2015	<0.001				<0.001
7/7/2015		<0.001	0.0001 (J)	9E-05 (J)	
7/28/2015					
7/29/2015					
7/30/2015					
8/12/2015	<0.001			7E-05 (J)	<0.001
8/13/2015		<0.001	8E-05 (J)		
2/29/2016					
3/1/2016					
3/2/2016			<0.001	<0.001	<0.001

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 12/7/2018 9:58 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-51R_51RZ ...	GWA-56 (bg)	GWA-55 (bg)	GWA-54 (bg)	GWA-53R (bg)
3/3/2016		<0.01			
3/4/2016					
3/7/2016					
3/8/2016					
3/9/2016					
5/2/2016					
5/3/2016			<0.001		<0.001
5/4/2016	<0.001 (D)			<0.001	
5/5/2016					
5/6/2016					
5/9/2016		<0.001			
5/10/2016					
7/6/2016					
7/7/2016	<0.001 (D)				
7/8/2016				<0.001	
7/11/2016		<0.001	<0.001 (*)		<0.001
7/12/2016					
7/13/2016					
7/14/2016					
7/15/2016					
7/18/2016					
9/7/2016					<0.001
9/8/2016	<0.001 (D)			<0.001	
9/9/2016		<0.001	<0.001		
9/12/2016					
9/13/2016					
9/14/2016					
9/15/2016					
10/25/2016					
10/26/2016	<0.001 (D)	<0.001	<0.001	<0.001	
10/27/2016					<0.001
10/31/2016					
11/1/2016					
11/2/2016					
1/5/2017					
1/6/2017	<0.001 (D)				<0.001
1/9/2017		<0.001	<0.001	<0.001	
1/11/2017					
1/12/2017					
1/13/2017					
1/25/2017					
2/9/2017					
3/14/2017					
3/15/2017	4E-05 (JD)	<0.001		4E-05 (J)	
3/16/2017			0.0001 (J)		<0.001
3/20/2017					
3/21/2017					
3/22/2017					
3/23/2017					
5/16/2017					
5/17/2017					
5/18/2017	6E-05 (JD)	<0.001	0.0001 (J)	<0.001	

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 12/7/2018 9:58 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-51R_51RZ ...	GWA-56 (bg)	GWA-55 (bg)	GWA-54 (bg)	GWA-53R (bg)
5/19/2017					<0.001
5/22/2017					
5/23/2017					
5/24/2017					
7/19/2017	<0.001 (D)				
9/15/2017		<0.001	0.0001 (J)	<0.001	
9/18/2017					
9/19/2017	6E-05 (JD)				<0.001
9/20/2017					
9/21/2017					
9/22/2017					
9/25/2017					
3/12/2018			<0.001		
3/13/2018	<0.001	<0.001		<0.001	<0.001
3/14/2018					
9/6/2018				<0.001	
9/7/2018	<0.001	<0.001	<0.001		
9/10/2018					
9/11/2018					<0.001

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 12/7/2018 9:58 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-36R (bg)	GWA-36 (bg)	GWC-24R	GWC-25R	GWC-16R	GWA-38 (bg)	GWA-37 (bg)	GWC-18	GWC-17R
9/15/2014	0.0073	<0.005							
9/16/2014			0.0012 (J)	<0.005	0.0019 (J)	0.00085 (J)	<0.005		
9/17/2014								<0.005	<0.005
9/18/2014									
10/3/2014	<0.005	<0.005				0.00096 (J)	<0.005		
10/4/2014			<0.005	<0.005	0.005			<0.005	<0.005
10/5/2014									
10/20/2014	0.0045 (J)	<0.005				<0.005	<0.005		
10/21/2014					0.00089 (J)			<0.005	<0.005
10/22/2014									
10/23/2014			<0.005	<0.005					
11/5/2014								<0.005	
11/10/2014	<0.005	<0.005	<0.005	<0.005		0.00095 (J)	<0.005		
11/11/2014					<0.005				0.0012 (J)
3/2/2015	<0.005	<0.005				0.0041 (J)	<0.005		
3/3/2015					0.00093 (J)			<0.005	<0.005
3/4/2015			<0.005	<0.005					
3/17/2015	<0.005	<0.005				0.0018 (J)	<0.005		
3/18/2015					<0.005			<0.005	<0.005
3/19/2015									
3/20/2015			<0.005	<0.005					
4/5/2015	0.0014 (J)	<0.005					<0.005		
4/6/2015					<0.005	<0.005			<0.005
4/7/2015								<0.005	
4/8/2015			0.0012 (J)						
4/9/2015				<0.005					
4/21/2015	0.0029 (J)	<0.005							
4/22/2015						<0.005	<0.005		
4/23/2015			<0.005	<0.005	<0.005			<0.005	<0.005
4/24/2015									
5/8/2015									
5/9/2015									
5/17/2015									
5/18/2015									
5/19/2015									
5/25/2015									
5/26/2015									
6/8/2015									
6/9/2015									
6/17/2015									
6/18/2015									
6/24/2015									
6/25/2015									
6/30/2015									
7/1/2015									
7/6/2015									
7/7/2015									
7/28/2015	0.0031 (J)	<0.005				<0.005	<0.005		
7/29/2015					<0.005			<0.005	<0.005
7/30/2015			<0.005	<0.005					
8/12/2015									
2/29/2016									

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 12/7/2018 9:58 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-36R (bg)	GWA-36 (bg)	GWC-24R	GWC-25R	GWC-16R	GWA-38 (bg)	GWA-37 (bg)	GWC-18	GWC-17R
3/1/2016	<0.01	<0.01					<0.01		
3/2/2016						<0.01			
3/3/2016					<0.01 (D)				
3/4/2016			<0.001						<0.001
3/7/2016								<0.001	
3/8/2016				<0.001					
3/9/2016									
7/6/2016	<0.01								
7/7/2016		<0.01				<0.01			
7/8/2016							0.0028 (J)		
7/11/2016									
7/12/2016			0.002 (J)						
7/13/2016					0.0021 (J)			<0.01	
7/14/2016									<0.01
7/15/2016									
7/18/2016				<0.01					
3/14/2017	<0.01						<0.01		
3/15/2017		<0.01							
3/16/2017				<0.01					
3/20/2017			<0.01		0.0019 (J)				
3/21/2017									<0.01
3/22/2017									
3/23/2017						<0.01		<0.01	
9/15/2017	<0.01	<0.01					<0.01		
9/18/2017									
9/19/2017			0.0012 (J)	<0.01		<0.01			
9/20/2017									
9/21/2017					<0.01				
9/22/2017									<0.01
9/25/2017								<0.01	
3/12/2018	<0.01	<0.01					<0.01		
3/13/2018			<0.01	<0.01		<0.01			
3/14/2018					<0.01			<0.01	<0.01
9/6/2018	<0.01	<0.01				<0.01	<0.01		
9/7/2018					<0.01				
9/10/2018									
9/11/2018			<0.01	<0.01				<0.01	<0.01

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 12/7/2018 9:58 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-19R	GWC-18R	GWC-20R	GWC-21R	GWC-23R	GWC-22R	GWA-53R (bg)	GWA-52 (bg)	GWA-51R_51RZ ...
9/15/2014									
9/16/2014									
9/17/2014	<0.005	0.001 (J)							
9/18/2014			<0.005	<0.005	<0.005	<0.005			
10/3/2014									
10/4/2014	<0.005	<0.005							
10/5/2014			<0.005	<0.005	<0.005	<0.005			
10/20/2014									
10/21/2014	<0.005	0.00084 (J)							
10/22/2014			<0.005	<0.005	0.00083 (J)	<0.005			
10/23/2014									
11/5/2014	<0.005		<0.005	<0.005	0.0014 (J)	<0.005			
11/10/2014									
11/11/2014		<0.005							
3/2/2015									
3/3/2015	<0.005	<0.005							
3/4/2015			<0.005	<0.005	<0.005	<0.005			
3/17/2015									
3/18/2015		<0.005							
3/19/2015	<0.005		0.0012 (J)	<0.005		<0.005			
3/20/2015					<0.005				
4/5/2015									
4/6/2015									
4/7/2015	<0.005	<0.005	<0.005						
4/8/2015				<0.005	0.0017 (J)	<0.005			
4/9/2015									
4/21/2015									
4/22/2015									
4/23/2015		<0.005			<0.005				
4/24/2015	<0.005		<0.005	<0.005		<0.005			
5/8/2015							<0.005	<0.005	<0.005
5/9/2015									
5/17/2015							<0.005	<0.005	0.0044 (J)
5/18/2015									
5/19/2015									
5/25/2015							<0.005	<0.005	0.0025 (J)
5/26/2015									
6/8/2015							<0.005	0.0012 (J)	0.0042 (J)
6/9/2015									
6/17/2015									
6/18/2015							<0.005	<0.005	0.0056
6/24/2015							<0.005	<0.005	0.016
6/25/2015									
6/30/2015							<0.005	<0.005	0.013
7/1/2015									
7/6/2015							<0.005	0.0011 (J)	0.012
7/7/2015									
7/28/2015									
7/29/2015	<0.005	<0.005							
7/30/2015			<0.005	<0.005	<0.005	<0.005			
8/12/2015							0.000172 (J)	0.000519 (J)	0.0279 (J)
2/29/2016								<0.01	

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 12/7/2018 9:58 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-19R	GWC-18R	GWC-20R	GWC-21R	GWC-23R	GWC-22R	GWA-53R (bg)	GWA-52 (bg)	GWA-51R_51RZ ...
3/1/2016									
3/2/2016							<0.01		
3/3/2016									
3/4/2016									
3/7/2016	<0.001	<0.001				<0.001			
3/8/2016			<0.001	<0.001					
3/9/2016					<0.01				
7/6/2016									
7/7/2016									<0.01 (D)
7/8/2016								<0.01	
7/11/2016							<0.01		
7/12/2016									
7/13/2016		<0.01							
7/14/2016	<0.01		<0.01			<0.01			
7/15/2016				<0.01	<0.01				
7/18/2016									
3/14/2017									
3/15/2017								<0.01	<0.01 (D)
3/16/2017							<0.01		
3/20/2017		<0.01				<0.01			
3/21/2017	<0.01			<0.01					
3/22/2017			<0.01		<0.01				
3/23/2017									
9/15/2017								<0.01	
9/18/2017									
9/19/2017			<0.01	<0.01		<0.01	<0.01		<0.01 (D)
9/20/2017	<0.01								
9/21/2017		<0.01			<0.01				
9/22/2017									
9/25/2017									
3/12/2018									
3/13/2018						<0.01	<0.01	<0.01	<0.01
3/14/2018	<0.01	<0.01	<0.01	<0.01	<0.01				
9/6/2018								<0.01	
9/7/2018		<0.01				<0.01			<0.01
9/10/2018	<0.01		<0.01	<0.01					
9/11/2018					<0.01		<0.01		

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 12/7/2018 9:58 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-55R (bg)	GWA-53 (bg)	GWA-54 (bg)	GWA-56 (bg)	GWA-55 (bg)
9/15/2014					
9/16/2014					
9/17/2014					
9/18/2014					
10/3/2014					
10/4/2014					
10/5/2014					
10/20/2014					
10/21/2014					
10/22/2014					
10/23/2014					
11/5/2014					
11/10/2014					
11/11/2014					
3/2/2015					
3/3/2015					
3/4/2015					
3/17/2015					
3/18/2015					
3/19/2015					
3/20/2015					
4/5/2015					
4/6/2015					
4/7/2015					
4/8/2015					
4/9/2015					
4/21/2015					
4/22/2015					
4/23/2015					
4/24/2015					
5/8/2015					
5/9/2015	<0.005	<0.005	0.0018 (J)	<0.005	<0.005
5/17/2015					
5/18/2015	0.0017 (J)	<0.005	0.0014 (J)		0.0014 (J)
5/19/2015				0.0015 (J)	
5/25/2015		<0.005	<0.005		
5/26/2015	<0.005			<0.005	<0.005
6/8/2015		<0.005			
6/9/2015	0.0033 (J)		<0.005	<0.005	<0.005
6/17/2015	<0.005	<0.005	0.0015 (J)	<0.005	<0.005
6/18/2015					
6/24/2015		<0.005			
6/25/2015	<0.005		<0.005	<0.005	<0.005
6/30/2015		<0.005			
7/1/2015	0.0031 (J)		<0.005	<0.005	<0.005
7/6/2015		<0.005			
7/7/2015	<0.005		<0.005	<0.005	<0.005
7/28/2015					
7/29/2015					
7/30/2015					
8/12/2015	0.000187 (J)	0.000525 (J)	0.000656 (J)	0.000497 (J)	0.000246 (J)
2/29/2016					

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 12/7/2018 9:58 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-55R (bg)	GWA-53 (bg)	GWA-54 (bg)	GWA-56 (bg)	GWA-55 (bg)
3/1/2016					
3/2/2016		<0.01	<0.01		<0.01
3/3/2016	<0.01			<0.001	
3/4/2016					
3/7/2016					
3/8/2016					
3/9/2016					
7/6/2016					
7/7/2016					
7/8/2016		<0.01	<0.01		
7/11/2016	<0.01			<0.01	<0.01
7/12/2016					
7/13/2016					
7/14/2016					
7/15/2016					
7/18/2016					
3/14/2017					
3/15/2017			<0.01	<0.01	
3/16/2017	<0.01	<0.01			<0.01
3/20/2017					
3/21/2017					
3/22/2017					
3/23/2017					
9/15/2017			<0.01	<0.01	<0.01
9/18/2017	<0.01				
9/19/2017		<0.01			
9/20/2017					
9/21/2017					
9/22/2017					
9/25/2017					
3/12/2018	<0.01				<0.01
3/13/2018		<0.01	<0.01	<0.01	
3/14/2018					
9/6/2018			<0.01		
9/7/2018	<0.01			<0.01	<0.01
9/10/2018					
9/11/2018		<0.01			

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 12/7/2018 9:58 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-36R (bg)	GWA-36 (bg)	GWC-24R	GWC-25R	GWC-16R	GWA-38 (bg)	GWA-37 (bg)	GWC-19R	GWC-18R
9/15/2014	0.44	0.15							
9/16/2014			0.00054 (J)	0.004	0.072	0.0054	0.0062		
9/17/2014								0.0026	0.002 (J)
9/18/2014									
10/3/2014	0.021	0.04				0.007	0.0085		
10/4/2014			0.0008 (J)	0.0011 (J)	0.078			0.0034	0.001 (J)
10/5/2014									
10/20/2014	0.19	0.042				0.0052	0.0087		
10/21/2014					0.083			0.0037	0.00082 (J)
10/22/2014									
10/23/2014			<0.0025	0.0011 (J)					
11/5/2014								0.0035	
11/10/2014	0.0014 (J)	0.1	<0.0025	0.0028		0.0054	0.01		
11/11/2014					0.082				0.00076 (J)
3/2/2015	0.032	0.073				0.041	0.0077		
3/3/2015					0.078			0.0036	<0.0025
3/4/2015			<0.0025	<0.0025					
3/17/2015	0.034	0.2				0.014	0.0086		
3/18/2015					0.075				0.0016 (J)
3/19/2015								0.0035	
3/20/2015			<0.0025	<0.0025					
4/5/2015	0.089	0.29					0.0098		
4/6/2015					0.071	0.0044			
4/7/2015								0.0039	<0.0025
4/8/2015			0.0016 (J)						
4/9/2015				<0.0025					
4/21/2015	0.16	0.46							
4/22/2015						0.0023 (J)	0.0049		
4/23/2015			<0.0025	<0.0025	0.072				<0.0025
4/24/2015								0.0034	
5/8/2015									
5/9/2015									
5/17/2015									
5/18/2015									
5/19/2015									
5/25/2015									
5/26/2015									
6/8/2015									
6/9/2015									
6/17/2015									
6/18/2015									
6/24/2015									
6/25/2015									
6/30/2015									
7/1/2015									
7/6/2015									
7/7/2015									
7/28/2015	0.15	0.26				0.0035	0.0099		
7/29/2015					0.072			0.0038	<0.0025
7/30/2015			<0.0025	<0.0025					
8/12/2015									
8/13/2015									

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 12/7/2018 9:58 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-36R (bg)	GWA-36 (bg)	GWC-24R	GWC-25R	GWC-16R	GWA-38 (bg)	GWA-37 (bg)	GWC-19R	GWC-18R
2/29/2016									
3/1/2016	0.0627	0.378					0.00756 (J)		
3/2/2016						0.0029 (J)			
3/3/2016					0.0227 (D)				
3/4/2016			0.00374 (J)						
3/7/2016								<0.3	<0.01
3/8/2016				0.00198 (J)					
3/9/2016									
7/6/2016	0.0532								
7/7/2016		0.263				0.0023 (J)			
7/8/2016							0.0098 (J)		
7/11/2016									
7/12/2016			<0.01						
7/13/2016					0.0709				0.0013 (J)
7/14/2016								<0.01	
7/15/2016									
7/18/2016				<0.01 (*)					
3/14/2017	0.0401						0.0042 (J)		
3/15/2017		0.382							
3/16/2017				0.0026 (J)					
3/20/2017			<0.01		0.0465				<0.01
3/21/2017								<0.01 (*)	
3/22/2017									
3/23/2017						<0.01 (*)			
9/15/2017	0.0338	0.406					0.0032 (J)		
9/18/2017									
9/19/2017			0.0028 (J)	<0.01		0.002 (J)			
9/20/2017								0.0062 (J)	
9/21/2017					0.0302				0.0018 (J)
9/22/2017									
9/25/2017									
3/12/2018	0.042	0.5					0.0025 (J)		
3/13/2018			0.0068 (J)	<0.01		<0.01			
3/14/2018					0.031			<0.01	<0.01
9/6/2018	0.045	0.37				<0.01	<0.01		
9/7/2018					<0.01				<0.01
9/10/2018								<0.01	
9/11/2018			<0.01	<0.01					

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 12/7/2018 9:58 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-18	GWC-21R	GWC-22R	GWC-20R	GWC-23R	GWC-17R	GWA-53R (bg)	GWA-52 (bg)	GWA-51R_51RZ ...
9/15/2014									
9/16/2014									
9/17/2014	0.0035								
9/18/2014		0.0033	0.00089 (J)	0.0023 (J)	0.0013 (J)				
10/3/2014									
10/4/2014	0.0032					0.0038			
10/5/2014		0.0036	0.0016 (J)	0.0025	0.00085 (J)				
10/20/2014									
10/21/2014	0.0028					0.0043			
10/22/2014		0.0038	0.0017 (J)	0.0018 (J)	0.0014 (J)				
10/23/2014									
11/5/2014	0.004	0.0046	0.0038	0.0019 (J)	0.0022 (J)				
11/10/2014									
11/11/2014						0.0041			
3/2/2015									
3/3/2015	0.004					0.0042			
3/4/2015		0.0029	0.002 (J)	0.0016 (J)	0.0033				
3/17/2015									
3/18/2015	0.0024 (J)					0.0046			
3/19/2015		0.0027	0.0025	0.0025					
3/20/2015					0.002 (J)				
4/5/2015									
4/6/2015						0.0043			
4/7/2015	0.0055			0.0026					
4/8/2015		0.0039	0.0018 (J)		0.004				
4/9/2015									
4/21/2015									
4/22/2015									
4/23/2015	0.0035				0.002 (J)	0.0047			
4/24/2015		0.0035	0.0016 (J)	0.0017 (J)					
5/8/2015							0.0022 (J)	<0.0025	0.015
5/9/2015									
5/17/2015							<0.0025	0.0017 (J)	0.12
5/18/2015									
5/19/2015									
5/25/2015							0.0022 (J)	0.003	0.023
5/26/2015									
6/8/2015							0.0015 (J)	0.0025	0.016
6/9/2015									
6/17/2015									
6/18/2015							0.0026	0.0019 (J)	0.016
6/24/2015							0.0015 (J)	0.0028	0.022
6/25/2015									
6/30/2015							0.0015 (J)	<0.0025	0.017
7/1/2015									
7/6/2015							<0.0025	<0.0025	0.01
7/7/2015									
7/28/2015									
7/29/2015	0.0062					0.0039			
7/30/2015		0.0027	<0.0025	0.0017 (J)	<0.0025				
8/12/2015							0.0031 (BJ)	0.0033 (BJ)	0.0047 (BJ)
8/13/2015									

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 12/7/2018 9:58 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-18	GWC-21R	GWC-22R	GWC-20R	GWC-23R	GWC-17R	GWA-53R (bg)	GWA-52 (bg)	GWA-51R_51RZ ...
2/29/2016								<0.01	
3/1/2016									
3/2/2016							0.0028 (J)		
3/3/2016									
3/4/2016						0.0219 (J)			
3/7/2016	0.0225 (J)		<0.01						
3/8/2016		0.00273 (J)		0.557 (J)					
3/9/2016					<0.01				
7/6/2016									
7/7/2016									0.0073 (JD)
7/8/2016								<0.01	
7/11/2016							<0.01		
7/12/2016									
7/13/2016	0.0031 (J)								
7/14/2016			<0.01	<0.01 (*)		0.0111			
7/15/2016		<0.01 (*)			<0.01 (*)				
7/18/2016									
3/14/2017									
3/15/2017								0.0013 (J)	<0.01 (D)
3/16/2017							0.0018 (J)		
3/20/2017			0.0075 (J)						
3/21/2017		<0.01 (*)				<0.01 (*)			
3/22/2017				<0.01	<0.01 (*)				
3/23/2017	<0.01 (*)								
9/15/2017								<0.01	
9/18/2017									
9/19/2017		0.0022 (J)	<0.01	0.0031 (J)			<0.01		<0.01 (D)
9/20/2017									
9/21/2017					0.0034 (J)				
9/22/2017						0.0023 (J)			
9/25/2017	0.002 (J)								
3/12/2018									
3/13/2018			<0.01				<0.01	<0.01	<0.01
3/14/2018	0.0036 (J)	0.0049 (J)		<0.01	<0.01	0.0021 (J)			
9/6/2018								<0.01	
9/7/2018			<0.01						<0.01
9/10/2018		<0.01		<0.012					
9/11/2018	<0.01				<0.01	<0.01	<0.01		

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 12/7/2018 9:58 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-53 (bg)	GWA-54 (bg)	GWA-56 (bg)	GWA-55 (bg)	GWA-55R (bg)
9/15/2014					
9/16/2014					
9/17/2014					
9/18/2014					
10/3/2014					
10/4/2014					
10/5/2014					
10/20/2014					
10/21/2014					
10/22/2014					
10/23/2014					
11/5/2014					
11/10/2014					
11/11/2014					
3/2/2015					
3/3/2015					
3/4/2015					
3/17/2015					
3/18/2015					
3/19/2015					
3/20/2015					
4/5/2015					
4/6/2015					
4/7/2015					
4/8/2015					
4/9/2015					
4/21/2015					
4/22/2015					
4/23/2015					
4/24/2015					
5/8/2015					
5/9/2015	0.0023 (J)	<0.0025	<0.0025	<0.0025	<0.0025
5/17/2015					
5/18/2015	0.0034	0.0019 (J)		0.0016 (J)	0.0033
5/19/2015			0.0045		
5/25/2015	<0.0025	0.0022 (J)			
5/26/2015			0.0038	<0.0025	0.0022 (J)
6/8/2015	0.0015 (J)				
6/9/2015		0.0015 (J)	0.0037	0.0026	0.0082
6/17/2015	<0.0025	0.0035	0.0018 (J)	0.0017 (J)	<0.0025
6/18/2015					
6/24/2015	<0.0025				
6/25/2015		<0.0025	<0.0025	<0.0025	<0.0025
6/30/2015	<0.0025				
7/1/2015		<0.0025	<0.0025	<0.0025	0.0064
7/6/2015	<0.0025				
7/7/2015		<0.0025	<0.0025	<0.0025	<0.0025
7/28/2015					
7/29/2015					
7/30/2015					
8/12/2015	0.004 (BJ)	0.0015 (BJ)			
8/13/2015			0.0017 (BJ)	0.002 (BJ)	0.0028 (BJ)

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 12/7/2018 9:58 AM View: cells 3&4 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-53 (bg)	GWA-54 (bg)	GWA-56 (bg)	GWA-55 (bg)	GWA-55R (bg)
2/29/2016					
3/1/2016					
3/2/2016	0.0035 (J)	<0.01		<0.01	
3/3/2016			<0.01		<0.01
3/4/2016					
3/7/2016					
3/8/2016					
3/9/2016					
7/6/2016					
7/7/2016					
7/8/2016	<0.01	0.0029 (J)			
7/11/2016			0.0018 (J)	<0.01	<0.01
7/12/2016					
7/13/2016					
7/14/2016					
7/15/2016					
7/18/2016					
3/14/2017					
3/15/2017		0.0024 (J)	0.0034 (J)		
3/16/2017	0.0029 (J)			0.0015 (J)	0.0054 (J)
3/20/2017					
3/21/2017					
3/22/2017					
3/23/2017					
9/15/2017		0.0016 (J)	<0.01	<0.01	
9/18/2017					<0.01
9/19/2017	0.0018 (J)				
9/20/2017					
9/21/2017					
9/22/2017					
9/25/2017					
3/12/2018				<0.01	<0.01
3/13/2018	0.0021 (J)	0.0023 (J)	0.0029 (J)		
3/14/2018					
9/6/2018		<0.01			
9/7/2018			<0.01	<0.01	<0.01
9/10/2018					
9/11/2018	<0.01				

Interwell Prediction Limit

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR Printed 12/3/2018, 11:47 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Calcium (mg/L)	**GWC-16R**	**49**	**n/a**	**9/7/2018**	**62.4**	**Yes**	**132**	**0**	**n/a**	**0.000...**	NP (normality) 1 of 2
Calcium (mg/L)	**GWC-17R**	**49**	**n/a**	**9/11/2018**	**63.2**	**Yes**	**132**	**0**	**n/a**	**0.000...**	NP (normality) 1 of 2
Calcium (mg/L)	**GWC-21R**	**49**	**n/a**	**9/10/2018**	**61.7**	**Yes**	**132**	**0**	**n/a**	**0.000...**	NP (normality) 1 of 2
Calcium (mg/L)	**GWC-23R**	**49**	**n/a**	**9/11/2018**	**60.2**	**Yes**	**132**	**0**	**n/a**	**0.000...**	NP (normality) 1 of 2

Interwell Prediction Limit

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR Printed 12/3/2018, 11:47 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Boron (mg/L)	GWC-16R	0.050	n/a	9/7/2018	0.02ND	No	132	67.42	n/a	0.000...	NP (NDs) 1 of 2
Boron (mg/L)	GWC-17R	0.050	n/a	9/11/2018	0.02ND	No	132	67.42	n/a	0.000...	NP (NDs) 1 of 2
Boron (mg/L)	GWC-18	0.050	n/a	9/11/2018	0.02ND	No	132	67.42	n/a	0.000...	NP (NDs) 1 of 2
Boron (mg/L)	GWC-18R	0.050	n/a	9/7/2018	0.02ND	No	132	67.42	n/a	0.000...	NP (NDs) 1 of 2
Boron (mg/L)	GWC-19R	0.050	n/a	9/10/2018	0.02ND	No	132	67.42	n/a	0.000...	NP (NDs) 1 of 2
Boron (mg/L)	GWC-20R	0.050	n/a	9/10/2018	0.02ND	No	132	67.42	n/a	0.000...	NP (NDs) 1 of 2
Boron (mg/L)	GWC-21R	0.050	n/a	9/10/2018	0.02ND	No	132	67.42	n/a	0.000...	NP (NDs) 1 of 2
Boron (mg/L)	GWC-22R	0.050	n/a	9/7/2018	0.02ND	No	132	67.42	n/a	0.000...	NP (NDs) 1 of 2
Boron (mg/L)	GWC-23R	0.050	n/a	9/11/2018	0.02ND	No	132	67.42	n/a	0.000...	NP (NDs) 1 of 2
Boron (mg/L)	GWC-24R	0.050	n/a	9/11/2018	0.02ND	No	132	67.42	n/a	0.000...	NP (NDs) 1 of 2
Boron (mg/L)	GWC-25R	0.050	n/a	9/11/2018	0.02ND	No	132	67.42	n/a	0.000...	NP (NDs) 1 of 2
Calcium (mg/L)	**GWC-16R**	**49**	**n/a**	**9/7/2018**	**62.4**	**Yes**	**132**	**0**	**n/a**	**0.000...**	NP (normality) 1 of 2
Calcium (mg/L)	**GWC-17R**	**49**	**n/a**	**9/11/2018**	**63.2**	**Yes**	**132**	**0**	**n/a**	**0.000...**	NP (normality) 1 of 2
Calcium (mg/L)	GWC-18	49	n/a	9/11/2018	18.1	No	132	0	n/a	0.000...	NP (normality) 1 of 2
Calcium (mg/L)	GWC-18R	49	n/a	9/7/2018	29.5	No	132	0	n/a	0.000...	NP (normality) 1 of 2
Calcium (mg/L)	GWC-19R	49	n/a	9/10/2018	30.7	No	132	0	n/a	0.000...	NP (normality) 1 of 2
Calcium (mg/L)	GWC-20R	49	n/a	9/10/2018	31.6	No	132	0	n/a	0.000...	NP (normality) 1 of 2
Calcium (mg/L)	**GWC-21R**	**49**	**n/a**	**9/10/2018**	**61.7**	**Yes**	**132**	**0**	**n/a**	**0.000...**	NP (normality) 1 of 2
Calcium (mg/L)	GWC-22R	49	n/a	9/7/2018	32.7	No	132	0	n/a	0.000...	NP (normality) 1 of 2
Calcium (mg/L)	**GWC-23R**	**49**	**n/a**	**9/11/2018**	**60.2**	**Yes**	**132**	**0**	**n/a**	**0.000...**	NP (normality) 1 of 2
Calcium (mg/L)	GWC-24R	49	n/a	9/11/2018	29.1	No	132	0	n/a	0.000...	NP (normality) 1 of 2
Calcium (mg/L)	GWC-25R	49	n/a	9/11/2018	30.9	No	132	0	n/a	0.000...	NP (normality) 1 of 2
Fluoride (mg/L)	GWC-16R	0.40	n/a	9/7/2018	0.15ND	No	132	43.18	n/a	0.000...	NP (normality) 1 of 2
Fluoride (mg/L)	GWC-17R	0.40	n/a	9/11/2018	0.15ND	No	132	43.18	n/a	0.000...	NP (normality) 1 of 2
Fluoride (mg/L)	GWC-18	0.40	n/a	9/11/2018	0.15ND	No	132	43.18	n/a	0.000...	NP (normality) 1 of 2
Fluoride (mg/L)	GWC-18R	0.40	n/a	9/7/2018	0.15ND	No	132	43.18	n/a	0.000...	NP (normality) 1 of 2
Fluoride (mg/L)	GWC-19R	0.40	n/a	9/10/2018	0.15ND	No	132	43.18	n/a	0.000...	NP (normality) 1 of 2
Fluoride (mg/L)	GWC-20R	0.40	n/a	9/10/2018	0.15ND	No	132	43.18	n/a	0.000...	NP (normality) 1 of 2
Fluoride (mg/L)	GWC-21R	0.40	n/a	9/10/2018	0.15ND	No	132	43.18	n/a	0.000...	NP (normality) 1 of 2
Fluoride (mg/L)	GWC-22R	0.40	n/a	9/7/2018	0.15ND	No	132	43.18	n/a	0.000...	NP (normality) 1 of 2
Fluoride (mg/L)	GWC-23R	0.40	n/a	9/11/2018	0.15ND	No	132	43.18	n/a	0.000...	NP (normality) 1 of 2
Fluoride (mg/L)	GWC-24R	0.40	n/a	9/11/2018	0.15ND	No	132	43.18	n/a	0.000...	NP (normality) 1 of 2
Fluoride (mg/L)	GWC-25R	0.40	n/a	9/11/2018	0.15ND	No	132	43.18	n/a	0.000...	NP (normality) 1 of 2

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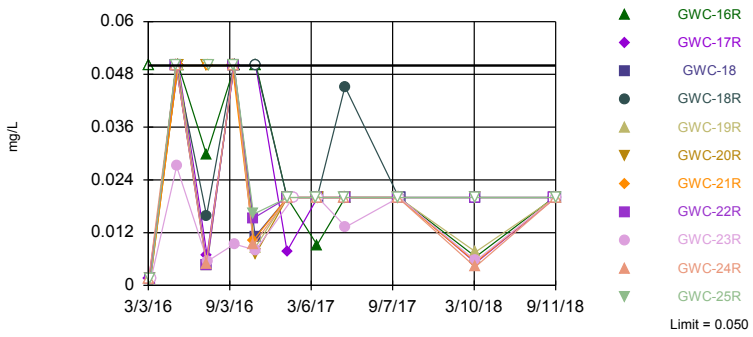
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 132 background values. 67.42% NDs. Annual per-constituent alpha = 0.002493. Individual comparison alpha = 0.0001135 (1 of 2). Comparing 11 points to limit.

Constituent: Boron Analysis Run 12/3/2018 11:26 AM View: Cells3&4_AppIII_interwell
Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

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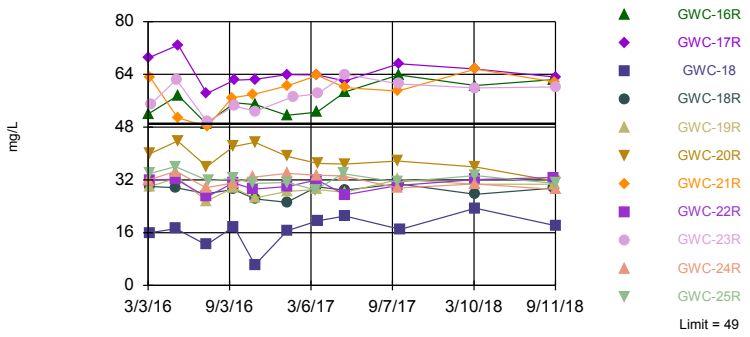
Exceeds Limit: GWC-16R, GWC-17R, GWC-21R, GWC-23R

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 132 background values. Annual per-constituent alpha = 0.002493. Individual comparison alpha = 0.0001135 (1 of 2). Comparing 11 points to limit.

Constituent: Calcium Analysis Run 12/3/2018 11:26 AM View: Cells3&4_AppIII_interwell
Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

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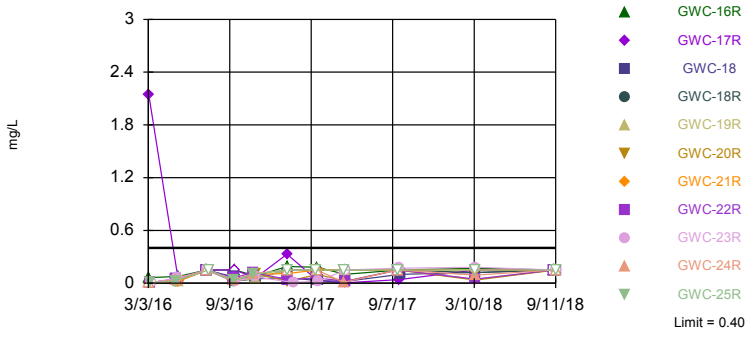
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 132 background values. 43.18% NDs. Annual per-constituent alpha = 0.002493. Individual comparison alpha = 0.0001135 (1 of 2). Comparing 11 points to limit.

Constituent: Fluoride Analysis Run 12/3/2018 11:27 AM View: Cells3&4_AppIII_interwell
Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 12/3/2018 11:47 AM View: Cells3&4_AppIII_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-52 (bg)	GWA-37 (bg)	GWA-36R (bg)	GWA-36 (bg)	GWA-53R (bg)	GWA-38 (bg)	GWA-54 (bg)	GWA-55 (bg)	GWA-53 (bg)
2/29/2016	<0.1								
3/1/2016		<0.1	<0.1	<0.1					
3/2/2016					<0.1	<0.1	<0.1	<0.1	<0.1
3/3/2016									
3/4/2016									
3/7/2016									
3/8/2016									
3/9/2016									
5/2/2016			<0.1	<0.1					
5/3/2016		<0.1			<0.1	<0.1		<0.1	<0.1
5/4/2016	<0.1						<0.1		
5/5/2016									
5/6/2016									
5/9/2016									
5/10/2016									
7/6/2016			0.0059 (J)						
7/7/2016				0.0081 (J)		<0.1			
7/8/2016	0.009 (J)	0.0067 (J)					0.0046 (J)		<0.1
7/11/2016					<0.1			0.0054 (J)	
7/12/2016									
7/13/2016									
7/14/2016									
7/15/2016									
7/18/2016									
9/7/2016		0.0084 (J)	<0.1	<0.1	<0.1				
9/8/2016	<0.1					<0.1	0.0081 (J)		<0.1
9/9/2016								<0.1	
9/12/2016									
9/13/2016									
9/14/2016									
9/15/2016									
10/25/2016		0.0089 (J)	0.0077 (J)	0.0071 (J)		<0.1			
10/26/2016	0.0077 (J)						0.0088 (J)	0.0144 (J)	0.0095 (J)
10/27/2016					0.0148 (J)				
10/31/2016									
11/1/2016									
11/2/2016									
1/5/2017			0.0074 (J)	<0.04					
1/6/2017	0.0084 (J)	<0.04			<0.04				
1/9/2017							<0.04	<0.04	<0.04
1/11/2017									
1/12/2017									
1/13/2017									
1/25/2017									
2/9/2017						<0.04			
3/14/2017		<0.04	0.0062 (J)						
3/15/2017	<0.04			<0.04			<0.04		
3/16/2017					<0.04			<0.04	<0.04
3/20/2017									
3/21/2017									
3/22/2017									
3/23/2017						<0.04			

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 12/3/2018 11:47 AM View: Cells3&4_AppIII_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-52 (bg)	GWA-37 (bg)	GWA-36R (bg)	GWA-36 (bg)	GWA-53R (bg)	GWA-38 (bg)	GWA-54 (bg)	GWA-55 (bg)	GWA-53 (bg)
5/16/2017		<0.04	<0.04						
5/17/2017	<0.04			<0.04		<0.04			
5/18/2017							<0.04	<0.04	
5/19/2017					<0.04				<0.04
5/22/2017									
5/23/2017									
5/24/2017									
7/19/2017									
9/15/2017	<0.04	<0.04	<0.04	<0.04			<0.04	<0.04	
9/18/2017									
9/19/2017					<0.04	<0.04			<0.04
9/20/2017									
9/21/2017									
9/22/2017									
9/25/2017									
3/12/2018		0.004 (J)	0.0082 (J)	<0.04				0.0055 (J)	
3/13/2018	0.0084 (J)				<0.04	<0.04	0.0053 (J)		<0.04
3/14/2018									
9/6/2018	<0.04	<0.04	<0.04	<0.04		<0.04	<0.04		
9/7/2018								<0.04	
9/10/2018									
9/11/2018					<0.04				<0.04

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 12/3/2018 11:47 AM View: Cells3&4_AppIII_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-55R (bg)	GWA-56 (bg)	GWC-16R	GWC-17R	GWC-24R	GWC-22R	GWC-18	GWC-19R	GWC-18R
2/29/2016									
3/1/2016									
3/2/2016									
3/3/2016	<0.1	<0.003	<0.1 (D)						
3/4/2016				<0.003	<0.003				
3/7/2016						<0.003	<0.003	<0.003	<0.003
3/8/2016									
3/9/2016									
5/2/2016									
5/3/2016	<0.1								
5/4/2016									
5/5/2016					<0.1	<0.1	<0.1		<0.1
5/6/2016									
5/9/2016		<0.1						<0.1	
5/10/2016			<0.1	<0.1					
7/6/2016									
7/7/2016									
7/8/2016									
7/11/2016	0.0047 (J)	0.0128 (J)							
7/12/2016					0.005 (J)				
7/13/2016			0.0297 (J)				0.0047 (J)		0.0159 (J)
7/14/2016				0.0069 (J)		0.0047 (J)		0.0045 (J)	
7/15/2016									
7/18/2016									
9/7/2016									
9/8/2016									
9/9/2016	<0.1	0.0158 (J)							
9/12/2016						<0.1		<0.1	<0.1
9/13/2016					<0.1		<0.1		
9/14/2016				<0.1					
9/15/2016			<0.1						
10/25/2016									
10/26/2016		0.0257 (J)							
10/27/2016	0.0108 (J)				0.0093 (J)	0.0153 (J)			
10/31/2016							0.0111 (J)	0.0086 (J)	
11/1/2016				<0.1					<0.1
11/2/2016			<0.1						
1/5/2017									
1/6/2017									
1/9/2017	<0.04	0.0219 (J)							
1/11/2017			<0.04	0.0078 (J)				<0.04	<0.04
1/12/2017							<0.04		
1/13/2017					<0.04	<0.04			
1/25/2017									
2/9/2017									
3/14/2017									
3/15/2017		0.0253 (J)							
3/16/2017	<0.04								
3/20/2017			0.0092 (J)		<0.04	<0.04			<0.04
3/21/2017				<0.04				<0.04	
3/22/2017									
3/23/2017							<0.04		

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 12/3/2018 11:47 AM View: Cells3&4_AppIII_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-55R (bg)	GWA-56 (bg)	GWC-16R	GWC-17R	GWC-24R	GWC-22R	GWC-18	GWC-19R	GWC-18R
5/16/2017									
5/17/2017									
5/18/2017	<0.04	0.0249 (J)							
5/19/2017					<0.04				
5/22/2017								<0.04 (*)	0.0452
5/23/2017			<0.04 (*)	<0.04		<0.04	<0.04		
5/24/2017									
7/19/2017									
9/15/2017		<0.04 (*)							
9/18/2017	<0.04								
9/19/2017					<0.04	<0.04			
9/20/2017								<0.04 (*)	
9/21/2017			<0.04						<0.04
9/22/2017				<0.04					
9/25/2017							<0.04		
3/12/2018	0.0041 (J)								
3/13/2018		0.024 (J)			0.0042 (J)	<0.04			
3/14/2018			0.0065 (J)	0.0051 (J)			<0.04	0.0076 (J)	<0.04
9/6/2018									
9/7/2018	<0.04	0.024 (J)	<0.04			<0.04			<0.04
9/10/2018								<0.04	
9/11/2018				<0.04	<0.04		<0.04		

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 12/3/2018 11:47 AM View: Cells3&4_AppIII_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-25R	GWC-20R	GWC-21R	GWC-23R	GWA-51R_51RZ ...
2/29/2016					
3/1/2016					
3/2/2016					
3/3/2016					
3/4/2016					
3/7/2016					
3/8/2016	<0.003	<0.003	<0.003		
3/9/2016				<0.003	
5/2/2016					
5/3/2016					
5/4/2016	<0.1				<0.1 (D)
5/5/2016					
5/6/2016				0.0271 (J)	
5/9/2016		<0.1	<0.1		
5/10/2016					
7/6/2016					
7/7/2016					0.0096 (JD)
7/8/2016					
7/11/2016					
7/12/2016					
7/13/2016					
7/14/2016		<0.1			
7/15/2016			<0.1	0.0055 (J)	
7/18/2016	<0.1				
9/7/2016					
9/8/2016					0.0137 (JD)
9/9/2016			<0.1		
9/12/2016		<0.1			
9/13/2016	<0.1				
9/14/2016				0.0094 (J)	
9/15/2016					
10/25/2016					
10/26/2016					0.0247 (JD)
10/27/2016	0.0162 (J)		0.0103 (J)		
10/31/2016		0.007 (J)			
11/1/2016				0.008 (J)	
11/2/2016					
1/5/2017					
1/6/2017					0.0082 (JD)
1/9/2017					
1/11/2017					
1/12/2017		<0.04	<0.04		
1/13/2017	<0.04				
1/25/2017				<0.04	
2/9/2017					
3/14/2017					
3/15/2017					<0.04 (D)
3/16/2017	<0.04				
3/20/2017					
3/21/2017			<0.04		
3/22/2017		<0.04		<0.04	
3/23/2017					

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 12/3/2018 11:47 AM View: Cells3&4_AppIII_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-25R	GWC-20R	GWC-21R	GWC-23R	GWA-51R_51RZ ...
5/16/2017					
5/17/2017					
5/18/2017					0.0076 (JD)
5/19/2017	<0.04				
5/22/2017		<0.04 (*)			
5/23/2017			<0.04 (*)		
5/24/2017				0.0133 (J)	
7/19/2017					0.0193 (JD)
9/15/2017					
9/18/2017					
9/19/2017	<0.04	<0.04	<0.04		0.0132 (JD)
9/20/2017					
9/21/2017				<0.04 (*)	
9/22/2017					
9/25/2017					
3/12/2018					
3/13/2018	<0.04				0.013 (J)
3/14/2018		<0.04	0.0053 (J)	0.0056 (J)	
9/6/2018					
9/7/2018					<0.04
9/10/2018		<0.04	<0.04		
9/11/2018	<0.04			<0.04	

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 12/3/2018 11:47 AM View: Cells3&4_AppIII_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-52 (bg)	GWA-37 (bg)	GWA-36R (bg)	GWA-36 (bg)	GWA-53R (bg)	GWA-38 (bg)	GWA-54 (bg)	GWA-55 (bg)	GWA-53 (bg)
2/29/2016	30								
3/1/2016		0.98	32	20					
3/2/2016					29	2	27	38	29
3/3/2016									
3/4/2016									
3/7/2016									
3/8/2016									
3/9/2016									
5/2/2016			30	19.6					
5/3/2016		1.12			31	2.68		48.7	31.2
5/4/2016	30						27.6		
5/5/2016									
5/6/2016									
5/9/2016									
5/10/2016									
7/6/2016			29.2						
7/7/2016				19.3		2.21			
7/8/2016	30.1	1					25.7		30
7/11/2016					28.2			34.8	
7/12/2016									
7/13/2016									
7/14/2016									
7/15/2016									
7/18/2016									
9/7/2016		0.858	28.4	19.9	27.6				
9/8/2016	26.8					1.8	26.3		28.6
9/9/2016								32.1	
9/12/2016									
9/13/2016									
9/14/2016									
9/15/2016									
10/25/2016		0.859	30.8	19.3		1.15			
10/26/2016	26.9						24	32.9	25.5
10/27/2016					26.5				
10/31/2016									
11/1/2016									
11/2/2016									
1/5/2017			32.6	21					
1/6/2017	27.6	1			26				
1/9/2017							24.1	32.5	26.1
1/11/2017									
1/12/2017									
1/13/2017									
1/25/2017									
2/9/2017						0.495 (J)			
3/14/2017		0.844	29.1						
3/15/2017	26.2			13.4			24.1		
3/16/2017					26.6			30.8	26.7
3/20/2017									
3/21/2017									
3/22/2017									
3/23/2017						0.543			

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 12/3/2018 11:47 AM View: Cells3&4_AppIII_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-52 (bg)	GWA-37 (bg)	GWA-36R (bg)	GWA-36 (bg)	GWA-53R (bg)	GWA-38 (bg)	GWA-54 (bg)	GWA-55 (bg)	GWA-53 (bg)
5/16/2017		0.922	28.5						
5/17/2017	27.6			16.8		0.889			
5/18/2017							26.7	37.2	
5/19/2017					30.9				29.2
5/22/2017									
5/23/2017									
5/24/2017									
7/19/2017									
9/15/2017	27.7	0.85	29.1	13.9			25.1	38.5	
9/18/2017									
9/19/2017					28.5	1.28			26.9
9/20/2017									
9/21/2017									
9/22/2017									
9/25/2017									
3/12/2018		0.81	30.6	11.8 (J)				39.6	
3/13/2018	26.2				29.3	1.4	24.3 (J)		28.6
3/14/2018									
9/6/2018	27.9	0.79	26.1	13.5 (J)		1.6	25.6		
9/7/2018								45.2	
9/10/2018									
9/11/2018					26.3				27.3

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 12/3/2018 11:47 AM View: Cells3&4_AppIII_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-55R (bg)	GWA-56 (bg)	GWC-16R	GWC-17R	GWC-24R	GWC-22R	GWC-18	GWC-19R	GWC-18R
2/29/2016									
3/1/2016									
3/2/2016									
3/3/2016	36	36	52 (D)						
3/4/2016				69	32				
3/7/2016						32	16	30	30
3/8/2016									
3/9/2016									
5/2/2016									
5/3/2016	39.1								
5/4/2016									
5/5/2016					34.6	32.2	17.2		29.6
5/6/2016									
5/9/2016		39						32.6	
5/10/2016			57.6	72.9					
7/6/2016									
7/7/2016									
7/8/2016									
7/11/2016	31.6	35.7							
7/12/2016					29.6				
7/13/2016			49				12.3		27.8
7/14/2016				58.2		26.8		25.6	
7/15/2016									
7/18/2016									
9/7/2016									
9/8/2016									
9/9/2016	29.8	32							
9/12/2016						31.1		29.6	29.1
9/13/2016					31.1		17.8		
9/14/2016				62.2					
9/15/2016			55.4						
10/25/2016									
10/26/2016		28.5							
10/27/2016	28.9				32.8	29.2			
10/31/2016							6.22	26.5	
11/1/2016				62.5					26.2
11/2/2016			54.8						
1/5/2017									
1/6/2017									
1/9/2017	27.9	27.5							
1/11/2017			51.6	63.9				28.5	25.2
1/12/2017							16.6		
1/13/2017					34	30			
1/25/2017									
2/9/2017									
3/14/2017									
3/15/2017		24.8							
3/16/2017	28.2								
3/20/2017			52.5		33.4	32			29.9
3/21/2017				63.8				29.1	
3/22/2017									
3/23/2017							19.6		

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 12/3/2018 11:47 AM View: Cells3&4_AppIII_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-55R (bg)	GWA-56 (bg)	GWC-16R	GWC-17R	GWC-24R	GWC-22R	GWC-18	GWC-19R	GWC-18R
5/16/2017									
5/17/2017									
5/18/2017	31.3	26.9							
5/19/2017					33.2				
5/22/2017								28.2	28.9
5/23/2017			58.7	62		27.5	21		
5/24/2017									
7/19/2017									
9/15/2017		19.6							
9/18/2017	29.7								
9/19/2017					29.5	30.3			
9/20/2017								32.1	
9/21/2017			63.8						30.8
9/22/2017				67.2					
9/25/2017							17		
3/12/2018	38.2								
3/13/2018		26			30.8	32.1			
3/14/2018			60.6	65.6			23.4 (J)	30.7	27.6
9/6/2018									
9/7/2018	40.3	25.1	62.4			32.7			29.5
9/10/2018								30.7	
9/11/2018				63.2	29.1		18.1 (J)		

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 12/3/2018 11:47 AM View: Cells3&4_AppIII_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-25R	GWC-20R	GWC-21R	GWC-23R	GWA-51R_51RZ ...
2/29/2016					
3/1/2016					
3/2/2016					
3/3/2016					
3/4/2016					
3/7/2016					
3/8/2016	34	40	63		
3/9/2016				55	
5/2/2016					
5/3/2016					
5/4/2016	36				43.4 (D)
5/5/2016					
5/6/2016				62.4	
5/9/2016		43.8	50.8		
5/10/2016					
7/6/2016					
7/7/2016					40.1 (D)
7/8/2016					
7/11/2016					
7/12/2016					
7/13/2016					
7/14/2016		36			
7/15/2016			48.2	49.5	
7/18/2016	31.7				
9/7/2016					
9/8/2016					37.1 (D)
9/9/2016			56.9		
9/12/2016		42.1			
9/13/2016	32.5				
9/14/2016				54.4	
9/15/2016					
10/25/2016					
10/26/2016					38.8 (D)
10/27/2016	30.9		57.9		
10/31/2016		43.4			
11/1/2016				52.8	
11/2/2016					
1/5/2017					
1/6/2017					39.6 (D)
1/9/2017					
1/11/2017					
1/12/2017		39.1	60.5		
1/13/2017	31.2				
1/25/2017				57.2	
2/9/2017					
3/14/2017					
3/15/2017					36.1 (D)
3/16/2017	29				
3/20/2017					
3/21/2017			63.7		
3/22/2017		37		58.1	
3/23/2017					

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 12/3/2018 11:47 AM View: Cells3&4_AppIII_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-25R	GWC-20R	GWC-21R	GWC-23R	GWA-51R_51RZ ...
5/16/2017					
5/17/2017					
5/18/2017					40.1 (D)
5/19/2017	33.9				
5/22/2017		36.8			
5/23/2017			60		
5/24/2017				64	
7/19/2017					46.9 (D)
9/15/2017					
9/18/2017					
9/19/2017	31.3	37.7	58.9		47.7 (D)
9/20/2017					
9/21/2017				61.1	
9/22/2017					
9/25/2017					
3/12/2018					
3/13/2018	33.3				46.1 (D)
3/14/2018		35.9	65.6	59.9	
9/6/2018					
9/7/2018					44.2
9/10/2018		31.6	61.7		
9/11/2018	30.9			60.2	

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 12/3/2018 11:47 AM View: Cells3&4_AppIII_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-52 (bg)	GWA-37 (bg)	GWA-36R (bg)	GWA-36 (bg)	GWA-53R (bg)	GWA-38 (bg)	GWA-54 (bg)	GWA-55 (bg)	GWA-53 (bg)
2/29/2016	0.0375 (J)								
3/1/2016		0.0215 (J)	0.0172 (J)	0.0153 (J)					
3/2/2016					0.0238 (J)	0.0121 (J)	0.0427 (J)	0.0293 (J)	0.0202 (J)
3/3/2016									
3/4/2016									
3/7/2016									
3/8/2016									
3/9/2016									
5/2/2016			0.018 (J)	0.018 (J)					
5/3/2016		0.023 (J)			0.027 (J)	0.013 (J)		0.049 (J)	0.025 (J)
5/4/2016	0.04 (J)						0.048 (J)		
5/5/2016									
5/6/2016									
5/9/2016									
5/10/2016									
7/6/2016			0.02 (J)						
7/7/2016				<0.3		<0.3			
7/8/2016	0.11 (J)	0.02 (J)					0.12 (J)		0.09 (J)
7/11/2016					<0.3 (*)			<0.3 (*)	
7/12/2016									
7/13/2016									
7/14/2016									
7/15/2016									
7/18/2016									
9/7/2016		<0.3	<0.3	<0.3	<0.3				
9/8/2016	<0.3					<0.3	<0.3		<0.3
9/9/2016								0.05 (J)	
9/12/2016									
9/13/2016									
9/14/2016									
9/15/2016									
10/25/2016		0.04 (J)	0.03 (J)	<0.3		0.03 (J)			
10/26/2016	0.04 (J)						0.11 (J)	0.08 (J)	0.04 (J)
10/27/2016					0.1 (J)				
10/31/2016									
11/1/2016									
11/2/2016									
1/5/2017			0.03 (J)	<0.3					
1/6/2017	0.04 (J)	<0.3			0.02 (J)				
1/9/2017							0.04 (J)	0.05 (J)	0.02 (J)
1/11/2017									
1/12/2017									
1/13/2017									
1/25/2017									
2/9/2017						<0.3			
3/14/2017		<0.3	<0.3						
3/15/2017	<0.3			<0.3			0.009 (J)		
3/16/2017					0.04 (J)			0.07 (J)	<0.3
3/20/2017									
3/21/2017									
3/22/2017									
3/23/2017						<0.3			

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 12/3/2018 11:47 AM View: Cells3&4_AppIII_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-52 (bg)	GWA-37 (bg)	GWA-36R (bg)	GWA-36 (bg)	GWA-53R (bg)	GWA-38 (bg)	GWA-54 (bg)	GWA-55 (bg)	GWA-53 (bg)
5/16/2017		<0.3	<0.3						
5/17/2017	0.01 (J)			<0.3		<0.3			
5/18/2017							0.02 (J)	<0.3	
5/19/2017					0.004 (J)				<0.3
5/22/2017									
5/23/2017									
5/24/2017									
7/19/2017									
9/15/2017	<0.3	<0.3	<0.3	<0.3			0.03 (J)	<0.3	
9/18/2017									
9/19/2017					<0.3	<0.3			<0.3
9/20/2017									
9/21/2017									
9/22/2017									
9/25/2017									
3/12/2018		<0.3	<0.3	<0.3				<0.3	
3/13/2018	0.084 (J)				0.032 (J)	<0.3	0.054 (J)		<0.3
3/14/2018									
9/6/2018	<0.3	<0.3	<0.3	<0.3		<0.3	<0.3		
9/7/2018								<0.3	
9/10/2018									
9/11/2018					<0.3				<0.3

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 12/3/2018 11:47 AM View: Cells3&4_AppIII_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-55R (bg)	GWA-56 (bg)	GWC-16R	GWC-17R	GWC-24R	GWC-22R	GWC-18	GWC-19R	GWC-18R
2/29/2016									
3/1/2016									
3/2/2016									
3/3/2016	0.0392 (J)	0.1143 (J)	0.06259 (JD)						
3/4/2016				2.1421 (J)	<0.005				
3/7/2016						0.00526 (J)	0.00623 (J)	<0.01	0.00232 (J)
3/8/2016									
3/9/2016									
5/2/2016									
5/3/2016	0.058 (J)								
5/4/2016									
5/5/2016					0.039 (J)	0.049 (J)	0.045 (J)		0.025 (J)
5/6/2016									
5/9/2016		0.0383 (J)						0.0246 (J)	
5/10/2016			0.0767 (J)	0.0258 (J)					
7/6/2016									
7/7/2016									
7/8/2016									
7/11/2016	<0.3 (*)	<0.3 (*)							
7/12/2016					<0.3 (*)				
7/13/2016			<0.3				<0.3 (*)		<0.3
7/14/2016				<0.3		<0.3		<0.3	
7/15/2016									
7/18/2016									
9/7/2016									
9/8/2016									
9/9/2016	0.02 (J)	0.1 (J)							
9/12/2016						0.06 (J)		0.03 (J)	0.02 (J)
9/13/2016					0.04 (J)		0.07 (J)		
9/14/2016				<0.3					
9/15/2016			<0.3						
10/25/2016									
10/26/2016		0.2 (J)							
10/27/2016	0.12 (J)				0.11 (J)	0.12 (J)			
10/31/2016							0.05 (J)	0.05 (J)	
11/1/2016				0.06 (J)					0.05 (J)
11/2/2016			0.08 (J)						
1/5/2017									
1/6/2017									
1/9/2017	0.06 (J)	0.26 (J)							
1/11/2017			0.19 (J)	0.33				<0.3	<0.3
1/12/2017							0.06 (J)		
1/13/2017					<0.3	0.04 (J)			
1/25/2017									
2/9/2017									
3/14/2017									
3/15/2017		0.19 (J)							
3/16/2017	0.08 (J)								
3/20/2017			0.18 (J)		<0.3	0.06 (J)			<0.3
3/21/2017				0.03 (J)				<0.3	
3/22/2017									
3/23/2017							0.03 (J)		

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 12/3/2018 11:47 AM View: Cells3&4_AppIII_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-55R (bg)	GWA-56 (bg)	GWC-16R	GWC-17R	GWC-24R	GWC-22R	GWC-18	GWC-19R	GWC-18R
5/16/2017									
5/17/2017									
5/18/2017	0.04 (J)	0.19 (J)							
5/19/2017					0.01 (J)				
5/22/2017								<0.3	<0.3
5/23/2017			0.1 (J)	0.004 (J)		0.02 (J)	0.02 (J)		
5/24/2017									
7/19/2017									
9/15/2017		0.24 (J)							
9/18/2017	<0.3								
9/19/2017					<0.3	<0.3			
9/20/2017								<0.3	
9/21/2017			<0.3						<0.3
9/22/2017				0.04 (J)					
9/25/2017							0.1 (J)		
3/12/2018	<0.3								
3/13/2018		0.4			0.091 (J)	0.046 (J)			
3/14/2018			0.17 (J)	<0.3			0.12 (J)	0.045 (J)	0.12 (J)
9/6/2018									
9/7/2018	<0.3	0.14 (J)	<0.3			<0.3			<0.3
9/10/2018								<0.3	
9/11/2018				<0.3	<0.3		<0.3		

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 12/3/2018 11:47 AM View: Cells3&4_AppIII_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-25R	GWC-20R	GWC-21R	GWC-23R	GWA-51R_51RZ ...
2/29/2016					
3/1/2016					
3/2/2016					
3/3/2016					
3/4/2016					
3/7/2016					
3/8/2016	0.00246 (J)	0.00425 (J)	0.00287 (J)		
3/9/2016				<0.01	
5/2/2016					
5/3/2016					
5/4/2016	0.027 (J)				0.057 (JD)
5/5/2016					
5/6/2016				0.056 (J)	
5/9/2016		0.0259 (J)	0.0222 (J)		
5/10/2016					
7/6/2016					
7/7/2016					0.09 (JD)
7/8/2016					
7/11/2016					
7/12/2016					
7/13/2016					
7/14/2016		<0.3			
7/15/2016			<0.3	<0.3	
7/18/2016	<0.3				
9/7/2016					
9/8/2016					0.03 (JD)
9/9/2016			0.03 (J)		
9/12/2016		0.03 (J)			
9/13/2016	0.03 (J)				
9/14/2016				0.02 (J)	
9/15/2016					
10/25/2016					
10/26/2016					0.15 (JD)
10/27/2016	0.1 (J)		0.1 (J)		
10/31/2016		0.11 (J)			
11/1/2016				0.07 (J)	
11/2/2016					
1/5/2017					
1/6/2017					0.11 (JD)
1/9/2017					
1/11/2017					
1/12/2017		0.02 (J)	0.11 (J)		
1/13/2017	<0.3				
1/25/2017				0.01 (J)	
2/9/2017					
3/14/2017					
3/15/2017					0.004 (JD)
3/16/2017	<0.3				
3/20/2017					
3/21/2017			<0.3		
3/22/2017		0.1 (J)		0.02 (J)	
3/23/2017					

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 12/3/2018 11:47 AM View: Cells3&4_AppIII_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-25R	GWC-20R	GWC-21R	GWC-23R	GWA-51R_51RZ ...
5/16/2017					
5/17/2017					
5/18/2017					0.007 (JD)
5/19/2017	<0.3				
5/22/2017		0.02 (J)			
5/23/2017			<0.3		
5/24/2017				<0.3	
7/19/2017					0.12 (JD)
9/15/2017					
9/18/2017					
9/19/2017	<0.3	<0.3	<0.3		0.07 (JD)
9/20/2017					
9/21/2017				0.17 (J)	
9/22/2017					
9/25/2017					
3/12/2018					
3/13/2018	<0.3				0.16 (J)
3/14/2018		0.035 (J)	<0.3	0.18 (J)	
9/6/2018					
9/7/2018					<0.3
9/10/2018		<0.3	<0.3		
9/11/2018	<0.3			<0.3	

Intrawell Prediction Limit

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR Printed 12/4/2018, 9:13 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Chloride (mg/L)	**GWA-55**	**3.4**	**n/a**	**9/7/2018**	**3.8**	**Yes**	**8**	**0**	**No**	**0.000...**	Param 1 of 3
pH (pH units)	**GWC-23R**	**7.7**	**7**	**9/11/2018**	**7.78**	**Yes**	**8**	**0**	**No**	**0.000342**	Param 1 of 3
pH (pH units)	**GWA-51R_51RZ**	**7.7**	**7.4**	**9/7/2018**	**7.36**	**Yes**	**9**	**0**	**No**	**0.000342**	Param 1 of 3
Sulfate (mg/L)	**GWA-51R_51RZ**	**25**	**n/a**	**9/7/2018**	**26.9**	**Yes**	**8**	**0**	**No**	**0.000...**	Param 1 of 3
Total Dissolved Solids (mg/l)	**GWA-55**	**220**	**n/a**	**9/7/2018**	**240**	**Yes**	**8**	**0**	**No**	**0.000...**	Param 1 of 3

Intrawell Prediction Limit

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR Printed 12/4/2018, 9:13 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Chloride (mg/L)	GWA-36	2.8	n/a	9/6/2018	2	No	8	0	No	0.000...	Param 1 of 3
Chloride (mg/L)	GWA-36R	3.6	n/a	9/6/2018	2.7	No	8	0	No	0.000...	Param 1 of 3
Chloride (mg/L)	GWA-37	1.4	n/a	9/6/2018	1	No	8	0	No	0.000...	Param 1 of 3
Chloride (mg/L)	GWA-38	2.8	n/a	9/6/2018	2.7	No	8	0	No	0.000...	Param 1 of 3
Chloride (mg/L)	GWA-52	3	n/a	9/6/2018	1.9	No	8	0	No	0.000...	Param 1 of 3
Chloride (mg/L)	GWA-53	2.7	n/a	9/11/2018	2.4	No	8	0	No	0.000...	Param 1 of 3
Chloride (mg/L)	GWA-53R	3	n/a	9/11/2018	2.4	No	8	0	No	0.000...	Param 1 of 3
Chloride (mg/L)	GWA-54	1.7	n/a	9/6/2018	1.1	No	8	0	No	0.000...	Param 1 of 3
Chloride (mg/L)	**GWA-55**	**3.4**	**n/a**	**9/7/2018**	**3.8**	**Yes**	**8**	**0**	**No**	**0.000...**	Param 1 of 3
Chloride (mg/L)	GWA-55R	3.4	n/a	9/7/2018	3.3	No	8	0	No	0.000...	Param 1 of 3
Chloride (mg/L)	GWA-56	10	n/a	9/7/2018	6.9	No	8	0	No	0.000...	Param 1 of 3
Chloride (mg/L)	GWC-16R	2.6	n/a	9/7/2018	2.1	No	8	0	No	0.000...	Param 1 of 3
Chloride (mg/L)	GWC-17R	7.4	n/a	9/11/2018	6.7	No	8	0	No	0.000...	Param 1 of 3
Chloride (mg/L)	GWC-18	2.4	n/a	9/11/2018	2.3	No	8	0	No	0.000...	Param 1 of 3
Chloride (mg/L)	GWC-18R	2.9	n/a	9/7/2018	2.3	No	8	0	No	0.000...	Param 1 of 3
Chloride (mg/L)	GWC-19R	3	n/a	9/10/2018	2.1	No	8	0	sqrt(x)	0.000...	Param 1 of 3
Chloride (mg/L)	GWC-20R	2.3	n/a	9/10/2018	1.6	No	8	0	No	0.000...	Param 1 of 3
Chloride (mg/L)	GWC-21R	5.1	n/a	9/10/2018	3.9	No	8	0	No	0.000...	Param 1 of 3
Chloride (mg/L)	GWC-22R	3.3	n/a	9/7/2018	2.7	No	8	0	sqrt(x)	0.000...	Param 1 of 3
Chloride (mg/L)	GWC-23R	2.6	n/a	9/11/2018	2.4	No	8	0	No	0.000...	Param 1 of 3
Chloride (mg/L)	GWC-24R	3.1	n/a	9/11/2018	2.3	No	8	0	No	0.000...	Param 1 of 3
Chloride (mg/L)	GWC-25R	3.2	n/a	9/11/2018	2.4	No	8	0	No	0.000...	Param 1 of 3
Chloride (mg/L)	GWA-51R_51RZ	4.1	n/a	9/7/2018	3.3	No	8	0	ln(x)	0.000...	Param 1 of 3
pH (pH units)	GWA-36	7.4	6.7	9/6/2018	6.83	No	8	0	No	0.000342	Param 1 of 3
pH (pH units)	GWA-36R	7.5	7.2	9/6/2018	7.21	No	8	0	No	0.000342	Param 1 of 3
pH (pH units)	GWA-37	5.9	5.0	9/6/2018	5.59	No	8	0	n/a	0.01182	NP (normality) 1 of 3
pH (pH units)	GWA-38	6.1	4.7	9/6/2018	5.69	No	8	0	No	0.000342	Param 1 of 3
pH (pH units)	GWA-52	7.7	7.4	9/6/2018	7.5	No	8	0	No	0.000342	Param 1 of 3
pH (pH units)	GWA-53	8	7.5	9/11/2018	7.64	No	8	0	No	0.000342	Param 1 of 3
pH (pH units)	GWA-53R	7.8	7.6	9/11/2018	7.76	No	8	0	n/a	0.01182	NP (normality) 1 of 3
pH (pH units)	GWA-54	7.9	7.3	9/6/2018	7.66	No	8	0	No	0.000342	Param 1 of 3
pH (pH units)	GWA-55	7.8	6.9	9/7/2018	7.45	No	8	0	No	0.000342	Param 1 of 3
pH (pH units)	GWA-55R	8	7.4	9/7/2018	7.6	No	8	0	No	0.000342	Param 1 of 3
pH (pH units)	GWA-56	8.3	7.6	9/7/2018	8.14	No	8	0	No	0.000342	Param 1 of 3
pH (pH units)	GWC-16R	7.5	6.8	9/7/2018	7.08	No	8	0	No	0.000342	Param 1 of 3
pH (pH units)	GWC-17R	7.3	7.1	9/11/2018	7.13	No	8	0	No	0.000342	Param 1 of 3
pH (pH units)	GWC-18	7.5	5.8	9/11/2018	6.97	No	8	0	No	0.000342	Param 1 of 3
pH (pH units)	GWC-18R	8	7.5	9/7/2018	7.69	No	8	0	No	0.000342	Param 1 of 3
pH (pH units)	GWC-19R	7.9	7.5	9/10/2018	7.69	No	8	0	No	0.000342	Param 1 of 3
pH (pH units)	GWC-20R	7.9	7.3	9/10/2018	7.84	No	8	0	No	0.000342	Param 1 of 3
pH (pH units)	GWC-21R	7.4	6.8	9/10/2018	6.96	No	8	0	No	0.000342	Param 1 of 3
pH (pH units)	GWC-22R	7.9	7.5	9/7/2018	7.53	No	8	0	No	0.000342	Param 1 of 3
pH (pH units)	**GWC-23R**	**7.7**	**7**	**9/11/2018**	**7.78**	**Yes**	**8**	**0**	**No**	**0.000342**	Param 1 of 3
pH (pH units)	GWC-24R	8	6.8	9/11/2018	7.4	No	8	0	No	0.000342	Param 1 of 3
pH (pH units)	GWC-25R	7.8	7.2	9/11/2018	7.69	No	8	0	No	0.000342	Param 1 of 3
pH (pH units)	**GWA-51R_51RZ**	**7.7**	**7.4**	**9/7/2018**	**7.36**	**Yes**	**9**	**0**	**No**	**0.000342**	Param 1 of 3
Sulfate (mg/L)	GWA-36	2.7	n/a	9/6/2018	0.8	No	8	0	No	0.000...	Param 1 of 3
Sulfate (mg/L)	GWA-36R	7.2	n/a	9/6/2018	1.5	No	8	0	No	0.000...	Param 1 of 3
Sulfate (mg/L)	GWA-37	1.1	n/a	9/6/2018	0.37	No	8	0	No	0.000...	Param 1 of 3
Sulfate (mg/L)	GWA-38	3	n/a	9/6/2018	1.4	No	8	0	No	0.000...	Param 1 of 3

Intrawell Prediction Limit

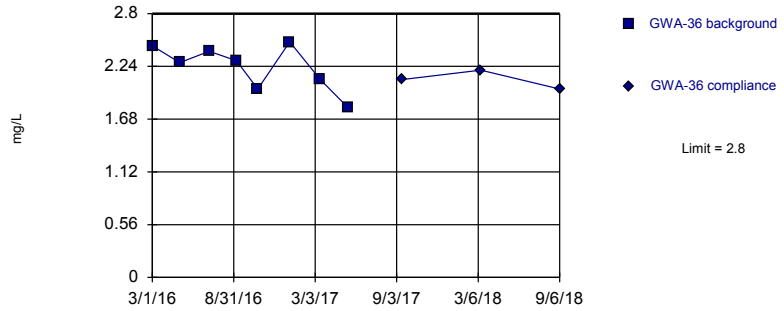
Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR Printed 12/4/2018, 9:13 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Sulfate (mg/L)	GWA-52	8.8	n/a	9/6/2018	7.2	No	8	0	No	0.000...	Param 1 of 3
Sulfate (mg/L)	GWA-53	2.2	n/a	9/11/2018	1.9	No	8	0	No	0.000...	Param 1 of 3
Sulfate (mg/L)	GWA-53R	2.2	n/a	9/11/2018	1.8	No	8	0	No	0.000...	Param 1 of 3
Sulfate (mg/L)	GWA-54	7.7	n/a	9/6/2018	3.5	No	8	0	No	0.000...	Param 1 of 3
Sulfate (mg/L)	GWA-55	44	n/a	9/7/2018	27.4	No	8	0	No	0.000...	Param 1 of 3
Sulfate (mg/L)	GWA-55R	27	n/a	9/7/2018	22.4	No	8	0	No	0.000...	Param 1 of 3
Sulfate (mg/L)	GWA-56	150	n/a	9/7/2018	101	No	8	0	No	0.000...	Param 1 of 3
Sulfate (mg/L)	GWC-16R	13	n/a	9/7/2018	6.5	No	8	0	No	0.000...	Param 1 of 3
Sulfate (mg/L)	GWC-17R	9.3	n/a	9/11/2018	5.8	No	8	0	ln(x)	0.000...	Param 1 of 3
Sulfate (mg/L)	GWC-18	2.5	n/a	9/11/2018	2	No	8	0	No	0.000...	Param 1 of 3
Sulfate (mg/L)	GWC-18R	2.6	n/a	9/7/2018	2.2	No	7	0	No	0.000...	Param 1 of 3
Sulfate (mg/L)	GWC-19R	3.7	n/a	9/10/2018	3.4	No	8	0	No	0.000...	Param 1 of 3
Sulfate (mg/L)	GWC-20R	1.9	n/a	9/10/2018	1.7	No	8	0	x^2	0.000...	Param 1 of 3
Sulfate (mg/L)	GWC-21R	6.3	n/a	9/10/2018	4.8	No	8	0	No	0.000...	Param 1 of 3
Sulfate (mg/L)	GWC-22R	2.6	n/a	9/7/2018	1.8	No	7	0	No	0.000...	Param 1 of 3
Sulfate (mg/L)	GWC-23R	27	n/a	9/11/2018	14.9	No	8	0	No	0.000...	Param 1 of 3
Sulfate (mg/L)	GWC-24R	15	n/a	9/11/2018	1.7	No	8	0	No	0.000...	Param 1 of 3
Sulfate (mg/L)	GWC-25R	2	n/a	9/11/2018	1.7	No	8	0	No	0.000...	Param 1 of 3
Sulfate (mg/L)	**GWA-51R_51RZ**	**25**	**n/a**	**9/7/2018**	**26.9**	**Yes**	**8**	**0**	**No**	**0.000...**	Param 1 of 3
Total Dissolved Solids (mg/l)	GWA-36	160	n/a	9/6/2018	107	No	8	0	No	0.000...	Param 1 of 3
Total Dissolved Solids (mg/l)	GWA-36R	250	n/a	9/6/2018	155	No	8	0	No	0.000...	Param 1 of 3
Total Dissolved Solids (mg/l)	GWA-51R_51RZ	340	n/a	9/7/2018	232	No	8	0	No	0.000...	Param 1 of 3
Total Dissolved Solids (mg/l)	GWA-37	360	n/a	9/6/2018	17ND	No	8	25	x^(1/3)	0.000...	Param 1 of 3
Total Dissolved Solids (mg/l)	GWA-38	120	n/a	9/6/2018	18ND	No	8	50	No	0.000...	Param 1 of 3
Total Dissolved Solids (mg/l)	GWA-52	170	n/a	9/6/2018	160	No	7	0	No	0.000...	Param 1 of 3
Total Dissolved Solids (mg/l)	GWA-53	160	n/a	9/11/2018	140	No	8	0	No	0.000...	Param 1 of 3
Total Dissolved Solids (mg/l)	GWA-53R	190	n/a	9/11/2018	142	No	7	0	No	0.000...	Param 1 of 3
Total Dissolved Solids (mg/l)	GWA-54	190	n/a	9/6/2018	135	No	8	0	No	0.000...	Param 1 of 3
Total Dissolved Solids (mg/l)	**GWA-55**	**220**	**n/a**	**9/7/2018**	**240**	**Yes**	**8**	**0**	**No**	**0.000...**	Param 1 of 3
Total Dissolved Solids (mg/l)	GWA-55R	220	n/a	9/7/2018	202	No	8	0	No	0.000...	Param 1 of 3
Total Dissolved Solids (mg/l)	GWA-56	470	n/a	9/7/2018	377	No	8	0	No	0.000...	Param 1 of 3
Total Dissolved Solids (mg/l)	GWC-16R	340	n/a	9/7/2018	298	No	8	0	No	0.000...	Param 1 of 3
Total Dissolved Solids (mg/l)	GWC-17R	390	n/a	9/11/2018	317	No	8	0	No	0.000...	Param 1 of 3
Total Dissolved Solids (mg/l)	GWC-18	140	n/a	9/11/2018	102	No	8	0	No	0.000...	Param 1 of 3
Total Dissolved Solids (mg/l)	GWC-18R	190	n/a	9/7/2018	149	No	8	0	No	0.000...	Param 1 of 3
Total Dissolved Solids (mg/l)	GWC-19R	240	n/a	9/10/2018	172	No	8	0	No	0.000...	Param 1 of 3
Total Dissolved Solids (mg/l)	GWC-20R	220	n/a	9/10/2018	184	No	7	0	No	0.000...	Param 1 of 3
Total Dissolved Solids (mg/l)	GWC-21R	430	n/a	9/10/2018	328	No	8	0	No	0.000...	Param 1 of 3
Total Dissolved Solids (mg/l)	GWC-22R	200	n/a	9/7/2018	169	No	8	0	No	0.000...	Param 1 of 3
Total Dissolved Solids (mg/l)	GWC-23R	360	n/a	9/11/2018	295	No	8	0	No	0.000...	Param 1 of 3
Total Dissolved Solids (mg/l)	GWC-24R	220	n/a	9/11/2018	152	No	8	0	No	0.000...	Param 1 of 3
Total Dissolved Solids (mg/l)	GWC-25R	200	n/a	9/11/2018	153	No	8	0	No	0.000...	Param 1 of 3

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=2.23, Std. Dev.=0.2438, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9301, critical = 0.749. Kappa = 2.256 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Chloride Analysis Run 12/4/2018 9:03 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

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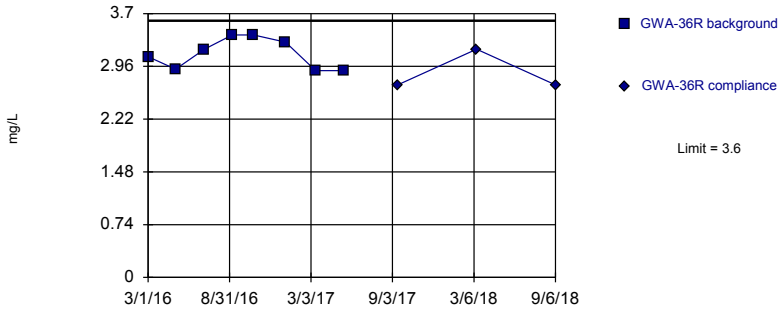
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=3.14, Std. Dev.=0.2171, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8606, critical = 0.749. Kappa = 2.256 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Chloride Analysis Run 12/4/2018 9:03 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

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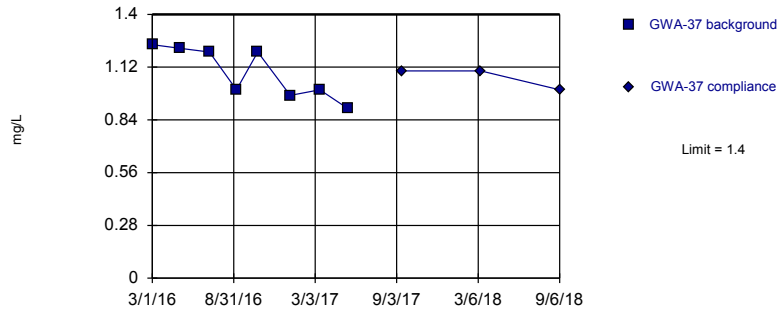
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=1.091, Std. Dev.=0.1363, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8394, critical = 0.749. Kappa = 2.256 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Chloride Analysis Run 12/4/2018 9:03 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

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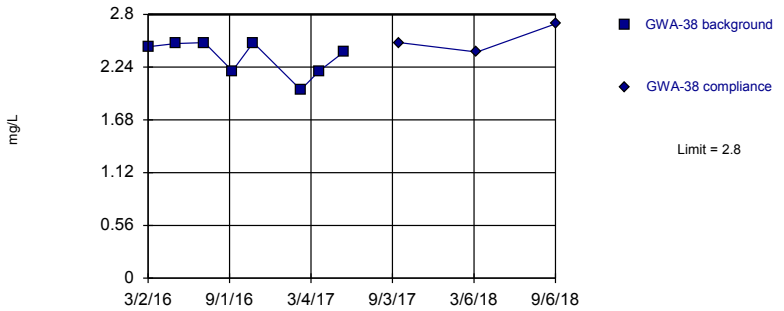
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=2.343, Std. Dev.=0.1873, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8294, critical = 0.749. Kappa = 2.256 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Chloride Analysis Run 12/4/2018 9:03 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Prediction Limit

Constituent: Chloride Analysis Run 12/4/2018 9:13 AM View: Cells3&4_AppIII_intrawell

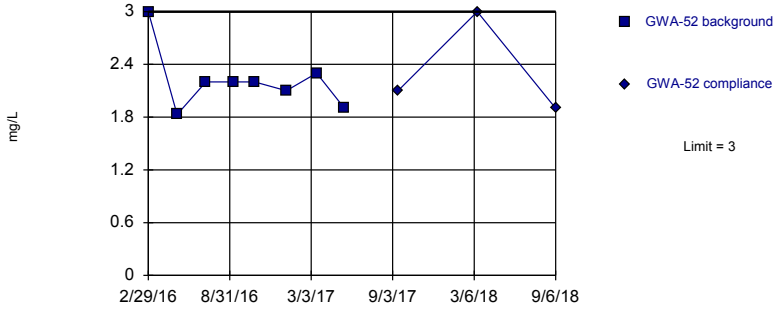
Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-36	GWA-36	GWA-36R	GWA-36R	GWA-37	GWA-37	GWA-38	GWA-38
3/1/2016	2.4587		3.096		1.2389			
3/2/2016							2.4559	
5/2/2016	2.28		2.92					
5/3/2016					1.22		2.49	
7/6/2016			3.2					
7/7/2016	2.4						2.5	
7/8/2016					1.2			
9/7/2016	2.3		3.4		1			
9/8/2016							2.2	
10/25/2016	2		3.4		1.2		2.5	
1/5/2017	2.5 (J)		3.3					
1/6/2017					0.97			
2/9/2017							2	
3/14/2017			2.9		1			
3/15/2017	2.1							
3/23/2017							2.2	
5/16/2017			2.9		0.9			
5/17/2017	1.8						2.4	
9/15/2017		2.1		2.7		1.1		
9/19/2017								2.5
3/12/2018		2.2		3.2		1.1		
3/13/2018								2.4
9/6/2018		2		2.7		1		2.7

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=2.216, Std. Dev.=0.3551, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8209, critical = 0.749. Kappa = 2.256 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

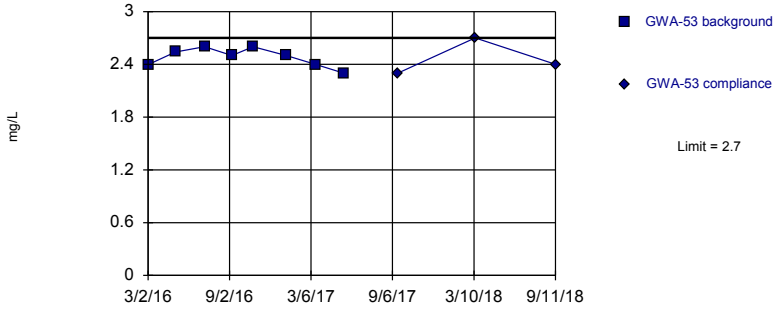
Constituent: Chloride Analysis Run 12/4/2018 9:03 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=2.48, Std. Dev.=0.1061, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9253, critical = 0.749. Kappa = 2.256 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

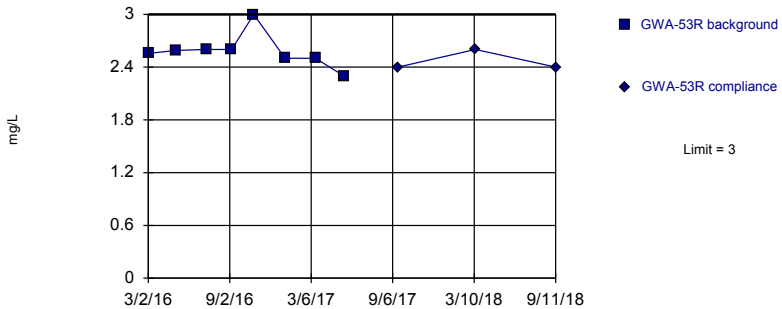
Constituent: Chloride Analysis Run 12/4/2018 9:03 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=2.581, Std. Dev.=0.1961, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8372, critical = 0.749. Kappa = 2.256 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

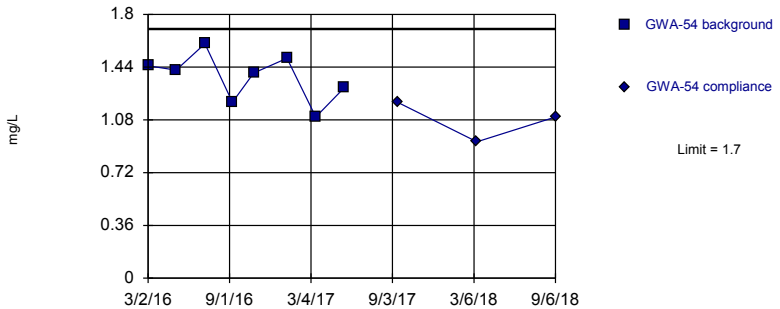
Constituent: Chloride Analysis Run 12/4/2018 9:03 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=1.371, Std. Dev.=0.1631, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9686, critical = 0.749. Kappa = 2.256 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Chloride Analysis Run 12/4/2018 9:03 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Prediction Limit

Constituent: Chloride Analysis Run 12/4/2018 9:13 AM View: Cells3&4_AppIII_intrawell

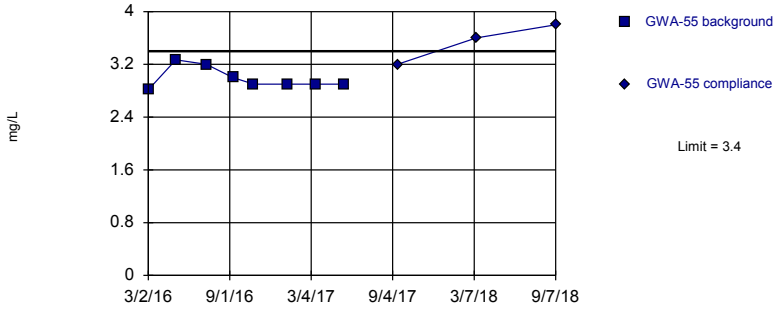
Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-52	GWA-52	GWA-53	GWA-53	GWA-53R	GWA-53R	GWA-54	GWA-54
2/29/2016	2.9988							
3/2/2016			2.3976		2.556		1.4496	
5/3/2016			2.54		2.59			
5/4/2016	1.83						1.42	
7/8/2016	2.2		2.6				1.6	
7/11/2016					2.6			
9/7/2016					2.6			
9/8/2016	2.2		2.5				1.2	
10/26/2016	2.2		2.6				1.4	
10/27/2016					3			
1/6/2017	2.1				2.5			
1/9/2017			2.5				1.5	
3/15/2017	2.3						1.1	
3/16/2017			2.4		2.5			
5/17/2017	1.9							
5/18/2017							1.3	
5/19/2017			2.3		2.3			
9/15/2017		2.1						1.2
9/19/2017				2.3		2.4		
3/13/2018		3		2.7		2.6		0.93
9/6/2018		1.9						1.1
9/11/2018				2.4		2.4		

Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=2.986, Std. Dev.=0.1628, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8105, critical = 0.749. Kappa = 2.256 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

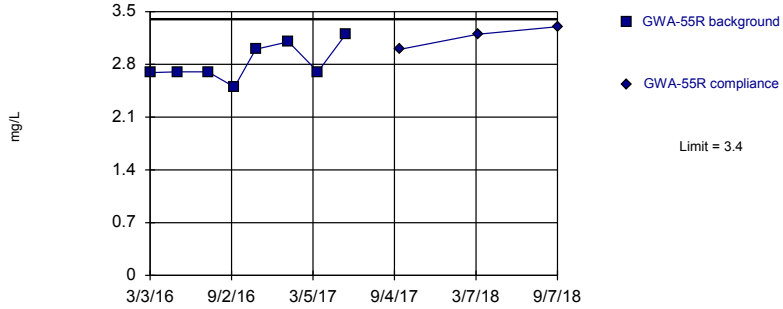
Constituent: Chloride Analysis Run 12/4/2018 9:03 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=2.824, Std. Dev.=0.2442, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.878, critical = 0.749. Kappa = 2.256 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

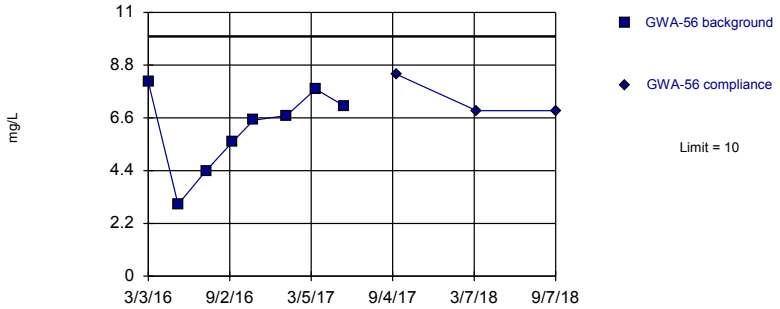
Constituent: Chloride Analysis Run 12/4/2018 9:03 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=6.148, Std. Dev.=1.739, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9296, critical = 0.749. Kappa = 2.256 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

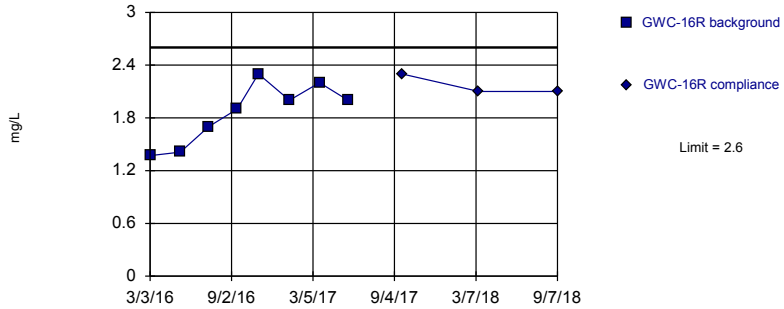
Constituent: Chloride Analysis Run 12/4/2018 9:03 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=1.86, Std. Dev.=0.3417, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9264, critical = 0.749. Kappa = 2.256 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Chloride Analysis Run 12/4/2018 9:03 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Prediction Limit

Constituent: Chloride Analysis Run 12/4/2018 9:13 AM View: Cells3&4_AppIII_intrawell

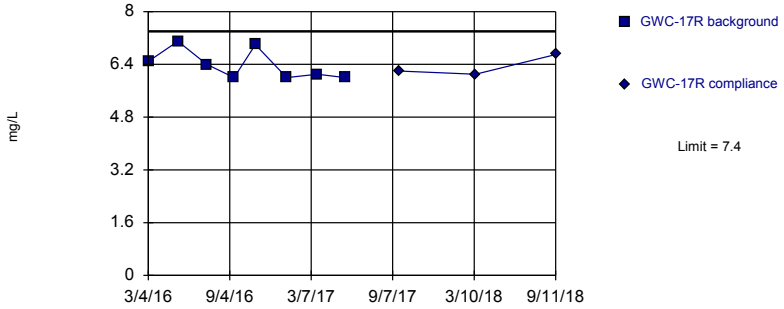
Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-55	GWA-55	GWA-55R	GWA-55R	GWA-56	GWA-56	GWC-16R	GWC-16R
3/2/2016	2.815							
3/3/2016			2.6912		8.0925		1.3707 (D)	
5/3/2016	3.27		2.7					
5/9/2016					2.99			
5/10/2016							1.41	
7/11/2016	3.2		2.7		4.4			
7/13/2016							1.7	
9/9/2016	3		2.5		5.6			
9/15/2016							1.9	
10/26/2016	2.9				6.5			
10/27/2016			3					
11/2/2016							2.3	
1/9/2017	2.9		3.1		6.7			
1/11/2017							2	
3/15/2017					7.8			
3/16/2017	2.9		2.7					
3/20/2017							2.2	
5/18/2017	2.9		3.2		7.1			
5/23/2017							2	
9/15/2017		3.2				8.4		
9/18/2017				3				
9/21/2017								2.3
3/12/2018		3.6		3.2				
3/13/2018						6.9		
3/14/2018								2.1
9/7/2018		3.8		3.3		6.9		2.1

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=6.386, Std. Dev.=0.4515, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8243, critical = 0.749. Kappa = 2.256 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

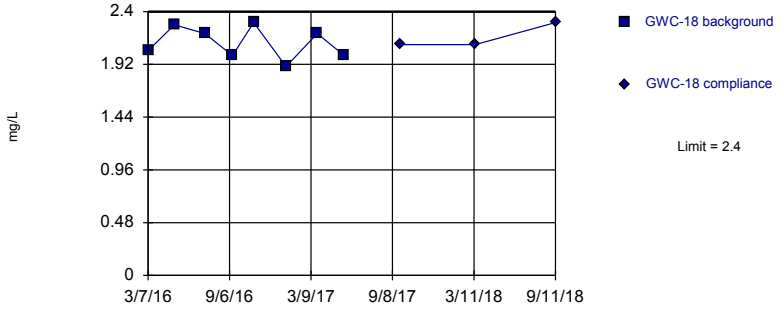
Constituent: Chloride Analysis Run 12/4/2018 9:04 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=2.116, Std. Dev.=0.1481, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9123, critical = 0.749. Kappa = 2.256 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

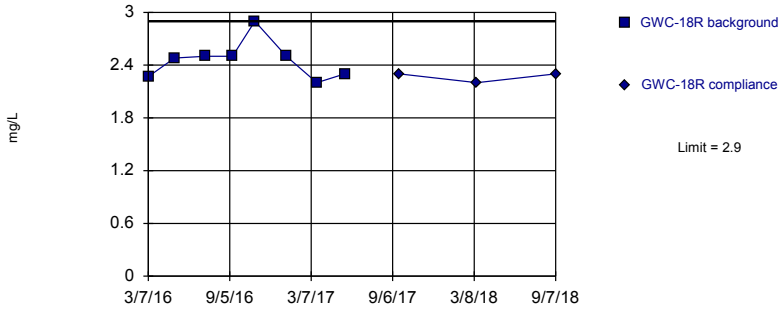
Constituent: Chloride Analysis Run 12/4/2018 9:04 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=2.456, Std. Dev.=0.2165, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8642, critical = 0.749. Kappa = 2.256 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

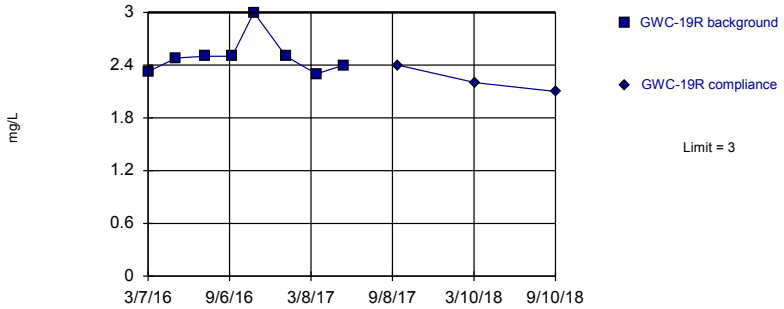
Constituent: Chloride Analysis Run 12/4/2018 9:04 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square root transformation): Mean=1.58, Std. Dev.=0.06671, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7624, critical = 0.749. Kappa = 2.256 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Chloride Analysis Run 12/4/2018 9:04 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Prediction Limit

Constituent: Chloride Analysis Run 12/4/2018 9:13 AM View: Cells3&4_AppIII_intrawell

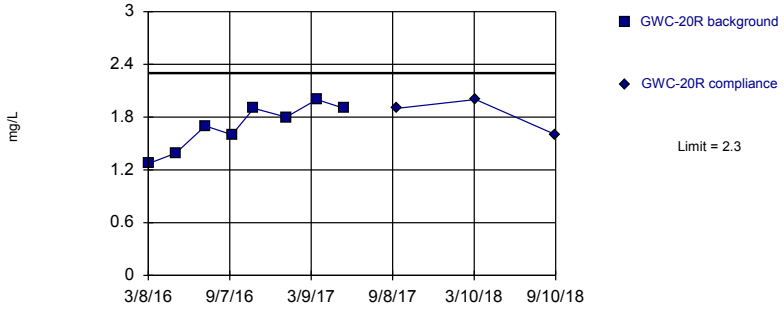
Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-17R	GWC-17R	GWC-18	GWC-18	GWC-18R	GWC-18R	GWC-19R	GWC-19R
3/4/2016	6.4905							
3/7/2016			2.0446		2.2698		2.3254	
5/5/2016			2.28		2.48			
5/9/2016							2.48	
5/10/2016	7.1							
7/13/2016			2.2		2.5			
7/14/2016	6.4						2.5	
9/12/2016					2.5		2.5	
9/13/2016			2					
9/14/2016	6							
10/31/2016			2.3				3	
11/1/2016	7				2.9			
1/11/2017	6				2.5		2.5	
1/12/2017			1.9					
3/20/2017					2.2			
3/21/2017	6.1						2.3	
3/23/2017			2.2					
5/22/2017					2.3		2.4	
5/23/2017	6		2					
9/20/2017								2.4
9/21/2017						2.3		
9/22/2017		6.2						
9/25/2017				2.1				
3/14/2018		6.1		2.1		2.2		2.2
9/7/2018						2.3		
9/10/2018								2.1
9/11/2018		6.7		2.3				

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=1.695, Std. Dev.=0.2594, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9282, critical = 0.749. Kappa = 2.256 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Chloride Analysis Run 12/4/2018 9:04 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

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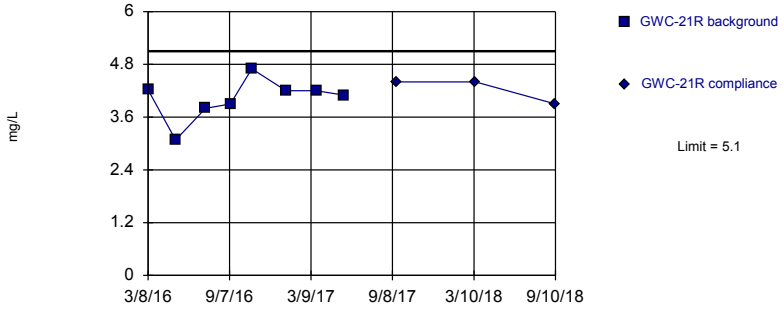
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=4.025, Std. Dev.=0.4659, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9022, critical = 0.749. Kappa = 2.256 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Chloride Analysis Run 12/4/2018 9:04 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

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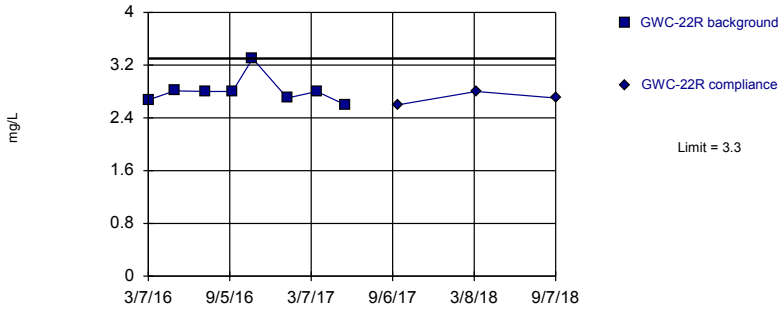
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square root transformation): Mean=1.675, Std. Dev.=0.06163, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7573, critical = 0.749. Kappa = 2.256 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Chloride Analysis Run 12/4/2018 9:04 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

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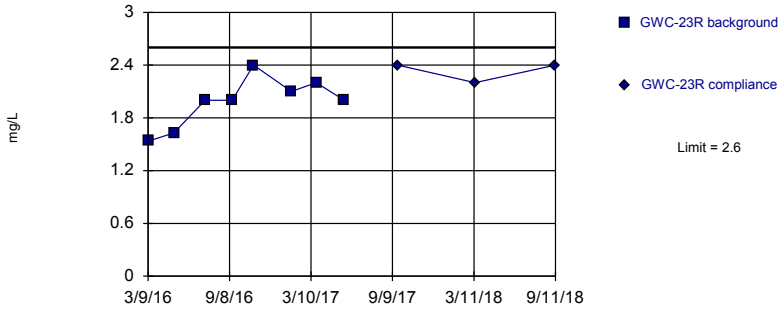
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=1.983, Std. Dev.=0.2831, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9276, critical = 0.749. Kappa = 2.256 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Chloride Analysis Run 12/4/2018 9:04 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Prediction Limit

Constituent: Chloride Analysis Run 12/4/2018 9:13 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-20R	GWC-20R	GWC-21R	GWC-21R	GWC-22R	GWC-22R	GWC-23R	GWC-23R
3/7/2016					2.6729			
3/8/2016	1.2699		4.2184					
3/9/2016							1.5349	
5/5/2016					2.81			
5/6/2016							1.63	
5/9/2016	1.39		3.08					
7/14/2016	1.7				2.8			
7/15/2016			3.8				2	
9/9/2016			3.9					
9/12/2016	1.6				2.8			
9/14/2016							2	
10/27/2016			4.7		3.3			
10/31/2016	1.9							
11/1/2016							2.4	
1/12/2017	1.8		4.2					
1/13/2017					2.7			
1/25/2017							2.1	
3/20/2017					2.8			
3/21/2017			4.2					
3/22/2017	2						2.2	
5/22/2017	1.9							
5/23/2017			4.1		2.6			
5/24/2017							2	
9/19/2017		1.9		4.4		2.6		
9/21/2017								2.4
3/13/2018						2.8		
3/14/2018		2		4.4				2.2
9/7/2018						2.7		
9/10/2018		1.6		3.9				
9/11/2018								2.4

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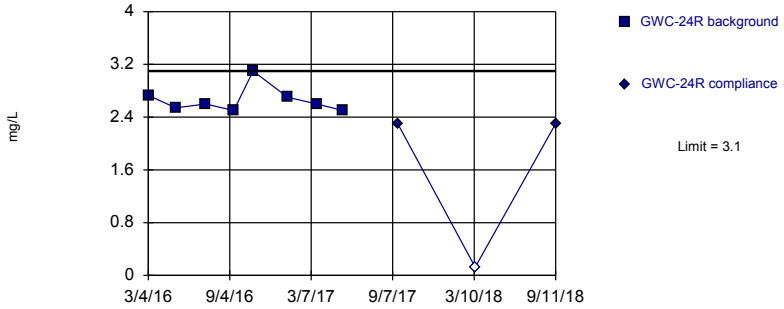
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=2.659, Std. Dev.=0.1974, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7876, critical = 0.749. Kappa = 2.256 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Chloride Analysis Run 12/4/2018 9:04 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

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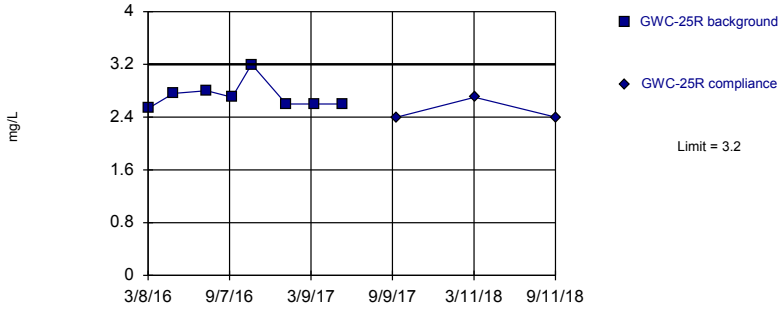
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=2.724, Std. Dev.=0.213, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7927, critical = 0.749. Kappa = 2.256 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Chloride Analysis Run 12/4/2018 9:04 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

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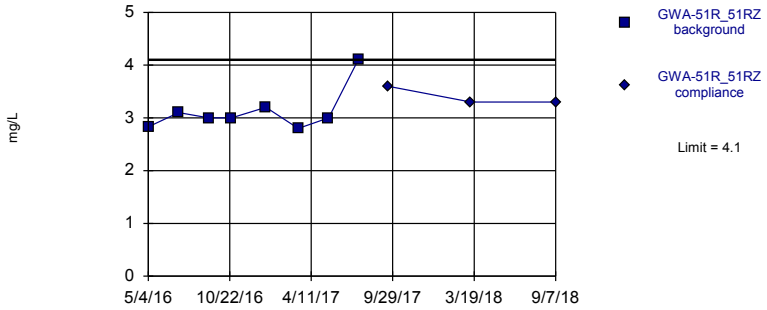
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=1.134, Std. Dev.=0.1201, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7508, critical = 0.749. Kappa = 2.256 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Chloride Analysis Run 12/4/2018 9:04 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

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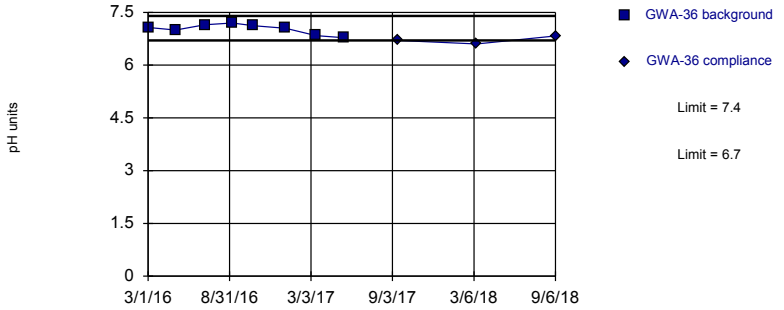
Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=7.026, Std. Dev.=0.1477, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.917, critical = 0.749. Kappa = 2.256 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: pH Analysis Run 12/4/2018 9:04 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Prediction Limit

Constituent: Chloride, pH Analysis Run 12/4/2018 9:13 AM View: Cells3&4_AppIII_intrawell

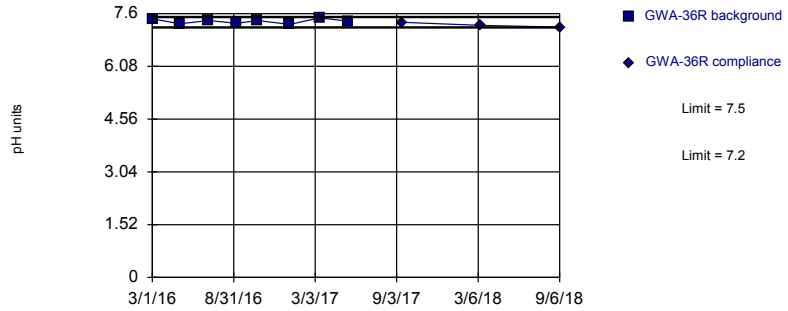
Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-24R	GWC-24R	GWC-25R	GWC-25R	GWA-51R_51RZ	GWA-51R_51RZ	GWA-36	GWA-36
3/1/2016							7.07	
3/4/2016	2.7291							
3/8/2016			2.5307					
5/2/2016							7	
5/4/2016			2.76		2.83 (D)			
5/5/2016	2.54							
7/7/2016					3.1 (D)		7.15	
7/12/2016	2.6							
7/18/2016			2.8					
9/7/2016							7.2	
9/8/2016					3 (D)			
9/13/2016	2.5		2.7					
10/25/2016							7.12	
10/26/2016					3 (D)			
10/27/2016	3.1		3.2					
1/5/2017							7.05	
1/6/2017					3.2 (D)			
1/13/2017	2.7		2.6					
3/15/2017					2.8 (D)		6.84	
3/16/2017			2.6					
3/20/2017	2.6							
5/17/2017							6.78	
5/18/2017					3 (D)			
5/19/2017	2.5		2.6					
7/19/2017					4.1 (D)			
9/15/2017								6.7
9/19/2017		2.3		2.4		3.6 (D)		
3/12/2018								6.6
3/13/2018		<0.25		2.7		3.3		
9/6/2018								6.83
9/7/2018						3.3		
9/11/2018		2.3		2.4				

Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=7.379, Std. Dev.=0.06792, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9415, critical = 0.749. Kappa = 2.256 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

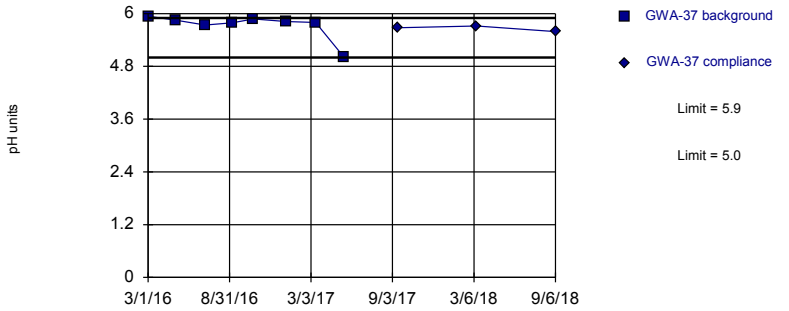
Constituent: pH Analysis Run 12/4/2018 9:04 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Within Limits

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. Limits are highest and lowest of 8 background values. Well-constituent pair annual alpha = 0.02358. Individual comparison alpha = 0.01182 (1 of 3).

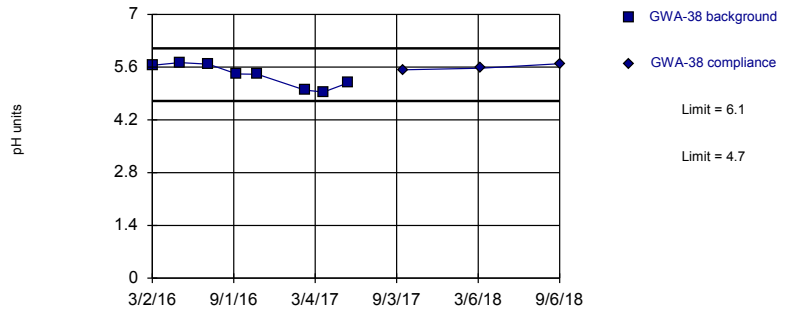
Constituent: pH Analysis Run 12/4/2018 9:04 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=5.374, Std. Dev.=0.3085, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8963, critical = 0.749. Kappa = 2.256 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

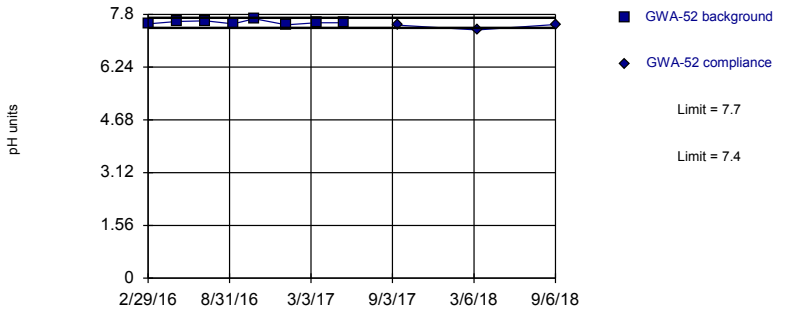
Constituent: pH Analysis Run 12/4/2018 9:04 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=7.563, Std. Dev.=0.05825, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9425, critical = 0.749. Kappa = 2.256 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: pH Analysis Run 12/4/2018 9:04 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Prediction Limit

Constituent: pH Analysis Run 12/4/2018 9:13 AM View: Cells3&4_AppIII_intrawell

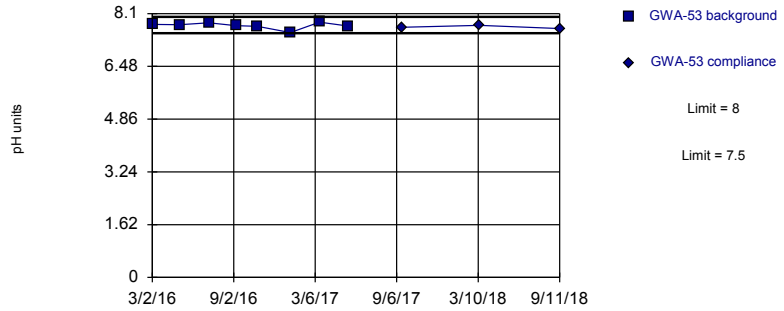
Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-36R	GWA-36R	GWA-37	GWA-37	GWA-38	GWA-38	GWA-52	GWA-52
2/29/2016							7.52	
3/1/2016	7.45		5.94 (D)					
3/2/2016					5.65			
5/2/2016	7.31							
5/3/2016			5.85		5.72			
5/4/2016							7.59	
7/6/2016	7.4							
7/7/2016					5.68			
7/8/2016			5.74				7.61	
9/7/2016	7.32		5.79					
9/8/2016					5.42		7.52	
10/25/2016	7.4		5.88		5.41			
10/26/2016							7.67	
1/5/2017	7.29							
1/6/2017			5.82				7.49	
2/9/2017					4.99			
3/14/2017	7.48		5.8					
3/15/2017							7.55	
3/23/2017					4.94			
5/16/2017	7.38		5.02					
5/17/2017					5.18		7.55	
9/15/2017		7.35		5.68				7.48
9/19/2017						5.53		
3/12/2018		7.26		5.72				
3/13/2018						5.57		7.34
9/6/2018		7.21		5.59		5.69		7.5

Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=7.734, Std. Dev.=0.09797, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8492, critical = 0.749. Kappa = 2.256 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

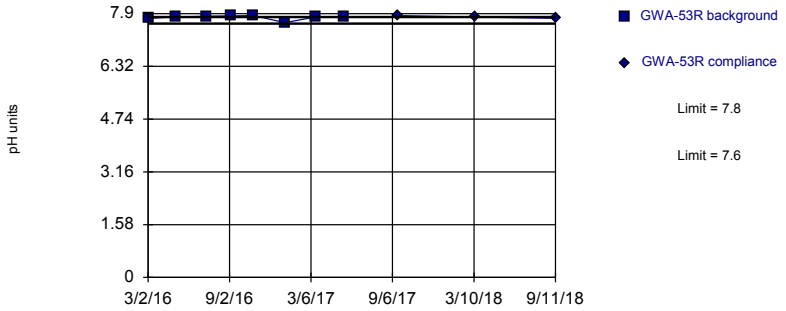
Constituent: pH Analysis Run 12/4/2018 9:04 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Within Limits

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. Limits are highest and lowest of 8 background values. Well-constituent pair annual alpha = 0.02358. Individual comparison alpha = 0.01182 (1 of 3).

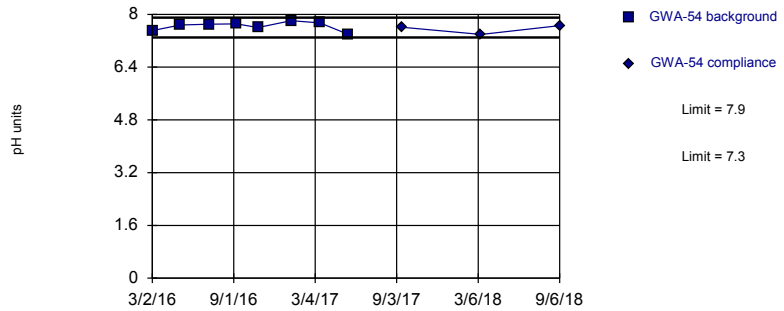
Constituent: pH Analysis Run 12/4/2018 9:04 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=7.643, Std. Dev.=0.1363, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9279, critical = 0.749. Kappa = 2.256 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

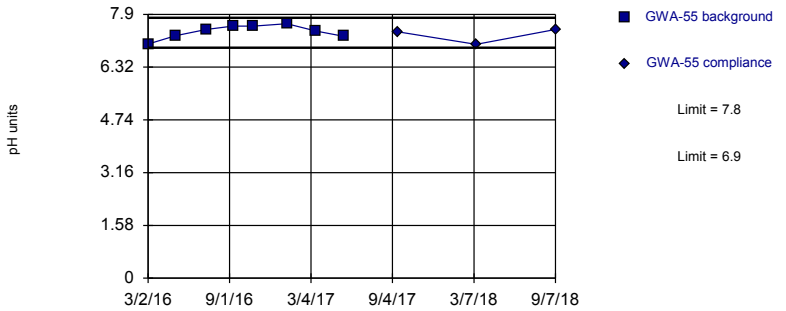
Constituent: pH Analysis Run 12/4/2018 9:04 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=7.385, Std. Dev.=0.204, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9301, critical = 0.749. Kappa = 2.256 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: pH Analysis Run 12/4/2018 9:04 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Prediction Limit

Constituent: pH Analysis Run 12/4/2018 9:13 AM View: Cells3&4_AppIII_intrawell

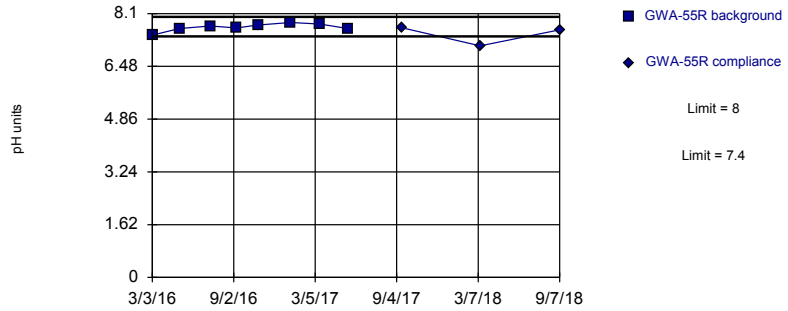
Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-53	GWA-53	GWA-53R	GWA-53R	GWA-54	GWA-54	GWA-55	GWA-55
3/2/2016	7.77 (D)		7.76		7.51		7.01	
5/3/2016	7.76		7.8				7.26	
5/4/2016					7.68			
7/8/2016	7.82				7.7			
7/11/2016			7.82				7.45	
9/7/2016			7.83					
9/8/2016	7.73				7.71			
9/9/2016							7.55	
10/26/2016	7.71				7.6		7.55	
10/27/2016			7.84					
1/6/2017			7.63					
1/9/2017	7.52				7.81		7.62	
3/15/2017					7.74			
3/16/2017	7.84		7.8				7.4	
5/18/2017					7.39		7.24	
5/19/2017	7.72		7.81					
9/15/2017						7.61		7.38
9/19/2017		7.68		7.84				
3/12/2018								7
3/13/2018		7.74		7.8		7.39		
9/6/2018						7.66		
9/7/2018								7.45
9/11/2018		7.64		7.76				

Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=7.683, Std. Dev.=0.1196, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9159, critical = 0.749. Kappa = 2.256 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

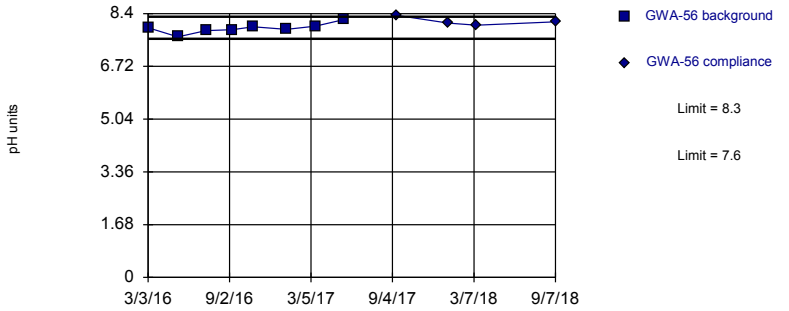
Constituent: pH Analysis Run 12/4/2018 9:04 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=7.931, Std. Dev.=0.1542, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9402, critical = 0.749. Kappa = 2.256 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

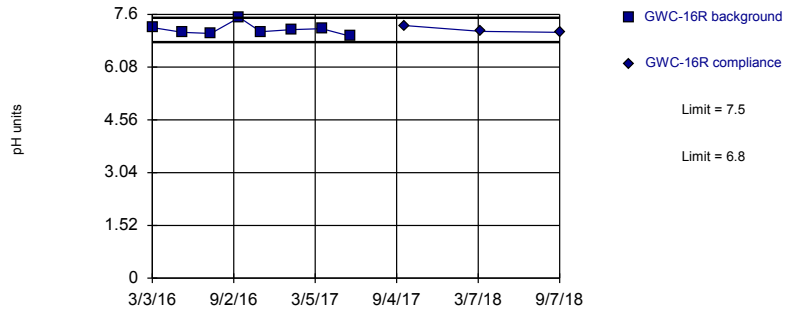
Constituent: pH Analysis Run 12/4/2018 9:04 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=7.16, Std. Dev.=0.1627, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8775, critical = 0.749. Kappa = 2.256 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

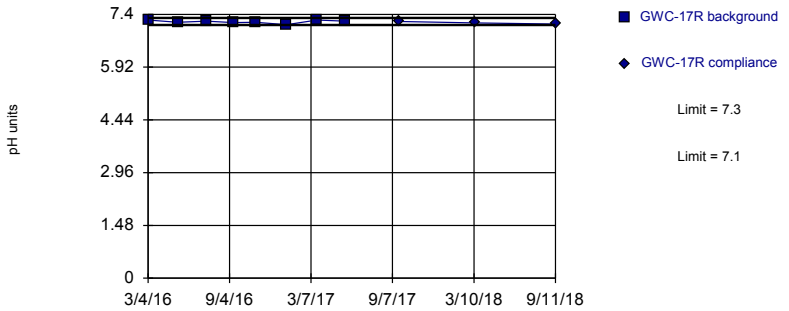
Constituent: pH Analysis Run 12/4/2018 9:04 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=7.193, Std. Dev.=0.04268, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9104, critical = 0.749. Kappa = 2.256 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: pH Analysis Run 12/4/2018 9:04 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Prediction Limit

Constituent: pH Analysis Run 12/4/2018 9:14 AM View: Cells3&4_AppIII_intrawell

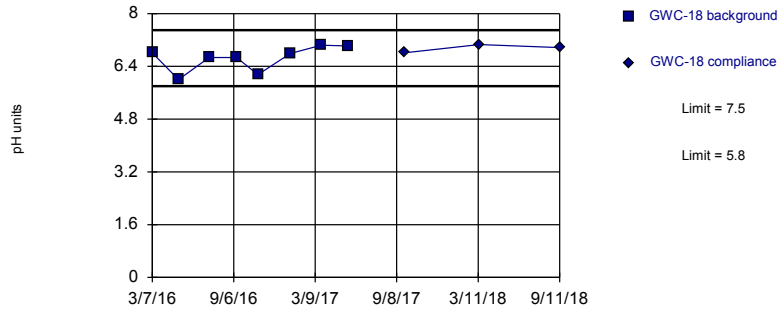
Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-55R	GWA-55R	GWA-56	GWA-56	GWC-16R	GWC-16R	GWC-17R	GWC-17R
3/3/2016	7.44		7.95 (D)		7.22 (D)			
3/4/2016							7.24	
5/3/2016	7.64							
5/9/2016			7.66					
5/10/2016					7.08		7.18	
7/11/2016	7.72		7.86					
7/13/2016					7.05			
7/14/2016							7.21	
9/9/2016	7.66		7.89					
9/13/2016							7.17	
9/15/2016					7.51			
10/26/2016			7.98					
10/27/2016	7.75							
11/1/2016							7.18	
11/2/2016					7.1			
1/9/2017	7.83		7.9					
1/11/2017					7.16		7.11	
3/15/2017			8					
3/16/2017	7.78							
3/20/2017					7.19			
3/21/2017							7.24	
5/18/2017	7.64		8.21					
5/23/2017					6.97		7.21	
9/15/2017				8.34				
9/18/2017		7.66						
9/21/2017						7.28		
9/22/2017								7.2
1/9/2018				8.1 (Y)				
3/12/2018		7.11						
3/13/2018				8.03				
3/14/2018						7.11		7.16
9/7/2018		7.6		8.14		7.08		
9/11/2018								7.13

Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=6.644, Std. Dev.=0.3793, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8695, critical = 0.749. Kappa = 2.256 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: pH Analysis Run 12/4/2018 9:04 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

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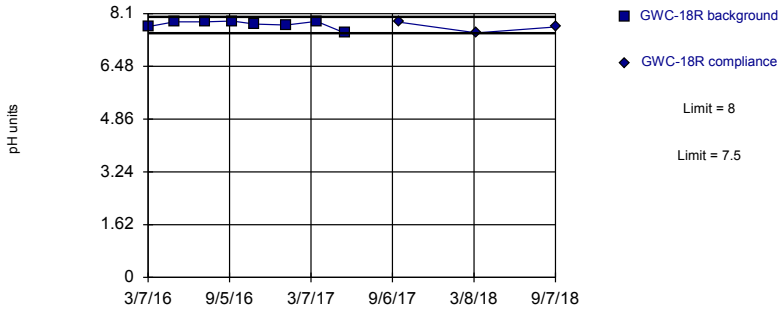
Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=7.771, Std. Dev.=0.1218, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8087, critical = 0.749. Kappa = 2.256 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: pH Analysis Run 12/4/2018 9:04 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

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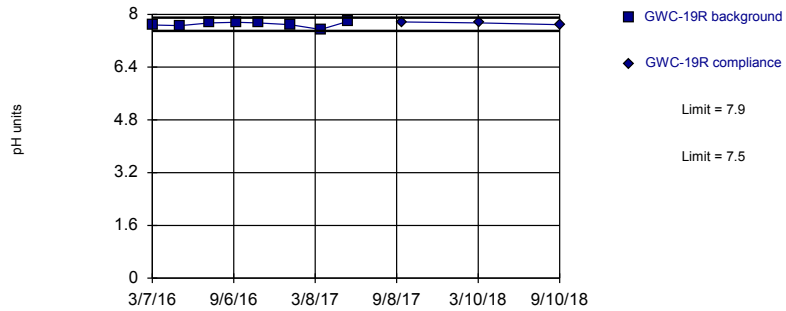
Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=7.7, Std. Dev.=0.07801, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9037, critical = 0.749. Kappa = 2.256 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: pH Analysis Run 12/4/2018 9:04 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

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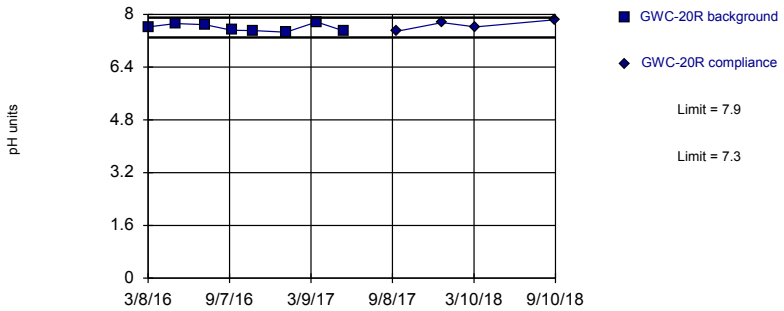
Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=7.599, Std. Dev.=0.117, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9027, critical = 0.749. Kappa = 2.256 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: pH Analysis Run 12/4/2018 9:04 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Prediction Limit

Constituent: pH Analysis Run 12/4/2018 9:14 AM View: Cells3&4_AppIII_intrawell

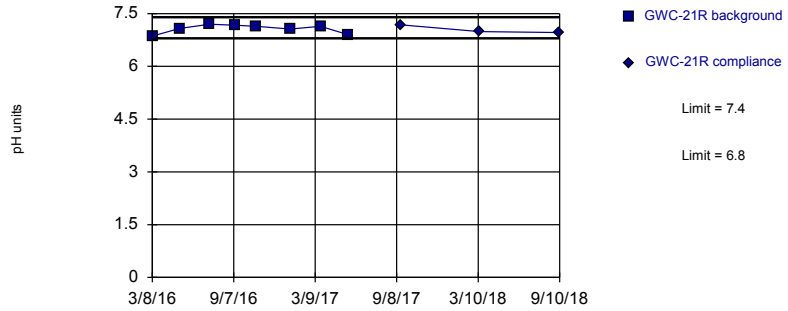
Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-18	GWC-18	GWC-18R	GWC-18R	GWC-19R	GWC-19R	GWC-20R	GWC-20R
3/7/2016	6.81		7.7		7.68			
3/8/2016							7.62	
5/5/2016	6		7.85					
5/9/2016					7.66		7.72	
7/13/2016	6.67		7.85					
7/14/2016					7.74		7.69	
9/12/2016			7.87		7.76		7.52	
9/13/2016	6.67							
10/31/2016	6.15				7.74		7.51	
11/1/2016			7.78					
1/11/2017			7.75		7.69			
1/12/2017	6.79						7.46	
3/20/2017			7.86					
3/21/2017					7.54			
3/22/2017							7.77	
3/23/2017	7.04							
5/22/2017			7.51		7.79		7.5	
5/23/2017	7.02							
9/19/2017								7.49
9/20/2017						7.77		
9/21/2017				7.84				
9/25/2017		6.81						
12/29/2017								7.75 (Y)
3/14/2018		7.06		7.51		7.74		7.62
9/7/2018				7.69				
9/10/2018						7.69		7.84
9/11/2018		6.97						

Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=7.069, Std. Dev.=0.1253, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8661, critical = 0.749. Kappa = 2.256 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

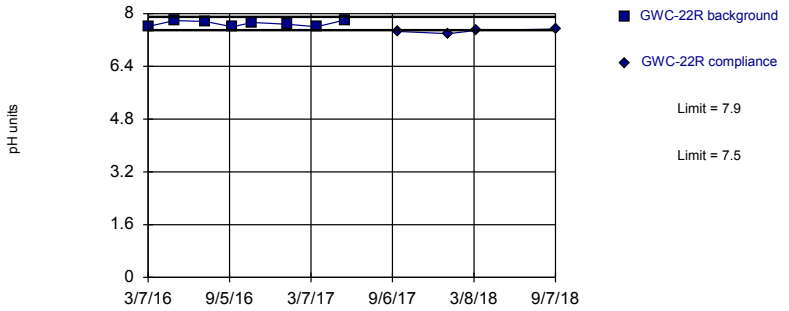
Constituent: pH Analysis Run 12/4/2018 9:04 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=7.698, Std. Dev.=0.08714, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8791, critical = 0.749. Kappa = 2.256 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

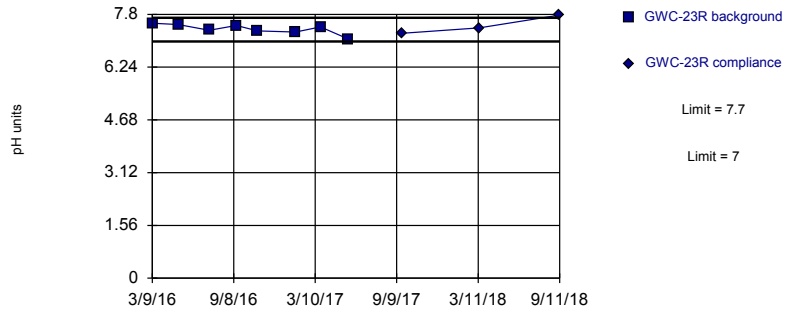
Constituent: pH Analysis Run 12/4/2018 9:04 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Exceeds Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=7.366, Std. Dev.=0.1524, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9238, critical = 0.749. Kappa = 2.256 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

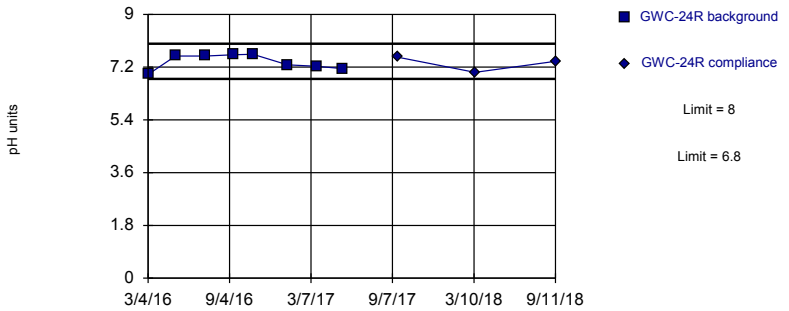
Constituent: pH Analysis Run 12/4/2018 9:04 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=7.379, Std. Dev.=0.2606, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8726, critical = 0.749. Kappa = 2.256 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: pH Analysis Run 12/4/2018 9:04 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Prediction Limit

Constituent: pH Analysis Run 12/4/2018 9:14 AM View: Cells3&4_AppIII_intrawell

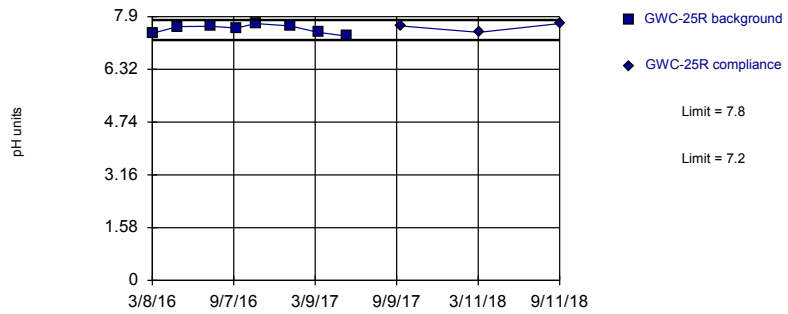
Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-21R	GWC-21R	GWC-22R	GWC-22R	GWC-23R	GWC-23R	GWC-24R	GWC-24R
3/4/2016							6.95	
3/7/2016			7.61					
3/8/2016	6.86							
3/9/2016					7.54			
5/5/2016			7.79				7.58	
5/6/2016					7.5			
5/9/2016	7.08							
7/12/2016							7.58	
7/14/2016			7.76					
7/15/2016	7.2				7.33			
9/9/2016	7.17							
9/12/2016			7.6					
9/13/2016							7.62	
9/14/2016					7.47			
10/27/2016	7.14		7.73				7.64	
11/1/2016					7.31			
1/12/2017	7.06							
1/13/2017			7.68				7.28	
1/25/2017					7.28			
3/20/2017			7.6				7.23	
3/21/2017	7.14							
3/22/2017					7.43			
5/19/2017							7.15	
5/23/2017	6.9		7.81					
5/24/2017					7.07			
9/19/2017		7.18		7.46				7.54
9/21/2017						7.24		
1/9/2018				7.39 (Y)				
3/13/2018				7.49				7.02
3/14/2018		6.99				7.4		
9/7/2018				7.53				
9/10/2018		6.96						
9/11/2018						7.78		7.4

Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=7.529, Std. Dev.=0.1292, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9156, critical = 0.749. Kappa = 2.256 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

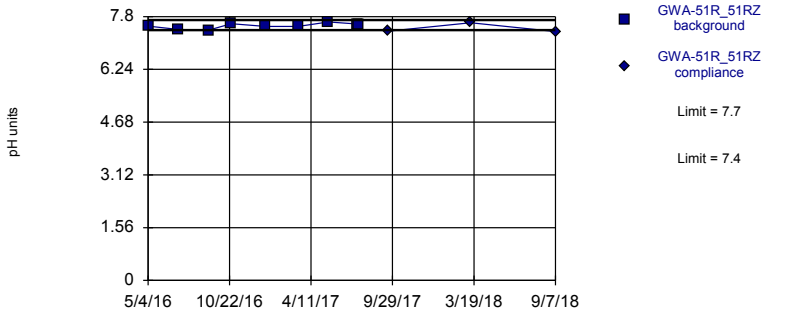
Constituent: pH Analysis Run 12/4/2018 9:04 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Exceeds Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=7.528, Std. Dev.=0.07949, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9308, critical = 0.764. Kappa = 2.131 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

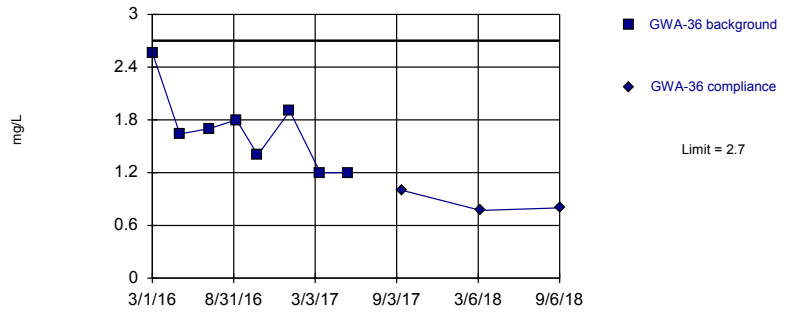
Constituent: pH Analysis Run 12/4/2018 9:04 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=1.676, Std. Dev.=0.4453, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9053, critical = 0.749. Kappa = 2.256 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

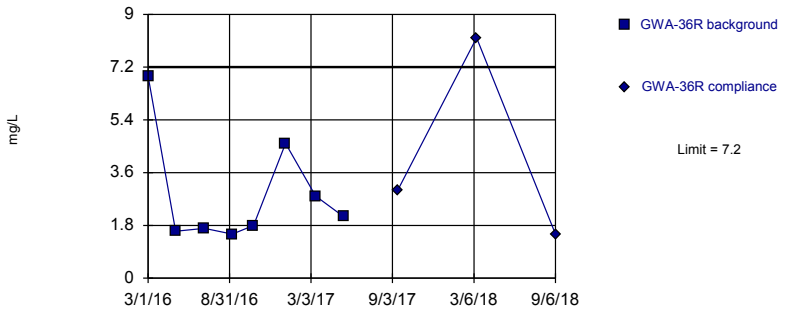
Constituent: Sulfate Analysis Run 12/4/2018 9:04 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=2.874, Std. Dev.=1.919, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7584, critical = 0.749. Kappa = 2.256 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Sulfate Analysis Run 12/4/2018 9:04 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Prediction Limit

Constituent: pH, Sulfate Analysis Run 12/4/2018 9:14 AM View: Cells3&4_AppIII_intrawell

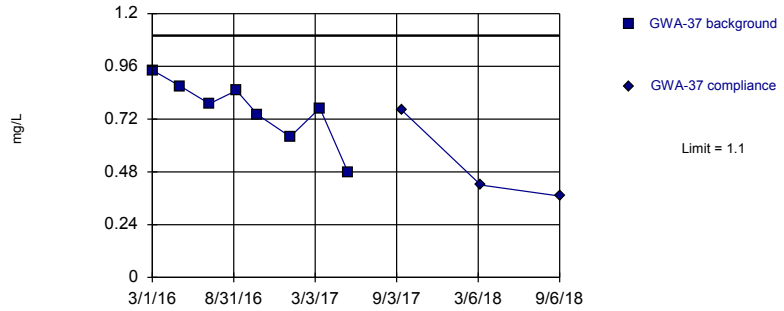
Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-25R	GWC-25R	GWA-51R_51RZ	GWA-51R_51RZ	GWA-36	GWA-36	GWA-36R	GWA-36R
3/1/2016					2.5655		6.8929	
3/8/2016	7.4							
5/2/2016					1.64		1.6	
5/4/2016	7.6		7.52 (D)					
7/6/2016							1.7	
7/7/2016			7.42 (D)		1.7			
7/18/2016	7.61							
9/7/2016					1.8		1.5	
9/8/2016			7.4 (D)					
9/13/2016	7.56							
10/25/2016					1.4		1.8	
10/26/2016			7.59 (D)					
10/27/2016	7.69							
1/5/2017					1.9 (J)		4.6	
1/6/2017			7.51 (D)					
1/13/2017	7.62							
3/14/2017							2.8	
3/15/2017			7.51 (D)		1.2			
3/16/2017	7.43							
5/16/2017							2.1	
5/17/2017					1.2			
5/18/2017			7.64 (D)					
5/19/2017	7.32							
7/18/2017			7.58					
7/19/2017			7.58 (D)					
9/15/2017						1		3
9/19/2017		7.62		7.37 (D)				
3/12/2018						0.77 (J)		8.2
3/13/2018		7.43		7.62				
9/6/2018						0.8 (J)		1.5
9/7/2018				7.36				
9/11/2018		7.69						

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.7603, Std. Dev.=0.1453, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9419, critical = 0.749. Kappa = 2.256 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Sulfate Analysis Run 12/4/2018 9:04 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

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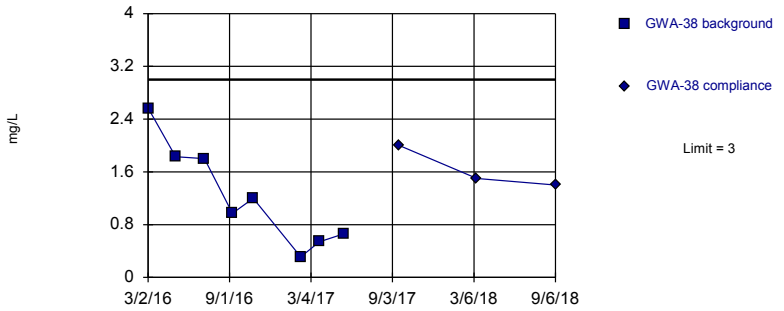
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=1.235, Std. Dev.=0.7735, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9415, critical = 0.749. Kappa = 2.256 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Sulfate Analysis Run 12/4/2018 9:04 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

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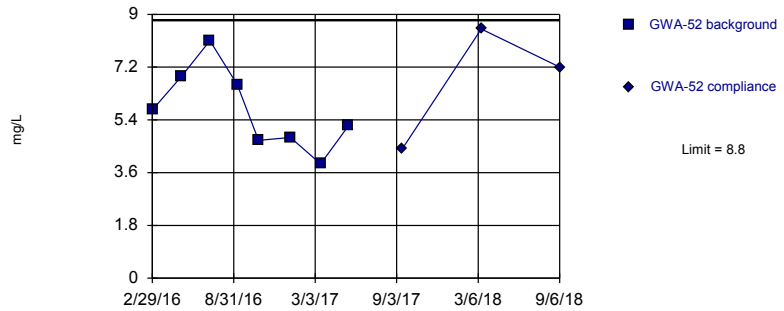
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=5.739, Std. Dev.=1.375, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9648, critical = 0.749. Kappa = 2.256 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Sulfate Analysis Run 12/4/2018 9:04 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

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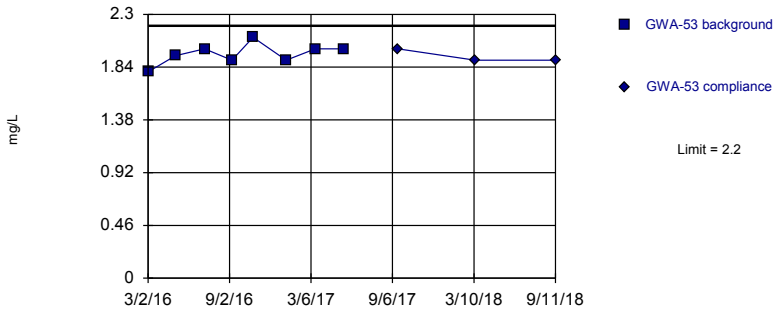
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=1.955, Std. Dev.=0.0908, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9537, critical = 0.749. Kappa = 2.256 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Sulfate Analysis Run 12/4/2018 9:04 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Prediction Limit

Constituent: Sulfate Analysis Run 12/4/2018 9:14 AM View: Cells3&4_AppIII_intrawell

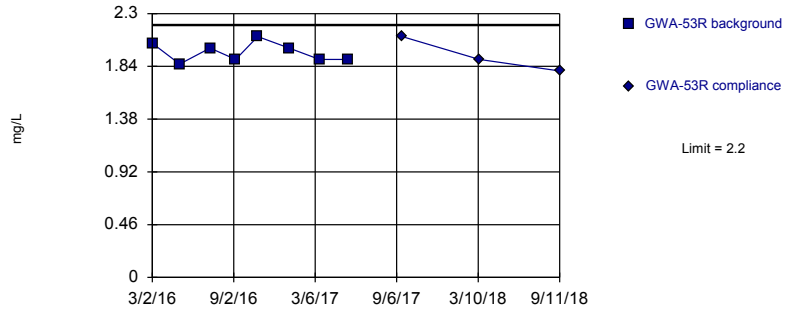
Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-37	GWA-37	GWA-38	GWA-38	GWA-52	GWA-52	GWA-53	GWA-53
2/29/2016					5.7396			
3/1/2016	0.9427 (J)							
3/2/2016			2.5669				1.799	
5/3/2016	0.87 (J)		1.83				1.94	
5/4/2016					6.87			
7/7/2016			1.8					
7/8/2016	0.79 (J)				8.1		2	
9/7/2016	0.85 (J)							
9/8/2016			0.97 (J)		6.6		1.9	
10/25/2016	0.74 (J)		1.2					
10/26/2016					4.7		2.1	
1/6/2017	0.64 (J)				4.8			
1/9/2017							1.9	
2/9/2017			0.31 (J)					
3/14/2017	0.77 (J)							
3/15/2017					3.9			
3/16/2017							2	
3/23/2017			0.54 (J)					
5/16/2017	0.48 (J)							
5/17/2017			0.66 (J)		5.2			
5/19/2017							2	
9/15/2017		0.76 (J)				4.4		
9/19/2017				2				2
3/12/2018		0.42 (J)						
3/13/2018				1.5		8.5		1.9
9/6/2018		0.37 (J)		1.4		7.2		
9/11/2018								1.9

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=1.963, Std. Dev.=0.08457, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9047, critical = 0.749. Kappa = 2.256 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Sulfate Analysis Run 12/4/2018 9:04 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

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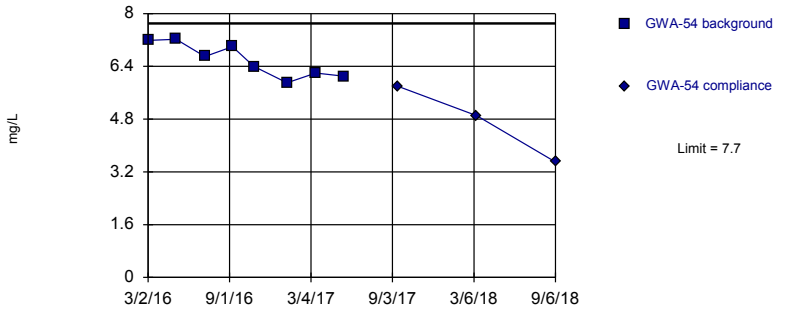
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=6.589, Std. Dev.=0.5128, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9179, critical = 0.749. Kappa = 2.256 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Sulfate Analysis Run 12/4/2018 9:04 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

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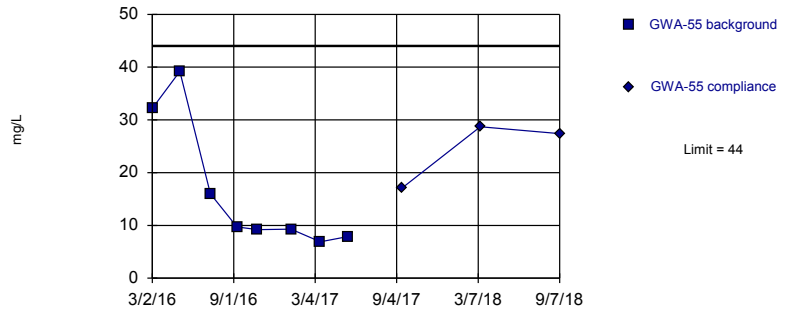
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=16.3, Std. Dev.=12.41, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7498, critical = 0.749. Kappa = 2.256 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Sulfate Analysis Run 12/4/2018 9:05 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

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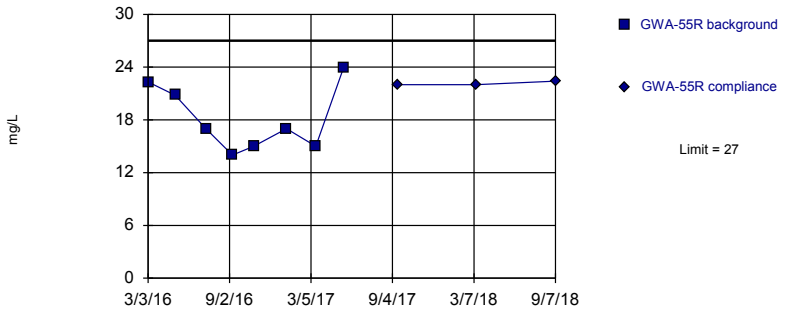
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=18.14, Std. Dev.=3.748, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8945, critical = 0.749. Kappa = 2.256 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Sulfate Analysis Run 12/4/2018 9:05 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Prediction Limit

Constituent: Sulfate Analysis Run 12/4/2018 9:14 AM View: Cells3&4_AppIII_intrawell

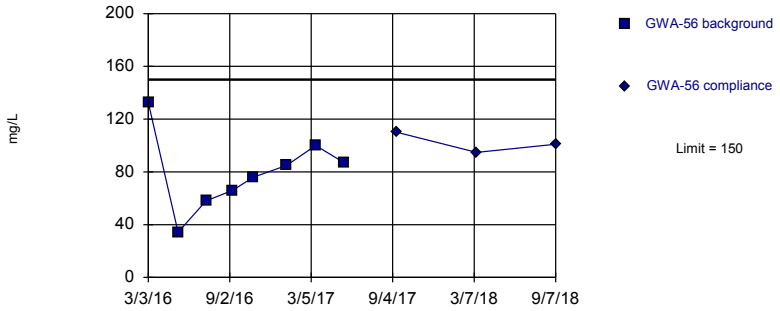
Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-53R	GWA-53R	GWA-54	GWA-54	GWA-55	GWA-55	GWA-55R	GWA-55R
3/2/2016	2.0407		7.1892		32.178			
3/3/2016							22.316	
5/3/2016	1.86				39.2		20.8	
5/4/2016			7.22					
7/8/2016			6.7					
7/11/2016	2				16		17	
9/7/2016	1.9							
9/8/2016			7					
9/9/2016					9.7		14	
10/26/2016			6.4		9.2			
10/27/2016	2.1						15	
1/6/2017	2							
1/9/2017			5.9		9.3		17	
3/15/2017			6.2					
3/16/2017	1.9				6.9		15	
5/18/2017			6.1		7.9		24	
5/19/2017	1.9							
9/15/2017				5.8		17		
9/18/2017								22
9/19/2017		2.1						
3/12/2018						28.7		22
3/13/2018		1.9		4.9				
9/6/2018				3.5				
9/7/2018						27.4		22.4
9/11/2018		1.8						

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=79.85, Std. Dev.=29.3, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9829, critical = 0.749. Kappa = 2.256 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Sulfate Analysis Run 12/4/2018 9:05 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

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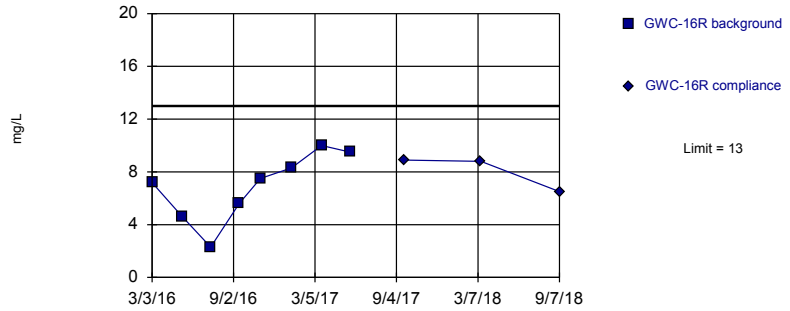
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=6.873, Std. Dev.=2.589, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9568, critical = 0.749. Kappa = 2.256 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Sulfate Analysis Run 12/4/2018 9:05 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

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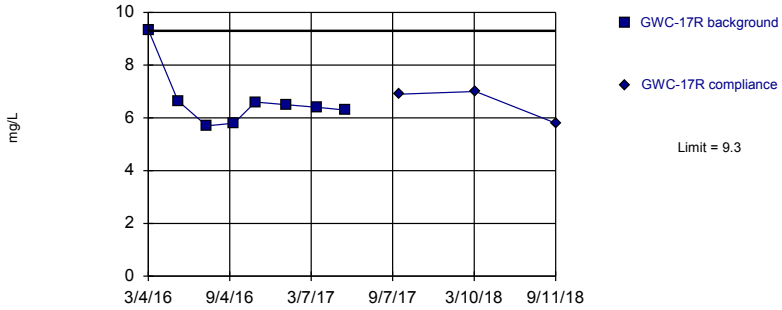
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=1.885, Std. Dev.=0.1523, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7603, critical = 0.749. Kappa = 2.256 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Sulfate Analysis Run 12/4/2018 9:05 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

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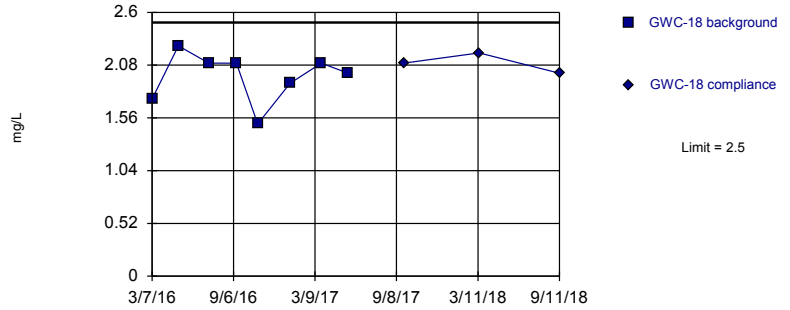
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=1.965, Std. Dev.=0.2441, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9166, critical = 0.749. Kappa = 2.256 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Sulfate Analysis Run 12/4/2018 9:05 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Prediction Limit

Constituent: Sulfate Analysis Run 12/4/2018 9:14 AM View: Cells3&4_AppIII_intrawell

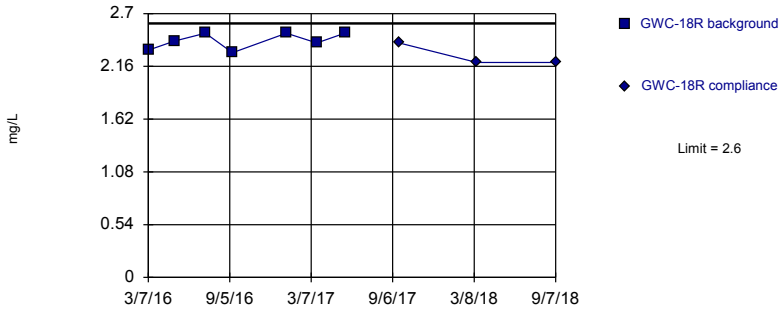
Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-56	GWA-56	GWC-16R	GWC-16R	GWC-17R	GWC-17R	GWC-18	GWC-18
3/3/2016	132.4615		7.1809 (D)					
3/4/2016					9.3417			
3/7/2016							1.7468	
5/5/2016							2.27	
5/9/2016	34.3							
5/10/2016			4.6		6.65			
7/11/2016	58							
7/13/2016			2.3				2.1	
7/14/2016					5.7			
9/9/2016	66							
9/13/2016							2.1	
9/14/2016					5.8			
9/15/2016			5.6					
10/26/2016	76							
10/31/2016							1.5	
11/1/2016					6.6			
11/2/2016			7.5					
1/9/2017	85							
1/11/2017			8.3		6.5			
1/12/2017							1.9	
3/15/2017	100							
3/20/2017			10					
3/21/2017					6.4			
3/23/2017							2.1	
5/18/2017	87							
5/23/2017			9.5		6.3		2	
9/15/2017		110						
9/21/2017				8.9				
9/22/2017						6.9		
9/25/2017								2.1
3/13/2018		94.8						
3/14/2018				8.8		7		2.2
9/7/2018		101		6.5				
9/11/2018						5.8		2

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=2.421, Std. Dev.=0.08453, n=7. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8552, critical = 0.73. Kappa = 2.527 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

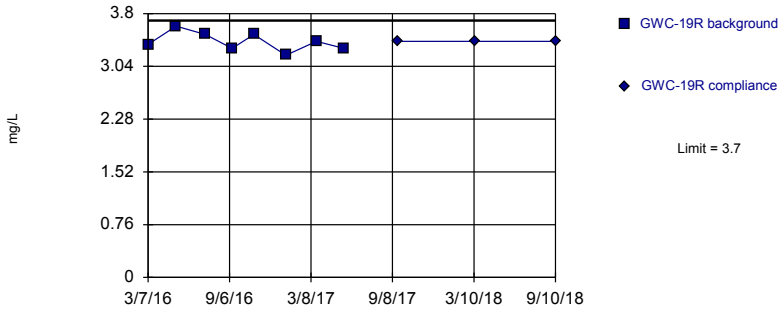
Constituent: Sulfate Analysis Run 12/4/2018 9:05 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=3.397, Std. Dev.=0.1364, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9662, critical = 0.749. Kappa = 2.256 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

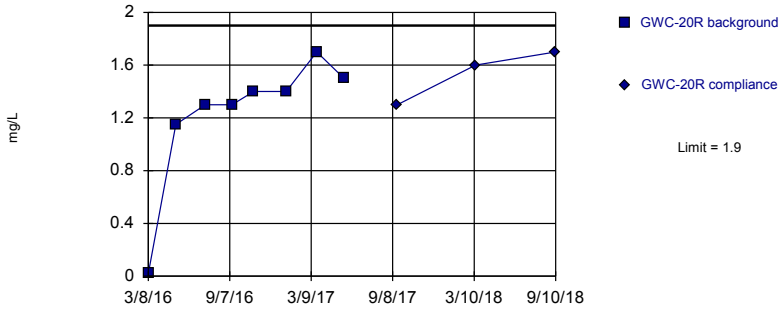
Constituent: Sulfate Analysis Run 12/4/2018 9:05 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square transformation): Mean=1.72, Std. Dev.=0.8351, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9072, critical = 0.749. Kappa = 2.256 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Sulfate Analysis Run 12/4/2018 9:05 AM View: Cells3&4_AppIII_intrawell

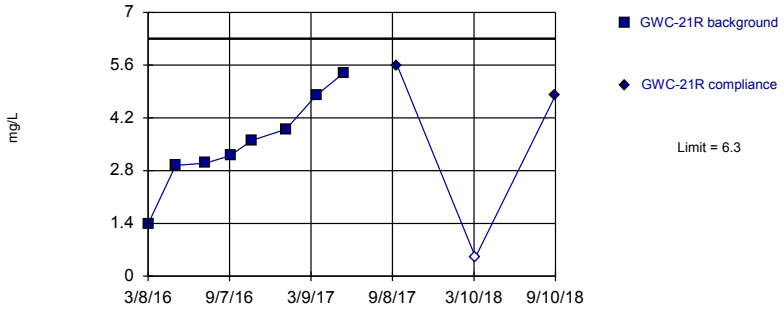
Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=3.528, Std. Dev.=1.23, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9655, critical = 0.749. Kappa = 2.256 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Sulfate Analysis Run 12/4/2018 9:05 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Prediction Limit

Constituent: Sulfate Analysis Run 12/4/2018 9:14 AM View: Cells3&4_AppIII_intrawell

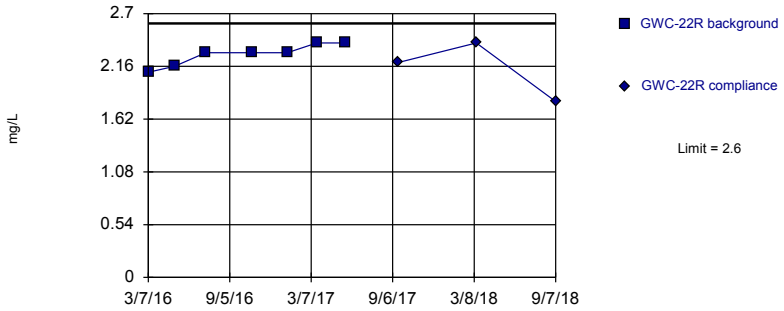
Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-18R	GWC-18R	GWC-19R	GWC-19R	GWC-20R	GWC-20R	GWC-21R	GWC-21R
3/7/2016	2.3258		3.3556					
3/8/2016					0.0196 (J)		1.3858	
5/5/2016	2.42							
5/9/2016			3.62		1.15		2.94	
7/13/2016	2.5							
7/14/2016			3.5		1.3			
7/15/2016							3	
9/9/2016							3.2	
9/12/2016	2.3		3.3		1.3			
10/27/2016							3.6	
10/31/2016			3.5		1.4			
1/11/2017	2.5		3.2					
1/12/2017					1.4		3.9	
3/20/2017	2.4							
3/21/2017			3.4				4.8	
3/22/2017					1.7			
5/22/2017	2.5		3.3		1.5			
5/23/2017							5.4	
9/19/2017						1.3		5.6
9/20/2017				3.4				
9/21/2017		2.4						
3/14/2018		2.2		3.4		1.6		<1
9/7/2018		2.2						
9/10/2018				3.4		1.7		4.8

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=2.28, Std. Dev.=0.1129, n=7. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8783, critical = 0.73. Kappa = 2.527 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Sulfate Analysis Run 12/4/2018 9:05 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

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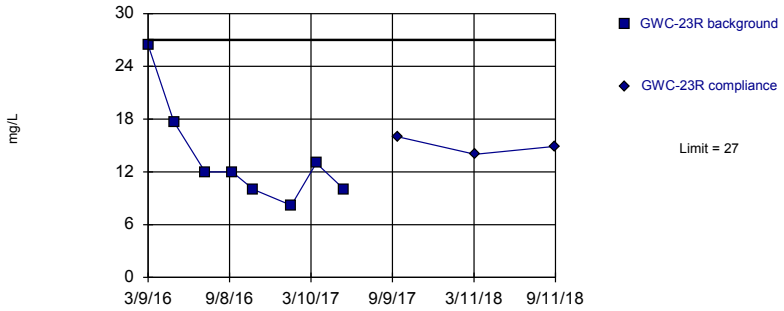
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=13.67, Std. Dev.=5.88, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8091, critical = 0.749. Kappa = 2.256 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Sulfate Analysis Run 12/4/2018 9:05 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

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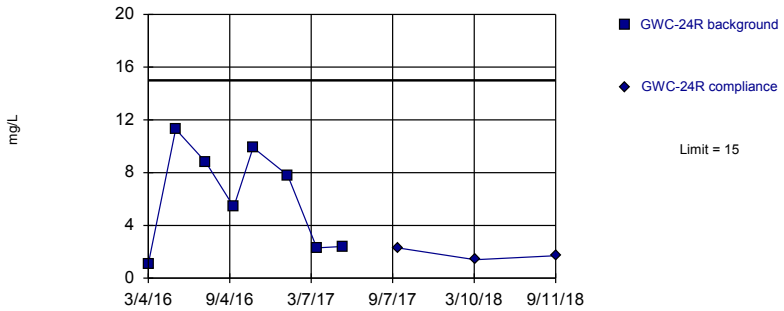
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=6.123, Std. Dev.=3.881, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9179, critical = 0.749. Kappa = 2.256 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Sulfate Analysis Run 12/4/2018 9:05 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

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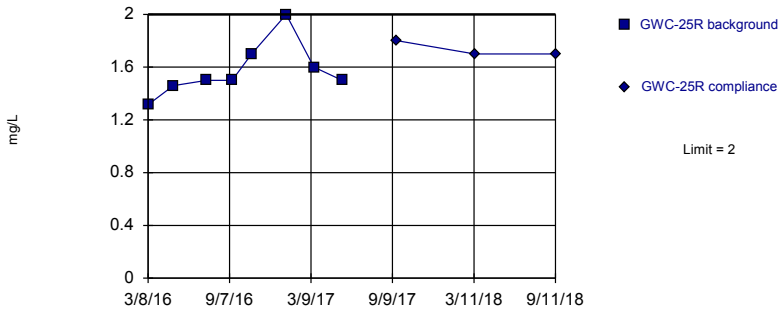
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=1.572, Std. Dev.=0.205, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8756, critical = 0.749. Kappa = 2.256 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Sulfate Analysis Run 12/4/2018 9:05 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Prediction Limit

Constituent: Sulfate Analysis Run 12/4/2018 9:14 AM View: Cells3&4_AppIII_intrawell

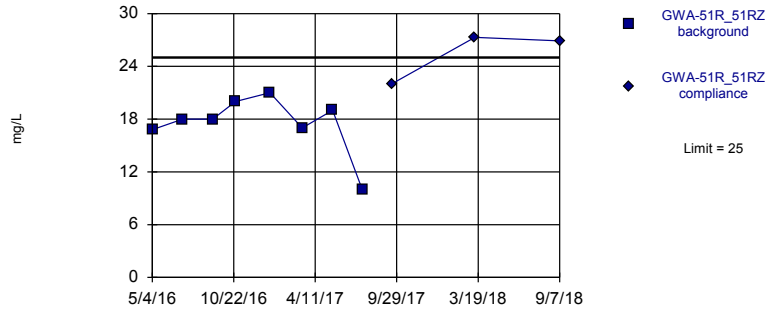
Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-22R	GWC-22R	GWC-23R	GWC-23R	GWC-24R	GWC-24R	GWC-25R	GWC-25R
3/4/2016					1.0816			
3/7/2016	2.1008							
3/8/2016							1.3157	
3/9/2016			26.4322					
5/4/2016							1.46	
5/5/2016	2.16				11.3			
5/6/2016			17.7					
7/12/2016					8.8			
7/14/2016	2.3							
7/15/2016			12					
7/18/2016							1.5	
9/13/2016					5.4		1.5	
9/14/2016			12					
10/27/2016	2.3				9.9		1.7	
11/1/2016			10					
1/13/2017	2.3				7.8		2	
1/25/2017			8.2					
3/16/2017							1.6	
3/20/2017	2.4				2.3			
3/22/2017			13					
5/19/2017					2.4		1.5	
5/23/2017	2.4							
5/24/2017			10					
9/19/2017		2.2				2.3		1.8
9/21/2017				16				
3/13/2018		2.4				1.4		1.7
3/14/2018				14				
9/7/2018		1.8						
9/11/2018				14.9		1.7		1.7

Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=17.48, Std. Dev.=3.343, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8218, critical = 0.749. Kappa = 2.256 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

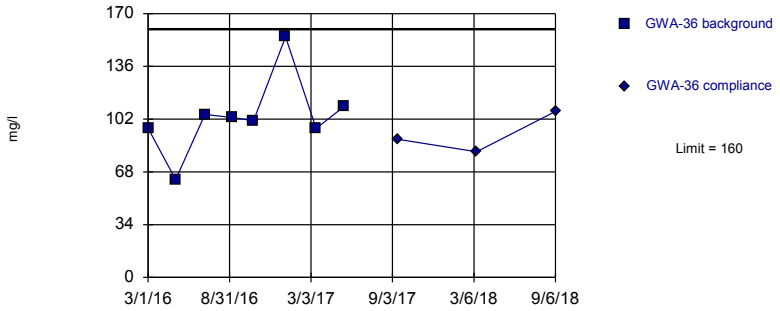
Constituent: Sulfate Analysis Run 12/4/2018 9:05 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=103.6, Std. Dev.=25.23, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8568, critical = 0.749. Kappa = 2.256 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

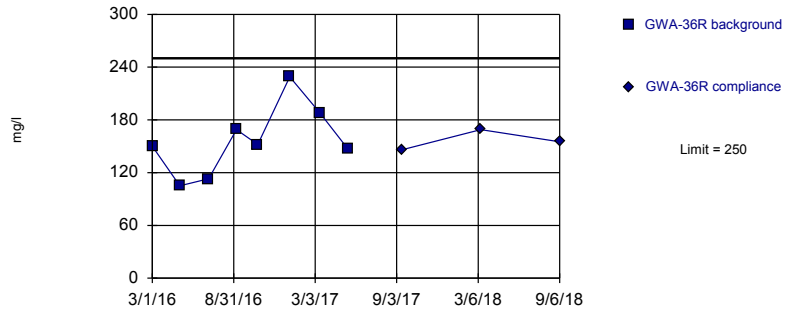
Constituent: Total Dissolved Solids Analysis Run 12/4/2018 9:05 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=156.6, Std. Dev.=39.82, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9504, critical = 0.749. Kappa = 2.256 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Total Dissolved Solids Analysis Run 12/4/2018 9:05 AM View: Cells3&4_AppIII_intrawell

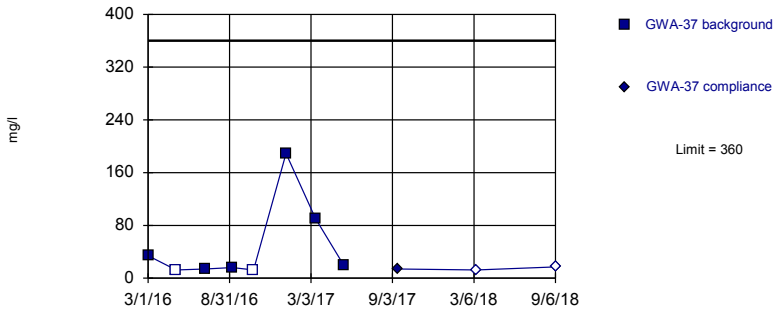
Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube root transformation) (after Aitchison`s Adjustment): Mean=2.638, Std. Dev.=1.977, n=8, 25% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7718, critical = 0.749. Kappa = 2.256 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Total Dissolved Solids Analysis Run 12/4/2018 9:05 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Prediction Limit

Constituent: Sulfate, Total Dissolved Solids Analysis Run 12/4/2018 9:14 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

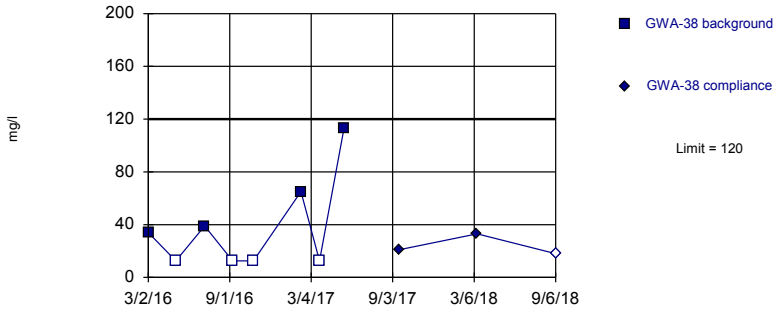
	GWA-51R_51RZ	GWA-51R_51RZ	GWA-36	GWA-36	GWA-36R	GWA-36R	GWA-37	GWA-37
3/1/2016			96 (D)		150 (D)		34 (D)	
5/2/2016			63 (D)		105 (D)			
5/3/2016							<25 (D)	
5/4/2016	16.8 (D)							
7/6/2016					113 (D)			
7/7/2016	18 (D)		105 (D)					
7/8/2016							14 (JD)	
9/7/2016			103 (D)		169 (D)		16 (JD)	
9/8/2016	18 (D)							
10/25/2016			101 (D)		152 (D)		<25 (D)	
10/26/2016	20 (D)							
1/5/2017			155		229			
1/6/2017	21 (D)						189	
3/14/2017					188		90	
3/15/2017	17 (D)		96					
5/16/2017					147		20 (J)	
5/17/2017			110					
5/18/2017	19 (D)							
7/19/2017	10 (D)							
9/15/2017				89		146		14 (J)
9/19/2017		22 (D)						
3/12/2018				81		169		<25
3/13/2018		27.3						
9/6/2018				107		155		<34
9/7/2018		26.9						

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (after Aitchison`s Adjustment): Mean=31.38, Std. Dev.=41.05, n=8, 50% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7727, critical = 0.749. Kappa = 2.256 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

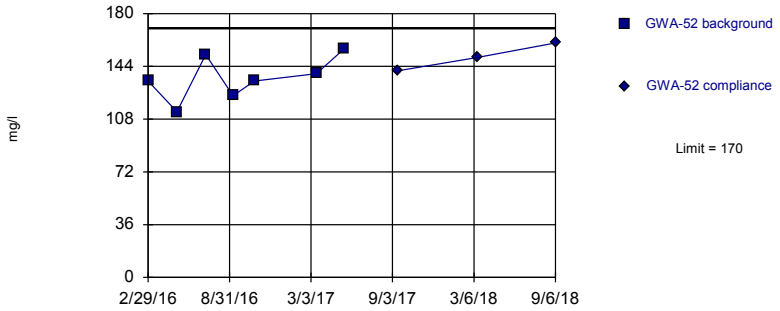
Constituent: Total Dissolved Solids Analysis Run 12/4/2018 9:05 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=136, Std. Dev.=14.98, n=7. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9623, critical = 0.73. Kappa = 2.527 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

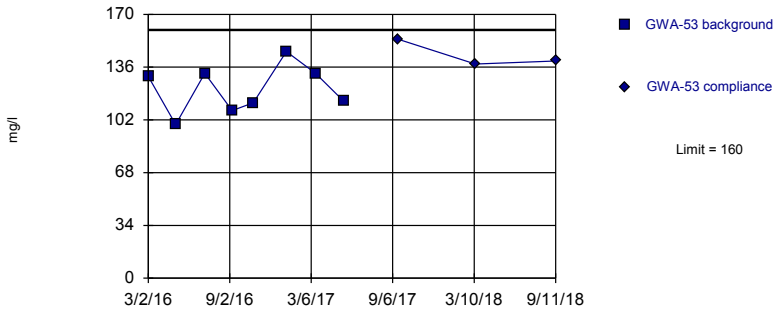
Constituent: Total Dissolved Solids Analysis Run 12/4/2018 9:05 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=121.8, Std. Dev.=15.63, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9476, critical = 0.749. Kappa = 2.256 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

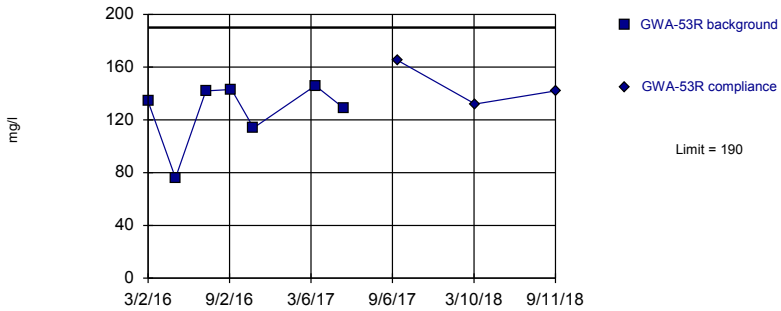
Constituent: Total Dissolved Solids Analysis Run 12/4/2018 9:05 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=126.3, Std. Dev.=24.7, n=7. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8036, critical = 0.73. Kappa = 2.527 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Total Dissolved Solids Analysis Run 12/4/2018 9:05 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Prediction Limit

Constituent: Total Dissolved Solids Analysis Run 12/4/2018 9:14 AM View: Cells3&4_AppIII_intrawell

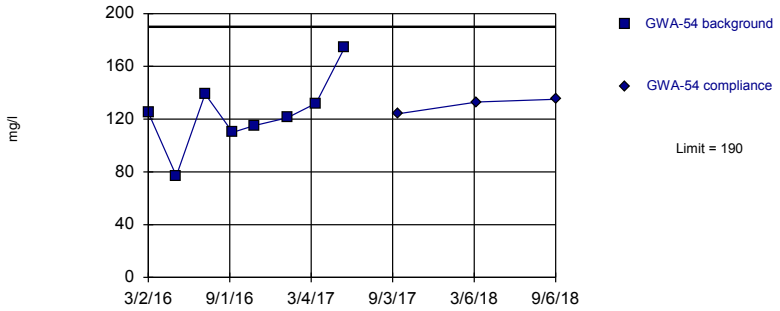
Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-38	GWA-38	GWA-52	GWA-52	GWA-53	GWA-53	GWA-53R	GWA-53R
2/29/2016			134 (D)					
3/2/2016	34 (D)				130 (D)		134 (D)	
5/3/2016	<25 (D)				99 (D)		76 (D)	
5/4/2016			113 (D)					
7/7/2016	39 (D)							
7/8/2016			152 (D)		132 (D)			
7/11/2016							142 (D)	
9/7/2016							143 (D)	
9/8/2016	<25 (D)		124 (D)		108 (D)			
10/25/2016	<25 (D)							
10/26/2016			134 (D)		113 (D)			
10/27/2016							114 (D)	
1/9/2017					146			
2/9/2017	65							
3/15/2017			139					
3/16/2017					132		146	
3/23/2017	<25							
5/17/2017	113		156					
5/19/2017					114		129	
9/15/2017				141				
9/19/2017		21 (J)				154		165
3/13/2018		33		150		138		132
9/6/2018		<36		160				
9/11/2018						140		142

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=124.1, Std. Dev.=27.48, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9557, critical = 0.749. Kappa = 2.256 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

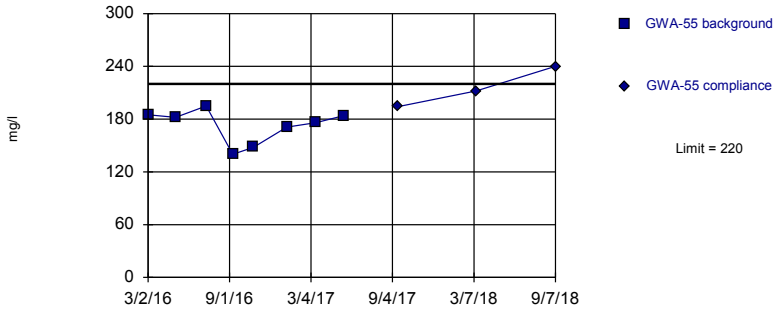
Constituent: Total Dissolved Solids Analysis Run 12/4/2018 9:05 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=172.6, Std. Dev.=19.11, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8863, critical = 0.749. Kappa = 2.256 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

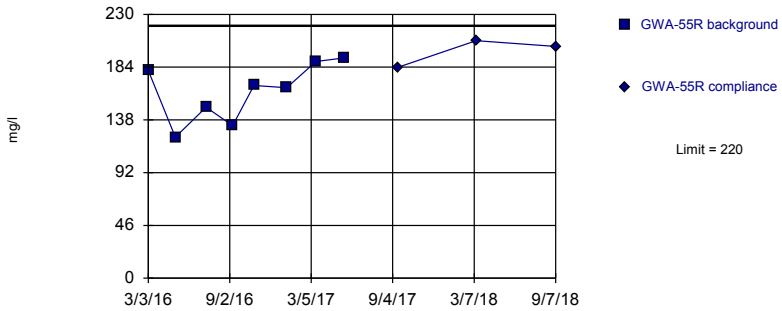
Constituent: Total Dissolved Solids Analysis Run 12/4/2018 9:05 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=162.6, Std. Dev.=25.55, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9293, critical = 0.749. Kappa = 2.256 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

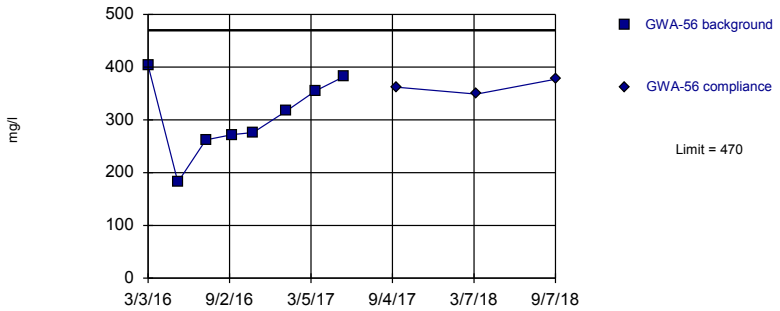
Constituent: Total Dissolved Solids Analysis Run 12/4/2018 9:05 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=306.1, Std. Dev.=72.78, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9582, critical = 0.749. Kappa = 2.256 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Total Dissolved Solids Analysis Run 12/4/2018 9:05 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Prediction Limit

Constituent: Total Dissolved Solids Analysis Run 12/4/2018 9:14 AM View: Cells3&4_AppIII_intrawell

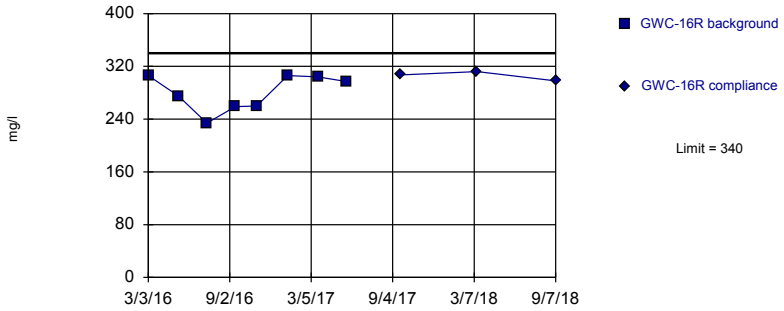
Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWA-54	GWA-54	GWA-55	GWA-55	GWA-55R	GWA-55R	GWA-56	GWA-56
3/2/2016	125 (D)		185 (D)					
3/3/2016					181 (D)		403 (D)	
5/3/2016			182 (D)		123 (D)			
5/4/2016	77 (D)							
5/9/2016							182 (D)	
7/8/2016	139 (D)							
7/11/2016			195 (D)		149 (D)		262 (D)	
9/8/2016	110 (D)							
9/9/2016			140 (D)		133 (D)		272 (D)	
10/26/2016	115 (D)		148 (D)				276 (D)	
10/27/2016					168 (D)			
1/9/2017	121		171		166		317	
3/15/2017	132						355	
3/16/2017			176		189			
5/18/2017	174		184		192		382	
9/15/2017		124		194				362
9/18/2017						184		
3/12/2018				212		207		
3/13/2018		133						349
9/6/2018		135						
9/7/2018				240		202		377

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=280.1, Std. Dev.=27.25, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8725, critical = 0.749. Kappa = 2.256 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Total Dissolved Solids Analysis Run 12/4/2018 9:05 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

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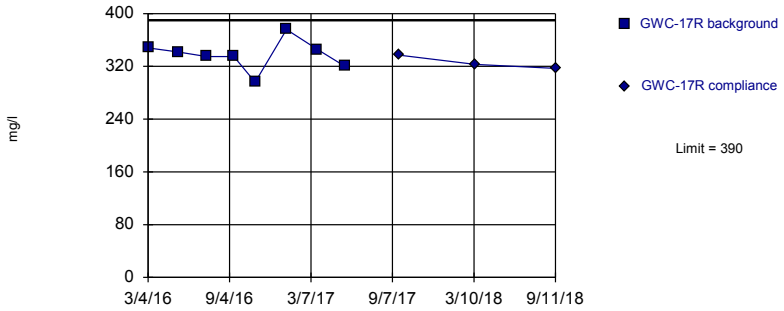
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=337.3, Std. Dev.=23.07, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.953, critical = 0.749. Kappa = 2.256 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Total Dissolved Solids Analysis Run 12/4/2018 9:05 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

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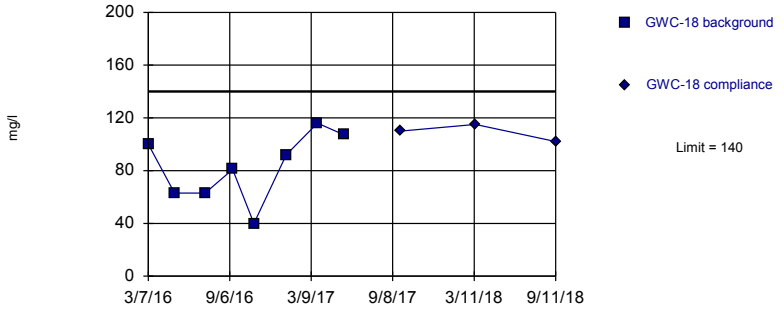
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=82.75, Std. Dev.=25.88, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9572, critical = 0.749. Kappa = 2.256 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Total Dissolved Solids Analysis Run 12/4/2018 9:05 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

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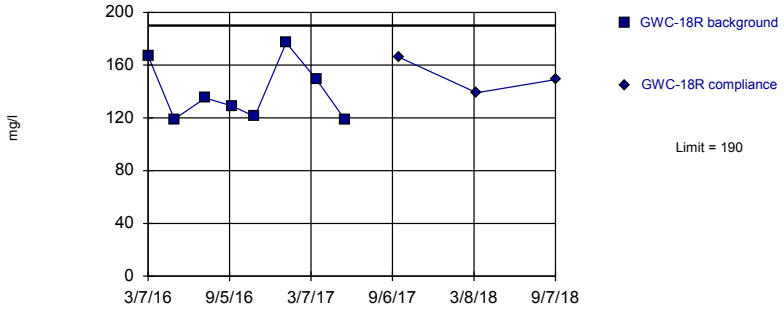
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=139.5, Std. Dev.=22.57, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.864, critical = 0.749. Kappa = 2.256 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Total Dissolved Solids Analysis Run 12/4/2018 9:05 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Prediction Limit

Constituent: Total Dissolved Solids Analysis Run 12/4/2018 9:14 AM View: Cells3&4_AppIII_intrawell

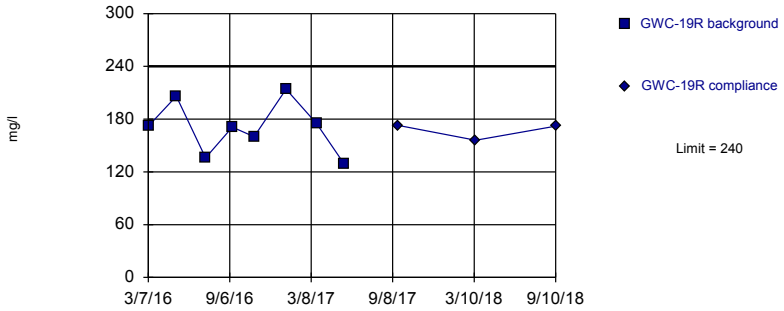
Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-16R	GWC-16R	GWC-17R	GWC-17R	GWC-18	GWC-18	GWC-18R	GWC-18R
3/3/2016	306 (D)							
3/4/2016			348 (D)					
3/7/2016					100 (D)		167 (D)	
5/5/2016					63 (D)		119 (D)	
5/10/2016	275 (D)		342 (D)					
7/13/2016	234 (D)				63 (D)		135 (D)	
7/14/2016			335 (D)					
9/12/2016							129 (D)	
9/13/2016					81 (D)			
9/14/2016			335 (D)					
9/15/2016	259 (D)							
10/31/2016					40 (D)			
11/1/2016			296 (D)				121 (D)	
11/2/2016	260 (D)							
1/11/2017	306		376				177	
1/12/2017					92			
3/20/2017	304						149	
3/21/2017			346					
3/23/2017					116			
5/22/2017							119	
5/23/2017	297		320		107			
9/21/2017		307						166
9/22/2017				337				
9/25/2017						110		
3/14/2018		312		323		115		139
9/7/2018		298						149
9/11/2018				317		102		

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=170.4, Std. Dev.=29.76, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9383, critical = 0.749. Kappa = 2.256 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Total Dissolved Solids Analysis Run 12/4/2018 9:05 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

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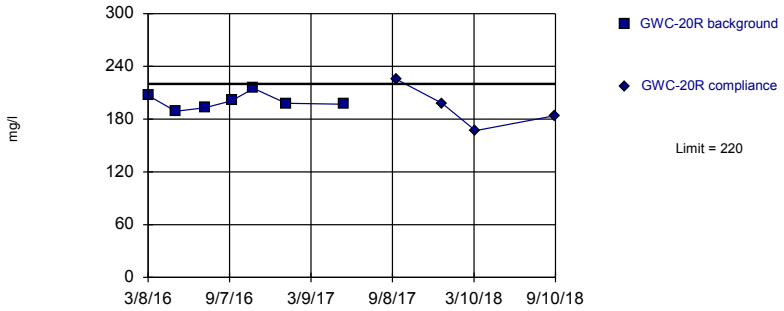
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=200, Std. Dev.=8.737, n=7. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9638, critical = 0.73. Kappa = 2.527 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Total Dissolved Solids Analysis Run 12/4/2018 9:05 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

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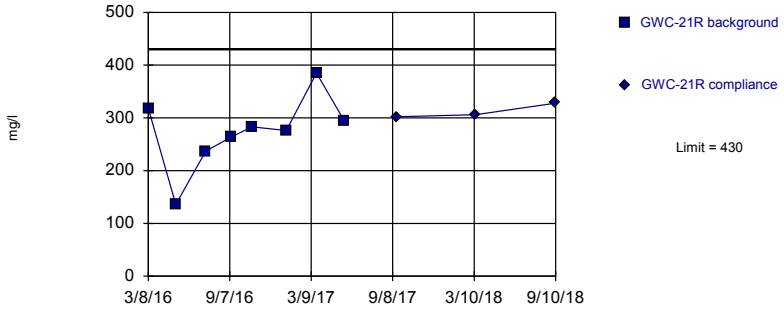
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=274, Std. Dev.=70.99, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9402, critical = 0.749. Kappa = 2.256 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Total Dissolved Solids Analysis Run 12/4/2018 9:05 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

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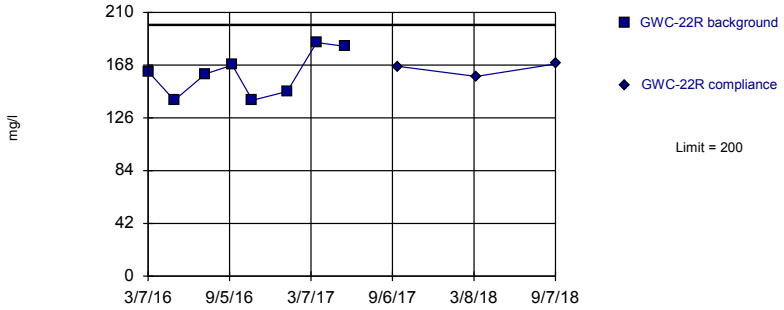
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=161, Std. Dev.=17.89, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9128, critical = 0.749. Kappa = 2.256 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Total Dissolved Solids Analysis Run 12/4/2018 9:05 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Prediction Limit

Constituent: Total Dissolved Solids Analysis Run 12/4/2018 9:14 AM View: Cells3&4_AppIII_intrawell

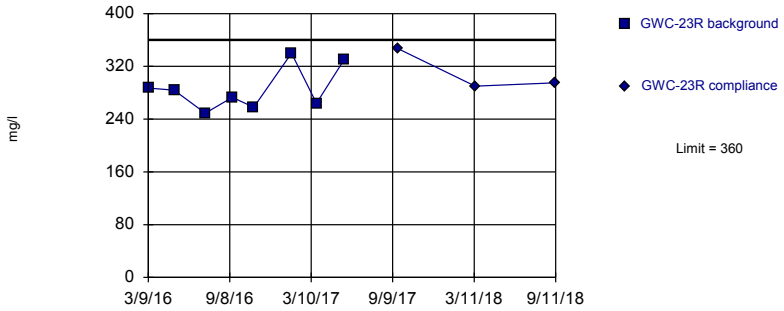
Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-19R	GWC-19R	GWC-20R	GWC-20R	GWC-21R	GWC-21R	GWC-22R	GWC-22R
3/7/2016	172 (D)						163 (D)	
3/8/2016			207 (D)		318 (D)			
5/5/2016							140 (D)	
5/9/2016	206 (D)		189 (D)		136 (D)			
7/14/2016	136 (D)		193 (D)				161 (D)	
7/15/2016					237 (D)			
9/9/2016					263 (D)			
9/12/2016	171 (D)		201 (D)				168 (D)	
10/27/2016					283 (D)		140 (D)	
10/31/2016	160 (D)		215 (D)					
1/11/2017	214							
1/12/2017			198		276			
1/13/2017							147 (J)	
3/20/2017							186	
3/21/2017	175 (J)				385			
5/22/2017	129		197					
5/23/2017					294		183	
9/19/2017				225		302		167
9/20/2017		173						
12/29/2017				198 (Y)				
3/13/2018								159
3/14/2018		156		167		306		
9/7/2018								169
9/10/2018		172		184		328		

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=285.8, Std. Dev.=33.28, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8844, critical = 0.749. Kappa = 2.256 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Total Dissolved Solids Analysis Run 12/4/2018 9:05 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

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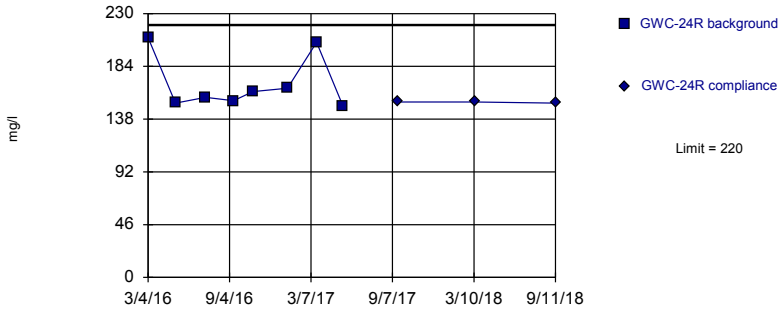
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=169.1, Std. Dev.=23.96, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7604, critical = 0.749. Kappa = 2.256 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Total Dissolved Solids Analysis Run 12/4/2018 9:05 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

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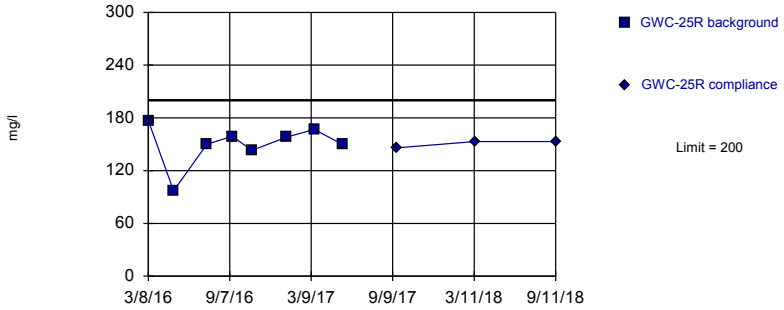
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=150.1, Std. Dev.=23.97, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8374, critical = 0.749. Kappa = 2.256 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Total Dissolved Solids Analysis Run 12/4/2018 9:05 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

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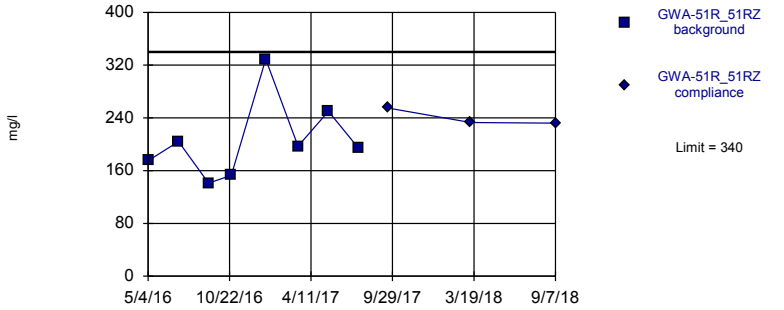
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=205.5, Std. Dev.=60.08, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8863, critical = 0.749. Kappa = 2.256 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Total Dissolved Solids Analysis Run 12/4/2018 9:05 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

Prediction Limit

Constituent: Total Dissolved Solids Analysis Run 12/4/2018 9:14 AM View: Cells3&4_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 3&4 CCR

	GWC-23R	GWC-23R	GWC-24R	GWC-24R	GWC-25R	GWC-25R	GWA-51R_51RZ	GWA-51R_51RZ
3/4/2016			209 (D)					
3/8/2016					177 (D)			
3/9/2016	287 (D)							
5/4/2016					97 (D)		175 (D)	
5/5/2016			152 (D)					
5/6/2016	284 (D)							
7/7/2016							204 (D)	
7/12/2016			157 (D)					
7/15/2016	249 (D)							
7/18/2016					150 (D)			
9/8/2016							141 (D)	
9/13/2016			154 (D)		159 (D)			
9/14/2016	273 (D)							
10/26/2016							153 (D)	
10/27/2016			162 (D)		143 (D)			
11/1/2016	258 (D)							
1/6/2017							329 (D)	
1/13/2017			165		158			
1/25/2017	340							
3/15/2017							197 (D)	
3/16/2017					167			
3/20/2017			205 (J)					
3/22/2017	264							
5/18/2017							250 (D)	
5/19/2017			149		150			
5/24/2017	331							
7/19/2017							195 (D)	
9/19/2017				153		146		255 (D)
9/21/2017		347						
3/13/2018				153		153		233
3/14/2018		290						
9/7/2018								232
9/11/2018		295		152		153		

Interwell Prediction Limit

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR Printed 12/7/2018, 10:23 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Zinc (mg/L)	**GWC-47**	**0.016**	**n/a**	**9/13/2018**	**0.031**	**Yes**	**77**	**64.94**	**n/a**	**0.000...**	NP (NDs) 1 of 2

Interwell Prediction Limit

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR Printed 12/7/2018, 10:23 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Antimony (mg/L)	GWC-44	0.0078	n/a	9/12/2018	0.0015ND	No	88	71.59	n/a	0.000...	NP (NDs) 1 of 2
Antimony (mg/L)	GWC-45	0.0078	n/a	9/13/2018	0.0029	No	88	71.59	n/a	0.000...	NP (NDs) 1 of 2
Antimony (mg/L)	GWC-45R	0.0078	n/a	9/13/2018	0.0015ND	No	88	71.59	n/a	0.000...	NP (NDs) 1 of 2
Antimony (mg/L)	GWC-46R	0.0078	n/a	9/13/2018	0.0015ND	No	88	71.59	n/a	0.000...	NP (NDs) 1 of 2
Antimony (mg/L)	GWC-47	0.0078	n/a	9/13/2018	0.0015ND	No	88	71.59	n/a	0.000...	NP (NDs) 1 of 2
Antimony (mg/L)	GWC-47R	0.0078	n/a	9/13/2018	0.0015ND	No	88	71.59	n/a	0.000...	NP (NDs) 1 of 2
Antimony (mg/L)	GWC-48	0.0078	n/a	9/13/2018	0.0015ND	No	88	71.59	n/a	0.000...	NP (NDs) 1 of 2
Antimony (mg/L)	GWC-49R	0.0078	n/a	9/13/2018	0.0015ND	No	88	71.59	n/a	0.000...	NP (NDs) 1 of 2
Antimony (mg/L)	GWC-49Z	0.0078	n/a	9/14/2018	0.00083	No	88	71.59	n/a	0.000...	NP (NDs) 1 of 2
Arsenic (mg/L)	GWC-44	0.0025	n/a	9/12/2018	0.0025ND	No	88	87.5	n/a	0.000...	NP (NDs) 1 of 2
Arsenic (mg/L)	GWC-45	0.0025	n/a	9/13/2018	0.0025ND	No	88	87.5	n/a	0.000...	NP (NDs) 1 of 2
Arsenic (mg/L)	GWC-45R	0.0025	n/a	9/13/2018	0.0025ND	No	88	87.5	n/a	0.000...	NP (NDs) 1 of 2
Arsenic (mg/L)	GWC-46R	0.0025	n/a	9/13/2018	0.0025ND	No	88	87.5	n/a	0.000...	NP (NDs) 1 of 2
Arsenic (mg/L)	GWC-47	0.0025	n/a	9/13/2018	0.0025ND	No	88	87.5	n/a	0.000...	NP (NDs) 1 of 2
Arsenic (mg/L)	GWC-47R	0.0025	n/a	9/13/2018	0.00091	No	88	87.5	n/a	0.000...	NP (NDs) 1 of 2
Arsenic (mg/L)	GWC-48	0.0025	n/a	9/13/2018	0.0025ND	No	88	87.5	n/a	0.000...	NP (NDs) 1 of 2
Arsenic (mg/L)	GWC-49R	0.0025	n/a	9/13/2018	0.0025ND	No	88	87.5	n/a	0.000...	NP (NDs) 1 of 2
Arsenic (mg/L)	GWC-49Z	0.0025	n/a	9/14/2018	0.0025ND	No	88	87.5	n/a	0.000...	NP (NDs) 1 of 2
Barium (mg/L)	GWC-44	1.5	n/a	9/12/2018	0.032	No	88	3.409	n/a	0.000...	NP (normality) 1 of 2
Barium (mg/L)	GWC-45	1.5	n/a	9/13/2018	0.0057	No	88	3.409	n/a	0.000...	NP (normality) 1 of 2
Barium (mg/L)	GWC-45R	1.5	n/a	9/13/2018	0.022	No	88	3.409	n/a	0.000...	NP (normality) 1 of 2
Barium (mg/L)	GWC-46R	1.5	n/a	9/13/2018	0.014	No	88	3.409	n/a	0.000...	NP (normality) 1 of 2
Barium (mg/L)	GWC-47	1.5	n/a	9/13/2018	0.011	No	88	3.409	n/a	0.000...	NP (normality) 1 of 2
Barium (mg/L)	GWC-47R	1.5	n/a	9/13/2018	0.0092	No	88	3.409	n/a	0.000...	NP (normality) 1 of 2
Barium (mg/L)	GWC-48	1.5	n/a	9/13/2018	0.026	No	88	3.409	n/a	0.000...	NP (normality) 1 of 2
Barium (mg/L)	GWC-49R	1.5	n/a	9/13/2018	0.01	No	88	3.409	n/a	0.000...	NP (normality) 1 of 2
Barium (mg/L)	GWC-49Z	1.5	n/a	9/14/2018	0.004	No	88	3.409	n/a	0.000...	NP (normality) 1 of 2
Beryllium (mg/L)	GWC-44	0.0025	n/a	9/12/2018	0.0015ND	No	88	87.5	n/a	0.000...	NP (NDs) 1 of 2
Beryllium (mg/L)	GWC-45	0.0025	n/a	9/13/2018	0.0015ND	No	88	87.5	n/a	0.000...	NP (NDs) 1 of 2
Beryllium (mg/L)	GWC-45R	0.0025	n/a	9/13/2018	0.0015ND	No	88	87.5	n/a	0.000...	NP (NDs) 1 of 2
Beryllium (mg/L)	GWC-46R	0.0025	n/a	9/13/2018	0.0015ND	No	88	87.5	n/a	0.000...	NP (NDs) 1 of 2
Beryllium (mg/L)	GWC-47	0.0025	n/a	9/13/2018	0.0015ND	No	88	87.5	n/a	0.000...	NP (NDs) 1 of 2
Beryllium (mg/L)	GWC-47R	0.0025	n/a	9/13/2018	0.0015ND	No	88	87.5	n/a	0.000...	NP (NDs) 1 of 2
Beryllium (mg/L)	GWC-48	0.0025	n/a	9/13/2018	0.00026	No	88	87.5	n/a	0.000...	NP (NDs) 1 of 2
Beryllium (mg/L)	GWC-49R	0.0025	n/a	9/13/2018	0.0015ND	No	88	87.5	n/a	0.000...	NP (NDs) 1 of 2
Beryllium (mg/L)	GWC-49Z	0.0025	n/a	9/14/2018	0.0015ND	No	88	87.5	n/a	0.000...	NP (NDs) 1 of 2
Cadmium (mg/L)	GWC-44	0.050	n/a	9/12/2018	0.0005ND	No	88	84.09	n/a	0.000...	NP (NDs) 1 of 2
Cadmium (mg/L)	GWC-45	0.050	n/a	9/13/2018	0.0005ND	No	88	84.09	n/a	0.000...	NP (NDs) 1 of 2
Cadmium (mg/L)	GWC-45R	0.050	n/a	9/13/2018	0.0005ND	No	88	84.09	n/a	0.000...	NP (NDs) 1 of 2
Cadmium (mg/L)	GWC-46R	0.050	n/a	9/13/2018	0.0005ND	No	88	84.09	n/a	0.000...	NP (NDs) 1 of 2
Cadmium (mg/L)	GWC-47	0.050	n/a	9/13/2018	0.0005ND	No	88	84.09	n/a	0.000...	NP (NDs) 1 of 2
Cadmium (mg/L)	GWC-47R	0.050	n/a	9/13/2018	0.0005ND	No	88	84.09	n/a	0.000...	NP (NDs) 1 of 2
Cadmium (mg/L)	GWC-48	0.050	n/a	9/13/2018	0.00012	No	88	84.09	n/a	0.000...	NP (NDs) 1 of 2
Cadmium (mg/L)	GWC-49R	0.050	n/a	9/13/2018	0.0005ND	No	88	84.09	n/a	0.000...	NP (NDs) 1 of 2
Cadmium (mg/L)	GWC-49Z	0.050	n/a	9/14/2018	0.0005ND	No	88	84.09	n/a	0.000...	NP (NDs) 1 of 2
Chromium (mg/L)	GWC-44	0.050	n/a	9/12/2018	0.005ND	No	88	81.82	n/a	0.000...	NP (NDs) 1 of 2
Chromium (mg/L)	GWC-45	0.050	n/a	9/13/2018	0.005ND	No	88	81.82	n/a	0.000...	NP (NDs) 1 of 2
Chromium (mg/L)	GWC-45R	0.050	n/a	9/13/2018	0.005ND	No	88	81.82	n/a	0.000...	NP (NDs) 1 of 2
Chromium (mg/L)	GWC-46R	0.050	n/a	9/13/2018	0.0041	No	88	81.82	n/a	0.000...	NP (NDs) 1 of 2
Chromium (mg/L)	GWC-47	0.050	n/a	9/13/2018	0.005ND	No	88	81.82	n/a	0.000...	NP (NDs) 1 of 2

Interwell Prediction Limit

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR Printed 12/7/2018, 10:23 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Chromium (mg/L)	GWC-47R	0.050	n/a	9/13/2018	0.0017	No	88	81.82	n/a	0.000...	NP (NDs) 1 of 2
Chromium (mg/L)	GWC-48	0.050	n/a	9/13/2018	0.005ND	No	88	81.82	n/a	0.000...	NP (NDs) 1 of 2
Chromium (mg/L)	GWC-49R	0.050	n/a	9/13/2018	0.005ND	No	88	81.82	n/a	0.000...	NP (NDs) 1 of 2
Chromium (mg/L)	GWC-49Z	0.050	n/a	9/14/2018	0.005ND	No	88	81.82	n/a	0.000...	NP (NDs) 1 of 2
Cobalt (mg/L)	GWC-44	0.011	n/a	9/12/2018	0.0016	No	88	80.68	n/a	0.000...	NP (NDs) 1 of 2
Cobalt (mg/L)	GWC-45	0.011	n/a	9/13/2018	0.001	No	88	80.68	n/a	0.000...	NP (NDs) 1 of 2
Cobalt (mg/L)	GWC-45R	0.011	n/a	9/13/2018	0.005ND	No	88	80.68	n/a	0.000...	NP (NDs) 1 of 2
Lead (mg/L)	GWC-45	0.013	n/a	9/13/2018	0.0025ND	No	88	80.68	n/a	0.000...	NP (NDs) 1 of 2
Lead (mg/L)	GWC-45R	0.013	n/a	9/13/2018	0.0025ND	No	88	80.68	n/a	0.000...	NP (NDs) 1 of 2
Lead (mg/L)	GWC-46R	0.013	n/a	9/13/2018	0.0025ND	No	88	80.68	n/a	0.000...	NP (NDs) 1 of 2
Lead (mg/L)	GWC-47	0.013	n/a	9/13/2018	0.0025ND	No	88	80.68	n/a	0.000...	NP (NDs) 1 of 2
Lead (mg/L)	GWC-47R	0.013	n/a	9/13/2018	0.0025ND	No	88	80.68	n/a	0.000...	NP (NDs) 1 of 2
Lead (mg/L)	GWC-48	0.013	n/a	9/13/2018	0.0025ND	No	88	80.68	n/a	0.000...	NP (NDs) 1 of 2
Lead (mg/L)	GWC-49R	0.013	n/a	9/13/2018	0.0025ND	No	88	80.68	n/a	0.000...	NP (NDs) 1 of 2
Lead (mg/L)	GWC-49Z	0.013	n/a	9/14/2018	0.0025ND	No	88	80.68	n/a	0.000...	NP (NDs) 1 of 2
Mercury (mg/L)	GWC-44	0.025	n/a	9/12/2018	0.00025ND	No	88	95.45	n/a	0.000...	NP (NDs) 1 of 2
Mercury (mg/L)	GWC-45	0.025	n/a	9/13/2018	0.00025ND	No	88	95.45	n/a	0.000...	NP (NDs) 1 of 2
Mercury (mg/L)	GWC-45R	0.025	n/a	9/13/2018	0.00025ND	No	88	95.45	n/a	0.000...	NP (NDs) 1 of 2
Mercury (mg/L)	GWC-46R	0.025	n/a	9/13/2018	0.00025ND	No	88	95.45	n/a	0.000...	NP (NDs) 1 of 2
Mercury (mg/L)	GWC-47	0.025	n/a	9/13/2018	0.00025ND	No	88	95.45	n/a	0.000...	NP (NDs) 1 of 2
Mercury (mg/L)	GWC-47R	0.025	n/a	9/13/2018	0.00025ND	No	88	95.45	n/a	0.000...	NP (NDs) 1 of 2
Mercury (mg/L)	GWC-48	0.025	n/a	9/13/2018	0.000062	No	88	95.45	n/a	0.000...	NP (NDs) 1 of 2
Mercury (mg/L)	GWC-49R	0.025	n/a	9/13/2018	0.00025ND	No	88	95.45	n/a	0.000...	NP (NDs) 1 of 2
Selenium (mg/L)	GWC-48	0.0050	n/a	9/13/2018	0.005ND	No	88	98.86	n/a	0.000...	NP (NDs) 1 of 2
Selenium (mg/L)	GWC-49R	0.0050	n/a	9/13/2018	0.005ND	No	88	98.86	n/a	0.000...	NP (NDs) 1 of 2
Selenium (mg/L)	GWC-49Z	0.0050	n/a	9/14/2018	0.005ND	No	88	98.86	n/a	0.000...	NP (NDs) 1 of 2
Silver (mg/L)	GWC-44	0.0050	n/a	9/12/2018	0.005ND	No	77	98.7	n/a	0.000...	NP (NDs) 1 of 2
Silver (mg/L)	GWC-45	0.0050	n/a	9/13/2018	0.005ND	No	77	98.7	n/a	0.000...	NP (NDs) 1 of 2
Silver (mg/L)	GWC-45R	0.0050	n/a	9/13/2018	0.005ND	No	77	98.7	n/a	0.000...	NP (NDs) 1 of 2
Silver (mg/L)	GWC-46R	0.0050	n/a	9/13/2018	0.005ND	No	77	98.7	n/a	0.000...	NP (NDs) 1 of 2
Silver (mg/L)	GWC-47	0.0050	n/a	9/13/2018	0.005ND	No	77	98.7	n/a	0.000...	NP (NDs) 1 of 2
Silver (mg/L)	GWC-47R	0.0050	n/a	9/13/2018	0.005ND	No	77	98.7	n/a	0.000...	NP (NDs) 1 of 2
Silver (mg/L)	GWC-48	0.0050	n/a	9/13/2018	0.005ND	No	77	98.7	n/a	0.000...	NP (NDs) 1 of 2
Silver (mg/L)	GWC-49R	0.0050	n/a	9/13/2018	0.005ND	No	77	98.7	n/a	0.000...	NP (NDs) 1 of 2
Silver (mg/L)	GWC-49Z	0.0050	n/a	9/14/2018	0.005ND	No	77	98.7	n/a	0.000...	NP (NDs) 1 of 2
Thallium (mg/L)	GWC-44	0.0050	n/a	9/12/2018	0.0005ND	No	88	93.18	n/a	0.000...	NP (NDs) 1 of 2
Thallium (mg/L)	GWC-45	0.0050	n/a	9/13/2018	0.0005ND	No	88	93.18	n/a	0.000...	NP (NDs) 1 of 2
Thallium (mg/L)	GWC-45R	0.0050	n/a	9/13/2018	0.0005ND	No	88	93.18	n/a	0.000...	NP (NDs) 1 of 2
Thallium (mg/L)	GWC-46R	0.0050	n/a	9/13/2018	0.0005ND	No	88	93.18	n/a	0.000...	NP (NDs) 1 of 2
Zinc (mg/L)	GWC-45R	0.016	n/a	9/13/2018	0.005ND	No	77	64.94	n/a	0.000...	NP (NDs) 1 of 2
Zinc (mg/L)	GWC-46R	0.016	n/a	9/13/2018	0.005ND	No	77	64.94	n/a	0.000...	NP (NDs) 1 of 2
Zinc (mg/L)	**GWC-47**	**0.016**	**n/a**	**9/13/2018**	**0.031**	**Yes**	**77**	**64.94**	**n/a**	**0.000...**	NP (NDs) 1 of 2
Zinc (mg/L)	GWC-47R	0.016	n/a	9/13/2018	0.005ND	No	77	64.94	n/a	0.000...	NP (NDs) 1 of 2
Zinc (mg/L)	GWC-48	0.016	n/a	9/13/2018	0.005ND	No	77	64.94	n/a	0.000...	NP (NDs) 1 of 2
Zinc (mg/L)	GWC-49R	0.016	n/a	9/13/2018	0.005ND	No	77	64.94	n/a	0.000...	NP (NDs) 1 of 2
Zinc (mg/L)	GWC-49Z	0.016	n/a	9/14/2018	0.005ND	No	77	64.94	n/a	0.000...	NP (NDs) 1 of 2
Cobalt (mg/L)	GWC-46R	0.011	n/a	9/13/2018	0.005ND	No	88	80.68	n/a	0.000...	NP (NDs) 1 of 2
Cobalt (mg/L)	GWC-47	0.011	n/a	9/13/2018	0.005ND	No	88	80.68	n/a	0.000...	NP (NDs) 1 of 2
Cobalt (mg/L)	GWC-47R	0.011	n/a	9/13/2018	0.005ND	No	88	80.68	n/a	0.000...	NP (NDs) 1 of 2
Cobalt (mg/L)	GWC-48	0.011	n/a	9/13/2018	0.0013	No	88	80.68	n/a	0.000...	NP (NDs) 1 of 2

Interwell Prediction Limit

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR Printed 12/7/2018, 10:23 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Cobalt (mg/L)	GWC-49R	0.011	n/a	9/13/2018	0.005ND	No	88	80.68	n/a	0.000...	NP (NDs) 1 of 2
Cobalt (mg/L)	GWC-49Z	0.011	n/a	9/14/2018	0.0017	No	88	80.68	n/a	0.000...	NP (NDs) 1 of 2
Copper (mg/L)	GWC-44	0.027	n/a	9/12/2018	0.0125ND	No	77	84.42	n/a	0.000...	NP (NDs) 1 of 2
Copper (mg/L)	GWC-45	0.027	n/a	9/13/2018	0.0125ND	No	77	84.42	n/a	0.000...	NP (NDs) 1 of 2
Copper (mg/L)	GWC-45R	0.027	n/a	9/13/2018	0.0125ND	No	77	84.42	n/a	0.000...	NP (NDs) 1 of 2
Copper (mg/L)	GWC-46R	0.027	n/a	9/13/2018	0.0125ND	No	77	84.42	n/a	0.000...	NP (NDs) 1 of 2
Copper (mg/L)	GWC-47	0.027	n/a	9/13/2018	0.0125ND	No	77	84.42	n/a	0.000...	NP (NDs) 1 of 2
Copper (mg/L)	GWC-47R	0.027	n/a	9/13/2018	0.0125ND	No	77	84.42	n/a	0.000...	NP (NDs) 1 of 2
Copper (mg/L)	GWC-48	0.027	n/a	9/13/2018	0.0125ND	No	77	84.42	n/a	0.000...	NP (NDs) 1 of 2
Copper (mg/L)	GWC-49R	0.027	n/a	9/13/2018	0.0125ND	No	77	84.42	n/a	0.000...	NP (NDs) 1 of 2
Copper (mg/L)	GWC-49Z	0.027	n/a	9/14/2018	0.0125ND	No	77	84.42	n/a	0.000...	NP (NDs) 1 of 2
Lead (mg/L)	GWC-44	0.013	n/a	9/12/2018	0.00037	No	88	80.68	n/a	0.000...	NP (NDs) 1 of 2
Mercury (mg/L)	GWC-49Z	0.025	n/a	9/14/2018	0.00025ND	No	88	95.45	n/a	0.000...	NP (NDs) 1 of 2
Nickel (mg/L)	GWC-44	0.022	n/a	9/12/2018	0.005ND	No	77	55.84	n/a	0.000...	NP (NDs) 1 of 2
Nickel (mg/L)	GWC-45	0.022	n/a	9/13/2018	0.001	No	77	55.84	n/a	0.000...	NP (NDs) 1 of 2
Nickel (mg/L)	GWC-45R	0.022	n/a	9/13/2018	0.005ND	No	77	55.84	n/a	0.000...	NP (NDs) 1 of 2
Nickel (mg/L)	GWC-46R	0.022	n/a	9/13/2018	0.005ND	No	77	55.84	n/a	0.000...	NP (NDs) 1 of 2
Nickel (mg/L)	GWC-47	0.022	n/a	9/13/2018	0.005ND	No	77	55.84	n/a	0.000...	NP (NDs) 1 of 2
Nickel (mg/L)	GWC-47R	0.022	n/a	9/13/2018	0.005ND	No	77	55.84	n/a	0.000...	NP (NDs) 1 of 2
Nickel (mg/L)	GWC-48	0.022	n/a	9/13/2018	0.0038	No	77	55.84	n/a	0.000...	NP (NDs) 1 of 2
Nickel (mg/L)	GWC-49R	0.022	n/a	9/13/2018	0.005ND	No	77	55.84	n/a	0.000...	NP (NDs) 1 of 2
Nickel (mg/L)	GWC-49Z	0.022	n/a	9/14/2018	0.0024	No	77	55.84	n/a	0.000...	NP (NDs) 1 of 2
Selenium (mg/L)	GWC-44	0.0050	n/a	9/12/2018	0.005ND	No	88	98.86	n/a	0.000...	NP (NDs) 1 of 2
Selenium (mg/L)	GWC-45	0.0050	n/a	9/13/2018	0.005ND	No	88	98.86	n/a	0.000...	NP (NDs) 1 of 2
Selenium (mg/L)	GWC-45R	0.0050	n/a	9/13/2018	0.005ND	No	88	98.86	n/a	0.000...	NP (NDs) 1 of 2
Selenium (mg/L)	GWC-46R	0.0050	n/a	9/13/2018	0.005ND	No	88	98.86	n/a	0.000...	NP (NDs) 1 of 2
Selenium (mg/L)	GWC-47	0.0050	n/a	9/13/2018	0.005ND	No	88	98.86	n/a	0.000...	NP (NDs) 1 of 2
Selenium (mg/L)	GWC-47R	0.0050	n/a	9/13/2018	0.005ND	No	88	98.86	n/a	0.000...	NP (NDs) 1 of 2
Thallium (mg/L)	GWC-47	0.0050	n/a	9/13/2018	0.0005ND	No	88	93.18	n/a	0.000...	NP (NDs) 1 of 2
Thallium (mg/L)	GWC-47R	0.0050	n/a	9/13/2018	0.00021	No	88	93.18	n/a	0.000...	NP (NDs) 1 of 2
Thallium (mg/L)	GWC-48	0.0050	n/a	9/13/2018	0.0005ND	No	88	93.18	n/a	0.000...	NP (NDs) 1 of 2
Thallium (mg/L)	GWC-49R	0.0050	n/a	9/13/2018	0.0005ND	No	88	93.18	n/a	0.000...	NP (NDs) 1 of 2
Thallium (mg/L)	GWC-49Z	0.0050	n/a	9/14/2018	0.0005ND	No	88	93.18	n/a	0.000...	NP (NDs) 1 of 2
Vanadium (mg/L)	GWC-44	0.0050	n/a	9/12/2018	0.005ND	No	77	96.1	n/a	0.000...	NP (NDs) 1 of 2
Vanadium (mg/L)	GWC-45	0.0050	n/a	9/13/2018	0.005ND	No	77	96.1	n/a	0.000...	NP (NDs) 1 of 2
Vanadium (mg/L)	GWC-45R	0.0050	n/a	9/13/2018	0.005ND	No	77	96.1	n/a	0.000...	NP (NDs) 1 of 2
Vanadium (mg/L)	GWC-46R	0.0050	n/a	9/13/2018	0.005ND	No	77	96.1	n/a	0.000...	NP (NDs) 1 of 2
Vanadium (mg/L)	GWC-47	0.0050	n/a	9/13/2018	0.005ND	No	77	96.1	n/a	0.000...	NP (NDs) 1 of 2
Vanadium (mg/L)	GWC-47R	0.0050	n/a	9/13/2018	0.005ND	No	77	96.1	n/a	0.000...	NP (NDs) 1 of 2
Vanadium (mg/L)	GWC-48	0.0050	n/a	9/13/2018	0.005ND	No	77	96.1	n/a	0.000...	NP (NDs) 1 of 2
Vanadium (mg/L)	GWC-49R	0.0050	n/a	9/13/2018	0.005ND	No	77	96.1	n/a	0.000...	NP (NDs) 1 of 2
Vanadium (mg/L)	GWC-49Z	0.0050	n/a	9/14/2018	0.005ND	No	77	96.1	n/a	0.000...	NP (NDs) 1 of 2
Zinc (mg/L)	GWC-44	0.016	n/a	9/12/2018	0.005ND	No	77	64.94	n/a	0.000...	NP (NDs) 1 of 2
Zinc (mg/L)	GWC-45	0.016	n/a	9/13/2018	0.005ND	No	77	64.94	n/a	0.000...	NP (NDs) 1 of 2

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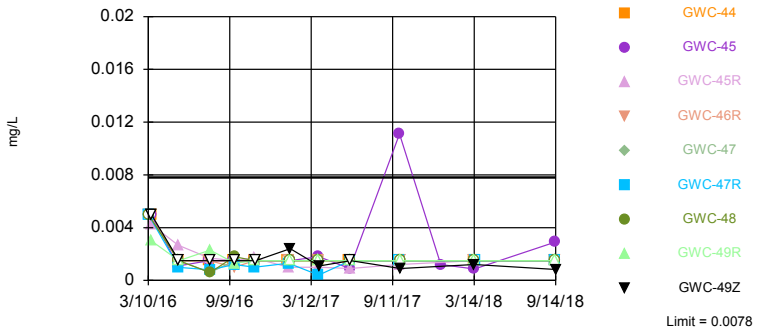
Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 88 background values. 71.59% NDs. Annual per-constituent alpha = 0.004468. Individual comparison alpha = 0.0002487 (1 of 2). Comparing 9 points to limit.

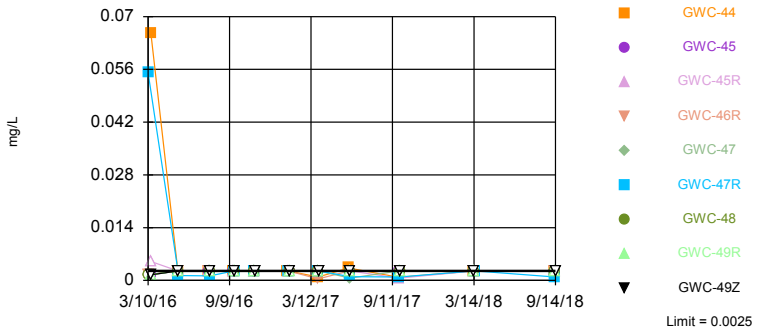
Constituent: Antimony Analysis Run 12/7/2018 10:19 AM View: cell 9&10 OB&BR metals
Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

Sanitas™ v.9.5.32 Sanitas software licensed to AMEC. UG
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 88 background values. 87.5% NDs. Annual per-constituent alpha = 0.004468. Individual comparison alpha = 0.0002487 (1 of 2). Comparing 9 points to limit.

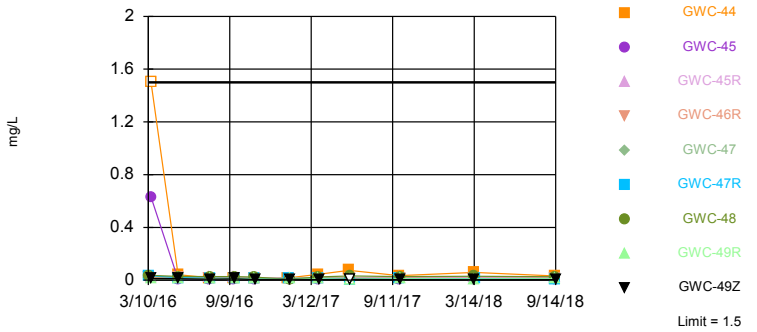
Constituent: Arsenic Analysis Run 12/7/2018 10:19 AM View: cell 9&10 OB&BR metals
Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

Sanitas™ v.9.5.32 Sanitas software licensed to AMEC. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 88 background values. 3.409% NDs. Annual per-constituent alpha = 0.004468. Individual comparison alpha = 0.0002487 (1 of 2). Comparing 9 points to limit.

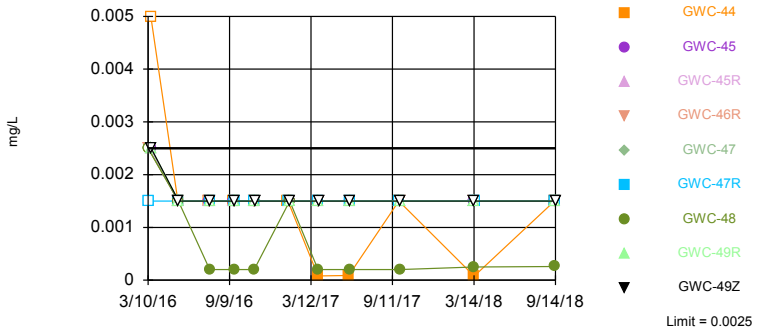
Constituent: Barium Analysis Run 12/7/2018 10:19 AM View: cell 9&10 OB&BR metals
Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

Sanitas™ v.9.5.32 Sanitas software licensed to AMEC. UG
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 88 background values. 87.5% NDs. Annual per-constituent alpha = 0.004468. Individual comparison alpha = 0.0002487 (1 of 2). Comparing 9 points to limit.

Constituent: Beryllium Analysis Run 12/7/2018 10:20 AM View: cell 9&10 OB&BR metals
Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 12/7/2018 10:23 AM View: cell 9&10 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWC-46R	GWC-47	GWC-47R	GWC-48	GWA-43 (bg)	GWA-42 (bg)	GWA-43R (bg)	GWA-39Z (bg)	GWA-40 (bg)
3/10/2016	<0.01	<0.01	<0.01	<0.01					
3/11/2016					<0.01	<0.01	<0.001		
3/14/2016								0.003	
3/15/2016									<0.01
3/16/2016									
3/17/2016									
5/11/2016								0.000839 (J)	<0.003
5/12/2016									
5/13/2016					<0.003		<0.003		
5/16/2016						<0.003			
5/17/2016	<0.003			<0.003					
5/18/2016		<0.003	0.000987 (J)						
7/19/2016					<0.003 (*)		<0.003	0.0024 (J)	
7/20/2016									
7/21/2016									<0.003
7/22/2016						0.002 (J)			
7/25/2016									
7/26/2016	<0.003								
7/27/2016		0.0006 (J)	0.0008 (J)	0.0006 (J)					
7/28/2016									
9/15/2016								0.0009 (J)	<0.003
9/16/2016					<0.003		<0.003		
9/19/2016						<0.003			
9/20/2016	0.001 (J)	<0.003	0.0012 (J)	0.0018 (J)					
9/21/2016									
11/2/2016					<0.003		<0.003	0.001 (J)	
11/3/2016						<0.003			0.0021 (J)
11/4/2016	<0.003		0.001 (J)	<0.003					
11/7/2016		<0.003							
1/17/2017						<0.003			<0.003
1/18/2017					<0.003		0.0013 (J)	0.0017 (J)	
1/19/2017									
1/20/2017	<0.003		0.0013 (J)						
1/23/2017		<0.003		<0.003					
1/24/2017									
2/21/2017									
3/24/2017									<0.003
3/27/2017						<0.003			
3/28/2017	<0.003			<0.003	<0.003		<0.003	0.0006 (J)	
3/29/2017		<0.003	0.0004 (J)						
3/30/2017									
5/24/2017									<0.003
6/5/2017									
6/6/2017					<0.003		0.0007 (J)		
6/7/2017	<0.003					<0.003		0.0003 (J)	
6/8/2017		<0.003	<0.003 (*)	<0.003 (*)					
6/9/2017									
7/17/2017									
7/27/2017									
8/9/2017									
9/22/2017					<0.003		0.0012 (J)		
9/25/2017									

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 12/7/2018 10:23 AM View: cell 9&10 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWC-46R	GWC-47	GWC-47R	GWC-48	GWA-43 (bg)	GWA-42 (bg)	GWA-43R (bg)	GWA-39Z (bg)	GWA-40 (bg)
9/26/2017						<0.003		<0.003	<0.003
9/27/2017		<0.003	<0.003						
9/29/2017	<0.003			<0.003					
12/29/2017									
3/14/2018					<0.003	<0.003		<0.003	<0.003
3/15/2018	<0.003	<0.003		<0.003			<0.003		
3/16/2018			<0.003						
9/12/2018					<0.003		<0.003	<0.003	<0.003
9/13/2018	<0.003	<0.003	<0.003	<0.003					
9/14/2018						<0.003			

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 12/7/2018 10:23 AM View: cell 9&10 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWA-41R (bg)	GWA-41 (bg)	GWC-45	GWC-45R	GWC-44	GWC-49R	GWC-49Z	GWA-39R_39RZ ...
3/10/2016								
3/11/2016								
3/14/2016								
3/15/2016	<0.01	<0.01						
3/16/2016			<0.01	0.00426	<0.01			
3/17/2016						0.003	<0.01	
5/11/2016								
5/12/2016		<0.003						
5/13/2016	<0.003							
5/16/2016			0.00109 (J)	0.00267 (J)	<0.003			<0.003 (D)
5/17/2016								
5/18/2016						<0.003	<0.003	
7/19/2016								
7/20/2016		<0.003						
7/21/2016	<0.003 (*)							
7/22/2016								
7/25/2016			<0.003 (*)	0.0017 (J)	<0.003 (*)			
7/26/2016								
7/27/2016						0.0023 (J)		0.0003 (JD)
7/28/2016							<0.003	
9/15/2016		<0.003						
9/16/2016								
9/19/2016			<0.003	<0.003	<0.003			
9/20/2016								
9/21/2016	<0.003					0.0013 (J)	<0.003	
11/2/2016								
11/3/2016	<0.003	<0.003		0.0017 (J)	<0.003			
11/4/2016			<0.003			<0.003		
11/7/2016							<0.003 (*)	
1/17/2017	<0.003							
1/18/2017		<0.003						
1/19/2017					<0.003			
1/20/2017				0.001 (J)				
1/23/2017			<0.003					
1/24/2017						<0.003	0.0024 (J)	
2/21/2017								0.0057
3/24/2017		<0.003						
3/27/2017	0.0008 (J)							0.0013 (JD)
3/28/2017					<0.003			
3/29/2017			0.0018 (J)	0.001 (J)		<0.003		
3/30/2017							0.0011 (J)	
5/24/2017								
6/5/2017					<0.003			
6/6/2017	<0.003	<0.003						
6/7/2017			0.0009 (J)	0.0009 (J)				
6/8/2017						<0.003 (*)		<0.0035 (*)
6/9/2017							<0.003 (*)	
7/17/2017								0.005 (D)
7/27/2017								0.0033
8/9/2017								0.0012 (J)
9/22/2017								
9/25/2017	0.0035	<0.003						

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 12/7/2018 10:24 AM View: cell 9&10 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWA-41R (bg)	GWA-41 (bg)	GWC-45	GWC-45R	GWC-44	GWC-49R	GWC-49Z	GWA-39R_39RZ ...
9/26/2017					<0.003			
9/27/2017			0.0111	0.0012 (J)				
9/29/2017						<0.003	0.0009 (J)	0.0013 (JD)
12/29/2017			0.0012 (Y)					
3/14/2018	<0.003	<0.003						
3/15/2018			0.00086 (J)	<0.003	<0.003	<0.003	0.0012 (J)	
3/16/2018								0.0078
9/12/2018	0.003	<0.003			<0.003			
9/13/2018			0.0029 (J)	<0.003		<0.003		
9/14/2018							0.00083 (J)	0.0056

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 12/7/2018 10:24 AM View: cell 9&10 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWC-46R	GWC-47	GWC-47R	GWC-48	GWA-43 (bg)	GWA-42 (bg)	GWA-43R (bg)	GWA-39Z (bg)	GWA-40 (bg)
3/10/2016	<0.003	<0.003	0.0551 (J)	<0.003					
3/11/2016					<0.003	<0.003	<0.003		
3/14/2016								<0.003	
3/15/2016									<0.003
3/16/2016									
3/17/2016									
5/11/2016								<0.005	<0.005
5/12/2016									
5/13/2016					<0.005		<0.005		
5/16/2016						<0.005			
5/17/2016	<0.005			<0.005					
5/18/2016		<0.005	0.00127 (J)						
7/19/2016					<0.005		<0.005	<0.005	
7/20/2016									
7/21/2016									<0.005
7/22/2016						<0.005			
7/25/2016									
7/26/2016	<0.005								
7/27/2016		<0.005	0.0012 (J)	<0.005					
7/28/2016									
9/15/2016								<0.005	<0.005
9/16/2016					<0.005		<0.005		
9/19/2016						<0.005			
9/20/2016	<0.005	<0.005	<0.005	<0.005					
9/21/2016									
11/2/2016					<0.005		<0.005	<0.005	
11/3/2016						<0.005			<0.005
11/4/2016	<0.005		<0.005	<0.005					
11/7/2016		<0.005							
1/17/2017						<0.005			<0.005
1/18/2017					<0.005		<0.005	<0.005	
1/19/2017									
1/20/2017	<0.005		<0.005						
1/23/2017		<0.005		<0.005					
1/24/2017									
2/21/2017									
3/24/2017									<0.005
3/27/2017						<0.005			
3/28/2017	0.0004 (J)			<0.005	<0.005		0.0005 (J)	0.0007 (J)	
3/29/2017		<0.005	<0.005						
3/30/2017									
5/24/2017									<0.005
6/5/2017									
6/6/2017					<0.005 (*)		<0.005 (*)		
6/7/2017	<0.005 (*)					<0.005 (*)		<0.005	
6/8/2017		0.0006 (J)	0.001 (J)	<0.005					
6/9/2017									
7/17/2017									
7/27/2017									
8/9/2017									
9/22/2017					<0.005		<0.005		
9/25/2017									

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 12/7/2018 10:24 AM View: cell 9&10 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWC-46R	GWC-47	GWC-47R	GWC-48	GWA-43 (bg)	GWA-42 (bg)	GWA-43R (bg)	GWA-39Z (bg)	GWA-40 (bg)
9/26/2017						<0.005		<0.005	0.0005 (J)
9/27/2017		<0.005	0.0009 (J)						
9/29/2017	<0.005			<0.005					
3/14/2018					<0.005	<0.005		<0.005	<0.005
3/15/2018	<0.005	<0.005		<0.005			<0.005		
3/16/2018			<0.005						
9/12/2018					<0.005		<0.005	<0.005	<0.005
9/13/2018	<0.005	<0.005	0.00091 (J)	<0.005					
9/14/2018						<0.005			

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 12/7/2018 10:24 AM View: cell 9&10 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWA-41R (bg)	GWA-41 (bg)	GWC-45	GWC-45R	GWC-44	GWC-49R	GWC-49Z	GWA-39R_39RZ ...
3/10/2016								
3/11/2016								
3/14/2016								
3/15/2016	<0.003	<0.003						
3/16/2016			<0.003	<0.01	0.0657 (J)			
3/17/2016						<0.003	<0.003	
5/11/2016								
5/12/2016		<0.005						
5/13/2016	<0.005							
5/16/2016			<0.005	<0.005	<0.005			<0.005 (D)
5/17/2016								
5/18/2016						<0.005	<0.005	
7/19/2016								
7/20/2016		<0.005						
7/21/2016	0.0012 (J)							
7/22/2016								
7/25/2016			<0.005	<0.005	<0.005			
7/26/2016								
7/27/2016						<0.005		0.0011 (JD)
7/28/2016							<0.005	
9/15/2016		<0.005						
9/16/2016								
9/19/2016			<0.005	<0.005	<0.005			
9/20/2016								
9/21/2016	<0.005					<0.005	<0.005	
11/2/2016								
11/3/2016	<0.005	<0.005		<0.005	<0.005			
11/4/2016			<0.005			<0.005		
11/7/2016							<0.005	
1/17/2017	<0.005							
1/18/2017		<0.005						
1/19/2017					<0.005			
1/20/2017				<0.005				
1/23/2017			<0.005					
1/24/2017						<0.005	<0.005	
2/21/2017								<0.005
3/24/2017		<0.005						
3/27/2017	0.0008 (J)							0.0007 (JD)
3/28/2017					0.0009 (J)			
3/29/2017			<0.005	<0.005		<0.005		
3/30/2017							<0.005	
5/24/2017								
6/5/2017					0.0033 (J)			
6/6/2017	<0.005 (*)	<0.005 (*)						
6/7/2017			<0.005	<0.005 (*)				
6/8/2017						<0.005		0.0007 (JD)
6/9/2017							<0.005	
7/17/2017								0.0005 (JD)
7/27/2017								<0.005
8/9/2017								0.0008 (J)
9/22/2017								
9/25/2017	0.001 (J)	<0.005						

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 12/7/2018 10:24 AM View: cell 9&10 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWA-41R (bg)	GWA-41 (bg)	GWC-45	GWC-45R	GWC-44	GWC-49R	GWC-49Z	GWA-39R_39RZ ...
9/26/2017					0.0008 (J)			
9/27/2017			<0.005	0.0006 (J)				
9/29/2017						<0.005	<0.005	<0.005 (D)
3/14/2018	<0.005	<0.005						
3/15/2018			<0.005	<0.005	<0.005	<0.005	<0.005	
3/16/2018								<0.005
9/12/2018	<0.005	<0.005			<0.005			
9/13/2018			<0.005	<0.005		<0.005		
9/14/2018							<0.005	<0.005

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 12/7/2018 10:24 AM View: cell 9&10 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWC-46R	GWC-47	GWC-47R	GWC-48	GWA-43 (bg)	GWA-42 (bg)	GWA-43R (bg)	GWA-39Z (bg)	GWA-40 (bg)
3/10/2016	0.0209	0.0144	0.0344	0.0361					
3/11/2016					0.0116	0.00639 (J)	0.00819 (J)		
3/14/2016								<3	
3/15/2016									<3
3/16/2016									
3/17/2016									
5/11/2016								0.00793 (J)	0.00992 (J)
5/12/2016									
5/13/2016					0.0361		0.00756 (J)		
5/16/2016						0.00622 (J)			
5/17/2016	0.0202			0.0277					
5/18/2016		0.0136	0.0184						
7/19/2016					0.036		0.0079 (J)	0.0045 (J)	
7/20/2016									
7/21/2016									0.009 (J)
7/22/2016						0.0062 (J)			
7/25/2016									
7/26/2016	0.0165								
7/27/2016		0.013	0.0146	0.0276					
7/28/2016									
9/15/2016								0.0057 (J)	0.0109
9/16/2016					0.0259		0.0078 (J)		
9/19/2016						0.0064 (J)			
9/20/2016	0.0132	0.0146	0.0122	0.0266					
9/21/2016									
11/2/2016					0.037		0.0082 (J)	0.0043 (J)	
11/3/2016						0.0058 (J)			0.0115
11/4/2016	0.012		0.0119	0.0239					
11/7/2016		0.0124							
1/17/2017						0.0061 (J)			0.0101
1/18/2017					0.0248		0.0085 (J)	<0.01 (*)	
1/19/2017									
1/20/2017	0.0133		0.0114						
1/23/2017		0.0158		<0.01					
1/24/2017									
2/21/2017									
3/24/2017									0.0086 (J)
3/27/2017						0.0063 (J)			
3/28/2017	0.0161			0.024	0.0222		0.0084 (J)	0.0188	
3/29/2017		0.017	0.0116						
3/30/2017									
5/24/2017									0.0087 (J)
6/5/2017									
6/6/2017					0.02		0.0078 (J)		
6/7/2017	0.0141					0.0064 (J)		0.0273	
6/8/2017		0.0149	<0.011 (*)	0.0317					
6/9/2017									
7/17/2017									
7/27/2017									
8/9/2017									
9/22/2017					0.0179		0.0076 (J)		
9/25/2017									

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 12/7/2018 10:24 AM View: cell 9&10 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWC-46R	GWC-47	GWC-47R	GWC-48	GWA-43 (bg)	GWA-42 (bg)	GWA-43R (bg)	GWA-39Z (bg)	GWA-40 (bg)
9/26/2017						0.006 (J)		0.0236	0.0075 (J)
9/27/2017		0.012	0.0098 (J)						
9/29/2017	0.0151			0.0265					
3/14/2018					0.016	0.0065 (J)		0.027	0.0064 (J)
3/15/2018	0.015	0.011		0.029			0.0092 (J)		
3/16/2018			0.01						
9/12/2018					0.017		0.008 (J)	0.022	0.0075 (J)
9/13/2018	0.014	0.011	0.0092 (J)	0.026					
9/14/2018						0.0065 (J)			

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 12/7/2018 10:24 AM View: cell 9&10 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWA-41R (bg)	GWA-41 (bg)	GWC-45	GWC-45R	GWC-44	GWC-49R	GWC-49Z	GWA-39R_39RZ ...
3/10/2016								
3/11/2016								
3/14/2016								
3/15/2016	0.0462	0.0291						
3/16/2016			0.6294 (J)	0.0244	<3			
3/17/2016						0.0112	0.0121	
5/11/2016								
5/12/2016		0.0322						
5/13/2016	0.0265							
5/16/2016			0.006 (J)	0.0222	0.0418			0.0113 (D)
5/17/2016								
5/18/2016						0.0107	0.0117	
7/19/2016								
7/20/2016		0.0313						
7/21/2016	0.0243							
7/22/2016								
7/25/2016			0.0056 (J)	0.02	0.0179			
7/26/2016								
7/27/2016						0.0104		0.0114 (D)
7/28/2016							0.0081 (J)	
9/15/2016		0.0217						
9/16/2016								
9/19/2016			0.0059 (J)	0.019	0.0152			
9/20/2016								
9/21/2016	0.0145					0.0106	0.0106	
11/2/2016								
11/3/2016	0.0082 (J)	0.0272		0.0177	0.0127			
11/4/2016			0.0054 (J)			0.0098 (J)		
11/7/2016							0.0047 (J)	
1/17/2017	0.007 (J)							
1/18/2017		0.0286 (J)						
1/19/2017					0.0172			
1/20/2017				0.0173				
1/23/2017			0.006 (J)					
1/24/2017						0.0101	0.0071 (J)	
2/21/2017								0.0178
3/24/2017		0.0307						
3/27/2017	0.016							0.0162 (D)
3/28/2017					0.0437			
3/29/2017			0.0058 (J)	0.0184		0.0103		
3/30/2017							0.0043 (J)	
5/24/2017								
6/5/2017					0.0747			
6/6/2017	0.0301	0.0242						
6/7/2017			0.0062 (J)	0.019				
6/8/2017						<0.0106 (*)		0.0156 (D)
6/9/2017							<0.01 (*)	
7/17/2017								0.016 (D)
7/27/2017								0.0184
8/9/2017								0.0162
9/22/2017								
9/25/2017	0.0169	0.0252						

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 12/7/2018 10:24 AM View: cell 9&10 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWA-41R (bg)	GWA-41 (bg)	GWC-45	GWC-45R	GWC-44	GWC-49R	GWC-49Z	GWA-39R_39RZ ...
9/26/2017					0.0338			
9/27/2017			0.0056 (J)	0.0197				
9/29/2017						0.0097 (J)	0.004 (J)	0.0159 (D)
3/14/2018	0.036	0.021						
3/15/2018			0.0057 (J)	0.021	0.059	0.0093 (J)	0.0032 (J)	
3/16/2018								0.016
9/12/2018	0.021	0.025			0.032			
9/13/2018			0.0057 (J)	0.022		0.01		
9/14/2018							0.004 (J)	0.015

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 12/7/2018 10:24 AM View: cell 9&10 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWC-46R	GWC-47	GWC-47R	GWC-48	GWA-43 (bg)	GWA-42 (bg)	GWA-43R (bg)	GWA-39Z (bg)	GWA-40 (bg)
3/10/2016	<0.005	<0.005	<0.003	<0.005					
3/11/2016					<0.005	<0.005	<0.005		
3/14/2016								<0.005	
3/15/2016									<0.005
3/16/2016									
3/17/2016									
5/11/2016								<0.003	<0.003
5/12/2016									
5/13/2016					<0.003		<0.003		
5/16/2016						<0.003			
5/17/2016	<0.003			<0.003					
5/18/2016		<0.003	<0.003						
7/19/2016					<0.003		<0.003	<0.003	
7/20/2016									
7/21/2016									<0.003
7/22/2016						0.0002 (J)			
7/25/2016									
7/26/2016	<0.003								
7/27/2016		<0.003	<0.003	0.0002 (J)					
7/28/2016									
9/15/2016								<0.003	<0.003
9/16/2016					<0.003		<0.003		
9/19/2016						0.0001 (J)			
9/20/2016	<0.003	<0.003	<0.003	0.0002 (J)					
9/21/2016									
11/2/2016					<0.003		<0.003	<0.003	
11/3/2016						0.0002 (J)			<0.003
11/4/2016	<0.003		<0.003	0.0002 (J)					
11/7/2016		<0.003							
1/17/2017						0.0001 (J)			<0.003
1/18/2017					<0.003		<0.003	<0.003	
1/19/2017									
1/20/2017	<0.003		<0.003						
1/23/2017		<0.003		<0.003					
1/24/2017									
2/21/2017									
3/24/2017									<0.003
3/27/2017						0.0001 (J)			
3/28/2017	<0.003			0.0002 (J)	<0.003		<0.003	<0.003	
3/29/2017		<0.003	<0.003						
3/30/2017									
5/24/2017									<0.003
6/5/2017									
6/6/2017					<0.003		<0.003		
6/7/2017	<0.003					0.0001 (J)		<0.003	
6/8/2017		<0.003	<0.003	0.0002 (J)					
6/9/2017									
7/17/2017									
7/27/2017									
8/9/2017									
9/22/2017					<0.003		<0.003		
9/25/2017									

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 12/7/2018 10:24 AM View: cell 9&10 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWC-46R	GWC-47	GWC-47R	GWC-48	GWA-43 (bg)	GWA-42 (bg)	GWA-43R (bg)	GWA-39Z (bg)	GWA-40 (bg)
9/26/2017						0.0001 (J)		<0.003	<0.003
9/27/2017		<0.003	<0.003						
9/29/2017	<0.003			0.0002 (J)					
3/14/2018					<0.003	0.00014 (J)		<0.003	<0.003
3/15/2018	<0.003	<0.003		0.00025 (J)			5.1E-05 (J)		
3/16/2018			<0.003						
9/12/2018					<0.003		<0.003	<0.003	<0.003
9/13/2018	<0.003	<0.003	<0.003	0.00026 (J)					
9/14/2018						0.00012 (J)			

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 12/7/2018 10:24 AM View: cell 9&10 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWA-41R (bg)	GWA-41 (bg)	GWC-45	GWC-45R	GWC-44	GWC-49R	GWC-49Z	GWA-39R_39RZ ...
3/10/2016								
3/11/2016								
3/14/2016								
3/15/2016	<0.005	<0.005						
3/16/2016			<0.005	<0.005	<0.01			
3/17/2016						<0.005	<0.005	
5/11/2016								
5/12/2016		<0.003						
5/13/2016	<0.003							
5/16/2016			<0.003	<0.003	<0.003			<0.003 (D)
5/17/2016								
5/18/2016						<0.003	<0.003	
7/19/2016								
7/20/2016		<0.003						
7/21/2016	<0.003							
7/22/2016								
7/25/2016			<0.003	<0.003	<0.003			
7/26/2016								
7/27/2016						<0.003		0.0004 (JD)
7/28/2016							<0.003	
9/15/2016		<0.003						
9/16/2016								
9/19/2016			<0.003	<0.003	<0.003			
9/20/2016								
9/21/2016	<0.003					<0.003	<0.003	
11/2/2016								
11/3/2016	<0.003	<0.003		<0.003	<0.003			
11/4/2016			<0.003			<0.003		
11/7/2016							<0.003	
1/17/2017	<0.003							
1/18/2017		<0.003						
1/19/2017					<0.003			
1/20/2017				<0.003				
1/23/2017			<0.003					
1/24/2017						<0.003	<0.003	
2/21/2017								<0.003
3/24/2017		<0.003						
3/27/2017	<0.003							<0.003 (D)
3/28/2017					8E-05 (J)			
3/29/2017			<0.003	<0.003		<0.003		
3/30/2017							<0.003	
5/24/2017								
6/5/2017					9E-05 (J)			
6/6/2017	<0.003	<0.003						
6/7/2017			<0.003	<0.003				
6/8/2017						<0.003		<0.003 (D)
6/9/2017							<0.003	
7/17/2017								<0.003 (D)
7/27/2017								<0.003
8/9/2017								<0.003
9/22/2017								
9/25/2017	<0.003	<0.003						

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 12/7/2018 10:24 AM View: cell 9&10 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWA-41R (bg)	GWA-41 (bg)	GWC-45	GWC-45R	GWC-44	GWC-49R	GWC-49Z	GWA-39R_39RZ ...
9/26/2017					<0.003			
9/27/2017			<0.003	<0.003				
9/29/2017						<0.003	<0.003	<0.003 (D)
3/14/2018	<0.003	<0.003						
3/15/2018			<0.003	<0.003	7.7E-05 (J)	<0.003	<0.003	
3/16/2018								<0.003
9/12/2018	<0.003	<0.003			<0.003			
9/13/2018			<0.003	<0.003		<0.003		
9/14/2018							<0.003	<0.003

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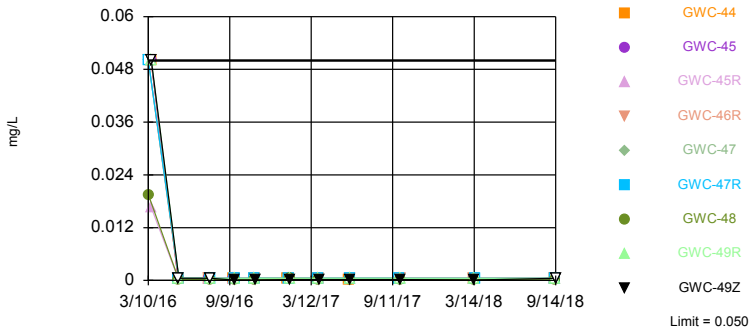
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 88 background values. 84.09% NDs. Annual per-constituent alpha = 0.004468. Individual comparison alpha = 0.0002487 (1 of 2). Comparing 9 points to limit.

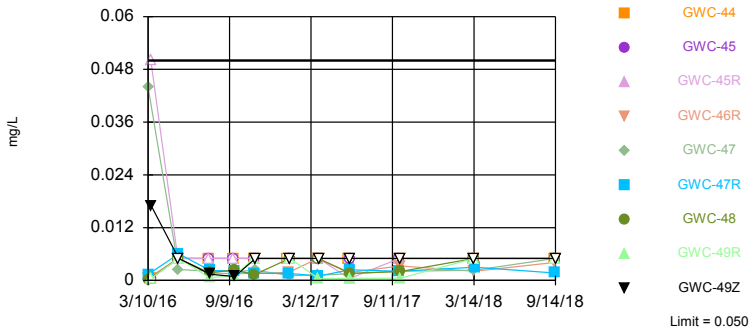
Constituent: Cadmium Analysis Run 12/7/2018 10:20 AM View: cell 9&10 OB&BR metals
Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

Sanitas™ v.9.5.32 Sanitas software licensed to AMEC. UG
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 88 background values. 81.82% NDs. Annual per-constituent alpha = 0.004468. Individual comparison alpha = 0.0002487 (1 of 2). Comparing 9 points to limit.

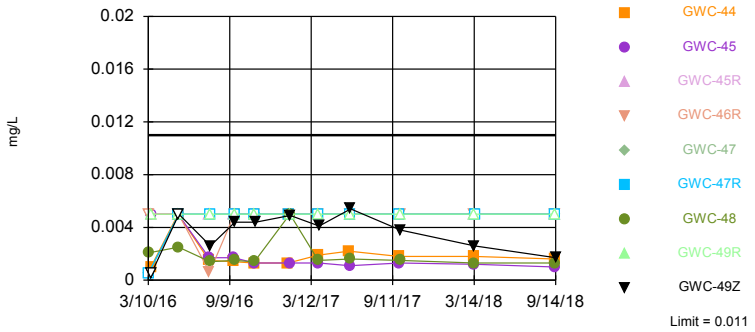
Constituent: Chromium Analysis Run 12/7/2018 10:20 AM View: cell 9&10 OB&BR metals
Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

Sanitas™ v.9.5.32 Sanitas software licensed to AMEC. UG
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 88 background values. 80.68% NDs. Annual per-constituent alpha = 0.004468. Individual comparison alpha = 0.0002487 (1 of 2). Comparing 9 points to limit.

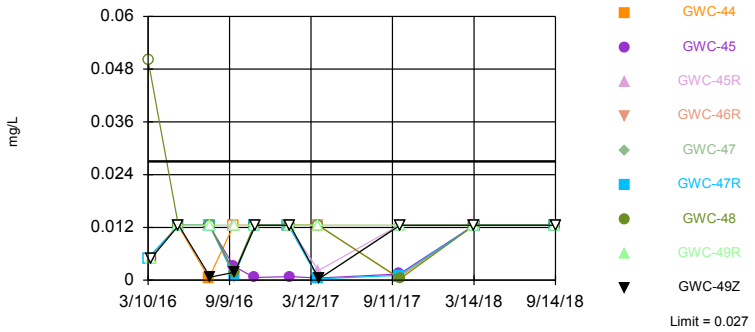
Constituent: Cobalt Analysis Run 12/7/2018 10:20 AM View: cell 9&10 OB&BR metals
Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

Sanitas™ v.9.5.32 Sanitas software licensed to AMEC. UG
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 77 background values. 84.42% NDs. Annual per-constituent alpha = 0.005812. Individual comparison alpha = 0.0003238 (1 of 2). Comparing 9 points to limit.

Constituent: Copper Analysis Run 12/7/2018 10:20 AM View: cell 9&10 OB&BR metals
Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 12/7/2018 10:24 AM View: cell 9&10 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWC-46R	GWC-47	GWC-47R	GWC-48	GWA-43 (bg)	GWA-42 (bg)	GWA-43R (bg)	GWA-39Z (bg)	GWA-40 (bg)
3/10/2016	<0.1	<0.1	<0.1	0.0195 (J)					
3/11/2016					<0.1	0.000121 (J)	<0.1		
3/14/2016								<0.01	
3/15/2016									<0.1
3/16/2016									
3/17/2016									
5/11/2016								0.000177 (J)	<0.001
5/12/2016									
5/13/2016					<0.001		<0.001		
5/16/2016						0.000145 (J)			
5/17/2016	<0.001			0.000251 (J)					
5/18/2016		<0.001	<0.001						
7/19/2016					<0.001		<0.001	0.0001 (J)	
7/20/2016									
7/21/2016									<0.001
7/22/2016						<0.001			
7/25/2016									
7/26/2016	<0.001								
7/27/2016		<0.001	<0.001	0.0002 (J)					
7/28/2016									
9/15/2016								8E-05 (J)	<0.001
9/16/2016					<0.001		<0.001		
9/19/2016						0.0001 (J)			
9/20/2016	<0.001	8E-05 (J)	<0.001	0.0002 (J)					
9/21/2016									
11/2/2016					<0.001		<0.001	<0.001	
11/3/2016						8E-05 (J)			<0.001
11/4/2016	<0.001		<0.001	0.0001 (J)					
11/7/2016		<0.001							
1/17/2017						0.0001 (J)			<0.001
1/18/2017					<0.001		<0.001	<0.001	
1/19/2017									
1/20/2017	<0.001		<0.001						
1/23/2017		<0.001		<0.001					
1/24/2017									
2/21/2017									
3/24/2017									<0.001
3/27/2017						0.0002 (J)			
3/28/2017	<0.001			0.0001 (J)	<0.001		<0.001	<0.001	
3/29/2017		<0.001	<0.001						
3/30/2017									
5/24/2017									<0.001
6/5/2017									
6/6/2017					8E-05 (J)		<0.001		
6/7/2017	<0.001					0.0001 (J)		<0.001	
6/8/2017		<0.001	<0.001	0.0002 (J)					
6/9/2017									
7/17/2017									
7/27/2017									
8/9/2017									
9/22/2017					<0.001		<0.001		
9/25/2017									

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 12/7/2018 10:24 AM View: cell 9&10 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWC-46R	GWC-47	GWC-47R	GWC-48	GWA-43 (bg)	GWA-42 (bg)	GWA-43R (bg)	GWA-39Z (bg)	GWA-40 (bg)
9/26/2017						<0.001		<0.001	<0.001
9/27/2017		<0.001	<0.001						
9/29/2017	<0.001			0.0002 (J)					
3/14/2018					<0.001	0.00011 (J)		<0.001	<0.001
3/15/2018	<0.001	9.3E-05 (J)		0.00018 (J)			<0.001		
3/16/2018			<0.001						
9/12/2018					<0.001		<0.001	<0.001	<0.001
9/13/2018	<0.001	<0.001	<0.001	0.00012 (J)					
9/14/2018						0.00013 (J)			

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 12/7/2018 10:24 AM View: cell 9&10 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWA-41R (bg)	GWA-41 (bg)	GWC-45	GWC-45R	GWC-44	GWC-49R	GWC-49Z	GWA-39R_39RZ ...
3/10/2016								
3/11/2016								
3/14/2016								
3/15/2016	<0.1	<0.1						
3/16/2016			<0.1	0.0167 (J)	<0.1			
3/17/2016						<0.1	<0.1	
5/11/2016								
5/12/2016		<0.001						
5/13/2016	<0.001							
5/16/2016			<0.001	<0.001	<0.001			<0.001 (D)
5/17/2016								
5/18/2016						<0.001	<0.001	
7/19/2016								
7/20/2016		<0.001						
7/21/2016	<0.001							
7/22/2016								
7/25/2016			<0.001	<0.001	<0.001			
7/26/2016								
7/27/2016						<0.001		0.0001 (JD)
7/28/2016							<0.001	
9/15/2016		<0.001						
9/16/2016								
9/19/2016			<0.001	<0.001	<0.001			
9/20/2016								
9/21/2016	<0.001					<0.001	9E-05 (J)	
11/2/2016								
11/3/2016	<0.001	<0.001		<0.001	<0.001			
11/4/2016			<0.001			<0.001		
11/7/2016							0.0001 (J)	
1/17/2017	<0.001							
1/18/2017		<0.001						
1/19/2017					<0.001			
1/20/2017				<0.001				
1/23/2017			<0.001					
1/24/2017						<0.001	0.0002 (J)	
2/21/2017								<0.001
3/24/2017		<0.001						
3/27/2017	<0.001							<0.001 (D)
3/28/2017					<0.001			
3/29/2017			<0.001	<0.001		<0.001		
3/30/2017							0.0002 (J)	
5/24/2017								
6/5/2017					8E-05 (J)			
6/6/2017	<0.001	<0.001						
6/7/2017			<0.001	<0.001				
6/8/2017						<0.001		<0.001 (D)
6/9/2017							0.0002 (J)	
7/17/2017								<0.001 (D)
7/27/2017								<0.001
8/9/2017								<0.001
9/22/2017								
9/25/2017	<0.001	<0.001						

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 12/7/2018 10:24 AM View: cell 9&10 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWA-41R (bg)	GWA-41 (bg)	GWC-45	GWC-45R	GWC-44	GWC-49R	GWC-49Z	GWA-39R_39RZ ...
9/26/2017					<0.001			
9/27/2017			<0.001	<0.001				
9/29/2017						<0.001	0.0002 (J)	<0.001 (D)
3/14/2018	<0.001	<0.001						
3/15/2018			<0.001	<0.001	<0.001	<0.001	0.0001 (J)	
3/16/2018								<0.001
9/12/2018	<0.001	<0.001			<0.001			
9/13/2018			<0.001	<0.001		<0.001		
9/14/2018							<0.001	<0.001

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 12/7/2018 10:24 AM View: cell 9&10 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWC-46R	GWC-47	GWC-47R	GWC-48	GWA-43 (bg)	GWA-42 (bg)	GWA-43R (bg)	GWA-39Z (bg)	GWA-40 (bg)
3/10/2016	<0.001	0.0439 (J)	0.00136 (J)	0.000148 (J)					
3/11/2016					<0.001	<0.1	0.00212 (J)		
3/14/2016								<0.1	
3/15/2016									<0.001
3/16/2016									
3/17/2016									
5/11/2016								<0.01	<0.01
5/12/2016									
5/13/2016					<0.01		<0.01		
5/16/2016						<0.01			
5/17/2016	<0.01			<0.01					
5/18/2016		0.00248 (J)	0.00606 (J)						
7/19/2016					<0.01		0.0006 (J)	<0.01	
7/20/2016									
7/21/2016									<0.01
7/22/2016						<0.01			
7/25/2016									
7/26/2016	0.0017 (J)								
7/27/2016		0.0021 (J)	0.0023 (J)	0.0017 (J)					
7/28/2016									
9/15/2016								<0.01	<0.01
9/16/2016					<0.01		<0.01		
9/19/2016						<0.01			
9/20/2016	0.0015 (J)	0.002 (J)	0.0021 (J)	0.0024 (J)					
9/21/2016									
11/2/2016					<0.01		<0.01	<0.01	
11/3/2016						<0.01			<0.01
11/4/2016	0.0016 (J)		0.0016 (J)	0.0013 (J)					
11/7/2016		0.0023 (J)							
1/17/2017						<0.01			<0.01
1/18/2017					<0.01		0.0014 (J)	<0.01	
1/19/2017									
1/20/2017	0.0018 (J)		0.0016 (J)						
1/23/2017		0.0011 (J)		<0.01					
1/24/2017									
2/21/2017									
3/24/2017									<0.01 (*)
3/27/2017						<0.01			
3/28/2017	<0.01 (*)			<0.01 (*)	<0.01 (*)		<0.01 (*)	<0.01 (*)	
3/29/2017		0.0012 (J)	0.001 (J)						
3/30/2017									
5/24/2017									0.0008 (J)
6/5/2017									
6/6/2017					0.0004 (J)		0.0009 (J)		
6/7/2017	0.0018 (J)					<0.01		<0.01	
6/8/2017		0.0015 (J)	0.0024 (J)	0.0016 (J)					
6/9/2017									
7/17/2017									
7/27/2017									
8/9/2017									
9/22/2017					0.0008 (J)		0.0006 (J)		
9/25/2017									

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 12/7/2018 10:24 AM View: cell 9&10 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWC-46R	GWC-47	GWC-47R	GWC-48	GWA-43 (bg)	GWA-42 (bg)	GWA-43R (bg)	GWA-39Z (bg)	GWA-40 (bg)
9/26/2017						<0.01		<0.01	0.0005 (J)
9/27/2017		0.0021 (J)	0.0021 (J)						
9/29/2017	0.0033 (J)			0.002 (J)					
3/14/2018					<0.01	<0.01		<0.01	<0.01
3/15/2018	0.0021 (J)	0.0023 (J)		<0.01			0.0017 (J)		
3/16/2018			0.003 (J)						
9/12/2018					<0.01		<0.01	<0.01	<0.01
9/13/2018	0.0041 (J)	<0.01	0.0017 (J)	<0.01					
9/14/2018						<0.01			

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 12/7/2018 10:24 AM View: cell 9&10 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWA-41R (bg)	GWA-41 (bg)	GWC-45	GWC-45R	GWC-44	GWC-49R	GWC-49Z	GWA-39R_39RZ ...
3/10/2016								
3/11/2016								
3/14/2016								
3/15/2016	<0.001	<0.001						
3/16/2016			<0.001	<0.1	<0.001			
3/17/2016						<0.001	0.017 (J)	
5/11/2016								
5/12/2016		<0.01						
5/13/2016	<0.01							
5/16/2016			<0.01	<0.01	<0.01			<0.01 (D)
5/17/2016								
5/18/2016						<0.01	<0.01	
7/19/2016								
7/20/2016		<0.01						
7/21/2016	<0.01							
7/22/2016								
7/25/2016			<0.01	<0.01	<0.01			
7/26/2016								
7/27/2016						0.0006 (J)		0.0017 (JD)
7/28/2016							0.0014 (J)	
9/15/2016		<0.01						
9/16/2016								
9/19/2016			<0.01	<0.01	<0.01			
9/20/2016								
9/21/2016	<0.01					0.0011 (J)	0.0009 (J)	
11/2/2016								
11/3/2016	<0.01	<0.01		<0.01	<0.01			
11/4/2016			<0.01			<0.01		
11/7/2016							<0.01	
1/17/2017	<0.01							
1/18/2017		<0.01						
1/19/2017					<0.01			
1/20/2017				<0.01				
1/23/2017			<0.01					
1/24/2017						<0.01	<0.01	
2/21/2017								0.001 (J)
3/24/2017		<0.01 (*)						
3/27/2017	<0.01							<0.01 (D)
3/28/2017					<0.01			
3/29/2017			<0.01	<0.01		0.0004 (J)		
3/30/2017							<0.01	
5/24/2017								
6/5/2017					<0.01			
6/6/2017	0.0004 (J)	<0.01						
6/7/2017			<0.01	0.0004 (J)				
6/8/2017						0.0005 (J)		<0.01 (D)
6/9/2017							<0.01	
7/17/2017								<0.01 (D)
7/27/2017								0.0005 (J)
8/9/2017								0.0005 (J)
9/22/2017								
9/25/2017	<0.01	<0.01						

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 12/7/2018 10:24 AM View: cell 9&10 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWA-41R (bg)	GWA-41 (bg)	GWC-45	GWC-45R	GWC-44	GWC-49R	GWC-49Z	GWA-39R_39RZ ...
9/26/2017					<0.01			
9/27/2017			<0.01	<0.01				
9/29/2017						0.0005 (J)	<0.01	0.0006 (JD)
3/14/2018	<0.01	<0.01						
3/15/2018			<0.01	<0.01	<0.01	<0.01	<0.01	
3/16/2018								<0.01
9/12/2018	<0.01	<0.01			<0.01			
9/13/2018			<0.01	<0.01		<0.01		
9/14/2018							<0.01	<0.01

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 12/7/2018 10:24 AM View: cell 9&10 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWC-46R	GWC-47	GWC-47R	GWC-48	GWA-43 (bg)	GWA-42 (bg)	GWA-43R (bg)	GWA-39Z (bg)	GWA-40 (bg)
3/10/2016	<0.01	<0.001	<0.001	0.00207 (J)					
3/11/2016					<0.01	<0.01	<0.001		
3/14/2016								0.00503 (J)	
3/15/2016									<0.01
3/16/2016									
3/17/2016									
5/11/2016								0.0114	<0.01
5/12/2016									
5/13/2016					<0.01		<0.01		
5/16/2016						<0.01			
5/17/2016	<0.01			0.0025 (J)					
5/18/2016		<0.01	<0.01						
7/19/2016					<0.01		<0.01	0.0013 (J)	
7/20/2016									
7/21/2016									<0.01
7/22/2016						0.0004 (J)			
7/25/2016									
7/26/2016	0.0006 (J)								
7/27/2016		<0.01	<0.01	0.0014 (J)					
7/28/2016									
9/15/2016								0.002 (J)	<0.01
9/16/2016					<0.01		<0.01		
9/19/2016						<0.01			
9/20/2016	<0.01	<0.01	<0.01	0.0015 (J)					
9/21/2016									
11/2/2016					<0.01		<0.01	0.0005 (J)	
11/3/2016						<0.01			<0.01
11/4/2016	<0.01		<0.01	0.0014 (J)					
11/7/2016		<0.01							
1/17/2017						<0.01			<0.01
1/18/2017					<0.01		<0.01	0.0015 (J)	
1/19/2017									
1/20/2017	<0.01		<0.01						
1/23/2017		<0.01		<0.01					
1/24/2017									
2/21/2017									
3/24/2017									<0.01
3/27/2017						<0.01			
3/28/2017	<0.01			0.0015 (J)	<0.01		<0.01	0.0025 (J)	
3/29/2017		<0.01	<0.01						
3/30/2017									
5/24/2017									<0.01
6/5/2017									
6/6/2017					<0.01		<0.01		
6/7/2017	<0.01					<0.01		0.0023 (J)	
6/8/2017		<0.01	<0.01	0.0016 (J)					
6/9/2017									
7/17/2017									
7/27/2017									
8/9/2017									
9/22/2017					<0.01		<0.01		
9/25/2017									

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 12/7/2018 10:24 AM View: cell 9&10 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWC-46R	GWC-47	GWC-47R	GWC-48	GWA-43 (bg)	GWA-42 (bg)	GWA-43R (bg)	GWA-39Z (bg)	GWA-40 (bg)
9/26/2017						<0.01		0.0011 (J)	<0.01
9/27/2017		<0.01	<0.01						
9/29/2017	<0.01			0.0015 (J)					
3/14/2018					<0.01	<0.01		0.00058 (J)	<0.01
3/15/2018	<0.01	<0.01		0.0013 (J)			<0.01		
3/16/2018			<0.01						
9/12/2018					<0.01		<0.01	<0.01	<0.01
9/13/2018	<0.01	<0.01	<0.01	0.0013 (J)					
9/14/2018						<0.01			

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 12/7/2018 10:24 AM View: cell 9&10 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWA-41R (bg)	GWA-41 (bg)	GWC-45	GWC-45R	GWC-44	GWC-49R	GWC-49Z	GWA-39R_39RZ ...
3/10/2016								
3/11/2016								
3/14/2016								
3/15/2016	<0.01	<0.01						
3/16/2016			<0.01	<0.01	0.00101 (J)			
3/17/2016						<0.01	<0.001	
5/11/2016								
5/12/2016		<0.01						
5/13/2016	<0.01							
5/16/2016			<0.01	<0.01	<0.01			0.00313 (JD)
5/17/2016								
5/18/2016						<0.01	<0.01	
7/19/2016								
7/20/2016		<0.01						
7/21/2016	0.0006 (J)							
7/22/2016								
7/25/2016			0.0017 (J)	<0.01	0.0015 (J)			
7/26/2016								
7/27/2016						<0.01		0.0057 (JD)
7/28/2016							0.0026 (J)	
9/15/2016		<0.01						
9/16/2016								
9/19/2016			0.0017 (J)	<0.01	0.0014 (J)			
9/20/2016								
9/21/2016	<0.01					<0.01	0.0044 (J)	
11/2/2016								
11/3/2016	<0.01	<0.01		<0.01	0.0013 (J)			
11/4/2016			0.0013 (J)			<0.01		
11/7/2016							0.0044 (J)	
1/17/2017	<0.01							
1/18/2017		<0.01						
1/19/2017					0.0013 (J)			
1/20/2017				<0.01				
1/23/2017			0.0013 (J)					
1/24/2017						<0.01	0.0049 (J)	
2/21/2017								<0.01
3/24/2017		<0.01						
3/27/2017	0.0005 (J)							<0.01 (D)
3/28/2017					0.0019 (J)			
3/29/2017			0.0013 (J)	<0.01		<0.01		
3/30/2017							0.0041 (J)	
5/24/2017								
6/5/2017					0.0022 (J)			
6/6/2017	<0.01	<0.01						
6/7/2017			0.0011 (J)	<0.01				
6/8/2017						<0.01		<0.01 (D)
6/9/2017							0.0054 (J)	
7/17/2017								<0.01 (D)
7/27/2017								<0.01
8/9/2017								<0.01
9/22/2017								
9/25/2017	0.0006 (J)	<0.01						

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 12/7/2018 10:24 AM View: cell 9&10 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWA-41R (bg)	GWA-41 (bg)	GWC-45	GWC-45R	GWC-44	GWC-49R	GWC-49Z	GWA-39R_39RZ ...
9/26/2017					0.0018 (J)			
9/27/2017			0.0013 (J)	<0.01				
9/29/2017						<0.01	0.0038 (J)	<0.01 (D)
3/14/2018	<0.01	<0.01						
3/15/2018			0.0012 (J)	<0.01	0.0018 (J)	<0.01	0.0026 (J)	
3/16/2018								<0.01
9/12/2018	0.0011 (J)	<0.01			0.0016 (J)			
9/13/2018			0.001 (J)	<0.01		<0.01		
9/14/2018							0.0017 (J)	<0.01

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 12/7/2018 10:24 AM View: cell 9&10 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWC-46R	GWC-47R	GWC-48	GWC-47	GWA-42 (bg)	GWA-43 (bg)	GWA-43R (bg)	GWA-39Z (bg)	GWA-41R (bg)
3/10/2016	<0.01	<0.01	<0.1	<0.01					
3/11/2016					<0.01	<0.01	<0.01		
3/14/2016								<0.01	
3/15/2016									<0.01
3/16/2016									
3/17/2016									
5/11/2016								<0.025	
5/12/2016									
5/13/2016						<0.025	<0.025		<0.025
5/16/2016					<0.025				
5/17/2016	<0.025		<0.025						
5/18/2016		<0.025		<0.025					
7/19/2016						<0.025	<0.025	0.0005 (J)	
7/20/2016									
7/21/2016									0.0005 (J)
7/22/2016					<0.025				
7/25/2016									
7/26/2016	<0.025								
7/27/2016		<0.025	<0.025	<0.025					
7/28/2016									
9/15/2016								<0.025	
9/16/2016						<0.025	<0.025		
9/19/2016					0.003 (J)				
9/20/2016	0.0008 (J)	0.001 (J)	0.0018 (J)	0.0011 (J)					
9/21/2016									<0.025
11/2/2016						<0.025	<0.025	<0.025	
11/3/2016					<0.025				<0.025
11/4/2016	<0.025	<0.025	<0.025						
11/7/2016				<0.025					
1/17/2017					<0.025				<0.025
1/18/2017						<0.025	<0.025	<0.025	
1/19/2017									
1/20/2017	<0.025	<0.025							
1/23/2017			<0.025	<0.025					
1/24/2017									
2/21/2017									
3/24/2017									
3/27/2017					<0.025				<0.025
3/28/2017	<0.025		<0.025 (*)			<0.025 (*)	<0.025 (*)	<0.025 (*)	
3/29/2017		0.0003 (J)		0.0003 (J)					
3/30/2017									
9/22/2017						0.0004 (J)	0.0006 (J)		
9/25/2017									0.0007 (J)
9/26/2017					<0.025			0.0005 (J)	
9/27/2017		0.0011 (J)		<0.025					
9/29/2017	<0.025		0.0003 (J)						
3/14/2018					<0.025	<0.025		<0.025	0.0021 (J)
3/15/2018	<0.025		<0.025	<0.025			<0.025		
3/16/2018		<0.025							
9/12/2018						<0.025	<0.025	<0.025	<0.025
9/13/2018	<0.025	<0.025	<0.025	<0.025					
9/14/2018					<0.025				

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 12/7/2018 10:24 AM View: cell 9&10 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWA-41 (bg)	GWA-40 (bg)	GWC-44	GWC-45R	GWC-45	GWC-49Z	GWC-49R	GWA-39R_39RZ ...
3/10/2016								
3/11/2016								
3/14/2016								
3/15/2016	<0.01	<0.01						
3/16/2016			<0.01	<0.01	<0.01			
3/17/2016						<0.01	<0.01	
5/11/2016		<0.025						
5/12/2016	<0.025							
5/13/2016								
5/16/2016			<0.025	<0.025	<0.025			<0.025 (D)
5/17/2016								
5/18/2016						<0.025	<0.025	
7/19/2016								
7/20/2016	<0.025							
7/21/2016		<0.025						
7/22/2016								
7/25/2016			0.0005 (J)	<0.025	<0.025			
7/26/2016								
7/27/2016							<0.025	0.0271 (D)
7/28/2016						0.0007 (J)		
9/15/2016	0.0007 (J)	<0.025						
9/16/2016								
9/19/2016			<0.025	<0.025	0.0032 (J)			
9/20/2016								
9/21/2016						0.0018 (J)	<0.025	
11/2/2016								
11/3/2016	<0.025	<0.025	<0.025	<0.025				
11/4/2016					0.0006 (J)		<0.025	
11/7/2016						<0.025		
1/17/2017		<0.025						
1/18/2017	<0.025							
1/19/2017			<0.025					
1/20/2017				<0.025				
1/23/2017					0.0008 (J)			
1/24/2017						<0.025	<0.025	
2/21/2017								<0.025
3/24/2017	<0.025	<0.025						
3/27/2017								<0.025 (D)
3/28/2017			<0.025 (*)					
3/29/2017				0.0022 (J)	0.0005 (J)		<0.025	
3/30/2017						0.0003 (J)		
9/22/2017								
9/25/2017	0.0003 (J)							
9/26/2017		<0.025	0.0006 (J)					
9/27/2017				<0.025	0.0014 (J)			
9/29/2017						<0.025	<0.025	<0.025 (D)
3/14/2018	<0.025	<0.025						
3/15/2018			<0.025	<0.025	<0.025	<0.025	<0.025	
3/16/2018								<0.025
9/12/2018	<0.025	<0.025	<0.025					
9/13/2018				<0.025	<0.025		<0.025	
9/14/2018						<0.025		0.002 (J)

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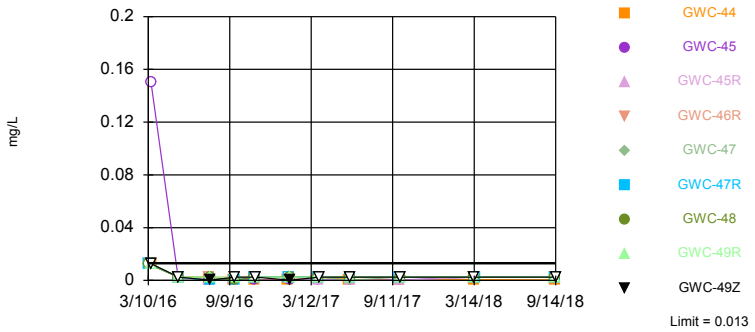
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 88 background values. 80.68% NDs. Annual per-constituent alpha = 0.004468. Individual comparison alpha = 0.0002487 (1 of 2). Comparing 9 points to limit.

Constituent: Lead Analysis Run 12/7/2018 10:21 AM View: cell 9&10 OB&BR metals
Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

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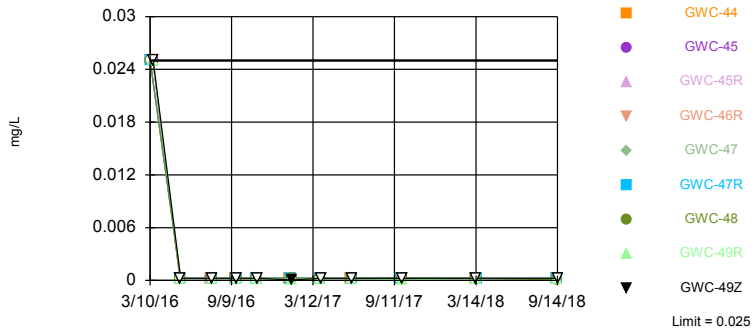
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 88 background values. 95.45% NDs. Annual per-constituent alpha = 0.004468. Individual comparison alpha = 0.0002487 (1 of 2). Comparing 9 points to limit.

Constituent: Mercury Analysis Run 12/7/2018 10:21 AM View: cell 9&10 OB&BR metals
Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

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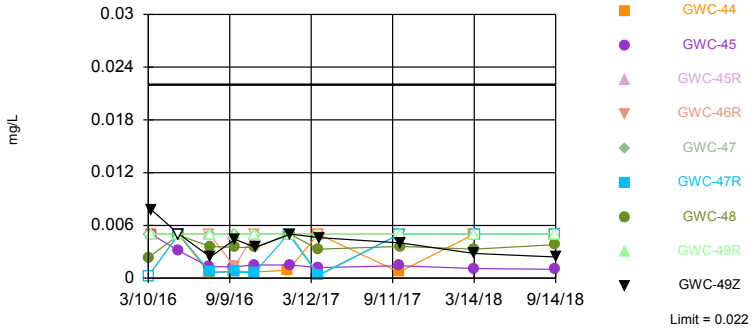
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 77 background values. 55.84% NDs. Annual per-constituent alpha = 0.005812. Individual comparison alpha = 0.0003238 (1 of 2). Comparing 9 points to limit.

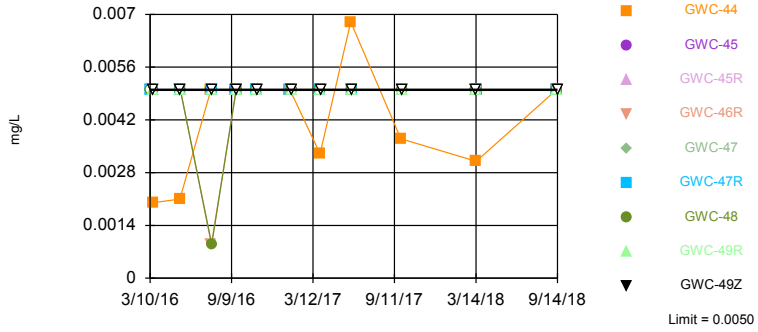
Constituent: Nickel Analysis Run 12/7/2018 10:21 AM View: cell 9&10 OB&BR metals
Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

Sanitas™ v.9.5.32 Sanitas software licensed to AMEC. UG
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 88 background values. 98.86% NDs. Annual per-constituent alpha = 0.004468. Individual comparison alpha = 0.0002487 (1 of 2). Comparing 9 points to limit.

Constituent: Selenium Analysis Run 12/7/2018 10:21 AM View: cell 9&10 OB&BR metals
Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 12/7/2018 10:24 AM View: cell 9&10 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWC-46R	GWC-47	GWC-47R	GWC-48	GWA-43 (bg)	GWA-42 (bg)	GWA-43R (bg)	GWA-39Z (bg)	GWA-40 (bg)
3/10/2016	<0.025	<0.025	<0.025	<0.025					
3/11/2016					<0.025	<0.025	<0.025		
3/14/2016								<0.025	
3/15/2016									<0.025
3/16/2016									
3/17/2016									
5/11/2016								<0.005	<0.005
5/12/2016									
5/13/2016					<0.005		<0.005		
5/16/2016						<0.005			
5/17/2016	<0.005			<0.005					
5/18/2016		<0.005	<0.005						
7/19/2016					<0.005		<0.005	<0.005	
7/20/2016									
7/21/2016									<0.005
7/22/2016						0.0001 (J)			
7/25/2016									
7/26/2016	<0.005								
7/27/2016		9E-05 (J)	9E-05 (J)	<0.005					
7/28/2016									
9/15/2016								<0.005	<0.005
9/16/2016					<0.005		<0.005		
9/19/2016						0.0002 (J)			
9/20/2016	<0.005	0.0003 (J)	0.0001 (J)	0.0002 (J)					
9/21/2016									
11/2/2016					<0.005		<0.005	<0.005	
11/3/2016						<0.005			<0.005
11/4/2016	<0.005		<0.005	<0.005					
11/7/2016		<0.005							
1/17/2017						<0.005			<0.005
1/18/2017					<0.005		<0.005	<0.005	
1/19/2017									
1/20/2017	<0.005		<0.005						
1/23/2017		<0.005		<0.005					
1/24/2017									
2/21/2017									
3/24/2017									<0.005 (*)
3/27/2017						<0.005			
3/28/2017	<0.005			<0.005 (*)	<0.005		<0.005	<0.005 (*)	
3/29/2017		<0.005	<0.005						
3/30/2017									
5/24/2017									0.0001 (J)
6/5/2017									
6/6/2017					7E-05 (J)		0.0001 (J)		
6/7/2017	<0.005					<0.005		8E-05 (J)	
6/8/2017		0.0001 (J)	<0.005	<0.005					
6/9/2017									
7/17/2017									
7/27/2017									
8/9/2017									
9/22/2017					8E-05 (J)		7E-05 (J)		
9/25/2017									

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 12/7/2018 10:24 AM View: cell 9&10 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWC-46R	GWC-47	GWC-47R	GWC-48	GWA-43 (bg)	GWA-42 (bg)	GWA-43R (bg)	GWA-39Z (bg)	GWA-40 (bg)
9/26/2017						<0.005		0.0002 (J)	0.0001 (J)
9/27/2017		<0.005	<0.005						
9/29/2017	<0.005			<0.005					
3/14/2018					<0.005	<0.005		<0.005	0.00046 (J)
3/15/2018	<0.005	<0.005		<0.005			0.0038 (J)		
3/16/2018			<0.005						
9/12/2018					<0.005		<0.005	<0.005	<0.005
9/13/2018	<0.005	<0.005	<0.005	<0.005					
9/14/2018						<0.005			

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 12/7/2018 10:24 AM View: cell 9&10 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWA-41R (bg)	GWA-41 (bg)	GWC-45	GWC-45R	GWC-44	GWC-49R	GWC-49Z	GWA-39R_39RZ ...
3/10/2016								
3/11/2016								
3/14/2016								
3/15/2016	<0.025	<0.025						
3/16/2016			<0.3	<0.025	<0.025			
3/17/2016						<0.025	<0.025	
5/11/2016								
5/12/2016		<0.005						
5/13/2016	<0.005							
5/16/2016			<0.005	<0.005	<0.005			<0.005 (D)
5/17/2016								
5/18/2016						<0.005	<0.005	
7/19/2016								
7/20/2016		<0.005						
7/21/2016	0.0001 (J)							
7/22/2016								
7/25/2016			0.0002 (J)	0.0001 (J)	0.0003 (J)			
7/26/2016								
7/27/2016						<0.005		0.0011 (JD)
7/28/2016							0.0002 (J)	
9/15/2016		<0.005						
9/16/2016								
9/19/2016			0.0004 (J)	<0.005	0.0002 (J)			
9/20/2016								
9/21/2016	<0.005					<0.005	<0.005 (*)	
11/2/2016								
11/3/2016	<0.005	<0.005		<0.005	0.0002 (J)			
11/4/2016			0.0002 (J)			<0.005		
11/7/2016							<0.005	
1/17/2017	<0.005							
1/18/2017		<0.005						
1/19/2017					0.0003 (J)			
1/20/2017				<0.005				
1/23/2017			0.0001 (J)					
1/24/2017						<0.005	0.0002 (J)	
2/21/2017								<0.005
3/24/2017		<0.005						
3/27/2017	<0.005							<0.005 (D)
3/28/2017					<0.005 (*)			
3/29/2017			0.0001 (J)	0.0001 (J)		<0.005		
3/30/2017							<0.005	
5/24/2017								
6/5/2017					0.0007 (J)			
6/6/2017	<0.005	<0.005						
6/7/2017			0.0001 (J)	8E-05 (J)				
6/8/2017						<0.005		<0.005 (D)
6/9/2017							<0.005	
7/17/2017								<0.005 (D)
7/27/2017								0.0001 (J)
8/9/2017								<0.005
9/22/2017								
9/25/2017	0.0001 (J)	<0.005						

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 12/7/2018 10:24 AM View: cell 9&10 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWA-41R (bg)	GWA-41 (bg)	GWC-45	GWC-45R	GWC-44	GWC-49R	GWC-49Z	GWA-39R_39RZ ...
9/26/2017					0.0004 (J)			
9/27/2017			0.0003 (J)	9E-05 (J)				
9/29/2017						<0.005	<0.005	<0.005 (D)
3/14/2018	0.00031 (J)	<0.005						
3/15/2018			<0.005	<0.005	0.00064 (J)	<0.005	<0.005	
3/16/2018								<0.005
9/12/2018	<0.005	<0.005			0.00037 (J)			
9/13/2018			<0.005	<0.005		<0.005		
9/14/2018							<0.005	<0.005

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 12/7/2018 10:24 AM View: cell 9&10 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWC-46R	GWC-47	GWC-47R	GWC-48	GWA-43 (bg)	GWA-42 (bg)	GWA-43R (bg)	GWA-39Z (bg)	GWA-40 (bg)
3/10/2016	<0.05	<0.05	<0.05	<0.05					
3/11/2016					<0.05	<0.05	<0.05		
3/14/2016								<0.05	
3/15/2016									<0.05
3/16/2016									
3/17/2016									
5/11/2016								<0.0005	<0.0005
5/12/2016									
5/13/2016					<0.0005		<0.0005		
5/16/2016						<0.0005			
5/17/2016	<0.0005			<0.0005					
5/18/2016		<0.0005	<0.0005						
7/19/2016					<0.0005		<0.0005	<0.0005	
7/20/2016									
7/21/2016									<0.0005
7/22/2016						<0.0005			
7/25/2016									
7/26/2016	<0.0005								
7/27/2016		<0.0005	<0.0005	<0.0005					
7/28/2016									
9/15/2016								<0.0005	<0.0005
9/16/2016					<0.0005		<0.0005		
9/19/2016						<0.0005			
9/20/2016	<0.0005	<0.0005	<0.0005	<0.0005					
9/21/2016									
11/2/2016					<0.0005		<0.0005	<0.0005	
11/3/2016						<0.0005			<0.0005
11/4/2016	<0.0005		<0.0005	<0.0005					
11/7/2016		<0.0005							
1/17/2017						<0.0005			<0.0005
1/18/2017					<0.0005		<0.0005	<0.0005	
1/19/2017									
1/20/2017	<0.0005		<0.0005						
1/23/2017		<0.0005		<0.0005					
1/24/2017									
2/21/2017									
3/24/2017									<0.0005
3/27/2017						<0.0005			
3/28/2017	<0.0005			<0.0005	<0.0005		<0.0005	<0.0005	
3/29/2017		<0.0005 (*)	<0.0005 (*)						
3/30/2017									
5/24/2017									<0.0005
6/5/2017									
6/6/2017					<0.0005		<0.0005		
6/7/2017	<0.0005					<0.0005		<0.0005	
6/8/2017		<0.0005	<0.0005	<0.0005					
6/9/2017									
7/17/2017									
7/27/2017									
8/9/2017									
9/22/2017					<0.0005		<0.0005		
9/25/2017									

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 12/7/2018 10:24 AM View: cell 9&10 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWC-46R	GWC-47	GWC-47R	GWC-48	GWA-43 (bg)	GWA-42 (bg)	GWA-43R (bg)	GWA-39Z (bg)	GWA-40 (bg)
9/26/2017						<0.0005		<0.0005	<0.0005
9/27/2017		<0.0005	<0.0005						
9/29/2017	<0.0005			<0.0005					
3/14/2018					<0.0005	<0.0005		<0.0005	<0.0005
3/15/2018	<0.0005	<0.0005		<0.0005			<0.0005		
3/16/2018			<0.0005						
9/12/2018					<0.0005		3.9E-05 (J)	<0.0005	3.8E-05 (J)
9/13/2018	<0.0005	<0.0005	<0.0005	6.2E-05 (J)					
9/14/2018						3.8E-05 (J)			

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 12/7/2018 10:24 AM View: cell 9&10 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWA-41R (bg)	GWA-41 (bg)	GWC-45	GWC-45R	GWC-44	GWC-49R	GWC-49Z	GWA-39R_39RZ ...
3/10/2016								
3/11/2016								
3/14/2016								
3/15/2016	<0.05	<0.05						
3/16/2016			<0.05	<0.05	<0.05			
3/17/2016						<0.05	<0.05	
5/11/2016								
5/12/2016		<0.0005						
5/13/2016	<0.0005							
5/16/2016			<0.0005	<0.0005	<0.0005			<0.0005 (D)
5/17/2016								
5/18/2016						<0.0005	<0.0005	
7/19/2016								
7/20/2016		<0.0005						
7/21/2016	<0.0005							
7/22/2016								
7/25/2016			<0.0005	<0.0005	<0.0005			
7/26/2016								
7/27/2016						<0.0005		<0.0005 (D)
7/28/2016							<0.0005	
9/15/2016		<0.0005						
9/16/2016								
9/19/2016			<0.0005	<0.0005	<0.0005			
9/20/2016								
9/21/2016	<0.0005					<0.0005	<0.0005	
11/2/2016								
11/3/2016	<0.0005	<0.0005		<0.0005	<0.0005			
11/4/2016			<0.0005			<0.0005		
11/7/2016							<0.0005	
1/17/2017	<0.0005							
1/18/2017		<0.0005						
1/19/2017					<0.0005			
1/20/2017				<0.0005				
1/23/2017			<0.0005					
1/24/2017						5E-05 (J)	5E-05 (J)	
2/21/2017								<0.0005
3/24/2017		<0.0005						
3/27/2017	<0.0005							<0.0005 (D)
3/28/2017					<0.0005			
3/29/2017			<0.0005 (*)	<0.0005 (*)		<0.0005 (*)		
3/30/2017							<0.0005 (*)	
5/24/2017								
6/5/2017					<0.0005			
6/6/2017	<0.0005	<0.0005						
6/7/2017			<0.0005	<0.0005				
6/8/2017						<0.0005		<0.0005 (D)
6/9/2017							<0.0005	
7/17/2017								<0.0005 (D)
7/27/2017								<0.0005
8/9/2017								<0.0005
9/22/2017								
9/25/2017	<0.0005	<0.0005						

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 12/7/2018 10:24 AM View: cell 9&10 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWA-41R (bg)	GWA-41 (bg)	GWC-45	GWC-45R	GWC-44	GWC-49R	GWC-49Z	GWA-39R_39RZ ...
9/26/2017					<0.0005			
9/27/2017			<0.0005	<0.0005				
9/29/2017						4E-05 (J)	<0.0005	<0.0005 (D)
3/14/2018	<0.0005	<0.0005						
3/15/2018			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
3/16/2018								<0.0005
9/12/2018	<0.0005	<0.0005			<0.0005			
9/13/2018			<0.0005	<0.0005		<0.0005		
9/14/2018							<0.0005	4.1E-05 (J)

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 12/7/2018 10:24 AM View: cell 9&10 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWC-46R	GWC-47R	GWC-48	GWC-47	GWA-42 (bg)	GWA-43 (bg)	GWA-43R (bg)	GWA-39Z (bg)	GWA-41R (bg)
3/10/2016	<0.0005	<0.0005	0.00235 (J)	<0.01					
3/11/2016					<0.01	0.00288 (J)	<0.01		
3/14/2016								0.00544 (J)	
3/15/2016									<0.0005
3/16/2016									
3/17/2016									
5/11/2016								0.0149	
5/12/2016									
5/13/2016						<0.01	<0.01		<0.01
5/16/2016					0.00233 (J)				
5/17/2016	<0.01		0.00489 (J)						
5/18/2016		<0.01		<0.01					
7/19/2016						0.0006 (J)	<0.01	0.0044 (J)	
7/20/2016									
7/21/2016									0.0009 (J)
7/22/2016					0.0014 (J)				
7/25/2016									
7/26/2016	<0.01								
7/27/2016		0.0007 (J)	0.0036 (J)	<0.01					
7/28/2016									
9/15/2016								0.0047 (J)	
9/16/2016						0.0008 (J)	<0.01		
9/19/2016					0.0014 (J)				
9/20/2016	0.0013 (J)	0.0007 (J)	0.0035 (J)	<0.01					
9/21/2016									<0.01
11/2/2016						0.0007 (J)	<0.01	0.0025 (J)	
11/3/2016					0.0013 (J)				<0.01
11/4/2016	<0.01	0.0006 (J)	0.0035 (J)						
11/7/2016				<0.01					
1/17/2017					0.0011 (J)				<0.01
1/18/2017						0.0006 (J)	0.0006 (J)	0.004 (J)	
1/19/2017									
1/20/2017	<0.01	<0.01							
1/23/2017			<0.01	<0.01					
1/24/2017									
2/21/2017									
3/24/2017									
3/27/2017					<0.01 (*)				<0.01 (*)
3/28/2017	<0.01		0.0033 (J)			<0.01 (*)	<0.01 (*)	0.0034 (J)	
3/29/2017		0.0003 (J)		0.0004 (J)					
3/30/2017									
9/22/2017						0.0007 (J)	<0.01		
9/25/2017									0.0012 (J)
9/26/2017					0.0011 (J)			0.0016 (J)	
9/27/2017		<0.01		<0.01					
9/29/2017	<0.01		0.0036 (J)						
3/14/2018					0.0012 (J)	<0.01		<0.01	0.0014 (J)
3/15/2018	<0.01		0.0033 (J)	<0.01			<0.01		
3/16/2018		<0.01							
9/12/2018						<0.01	<0.01	<0.01	0.0011 (J)
9/13/2018	<0.01	<0.01	0.0038 (J)	<0.01					
9/14/2018					0.0012 (J)				

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 12/7/2018 10:24 AM View: cell 9&10 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWA-41 (bg)	GWA-40 (bg)	GWC-44	GWC-45R	GWC-45	GWC-49Z	GWC-49R	GWA-39R_39RZ ...
3/10/2016								
3/11/2016								
3/14/2016								
3/15/2016	<0.01	<0.01						
3/16/2016			<0.01	<0.01	<0.01			
3/17/2016						0.00778 (J)	<0.01	
5/11/2016		<0.01						
5/12/2016	<0.01							
5/13/2016								
5/16/2016			<0.01	<0.01	0.00316 (J)			0.0136 (D)
5/17/2016								
5/18/2016						<0.01	<0.01	
7/19/2016								
7/20/2016	0.0006 (J)							
7/21/2016		<0.01						
7/22/2016								
7/25/2016			0.0006 (J)	<0.01	0.0013 (J)			
7/26/2016								
7/27/2016							<0.01	0.0224 (D)
7/28/2016						0.0024 (J)		
9/15/2016	0.0009 (J)	<0.01						
9/16/2016								
9/19/2016			0.0008 (J)	<0.01	0.0013 (J)			
9/20/2016								
9/21/2016						0.0044 (J)	<0.01	
11/2/2016								
11/3/2016	0.0011 (J)	<0.01	0.0007 (J)	<0.01				
11/4/2016					0.0015 (J)		<0.01	
11/7/2016						0.0035 (J)		
1/17/2017		<0.01						
1/18/2017	0.0007 (J)							
1/19/2017			0.0009 (J)					
1/20/2017				<0.01				
1/23/2017					0.0015 (J)			
1/24/2017						0.005 (J)	<0.01	
2/21/2017								0.0007 (J)
3/24/2017	<0.01 (*)	<0.01 (*)						
3/27/2017								<0.01 (D)
3/28/2017			<0.01 (*)					
3/29/2017				<0.01	0.0012 (J)		<0.01	
3/30/2017						0.0046 (J)		
9/22/2017								
9/25/2017	<0.01							
9/26/2017		<0.01	0.0007 (J)					
9/27/2017				<0.01	0.0014 (J)			
9/29/2017						0.004 (J)	<0.01	<0.01 (D)
3/14/2018	<0.01	<0.01						
3/15/2018			<0.01	<0.01	0.0011 (J)	0.0028 (J)	<0.01	
3/16/2018								<0.01
9/12/2018	<0.01	<0.01	<0.01					
9/13/2018				<0.01	0.001 (J)		<0.01	
9/14/2018						0.0024 (J)		<0.01

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 12/7/2018 10:24 AM View: cell 9&10 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWC-48	GWC-46R	GWC-47R	GWC-47	GWA-42 (bg)	GWA-43R (bg)	GWA-43 (bg)	GWA-39Z (bg)	GWA-41 (bg)
3/10/2016	<0.01	<0.01	<0.01	<0.01					
3/11/2016					<0.01	<0.01	0.00236 (J)		
3/14/2016								<0.01	
3/15/2016									<0.01
3/16/2016									
3/17/2016									
5/11/2016								<0.01	
5/12/2016									<0.01
5/13/2016						<0.01	<0.01		
5/16/2016					<0.01				
5/17/2016	<0.01	<0.01							
5/18/2016			<0.01	<0.01					
7/19/2016						<0.01	<0.01	<0.01	
7/20/2016									<0.01
7/21/2016									
7/22/2016					<0.01				
7/25/2016									
7/26/2016		0.0009 (J)							
7/27/2016	0.0009 (J)		<0.01	<0.01					
7/28/2016									
9/15/2016								<0.01	<0.01
9/16/2016						<0.01	<0.01		
9/19/2016					<0.01				
9/20/2016	<0.01	<0.01	<0.01	<0.01					
9/21/2016									
11/2/2016						<0.01	<0.01	<0.01	
11/3/2016					<0.01				<0.01
11/4/2016	<0.01	<0.01	<0.01						
11/7/2016				<0.01					
1/17/2017					<0.01				
1/18/2017						<0.01	<0.01	<0.01	<0.01
1/19/2017									
1/20/2017		<0.01	<0.01						
1/23/2017	<0.01			<0.01					
1/24/2017									
2/21/2017									
3/24/2017									<0.01
3/27/2017					<0.01				
3/28/2017	<0.01	<0.01				<0.01	<0.01	<0.01	
3/29/2017			<0.01	<0.01					
3/30/2017									
5/24/2017									
6/5/2017									
6/6/2017						<0.01	<0.01		<0.01
6/7/2017		<0.01			<0.01			<0.01	
6/8/2017	<0.01		<0.01	<0.01					
6/9/2017									
7/17/2017									
7/27/2017									
8/9/2017									
9/22/2017						<0.01	<0.01		
9/25/2017									<0.01

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 12/7/2018 10:24 AM View: cell 9&10 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWC-48	GWC-46R	GWC-47R	GWC-47	GWA-42 (bg)	GWA-43R (bg)	GWA-43 (bg)	GWA-39Z (bg)	GWA-41 (bg)
9/26/2017					<0.01			<0.01	
9/29/2017	<0.01	<0.01							
3/14/2018					<0.01		<0.01	<0.01	<0.01
3/15/2018	<0.01	<0.01		<0.01		<0.01			
3/16/2018			<0.01						
9/12/2018						<0.01	<0.01	<0.01	<0.01
9/13/2018	<0.01	<0.01	<0.01	<0.01					
9/14/2018					<0.01				

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 12/7/2018 10:24 AM View: cell 9&10 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWA-41R (bg)	GWA-40 (bg)	GWC-45	GWC-45R	GWC-44	GWC-49Z	GWC-49R	GWA-39R_39RZ ...
3/10/2016								
3/11/2016								
3/14/2016								
3/15/2016	<0.01	<0.01						
3/16/2016			<0.01	<0.01	0.002 (J)			
3/17/2016						<0.01	<0.01	
5/11/2016		<0.01						
5/12/2016								
5/13/2016	<0.01							
5/16/2016			<0.01	<0.01	0.0021 (J)			<0.01 (D)
5/17/2016								
5/18/2016						<0.01	<0.01	
7/19/2016								
7/20/2016								
7/21/2016	<0.01	<0.01						
7/22/2016								
7/25/2016			<0.01	<0.01	<0.01			
7/26/2016								
7/27/2016							<0.01	<0.01 (D)
7/28/2016						<0.01		
9/15/2016		<0.01						
9/16/2016								
9/19/2016			<0.01	<0.01	<0.01			
9/20/2016								
9/21/2016	<0.01					<0.01	<0.01	
11/2/2016								
11/3/2016	<0.01	<0.01		<0.01	<0.01			
11/4/2016			<0.01				<0.01	
11/7/2016						<0.01		
1/17/2017	<0.01	<0.01						
1/18/2017								
1/19/2017					<0.01			
1/20/2017				<0.01				
1/23/2017			<0.01					
1/24/2017						<0.01	<0.01	
2/21/2017								<0.01
3/24/2017		<0.01						
3/27/2017	<0.01							<0.01 (D)
3/28/2017					0.0033 (J)			
3/29/2017			<0.01	<0.01			<0.01	
3/30/2017						<0.01		
5/24/2017		<0.01						
6/5/2017					0.0068 (J)			
6/6/2017	<0.01							
6/7/2017			<0.01	<0.01				
6/8/2017							<0.01	<0.01 (D)
6/9/2017						<0.01		
7/17/2017								<0.01 (D)
7/27/2017								<0.01
8/9/2017								<0.01
9/22/2017								
9/25/2017	<0.01							

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 12/7/2018 10:24 AM View: cell 9&10 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

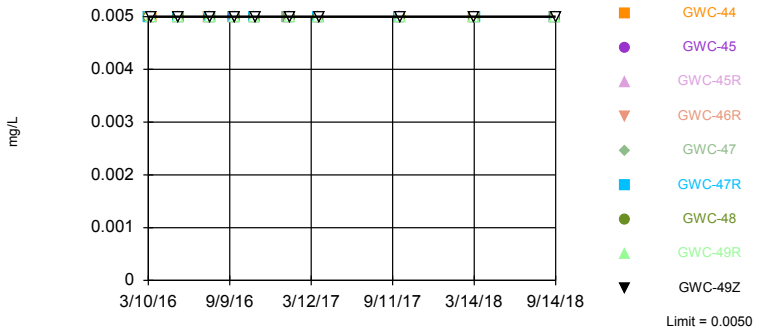
	GWA-41R (bg)	GWA-40 (bg)	GWC-45	GWC-45R	GWC-44	GWC-49Z	GWC-49R	GWA-39R_39RZ ...
9/26/2017		<0.01			0.0037 (J)			
9/29/2017						<0.01	<0.01	<0.01 (D)
3/14/2018	<0.01	<0.01						
3/15/2018			<0.01	<0.01	0.0031 (J)	<0.01	<0.01	
3/16/2018								<0.01
9/12/2018	<0.01	<0.01			<0.01			
9/13/2018			<0.01	<0.01			<0.01	
9/14/2018						<0.01		<0.01

Sanitas™ v.9.5.32 Sanitas software licensed to AMEC. UG
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 77 background values. 98.7% NDs. Annual per-constituent alpha = 0.005812. Individual comparison alpha = 0.0003238 (1 of 2). Comparing 9 points to limit.

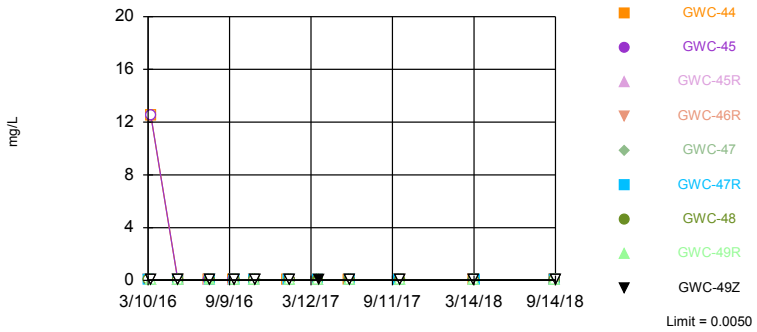
Constituent: Silver Analysis Run 12/7/2018 10:21 AM View: cell 9&10 OB&BR metals
Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

Sanitas™ v.9.5.32 Sanitas software licensed to AMEC. UG
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 88 background values. 93.18% NDs. Annual per-constituent alpha = 0.004468. Individual comparison alpha = 0.0002487 (1 of 2). Comparing 9 points to limit.

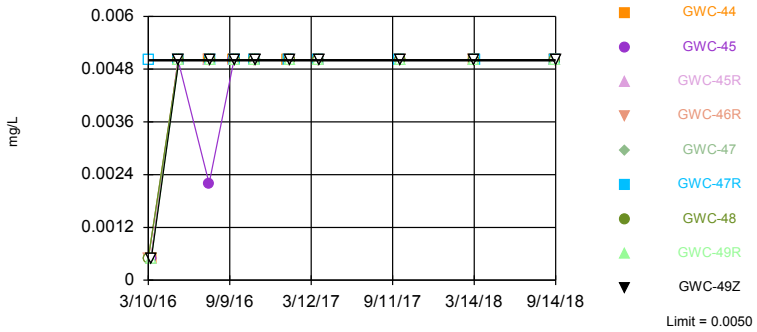
Constituent: Thallium Analysis Run 12/7/2018 10:22 AM View: cell 9&10 OB&BR metals
Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

Sanitas™ v.9.5.32 Sanitas software licensed to AMEC. UG
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 77 background values. 96.1% NDs. Annual per-constituent alpha = 0.005812. Individual comparison alpha = 0.0003238 (1 of 2). Comparing 9 points to limit.

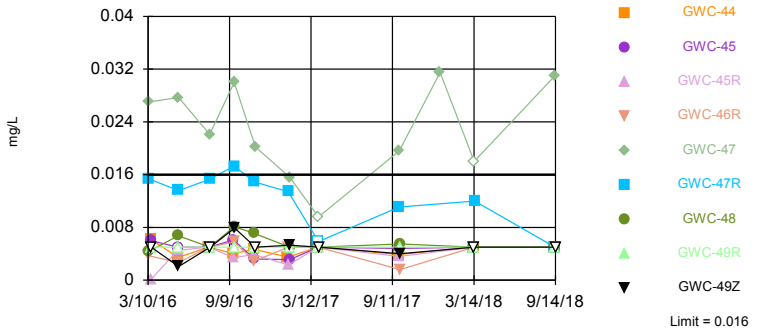
Constituent: Vanadium Analysis Run 12/7/2018 10:22 AM View: cell 9&10 OB&BR metals
Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

Sanitas™ v.9.5.32 Sanitas software licensed to AMEC. UG
Hollow symbols indicate censored values.

Exceeds Limit: GWC-47

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 77 background values. 64.94% NDs. Annual per-constituent alpha = 0.005812. Individual comparison alpha = 0.0003238 (1 of 2). Comparing 9 points to limit.

Constituent: Zinc Analysis Run 12/7/2018 10:22 AM View: cell 9&10 OB&BR metals
Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

Prediction Limit

Constituent: Silver (mg/L) Analysis Run 12/7/2018 10:24 AM View: cell 9&10 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWC-46R	GWC-47R	GWC-48	GWC-47	GWA-42 (bg)	GWA-43 (bg)	GWA-43R (bg)	GWA-39Z (bg)	GWA-41R (bg)
3/10/2016	<0.01	<0.01	<0.01	<0.01					
3/11/2016					<0.01	<0.01	<0.01		
3/14/2016								<0.01	
3/15/2016									<0.01
3/16/2016									
3/17/2016									
5/11/2016								<0.01	
5/12/2016									
5/13/2016						<0.01	<0.01		<0.01
5/16/2016					<0.01				
5/17/2016	<0.01		<0.01						
5/18/2016		<0.01		<0.01					
7/19/2016						<0.01	<0.01	<0.01	
7/20/2016									
7/21/2016									<0.01
7/22/2016					<0.01				
7/25/2016									
7/26/2016	<0.01								
7/27/2016		<0.01	<0.01	<0.01					
7/28/2016									
9/15/2016								<0.01	
9/16/2016						<0.01	<0.01		
9/19/2016					<0.01				
9/20/2016	<0.01	<0.01	<0.01	<0.01					
9/21/2016									<0.01
11/2/2016						<0.01	<0.01	<0.01	
11/3/2016					<0.01				<0.01
11/4/2016	<0.01	<0.01	<0.01						
11/7/2016				<0.01					
1/17/2017					<0.01				<0.01
1/18/2017						<0.01	<0.01	<0.01	
1/19/2017									
1/20/2017	<0.01	<0.01							
1/23/2017			<0.01	<0.01					
1/24/2017									
2/21/2017									
3/24/2017									
3/27/2017					<0.01				<0.01
3/28/2017	<0.01		<0.01			<0.01	<0.01	<0.01	
3/29/2017		<0.01		<0.01					
3/30/2017									
9/22/2017						<0.01	<0.01		
9/25/2017									<0.01
9/26/2017					<0.01			<0.01	
9/27/2017		<0.01		<0.01					
9/29/2017	<0.01		<0.01						
3/14/2018					<0.01	<0.01		<0.01	<0.01
3/15/2018	<0.01		<0.01	<0.01			<0.01		
3/16/2018		<0.01							
9/12/2018						<0.01	<0.01	<0.01	<0.01
9/13/2018	<0.01	<0.01	<0.01	<0.01					
9/14/2018					<0.01				

Prediction Limit

Constituent: Silver (mg/L) Analysis Run 12/7/2018 10:24 AM View: cell 9&10 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWA-41 (bg)	GWA-40 (bg)	GWC-44	GWC-45R	GWC-45	GWC-49Z	GWC-49R	GWA-39R_39RZ ...
3/10/2016								
3/11/2016								
3/14/2016								
3/15/2016	<0.01	<0.01						
3/16/2016			<0.01	<0.01	<0.01			
3/17/2016						<0.01	<0.01	
5/11/2016		<0.01						
5/12/2016	<0.01							
5/13/2016								
5/16/2016			<0.01	<0.01	<0.01			<0.01 (D)
5/17/2016								
5/18/2016						<0.01	<0.01	
7/19/2016								
7/20/2016	<0.01							
7/21/2016		<0.01						
7/22/2016								
7/25/2016			<0.01	<0.01	<0.01			
7/26/2016								
7/27/2016							<0.01	0.0012 (JD)
7/28/2016						<0.01		
9/15/2016	<0.01	<0.01						
9/16/2016								
9/19/2016			<0.01	<0.01	<0.01			
9/20/2016								
9/21/2016						<0.01	<0.01	
11/2/2016								
11/3/2016	<0.01	<0.01	<0.01	<0.01				
11/4/2016					<0.01		<0.01	
11/7/2016						<0.01		
1/17/2017		<0.01						
1/18/2017	<0.01							
1/19/2017			<0.01					
1/20/2017				<0.01				
1/23/2017					<0.01			
1/24/2017						<0.01	<0.01	
2/21/2017								<0.01
3/24/2017	<0.01	<0.01						
3/27/2017								<0.01 (D)
3/28/2017			<0.01					
3/29/2017				<0.01	<0.01		<0.01	
3/30/2017						<0.01		
9/22/2017								
9/25/2017	<0.01							
9/26/2017		<0.01	<0.01					
9/27/2017				<0.01	<0.01			
9/29/2017						<0.01	<0.01	<0.01 (D)
3/14/2018	<0.01	<0.01						
3/15/2018			<0.01	<0.01	<0.01	<0.01	<0.01	
3/16/2018								<0.01
9/12/2018	<0.01	<0.01	<0.01					
9/13/2018				<0.01	<0.01		<0.01	
9/14/2018						<0.01		<0.01

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 12/7/2018 10:24 AM View: cell 9&10 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWC-46R	GWC-47	GWC-47R	GWC-48	GWA-43 (bg)	GWA-42 (bg)	GWA-43R (bg)	GWA-39Z (bg)	GWA-40 (bg)
3/10/2016	<0.01	<0.01	0.00116	<0.01					
3/11/2016					<0.01	<0.01	<0.01		
3/14/2016								<0.01	
3/15/2016									<0.01
3/16/2016									
3/17/2016									
5/11/2016								<0.001	<0.001
5/12/2016									
5/13/2016					<0.001		<0.001		
5/16/2016						<0.001			
5/17/2016	<0.001			<0.001					
5/18/2016		<0.001	0.000768 (J)						
7/19/2016					<0.001 (*)		<0.001	<0.001 (*)	
7/20/2016									
7/21/2016									<0.001
7/22/2016						0.0002 (J)			
7/25/2016									
7/26/2016	7E-05 (J)								
7/27/2016		9E-05 (J)	0.0004 (J)	9E-05 (J)					
7/28/2016									
9/15/2016								<0.001	<0.001
9/16/2016					<0.001		<0.001		
9/19/2016						<0.001			
9/20/2016	<0.001	<0.001	0.0004 (J)	<0.001					
9/21/2016									
11/2/2016					<0.001		<0.001	<0.001	
11/3/2016						<0.001			<0.001
11/4/2016	<0.001		0.0003 (J)	<0.001					
11/7/2016		<0.001							
1/17/2017						<0.001			<0.001
1/18/2017					<0.001		<0.001	<0.001	
1/19/2017									
1/20/2017	<0.001		0.0003 (J)						
1/23/2017		<0.001		<0.001					
1/24/2017									
2/21/2017									
3/24/2017									<0.001
3/27/2017						<0.001			
3/28/2017	7E-05 (J)			6E-05 (J)	5E-05 (J)		<0.001	5E-05 (J)	
3/29/2017		7E-05 (J)	0.0003 (J)						
3/30/2017									
5/24/2017									<0.001
6/5/2017									
6/6/2017					<0.001		<0.001		
6/7/2017	6E-05 (J)					<0.001		<0.001	
6/8/2017		<0.001	0.0003 (J)	8E-05 (J)					
6/9/2017									
7/17/2017									
7/27/2017									
8/9/2017									
9/22/2017					<0.001		<0.001		
9/25/2017									

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 12/7/2018 10:24 AM View: cell 9&10 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWC-46R	GWC-47	GWC-47R	GWC-48	GWA-43 (bg)	GWA-42 (bg)	GWA-43R (bg)	GWA-39Z (bg)	GWA-40 (bg)
9/26/2017						<0.001		7E-05 (J)	<0.001
9/27/2017		6E-05 (J)	0.0003 (J)						
9/29/2017	6E-05 (J)			9E-05 (J)					
3/14/2018					<0.001	<0.001		<0.001	<0.001
3/15/2018	<0.001	<0.001		<0.001			<0.001		
3/16/2018			0.00036 (J)						
9/12/2018					<0.001		<0.001	<0.001	<0.001
9/13/2018	<0.001	<0.001	0.00021 (J)	<0.001					
9/14/2018						<0.001			

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 12/7/2018 10:24 AM View: cell 9&10 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWA-41R (bg)	GWA-41 (bg)	GWC-45	GWC-45R	GWC-44	GWC-49R	GWC-49Z	GWA-39R_39RZ ...
3/10/2016								
3/11/2016								
3/14/2016								
3/15/2016	<0.01	<0.01						
3/16/2016			<25	<0.01	<25			
3/17/2016						<0.01	<0.01	
5/11/2016								
5/12/2016		<0.001						
5/13/2016	<0.001							
5/16/2016			<0.001	<0.001	<0.001			<0.001 (D)
5/17/2016								
5/18/2016						<0.001	<0.001	
7/19/2016								
7/20/2016		<0.001						
7/21/2016	<0.001							
7/22/2016								
7/25/2016			<0.001	<0.001	<0.001			
7/26/2016								
7/27/2016						0.0001 (J)		0.0002 (JD)
7/28/2016							<0.001	
9/15/2016		<0.001						
9/16/2016								
9/19/2016			<0.001	<0.001	<0.001			
9/20/2016								
9/21/2016	<0.001					<0.001	<0.001	
11/2/2016								
11/3/2016	<0.001	<0.001		<0.001	<0.001			
11/4/2016			<0.001			<0.001		
11/7/2016							<0.001	
1/17/2017	<0.001							
1/18/2017		<0.001						
1/19/2017					<0.001			
1/20/2017				<0.001				
1/23/2017			<0.001					
1/24/2017						<0.001	<0.001	
2/21/2017								<0.001
3/24/2017		<0.001						
3/27/2017	<0.001							<0.001 (D)
3/28/2017					5E-05 (J)			
3/29/2017			<0.001	<0.001		<0.001		
3/30/2017							5E-05 (J)	
5/24/2017								
6/5/2017					5E-05 (J)			
6/6/2017	0.0002 (J)	<0.001						
6/7/2017			<0.001	<0.001				
6/8/2017						<0.001		<0.001 (D)
6/9/2017							<0.001	
7/17/2017								<0.001 (D)
7/27/2017								<0.001
8/9/2017								<0.001
9/22/2017								
9/25/2017	<0.001	<0.001						

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 12/7/2018 10:24 AM View: cell 9&10 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWA-41R (bg)	GWA-41 (bg)	GWC-45	GWC-45R	GWC-44	GWC-49R	GWC-49Z	GWA-39R_39RZ ...
9/26/2017					<0.001			
9/27/2017			<0.001	<0.001				
9/29/2017						<0.001	<0.001	<0.001 (D)
3/14/2018	<0.001	<0.001						
3/15/2018			<0.001	<0.001	<0.001	<0.001	<0.001	
3/16/2018								<0.001
9/12/2018	<0.001	<0.001			<0.001			
9/13/2018			<0.001	<0.001		<0.001		
9/14/2018							<0.001	<0.001

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 12/7/2018 10:24 AM View: cell 9&10 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWC-46R	GWC-47R	GWC-48	GWC-47	GWA-42 (bg)	GWA-43 (bg)	GWA-43R (bg)	GWA-39Z (bg)	GWA-41R (bg)
3/10/2016	<0.001	<0.01	<0.001	<0.001					
3/11/2016					<0.001	0.00204 (J)	0.00202 (J)		
3/14/2016								<0.001	
3/15/2016									<0.001
3/16/2016									
3/17/2016									
5/11/2016								<0.01	
5/12/2016									
5/13/2016						<0.01	<0.01		<0.01
5/16/2016					<0.01				
5/17/2016	<0.01		<0.01						
5/18/2016		<0.01		<0.01					
7/19/2016						<0.01	<0.01	<0.01	
7/20/2016									
7/21/2016									<0.01
7/22/2016					<0.01				
7/25/2016									
7/26/2016	<0.01								
7/27/2016		<0.01	<0.01	<0.01					
7/28/2016									
9/15/2016								<0.01	
9/16/2016						<0.01	<0.01		
9/19/2016					<0.01				
9/20/2016	<0.01	<0.01	<0.01	<0.01					
9/21/2016									<0.01
11/2/2016						<0.01	<0.01	<0.01	
11/3/2016					<0.01				<0.01
11/4/2016	<0.01	<0.01	<0.01						
11/7/2016				<0.01					
1/17/2017					<0.01				<0.01
1/18/2017						<0.01	<0.01	<0.01	
1/19/2017									
1/20/2017	<0.01	<0.01							
1/23/2017			<0.01	<0.01					
1/24/2017									
2/21/2017									
3/24/2017									
3/27/2017					<0.01				<0.01
3/28/2017	<0.01		<0.01			<0.01	<0.01	<0.01	
3/29/2017		<0.01		<0.01					
3/30/2017									
9/22/2017						<0.01	<0.01		
9/25/2017									<0.01
9/26/2017					<0.01			<0.01	
9/27/2017		<0.01		<0.01					
9/29/2017	<0.01		<0.01						
3/14/2018					<0.01	<0.01		<0.01	<0.01
3/15/2018	<0.01		<0.01	<0.01			<0.01		
3/16/2018		<0.01							
9/12/2018						<0.01	<0.01	<0.01	<0.01
9/13/2018	<0.01	<0.01	<0.01	<0.01					
9/14/2018					<0.01				

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 12/7/2018 10:24 AM View: cell 9&10 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWA-41 (bg)	GWA-40 (bg)	GWC-44	GWC-45R	GWC-45	GWC-49Z	GWC-49R	GWA-39R_39RZ ...
3/10/2016								
3/11/2016								
3/14/2016								
3/15/2016	<0.001	<0.001						
3/16/2016			<0.001	<0.001	<0.001			
3/17/2016						<0.001	<0.001	
5/11/2016		<0.01						
5/12/2016	<0.01							
5/13/2016								
5/16/2016			<0.01	<0.01	<0.01			<0.01 (D)
5/17/2016								
5/18/2016						<0.01	<0.01	
7/19/2016								
7/20/2016	<0.01							
7/21/2016		<0.01						
7/22/2016								
7/25/2016			<0.01	<0.01	0.0022 (J)			
7/26/2016								
7/27/2016							<0.01	0.002 (JD)
7/28/2016						<0.01		
9/15/2016	<0.01	<0.01						
9/16/2016								
9/19/2016			<0.01	<0.01	<0.01			
9/20/2016								
9/21/2016						<0.01	<0.01	
11/2/2016								
11/3/2016	<0.01	<0.01	<0.01	<0.01				
11/4/2016					<0.01		<0.01	
11/7/2016						<0.01		
1/17/2017		<0.01						
1/18/2017	<0.01							
1/19/2017			<0.01					
1/20/2017				<0.01				
1/23/2017					<0.01			
1/24/2017						<0.01	<0.01	
2/21/2017								<0.01
3/24/2017	<0.01	<0.01						
3/27/2017								<0.01 (D)
3/28/2017			<0.01					
3/29/2017				<0.01	<0.01		<0.01	
3/30/2017						<0.01		
9/22/2017								
9/25/2017	<0.01							
9/26/2017		<0.01	<0.01					
9/27/2017				<0.01	<0.01			
9/29/2017						<0.01	<0.01	<0.01 (D)
3/14/2018	<0.01	<0.01						
3/15/2018			<0.01	<0.01	<0.01	<0.01	<0.01	
3/16/2018								<0.01
9/12/2018	<0.01	<0.01	<0.01					
9/13/2018				<0.01	<0.01		<0.01	
9/14/2018						<0.01		<0.01

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 12/7/2018 10:24 AM View: cell 9&10 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWC-46R	GWC-47R	GWC-48	GWC-47	GWA-42 (bg)	GWA-43 (bg)	GWA-43R (bg)	GWA-39Z (bg)	GWA-41R (bg)
3/10/2016	0.00373 (J)	0.0154	0.00432 (J)	0.027					
3/11/2016					0.00862 (J)	0.0093 (J)	0.00722 (J)		
3/14/2016								<0.01	
3/15/2016									0.00286 (J)
3/16/2016									
3/17/2016									
5/11/2016								0.00467 (J)	
5/12/2016									
5/13/2016						0.00336 (J)	0.00666 (J)		<0.01
5/16/2016					0.00744 (J)				
5/17/2016	0.00268 (J)		0.00672 (J)						
5/18/2016		0.0136		0.0277					
7/19/2016						<0.01 (*)	<0.01 (*)	<0.01 (*)	
7/20/2016									
7/21/2016									<0.01 (*)
7/22/2016					<0.01 (*)				
7/25/2016									
7/26/2016	<0.01 (*)								
7/27/2016		0.0153	<0.01 (*)	0.0221					
7/28/2016									
9/15/2016								0.0044 (J)	
9/16/2016						0.0023 (J)	<0.01		
9/19/2016					0.0162				
9/20/2016	0.0058 (J)	0.0173	0.0081 (J)	0.03					
9/21/2016									<0.01
11/2/2016						0.0047 (J)	0.0057 (J)	0.0043 (J)	
11/3/2016					0.011				<0.01
11/4/2016	0.0029 (J)	0.0149	0.0071 (J)						
11/7/2016				0.0202					
1/17/2017					0.0104				<0.01
1/18/2017						<0.01	0.0022 (J)	<0.01 (*)	
1/19/2017									
1/20/2017	<0.01	0.0134							
1/23/2017			<0.01	0.0156					
1/24/2017									
2/21/2017									
3/24/2017									
3/27/2017					<0.01 (*)				<0.01 (*)
3/28/2017	<0.01 (*)		<0.01 (*)			<0.01 (*)	<0.01	<0.01 (*)	
3/29/2017		<0.0117 (*)		<0.0192 (*)					
3/30/2017									
9/22/2017						0.0013 (J)	0.0014 (J)		
9/25/2017									0.0023 (J)
9/26/2017					0.0094 (J)			0.0029 (J)	
9/27/2017		0.0111		0.0196					
9/29/2017	0.0016 (J)		0.0055 (J)						
12/28/2017				0.0315 (Y)					
3/14/2018					<0.01	<0.01		<0.01	<0.01
3/15/2018	<0.01		<0.01	<0.036			<0.01		
3/16/2018		0.012							
9/12/2018						<0.01	<0.01	<0.01	<0.01
9/13/2018	<0.01	<0.01	<0.01	0.031					

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 12/7/2018 10:24 AM View: cell 9&10 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWC-46R	GWC-47R	GWC-48	GWC-47	GWA-42 (bg)	GWA-43 (bg)	GWA-43R (bg)	GWA-39Z (bg)	GWA-41R (bg)
9/14/2018					<0.01				

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 12/7/2018 10:24 AM View: cell 9&10 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWA-41 (bg)	GWA-40 (bg)	GWC-44	GWC-45R	GWC-45	GWC-49Z	GWC-49R	GWA-39R_39RZ ...
3/10/2016								
3/11/2016								
3/14/2016								
3/15/2016	<0.01	<0.01						
3/16/2016			0.00622 (J)	0.000113 (J)	0.00599 (J)			
3/17/2016						<0.01	<0.01	
5/11/2016		<0.01						
5/12/2016	<0.01							
5/13/2016								
5/16/2016			0.00345 (J)	0.00452 (J)	<0.01			<0.01 (D)
5/17/2016								
5/18/2016						0.00208 (J)	<0.01	
7/19/2016								
7/20/2016	<0.01							
7/21/2016		<0.01 (*)						
7/22/2016								
7/25/2016			<0.01 (*)	<0.01 (*)	<0.01 (*)			
7/26/2016								
7/27/2016							<0.01 (*)	<0.01 (*)
7/28/2016						<0.01 (*)		
9/15/2016	0.0027 (J)	<0.01						
9/16/2016								
9/19/2016			0.004 (J)	0.0034 (J)	0.0061 (J)			
9/20/2016								
9/21/2016						0.0079 (J)	<0.01	
11/2/2016								
11/3/2016	<0.01	<0.01	0.0047 (J)	0.0039 (J)				
11/4/2016					0.0032 (J)		<0.01	
11/7/2016						<0.01 (*)		
1/17/2017		<0.01						
1/18/2017	<0.01 (*)							
1/19/2017			0.0035 (J)					
1/20/2017				0.0023 (J)				
1/23/2017					0.0031 (J)			
1/24/2017						0.0053 (J)	<0.01	
2/21/2017								0.0049 (J)
3/24/2017	<0.01 (*)	<0.01 (*)						
3/27/2017								<0.01 (*)
3/28/2017			<0.01 (*)					
3/29/2017				<0.01 (*)	<0.01 (*)		<0.01 (*)	
3/30/2017						<0.01 (*)		
9/22/2017								
9/25/2017	<0.01							
9/26/2017		0.0019 (J)	0.0039 (J)					
9/27/2017				0.0036 (J)	0.0048 (J)			
9/29/2017						0.004 (J)	<0.01	0.0012 (JD)
12/28/2017								
3/14/2018	<0.01	<0.01						
3/15/2018			<0.01	<0.01	<0.01	<0.01	<0.01	
3/16/2018								0.0042 (J)
9/12/2018	<0.01	<0.01	<0.01					
9/13/2018				<0.01	<0.01		<0.01	

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 12/7/2018 10:24 AM View: cell 9&10 OB&BR metals

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWA-41 (bg)	GWA-40 (bg)	GWC-44	GWC-45R	GWC-45	GWC-49Z	GWC-49R	GWA-39R_39RZ ...
9/14/2018						<0.01		<0.01

Interwell Prediction Limit

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR Printed 12/3/2018, 1:28 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
pH (pH units)	**GWC-44**	**7.9**	**5.6**	**9/12/2018**	**4.49**	**Yes**	**93**	**0**	**n/a**	**0.000...**	NP (normality) 1 of 2
pH (pH units)	**GWC-45**	**7.9**	**5.6**	**9/13/2018**	**5.26**	**Yes**	**93**	**0**	**n/a**	**0.000...**	NP (normality) 1 of 2
pH (pH units)	**GWC-48**	**7.9**	**5.6**	**9/13/2018**	**5.02**	**Yes**	**93**	**0**	**n/a**	**0.000...**	NP (normality) 1 of 2
pH (pH units)	**GWC-49R**	**7.9**	**5.6**	**9/13/2018**	**8.02**	**Yes**	**93**	**0**	**n/a**	**0.000...**	NP (normality) 1 of 2
pH (pH units)	**GWC-49Z**	**7.9**	**5.6**	**9/14/2018**	**5.38**	**Yes**	**93**	**0**	**n/a**	**0.000...**	NP (normality) 1 of 2

Interwell Prediction Limit

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR Printed 12/3/2018, 1:28 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Boron (mg/L)	GWC-44	0.050	n/a	9/12/2018	0.0051	No	88	69.32	n/a	0.000...	NP (NDs) 1 of 2
Boron (mg/L)	GWC-45	0.050	n/a	9/13/2018	0.02ND	No	88	69.32	n/a	0.000...	NP (NDs) 1 of 2
Boron (mg/L)	GWC-45R	0.050	n/a	9/13/2018	0.02ND	No	88	69.32	n/a	0.000...	NP (NDs) 1 of 2
Boron (mg/L)	GWC-46R	0.050	n/a	9/13/2018	0.02ND	No	88	69.32	n/a	0.000...	NP (NDs) 1 of 2
Boron (mg/L)	GWC-47	0.050	n/a	9/13/2018	0.02ND	No	88	69.32	n/a	0.000...	NP (NDs) 1 of 2
Boron (mg/L)	GWC-47R	0.050	n/a	9/13/2018	0.02ND	No	88	69.32	n/a	0.000...	NP (NDs) 1 of 2
Boron (mg/L)	GWC-48	0.050	n/a	9/13/2018	0.02ND	No	88	69.32	n/a	0.000...	NP (NDs) 1 of 2
Boron (mg/L)	GWC-49R	0.050	n/a	9/13/2018	0.02ND	No	88	69.32	n/a	0.000...	NP (NDs) 1 of 2
Boron (mg/L)	GWC-49Z	0.050	n/a	9/14/2018	0.02ND	No	88	69.32	n/a	0.000...	NP (NDs) 1 of 2
Fluoride (mg/L)	GWC-44	0.27	n/a	9/12/2018	0.062	No	88	51.14	n/a	0.000...	NP (NDs) 1 of 2
Fluoride (mg/L)	GWC-45	0.27	n/a	9/13/2018	0.15ND	No	88	51.14	n/a	0.000...	NP (NDs) 1 of 2
Fluoride (mg/L)	GWC-45R	0.27	n/a	9/13/2018	0.15ND	No	88	51.14	n/a	0.000...	NP (NDs) 1 of 2
Fluoride (mg/L)	GWC-46R	0.27	n/a	9/13/2018	0.15ND	No	88	51.14	n/a	0.000...	NP (NDs) 1 of 2
Fluoride (mg/L)	GWC-47	0.27	n/a	9/13/2018	0.047	No	88	51.14	n/a	0.000...	NP (NDs) 1 of 2
Fluoride (mg/L)	GWC-47R	0.27	n/a	9/13/2018	0.15ND	No	88	51.14	n/a	0.000...	NP (NDs) 1 of 2
Fluoride (mg/L)	GWC-48	0.27	n/a	9/13/2018	0.15ND	No	88	51.14	n/a	0.000...	NP (NDs) 1 of 2
Fluoride (mg/L)	GWC-49R	0.27	n/a	9/13/2018	0.15ND	No	88	51.14	n/a	0.000...	NP (NDs) 1 of 2
Fluoride (mg/L)	GWC-49Z	0.27	n/a	9/14/2018	0.15ND	No	88	51.14	n/a	0.000...	NP (NDs) 1 of 2
pH (pH units)	**GWC-44**	**7.9**	**5.6**	**9/12/2018**	**4.49**	**Yes**	**93**	**0**	**n/a**	**0.000...**	NP (normality) 1 of 2
pH (pH units)	**GWC-45**	**7.9**	**5.6**	**9/13/2018**	**5.26**	**Yes**	**93**	**0**	**n/a**	**0.000...**	NP (normality) 1 of 2
pH (pH units)	GWC-45R	7.9	5.6	9/13/2018	7.31	No	93	0	n/a	0.000...	NP (normality) 1 of 2
pH (pH units)	GWC-46R	7.9	5.6	9/13/2018	7.52	No	93	0	n/a	0.000...	NP (normality) 1 of 2
pH (pH units)	GWC-47	7.9	5.6	9/13/2018	7.49	No	93	0	n/a	0.000...	NP (normality) 1 of 2
pH (pH units)	GWC-47R	7.9	5.6	9/13/2018	7.68	No	93	0	n/a	0.000...	NP (normality) 1 of 2
pH (pH units)	**GWC-48**	**7.9**	**5.6**	**9/13/2018**	**5.02**	**Yes**	**93**	**0**	**n/a**	**0.000...**	NP (normality) 1 of 2
pH (pH units)	**GWC-49R**	**7.9**	**5.6**	**9/13/2018**	**8.02**	**Yes**	**93**	**0**	**n/a**	**0.000...**	NP (normality) 1 of 2
pH (pH units)	**GWC-49Z**	**7.9**	**5.6**	**9/14/2018**	**5.38**	**Yes**	**93**	**0**	**n/a**	**0.000...**	NP (normality) 1 of 2

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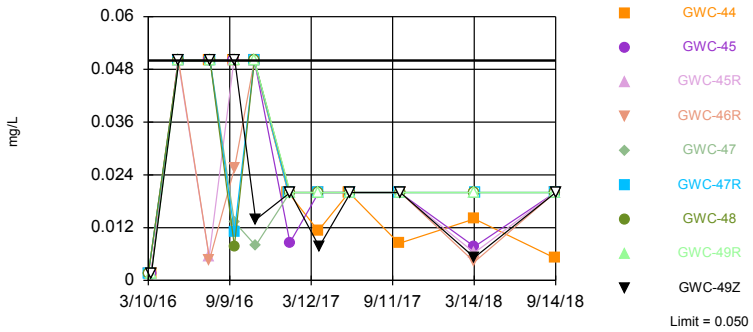
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 88 background values. 69.32% NDs. Annual per-constituent alpha = 0.004468. Individual comparison alpha = 0.0002487 (1 of 2). Comparing 9 points to limit.

Constituent: Boron Analysis Run 12/3/2018 1:26 PM View: cells9&10_AppIII_interwell
Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

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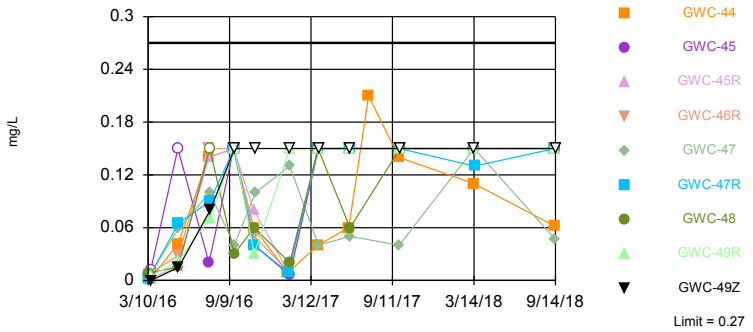
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 88 background values. 51.14% NDs. Annual per-constituent alpha = 0.004468. Individual comparison alpha = 0.0002487 (1 of 2). Comparing 9 points to limit.

Constituent: Fluoride Analysis Run 12/3/2018 1:27 PM View: cells9&10_AppIII_interwell
Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

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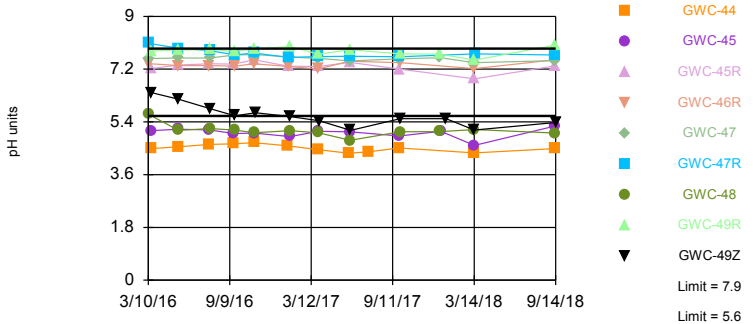
Exceeds Limits: GWC-44, GWC-45, GWC-48, GWC-49R, GWC-49Z

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. Limits are highest and lowest of 93 background values. Annual per-constituent alpha = 0.008026. Individual comparison alpha = 0.0004467 (1 of 2). Comparing 9 points to limit.

Constituent: pH Analysis Run 12/3/2018 1:27 PM View: cells9&10_AppIII_interwell
Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 12/3/2018 1:28 PM View: cells9&10_AppIII_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWC-46R	GWC-47	GWC-47R	GWC-48	GWA-43 (bg)	GWA-42 (bg)	GWA-43R (bg)	GWA-39Z (bg)	GWA-40 (bg)
3/10/2016	<0.003	<0.003	<0.003	<0.003					
3/11/2016					<0.003	<0.003	<0.003		
3/14/2016								<0.003	
3/15/2016									<0.003
3/16/2016									
3/17/2016									
5/11/2016								<0.1	<0.1
5/12/2016									
5/13/2016					<0.1		<0.1		
5/16/2016						<0.1			
5/17/2016	<0.1			<0.1					
5/18/2016		<0.1	<0.1						
7/19/2016					<0.1 (*)		<0.1 (*)	<0.1 (*)	
7/20/2016									
7/21/2016									<0.1
7/22/2016						0.0076 (J)			
7/25/2016									
7/26/2016	0.0047 (J)								
7/27/2016		<0.1 (*)	<0.1	<0.1 (*)					
7/28/2016									
9/15/2016								0.0067 (J)	<0.1
9/16/2016					<0.1		0.0246 (J)		
9/19/2016						<0.1			
9/20/2016	0.0254 (J)	0.0133 (J)	0.0109 (J)	0.0078 (J)					
9/21/2016									
11/2/2016					<0.1		0.0279 (J)	<0.1	
11/3/2016						<0.1			<0.1 (*)
11/4/2016	<0.1		<0.1	<0.1					
11/7/2016		0.0079 (J)							
1/17/2017						<0.04			<0.04
1/18/2017					<0.04		0.0336 (J)	<0.04	
1/19/2017									
1/20/2017	<0.04		<0.04						
1/23/2017		<0.04		<0.04					
1/24/2017									
2/21/2017									
3/24/2017									<0.04
3/27/2017						0.0101 (J)			
3/28/2017	<0.04			<0.04	<0.04		0.0313 (J)	<0.04	
3/29/2017		<0.04	<0.04						
3/30/2017									
5/24/2017									<0.04
6/5/2017									
6/6/2017					<0.04 (*)		<0.04 (*)		
6/7/2017	<0.04 (*)					<0.04 (*)		<0.04 (*)	
6/8/2017		<0.04	<0.04	<0.04					
6/9/2017									
7/17/2017									
7/27/2017									
8/9/2017									
9/22/2017					<0.04		0.0294 (J)		
9/25/2017									

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 12/3/2018 1:28 PM View: cells9&10_AppIII_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWC-46R	GWC-47	GWC-47R	GWC-48	GWA-43 (bg)	GWA-42 (bg)	GWA-43R (bg)	GWA-39Z (bg)	GWA-40 (bg)
9/26/2017						<0.04		<0.04	0.0075 (J)
9/27/2017		<0.04	<0.04						
9/29/2017	<0.04			<0.04					
3/14/2018					<0.04	<0.04		<0.04	0.0093 (J)
3/15/2018	0.0042 (J)	<0.04		<0.04			0.018 (J)		
3/16/2018			<0.04						
9/12/2018					<0.04		0.018 (J)	<0.04	<0.04
9/13/2018	<0.04	<0.04	<0.04	<0.04					
9/14/2018						<0.04			

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 12/3/2018 1:28 PM View: cells9&10_AppIII_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWA-41R (bg)	GWA-41 (bg)	GWC-45	GWC-45R	GWC-44	GWC-49R	GWC-49Z	GWA-39R_39RZ ...
3/10/2016								
3/11/2016								
3/14/2016								
3/15/2016	<0.003	<0.003						
3/16/2016			<0.003	<0.003	<0.003			
3/17/2016						<0.003	<0.003	
5/11/2016								
5/12/2016		<0.1						
5/13/2016	<0.1							
5/16/2016			<0.1	<0.1	<0.1			<0.1 (D)
5/17/2016								
5/18/2016						<0.1	<0.1	
7/19/2016								
7/20/2016		<0.1						
7/21/2016	<0.1 (*)							
7/22/2016								
7/25/2016			<0.1	0.0054 (J)	<0.1			
7/26/2016								
7/27/2016						<0.1 (*)		<0.1 (*)
7/28/2016							<0.1 (*)	
9/15/2016		<0.1						
9/16/2016								
9/19/2016			<0.1	<0.1	<0.1			
9/20/2016								
9/21/2016	<0.1 (*)					<0.1 (*)	<0.1 (*)	
11/2/2016								
11/3/2016	<0.1	<0.1		<0.1	<0.1			
11/4/2016			<0.1			<0.1		
11/7/2016							0.0138 (J)	
1/17/2017	<0.04							
1/18/2017		<0.04						
1/19/2017					<0.04			
1/20/2017				<0.04				
1/23/2017			0.0086 (J)					
1/24/2017						<0.04	<0.04	
2/21/2017								0.0218 (JD)
3/24/2017		0.0154 (J)						
3/27/2017	0.0173 (J)							0.0262 (JD)
3/28/2017					0.0113 (J)			
3/29/2017			<0.04	<0.04		<0.04		
3/30/2017							0.0077 (J)	
5/24/2017								
6/5/2017					<0.04 (*)			
6/6/2017	<0.04 (*)	<0.04						
6/7/2017			<0.04 (*)	<0.04 (*)				
6/8/2017						<0.04		0.0067 (JD)
6/9/2017							<0.04	
7/17/2017								0.0165 (JD)
7/27/2017								0.0138 (JD)
8/9/2017								0.0069 (JD)
9/22/2017								
9/25/2017	0.0141 (J)	<0.04						

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 12/3/2018 1:28 PM View: cells9&10_AppIII_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWA-41R (bg)	GWA-41 (bg)	GWC-45	GWC-45R	GWC-44	GWC-49R	GWC-49Z	GWA-39R_39RZ ...
9/26/2017					0.0084 (J)			
9/27/2017			<0.04	<0.04				
9/29/2017						<0.04	<0.04	0.0066 (JD)
3/14/2018	0.014 (J)	0.011 (J)						
3/15/2018			0.0077 (J)	0.0063 (J)	0.014 (J)	<0.04	0.0052 (J)	
3/16/2018								0.0067 (J)
9/12/2018	0.013 (J)	<0.04			0.0051 (J)			
9/13/2018			<0.04	<0.04		<0.04		
9/14/2018							<0.04	0.0059 (J)

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 12/3/2018 1:28 PM View: cells9&10_AppIII_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWC-47	GWC-46R	GWC-47R	GWC-48	GWA-43R (bg)	GWA-43 (bg)	GWA-42 (bg)	GWA-39Z (bg)	GWA-40 (bg)
3/10/2016	0.00337 (J)	0.00697 (J)	0.00202 (J)	0.00797 (J)					
3/11/2016					0.0141 (J)	0.0329 (J)	0.0296 (J)		
3/14/2016								0.0657 (J)	
3/15/2016									<0.01
3/16/2016									
3/17/2016									
5/11/2016								0.0401 (J)	0.0255 (J)
5/12/2016									
5/13/2016					0.0141 (J)	0.0459 (J)			
5/16/2016							0.0287 (J)		
5/17/2016		0.0281 (J)		0.0156 (J)					
5/18/2016	0.059 (J)		0.065 (J)						
7/19/2016					<0.3	<0.3		<0.3	
7/20/2016									
7/21/2016									<0.3
7/22/2016							0.04 (J)		
7/25/2016									
7/26/2016		<0.3							
7/27/2016	0.1 (J)		0.09 (J)	<0.3					
7/28/2016									
9/15/2016								<0.3	
9/16/2016					<0.3	<0.3			
9/19/2016							<0.3		<0.3
9/20/2016	0.04 (J)	<0.3	<0.3	0.03 (J)					
9/21/2016									
11/2/2016					0.04 (J)	0.04 (J)		0.04 (J)	
11/3/2016							0.04 (J)		0.11 (J)
11/4/2016		0.05 (J)	0.04 (J)	0.06 (J)					
11/7/2016	0.1 (J)								
1/17/2017							0.02 (J)		0.02 (J)
1/18/2017					0.02 (J)	<0.3		0.03 (J)	
1/19/2017									
1/20/2017		0.01 (J)	0.009 (J)						
1/23/2017	0.13 (J)			0.02 (J)					
1/24/2017									
2/21/2017									
3/24/2017									<0.3
3/27/2017							<0.3		
3/28/2017		<0.3		<0.3	<0.3	<0.3		0.06 (J)	
3/29/2017	0.04 (J)		<0.3						
3/30/2017									
5/24/2017									<0.3
6/5/2017									
6/6/2017					<0.3	<0.3			
6/7/2017		<0.3					<0.3	0.06 (J)	
6/8/2017	0.05 (J)		<0.3 (*)	0.06 (J)					
6/9/2017									
7/17/2017									
7/20/2017									
7/27/2017									
8/9/2017									
9/22/2017					<0.3	<0.3			

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 12/3/2018 1:28 PM View: cells9&10_AppIII_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWC-47	GWC-46R	GWC-47R	GWC-48	GWA-43R (bg)	GWA-43 (bg)	GWA-42 (bg)	GWA-39Z (bg)	GWA-40 (bg)
9/25/2017									
9/26/2017							<0.3	0.04 (J)	<0.3
9/27/2017	0.04 (J)		<0.3						
9/29/2017		<0.3		<0.3					
3/14/2018						<0.3	0.06 (J)	0.14 (J)	0.055 (J)
3/15/2018	<0.3	<0.3		<0.3	<0.3				
3/16/2018			0.13 (J)						
9/12/2018					<0.3	<0.3		<0.3	<0.3
9/13/2018	0.047 (J)	<0.3	<0.3	<0.3					
9/14/2018							<0.3		

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 12/3/2018 1:28 PM View: cells9&10_AppIII_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWA-41 (bg)	GWA-41R (bg)	GWC-45	GWC-44	GWC-45R	GWC-49R	GWC-49Z	GWA-39R_39RZ ...
3/10/2016								
3/11/2016								
3/14/2016								
3/15/2016	0.0285 (J)	0.0394 (J)						
3/16/2016			<0.025	0.00218 (J)	0.00244 (J)			
3/17/2016						<0.01	0 (J)	
5/11/2016								
5/12/2016	0.022 (J)							
5/13/2016		0.0234 (J)						
5/16/2016			<0.3	0.0415 (J)	0.0161 (J)			0.0202 (JD)
5/17/2016								
5/18/2016						0.022 (J)	0.015 (J)	
7/19/2016								
7/20/2016	<0.3							
7/21/2016		<0.3						
7/22/2016								
7/25/2016			0.02 (J)	0.14 (J)	0.14 (J)			
7/26/2016								
7/27/2016						0.07 (J)		0.08 (JD)
7/28/2016							0.08 (J)	
9/15/2016	<0.3							
9/16/2016								
9/19/2016			<0.3	<0.3	<0.3			
9/20/2016								
9/21/2016		<0.3				<0.3	<0.3	
11/2/2016								
11/3/2016	0.05 (J)	0.12 (J)		0.06 (J)	0.08 (J)			
11/4/2016			0.04 (J)			0.03 (J)		
11/7/2016							<0.3	
1/17/2017		0.01 (J)						
1/18/2017	0.02 (J)							
1/19/2017				0.009 (J)				
1/20/2017					0.01 (J)			
1/23/2017			0.006 (J)					
1/24/2017						<0.3	<0.3	
2/21/2017								0.17 (JD)
3/24/2017	<0.3							
3/27/2017		<0.3						0.09 (JD)
3/28/2017				0.04 (J)				
3/29/2017			<0.3		<0.3	<0.3		
3/30/2017							<0.3	
5/24/2017								
6/5/2017				0.06 (J)				
6/6/2017	<0.3	<0.3						
6/7/2017			<0.3		<0.3			
6/8/2017						<0.3 (*)		0.05 (JD)
6/9/2017							<0.3	
7/17/2017								0.05 (JD)
7/20/2017				0.21 (J)				
7/27/2017								0.08 (JD)
8/9/2017								<0.3 (*)
9/22/2017								

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 12/3/2018 1:28 PM View: cells9&10_AppIII_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWA-41 (bg)	GWA-41R (bg)	GWC-45	GWC-44	GWC-45R	GWC-49R	GWC-49Z	GWA-39R_39RZ ...
9/25/2017	<0.3	<0.3						
9/26/2017				0.14 (J)				
9/27/2017			<0.3		<0.3			
9/29/2017						<0.3	<0.3	0.04 (JD)
3/14/2018	<0.3	<0.3						
3/15/2018			<0.3	0.11 (J)	<0.3	<0.3	<0.3	
3/16/2018								0.27 (J)
9/12/2018	<0.3	<0.3		0.062 (J)				
9/13/2018			<0.3		<0.3	<0.3		
9/14/2018							<0.3	0.1 (J)

Prediction Limit

Constituent: pH (pH units) Analysis Run 12/3/2018 1:28 PM View: cells9&10_AppIII_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWC-47R	GWC-48	GWC-46R	GWC-47	GWA-42 (bg)	GWA-43 (bg)	GWA-43R (bg)	GWA-39Z (bg)	GWA-41 (bg)
3/10/2016	8.08	5.66	7.39	7.56					
3/11/2016					7.37	6.43	7.89		
3/14/2016								6.91	
3/15/2016									6.74
3/16/2016									
3/17/2016									
5/11/2016								6.51	
5/12/2016									6.41
5/13/2016						6.8	7.86		
5/16/2016					7.55				
5/17/2016		5.11	7.32						
5/18/2016	7.91			7.58					
7/19/2016						6.42	7.83	6.12	
7/20/2016									6.59
7/21/2016									
7/22/2016					7.51				
7/25/2016									
7/26/2016			7.32						
7/27/2016	7.83	5.17		7.58					
7/28/2016									
9/15/2016								5.96	
9/16/2016						6.19	7.75		
9/19/2016					7.52				
9/20/2016	7.69	5.12	7.3	7.68					
9/21/2016									
11/2/2016						6.36	7.77	5.78	
11/3/2016					7.56				6.45
11/4/2016	7.75	5.03	7.38						
11/7/2016				7.7					
1/17/2017					7.59				
1/18/2017						6.16	7.65	6.13	6.34
1/19/2017									
1/20/2017	7.6		7.29						
1/23/2017		5.1		7.61					
1/24/2017									
2/21/2017									
3/24/2017									6.42
3/27/2017					7.63				
3/28/2017		5.03	7.21			5.8	7.79	6.59	
3/29/2017	7.63			7.57					
3/30/2017									
5/24/2017									
6/5/2017									
6/6/2017						5.97	7.89		6.82
6/7/2017			7.47		7.55			6.72	
6/8/2017	7.64	4.77		7.48					
6/9/2017									
7/17/2017									
7/20/2017									
7/26/2017									
7/27/2017									
8/8/2017									

Prediction Limit

Constituent: pH (pH units) Analysis Run 12/3/2018 1:28 PM View: cells9&10_AppIII_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWC-47R	GWC-48	GWC-46R	GWC-47	GWA-42 (bg)	GWA-43 (bg)	GWA-43R (bg)	GWA-39Z (bg)	GWA-41 (bg)
8/9/2017									
9/22/2017						5.77	7.8		
9/25/2017									6.63
9/26/2017					7.59			7.05	
9/27/2017	7.62			7.55					
9/29/2017		5.06	7.42						
12/28/2017		5.07 (Y)		7.59 (Y)			7.78 (Y)	6.79 (Y)	
12/29/2017									
1/10/2018									
3/14/2018					7.6	5.85		7.42	7.08
3/15/2018		5.14	7.22	7.42			7.66		
3/16/2018	7.72								
9/12/2018						5.65	7.75	6.86	6.54
9/13/2018	7.68	5.02	7.52	7.49					
9/14/2018					7.37				

Prediction Limit

Constituent: pH (pH units) Analysis Run 12/3/2018 1:28 PM View: cells9&10_AppIII_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWA-40 (bg)	GWA-41R (bg)	GWC-45	GWC-45R	GWC-44	GWC-49R	GWC-49Z	GWA-39R_39RZ ...
3/10/2016								
3/11/2016								
3/14/2016								
3/15/2016	7.58	7.15						
3/16/2016			5.1	7.22	4.49			
3/17/2016						7.82	6.4	
5/11/2016	7.24							
5/12/2016								
5/13/2016		7.29						
5/16/2016			5.15	7.34	4.55			7.61 (D)
5/17/2016								
5/18/2016						7.85	6.17	
7/19/2016								
7/20/2016								
7/21/2016	7.53	7.43						
7/22/2016								
7/25/2016			5.13	7.38	4.63			
7/26/2016								
7/27/2016						7.87		7.51 (D)
7/28/2016							5.85	
9/15/2016	7							
9/16/2016								
9/19/2016	7.19		5	7.37	4.65			
9/20/2016								
9/21/2016		7.05				7.8	5.61	
11/2/2016								
11/3/2016	7.13	7.4		7.52	4.69			
11/4/2016			5.02			7.89		
11/7/2016							5.71	
1/17/2017	7.51	7.06						
1/18/2017								
1/19/2017					4.58			
1/20/2017				7.3				
1/23/2017			4.9					
1/24/2017						7.97	5.58	
2/21/2017								7.76 (D)
3/24/2017	7.55							
3/27/2017		7.13						7.7 (D)
3/28/2017					4.45			
3/29/2017			5.08	7.29		7.71		
3/30/2017							5.44	
5/24/2017	7.6							
6/5/2017					4.33			
6/6/2017		7.18						
6/7/2017			5.06	7.43				
6/8/2017						7.86		7.69 (D)
6/9/2017							5.11	
7/17/2017								7.57 (D)
7/20/2017					4.38			
7/26/2017								7.63
7/27/2017								7.63
8/8/2017								7.73

Prediction Limit

Constituent: pH (pH units) Analysis Run 12/3/2018 1:28 PM View: cells9&10_AppIII_interwell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWA-40 (bg)	GWA-41R (bg)	GWC-45	GWC-45R	GWC-44	GWC-49R	GWC-49Z	GWA-39R_39RZ ...
8/9/2017								7.73
9/22/2017								
9/25/2017		6.88						
9/26/2017	7.66				4.51			
9/27/2017			4.92	7.2				
9/29/2017						7.72	5.51	7.7 (D)
12/28/2017	7.34 (Y)					7.71 (Y)		
12/29/2017			5.08 (Y)					
1/10/2018							5.51 (Y)	
3/14/2018	7.56	7.04						
3/15/2018			4.6	6.87	4.34	7.51	5.12	
3/16/2018								7.49
9/12/2018	7.12	7.02			4.49			
9/13/2018			5.26	7.31		8.02		
9/14/2018							5.38	7.32

Intrawell Prediction Limit

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR Printed 12/4/2018, 8:47 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Calcium (mg/L)	**GWA-39Z**	**24**	**n/a**	**9/12/2018**	**25.1**	**Yes**	**8**	**0**	**No**	**0.000...**	Param 1 of 3
Sulfate (mg/L)	**GWC-47R**	**11**	**n/a**	**9/13/2018**	**11.6**	**Yes**	**8**	**0**	**No**	**0.000...**	Param 1 of 3
Total Dissolved Solids (mg/l)	**GWA-39Z**	**110**	**n/a**	**9/12/2018**	**134**	**Yes**	**7**	**0**	**No**	**0.000...**	Param 1 of 3

Intrawell Prediction Limit

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR Printed 12/4/2018, 8:47 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Calcium (mg/L)	**GWA-39Z**	**24**	**n/a**	**9/12/2018**	**25.1**	**Yes**	**8**	**0**	**No**	**0.000...**	Param 1 of 3
Calcium (mg/L)	GWA-40	26	n/a	9/12/2018	18.4	No	8	0	No	0.000...	Param 1 of 3
Calcium (mg/L)	GWA-41	32	n/a	9/12/2018	14.2	No	8	0	No	0.000...	Param 1 of 3
Calcium (mg/L)	GWA-41R	44	n/a	9/12/2018	29	No	8	0	No	0.000...	Param 1 of 3
Calcium (mg/L)	GWA-42	34	n/a	9/14/2018	30.5	No	8	0	No	0.000...	Param 1 of 3
Calcium (mg/L)	GWA-43	20	n/a	9/12/2018	3.7	No	8	0	No	0.000...	Param 1 of 3
Calcium (mg/L)	GWA-43R	31	n/a	9/12/2018	28.7	No	8	0	No	0.000...	Param 1 of 3
Calcium (mg/L)	GWC-44	10	n/a	9/12/2018	4.1	No	8	0	No	0.000...	Param 1 of 3
Calcium (mg/L)	GWC-45	0.95	n/a	9/13/2018	0.79	No	8	0	No	0.000...	Param 1 of 3
Calcium (mg/L)	GWC-45R	40	n/a	9/13/2018	36.1	No	8	0	No	0.000...	Param 1 of 3
Calcium (mg/L)	GWC-46R	55	n/a	9/13/2018	45.3	No	8	0	No	0.000...	Param 1 of 3
Calcium (mg/L)	GWC-47	31	n/a	9/13/2018	23.8	No	8	0	No	0.000...	Param 1 of 3
Calcium (mg/L)	GWC-47R	38	n/a	9/13/2018	30.9	No	8	0	No	0.000...	Param 1 of 3
Calcium (mg/L)	GWC-48	12	n/a	9/13/2018	2.5	No	8	12.5	sqrt(x)	0.000...	Param 1 of 3
Calcium (mg/L)	GWC-49R	30	n/a	9/13/2018	22.8	No	8	0	No	0.000...	Param 1 of 3
Calcium (mg/L)	GWC-49Z	6.7	n/a	9/14/2018	0.7	No	8	0	No	0.000...	Param 1 of 3
Calcium (mg/L)	GWA-39R_39RZ	42	n/a	9/14/2018	29.2	No	8	0	No	0.000...	Param 1 of 3
Chloride (mg/L)	GWA-39Z	2.4	n/a	9/12/2018	1.6	No	8	0	No	0.000...	Param 1 of 3
Chloride (mg/L)	GWA-40	1.6	n/a	9/12/2018	1	No	8	0	No	0.000...	Param 1 of 3
Chloride (mg/L)	GWA-41	4.2	n/a	9/12/2018	1.4	No	8	0	sqrt(x)	0.000...	Param 1 of 3
Chloride (mg/L)	GWA-41R	6.4	n/a	9/12/2018	2.1	No	8	0	No	0.000...	Param 1 of 3
Chloride (mg/L)	GWA-42	3.4	n/a	9/14/2018	2.3	No	8	0	No	0.000...	Param 1 of 3
Chloride (mg/L)	GWA-43	1.5	n/a	9/12/2018	1.3	No	8	0	No	0.000...	Param 1 of 3
Chloride (mg/L)	GWA-43R	5.8	n/a	9/12/2018	3.1	No	8	0	No	0.000...	Param 1 of 3
Chloride (mg/L)	GWC-44	9.7	n/a	9/12/2018	3.6	No	9	0	No	0.000...	Param 1 of 3
Chloride (mg/L)	GWC-45	1.3	n/a	9/13/2018	0.93	No	8	0	No	0.000...	Param 1 of 3
Chloride (mg/L)	GWC-45R	3.3	n/a	9/13/2018	2.9	No	8	0	No	0.000...	Param 1 of 3
Chloride (mg/L)	GWC-46R	2.8	n/a	9/13/2018	1.9	No	8	0	No	0.000...	Param 1 of 3
Chloride (mg/L)	GWC-47	2.9	n/a	9/13/2018	2.6	No	8	0	No	0.000...	Param 1 of 3
Chloride (mg/L)	GWC-47R	3	n/a	9/13/2018	2.5	No	8	0	No	0.000...	Param 1 of 3
Chloride (mg/L)	GWC-48	3	n/a	9/13/2018	2.8	No	8	0	No	0.000...	Param 1 of 3
Chloride (mg/L)	GWC-49R	1.8	n/a	9/13/2018	1.3	No	8	0	No	0.000...	Param 1 of 3
Chloride (mg/L)	GWC-49Z	1.8	n/a	9/14/2018	1.1	No	8	12.5	No	0.000...	Param 1 of 3
Chloride (mg/L)	GWA-39R_39RZ	4.1	n/a	9/14/2018	1.9	No	8	0	No	0.000...	Param 1 of 3
Sulfate (mg/L)	GWA-39Z	10	n/a	9/12/2018	3.7	No	8	0	No	0.000...	Param 1 of 3
Sulfate (mg/L)	GWA-40	1.7	n/a	9/12/2018	1.7	No	8	12.5	No	0.000...	Param 1 of 3
Sulfate (mg/L)	GWA-41	5.4	n/a	9/12/2018	1.8	No	8	0	No	0.000...	Param 1 of 3
Sulfate (mg/L)	GWA-41R	9.2	n/a	9/12/2018	3.7	No	8	12.5	No	0.000...	Param 1 of 3
Sulfate (mg/L)	GWA-42	2.3	n/a	9/14/2018	1.6	No	8	12.5	No	0.000...	Param 1 of 3
Sulfate (mg/L)	GWA-43	2.1	n/a	9/12/2018	0.3	No	8	0	No	0.000...	Param 1 of 3
Sulfate (mg/L)	GWA-43R	11	n/a	9/12/2018	5.6	No	8	0	No	0.000...	Param 1 of 3
Sulfate (mg/L)	GWC-44	49	n/a	9/12/2018	16	No	9	0	No	0.000...	Param 1 of 3
Sulfate (mg/L)	GWC-45	1.6	n/a	9/13/2018	1.3	No	8	12.5	No	0.000...	Param 1 of 3
Sulfate (mg/L)	GWC-45R	3.4	n/a	9/13/2018	2.3	No	8	0	No	0.000...	Param 1 of 3
Sulfate (mg/L)	GWC-46R	8.9	n/a	9/13/2018	7.2	No	8	0	No	0.000...	Param 1 of 3
Sulfate (mg/L)	GWC-47	5.6	n/a	9/13/2018	4.8	No	8	0	No	0.000...	Param 1 of 3
Sulfate (mg/L)	**GWC-47R**	**11**	**n/a**	**9/13/2018**	**11.6**	**Yes**	**8**	**0**	**No**	**0.000...**	Param 1 of 3
Total Dissolved Solids (mg/l)	GWA-39R_39RZ	280	n/a	9/14/2018	165	No	8	0	No	0.000...	Param 1 of 3
Sulfate (mg/L)	GWC-48	3.3	n/a	9/13/2018	1.6	No	8	12.5	No	0.000...	Param 1 of 3
Sulfate (mg/L)	GWC-49R	3.7	n/a	9/13/2018	3.6	No	8	0	No	0.000...	Param 1 of 3

Intrawell Prediction Limit

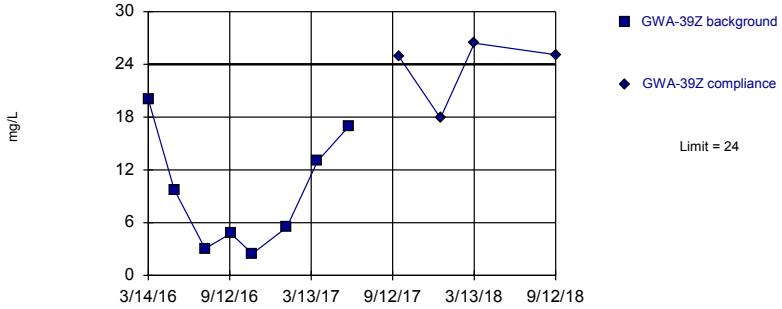
Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR Printed 12/4/2018, 8:47 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Sulfate (mg/L)	GWC-49Z	9.9	n/a	9/14/2018	2.4	No	8	0	No	0.000...	Param 1 of 3
Sulfate (mg/L)	GWA-39R_39RZ	30	n/a	9/14/2018	11.6	No	8	0	No	0.000...	Param 1 of 3
Total Dissolved Solids (mg/l)	**GWA-39Z**	**110**	**n/a**	**9/12/2018**	**134**	**Yes**	**7**	**0**	**No**	**0.000...**	Param 1 of 3
Total Dissolved Solids (mg/l)	GWA-40	160	n/a	9/12/2018	105	No	8	0	No	0.000...	Param 1 of 3
Total Dissolved Solids (mg/l)	GWA-41	150	n/a	9/12/2018	82	No	8	0	No	0.000...	Param 1 of 3
Total Dissolved Solids (mg/l)	GWA-41R	240	n/a	9/12/2018	159	No	8	0	No	0.000...	Param 1 of 3
Total Dissolved Solids (mg/l)	GWA-42	190	n/a	9/14/2018	139	No	8	0	No	0.000...	Param 1 of 3
Total Dissolved Solids (mg/l)	GWA-43	99	n/a	9/12/2018	17.5ND	No	8	12.5	No	0.000...	Param 1 of 3
Total Dissolved Solids (mg/l)	GWA-43R	170	n/a	9/12/2018	151	No	8	0	No	0.000...	Param 1 of 3
Total Dissolved Solids (mg/l)	GWC-44	200	n/a	9/12/2018	18ND	No	9	22.22	sqrt(x)	0.000...	Param 1 of 3
Total Dissolved Solids (mg/l)	GWC-45	31	n/a	9/13/2018	19.5ND	No	8	37.5	No	0.000...	Param 1 of 3
Total Dissolved Solids (mg/l)	GWC-45R	210	n/a	9/13/2018	185	No	8	0	No	0.000...	Param 1 of 3
Total Dissolved Solids (mg/l)	GWC-46R	280	n/a	9/13/2018	263	No	8	0	No	0.000...	Param 1 of 3
Total Dissolved Solids (mg/l)	GWC-47	170	n/a	9/13/2018	144	No	8	0	No	0.000...	Param 1 of 3
Total Dissolved Solids (mg/l)	GWC-47R	180	n/a	9/13/2018	175	No	8	0	No	0.000...	Param 1 of 3
Total Dissolved Solids (mg/l)	GWC-48	90	n/a	9/13/2018	15.5ND	No	8	25	sqrt(x)	0.000...	Param 1 of 3
Total Dissolved Solids (mg/l)	GWC-49R	190	n/a	9/13/2018	137	No	8	0	No	0.000...	Param 1 of 3
Total Dissolved Solids (mg/l)	GWC-49Z	81	n/a	9/14/2018	29	No	8	25	No	0.000...	Param 1 of 3

Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=9.438, Std. Dev.=6.641, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9042, critical = 0.749. Kappa = 2.164 (c=7, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.0008358.

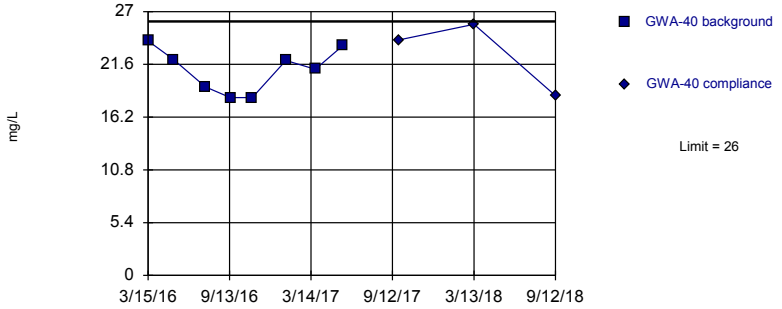
Constituent: Calcium Analysis Run 12/4/2018 8:43 AM View: cells9&10_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=21.05, Std. Dev.=2.268, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9101, critical = 0.749. Kappa = 2.164 (c=7, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.0008358.

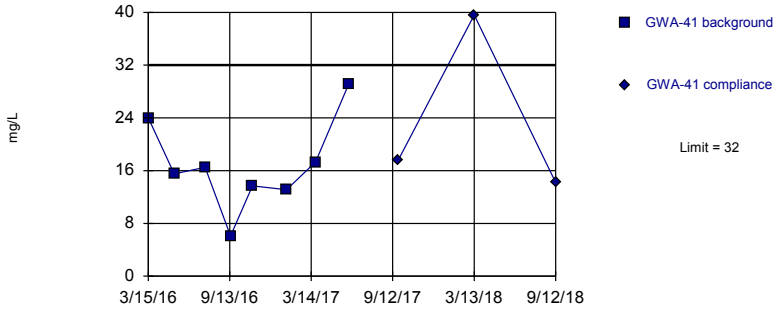
Constituent: Calcium Analysis Run 12/4/2018 8:43 AM View: cells9&10_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=16.91, Std. Dev.=6.998, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9505, critical = 0.749. Kappa = 2.164 (c=7, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.0008358.

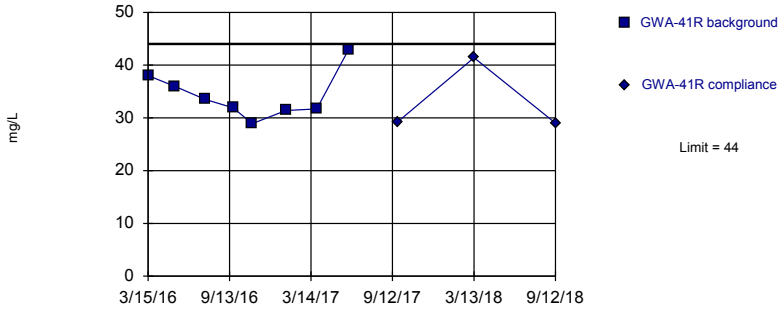
Constituent: Calcium Analysis Run 12/4/2018 8:43 AM View: cells9&10_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=34.29, Std. Dev.=4.492, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.92, critical = 0.749. Kappa = 2.164 (c=7, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Calcium Analysis Run 12/4/2018 8:43 AM View: cells9&10_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

Prediction Limit

Constituent: Calcium Analysis Run 12/4/2018 8:47 AM View: cells9&10_AppIII_intrawell

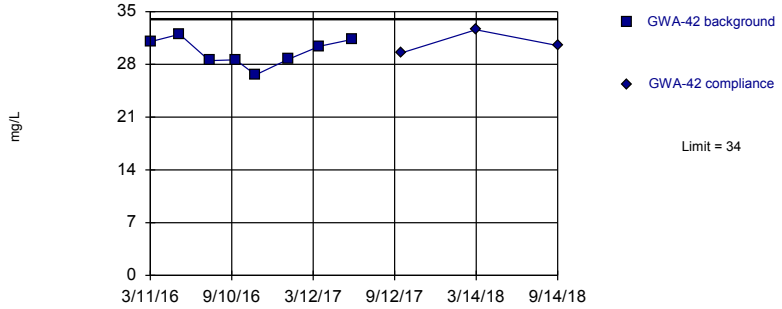
Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWA-39Z	GWA-39Z	GWA-40	GWA-40	GWA-41	GWA-41	GWA-41R	GWA-41R
3/14/2016	20							
3/15/2016			24		24		38	
5/11/2016	9.76		22.1					
5/12/2016					15.5			
5/13/2016							36	
7/19/2016	3.04							
7/20/2016					16.5			
7/21/2016			19.3				33.5	
9/15/2016	4.78		18.2		6.1			
9/21/2016							31.9	
11/2/2016	2.46							
11/3/2016			18.2		13.7		28.9	
1/17/2017			22				31.4	
1/18/2017	5.46				13.1			
3/24/2017			21.1		17.3			
3/27/2017							31.7	
3/28/2017	13							
5/24/2017			23.5					
6/6/2017					29.1		42.9	
6/7/2017	17							
9/25/2017						17.6		29.3
9/26/2017		24.9		24.1				
12/28/2017		17.9 (Y)						
3/14/2018		26.4		25.7		39.6		41.4
9/12/2018		25.1		18.4 (J)		14.2 (J)		29

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=29.64, Std. Dev.=1.823, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9367, critical = 0.749. Kappa = 2.164 (c=7, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Calcium Analysis Run 12/4/2018 8:43 AM View: cells9&10_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

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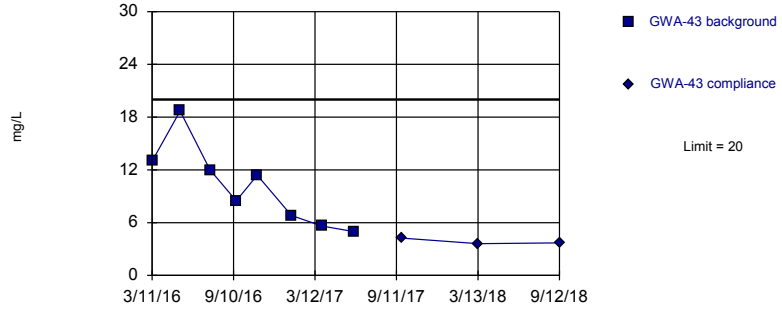
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=10.12, Std. Dev.=4.589, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9294, critical = 0.749. Kappa = 2.164 (c=7, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Calcium Analysis Run 12/4/2018 8:43 AM View: cells9&10_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

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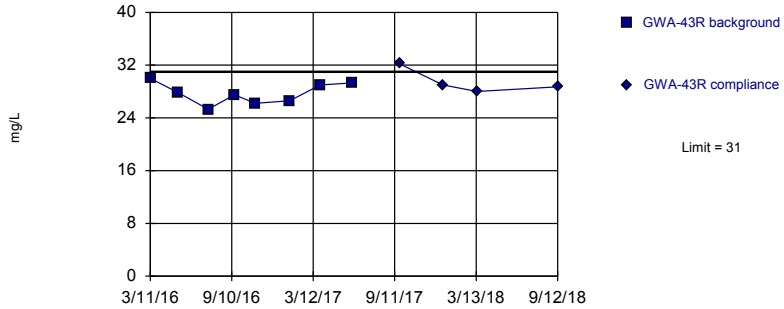
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=27.71, Std. Dev.=1.639, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.965, critical = 0.749. Kappa = 2.164 (c=7, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Calcium Analysis Run 12/4/2018 8:43 AM View: cells9&10_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

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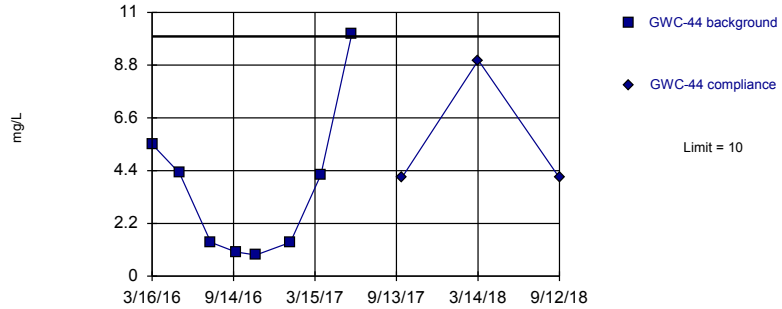
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=3.606, Std. Dev.=3.172, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8332, critical = 0.749. Kappa = 2.164 (c=7, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Calcium Analysis Run 12/4/2018 8:43 AM View: cells9&10_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

Prediction Limit

Constituent: Calcium Analysis Run 12/4/2018 8:47 AM View: cells9&10_AppIII_intrawell

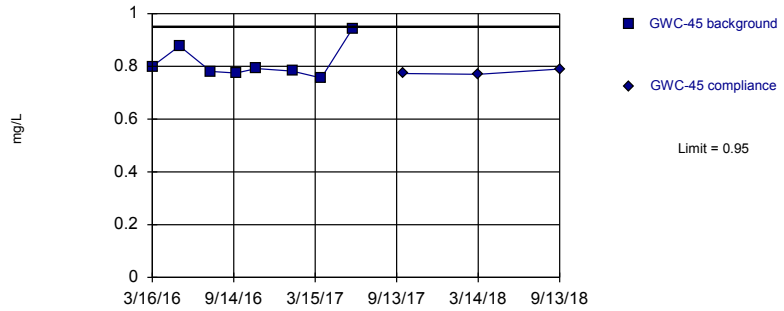
Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWA-42	GWA-42	GWA-43	GWA-43	GWA-43R	GWA-43R	GWC-44	GWC-44
3/11/2016	31		13		30			
3/16/2016							5.5	
5/13/2016			18.7		27.8			
5/16/2016	32						4.3	
7/19/2016			12		25.3			
7/22/2016	28.5							
7/25/2016							1.41	
9/16/2016			8.48		27.5			
9/19/2016	28.6						1.01	
11/2/2016			11.4		26.2			
11/3/2016	26.6						0.884	
1/17/2017	28.7							
1/18/2017			6.81		26.6			
1/19/2017							1.41	
3/27/2017	30.4							
3/28/2017			5.61		29		4.23	
6/5/2017							10.1	
6/6/2017			4.99		29.3			
6/7/2017	31.3							
9/22/2017				4.24		32.2		
9/26/2017		29.5						4.14
12/28/2017						29 (Y)		
3/14/2018		32.6		3.6				
3/15/2018						28		9
9/12/2018				3.7		28.7		4.1
9/14/2018		30.5						

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.8134, Std. Dev.=0.06386, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7875, critical = 0.749. Kappa = 2.164 (c=7, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Calcium Analysis Run 12/4/2018 8:43 AM View: cells9&10_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

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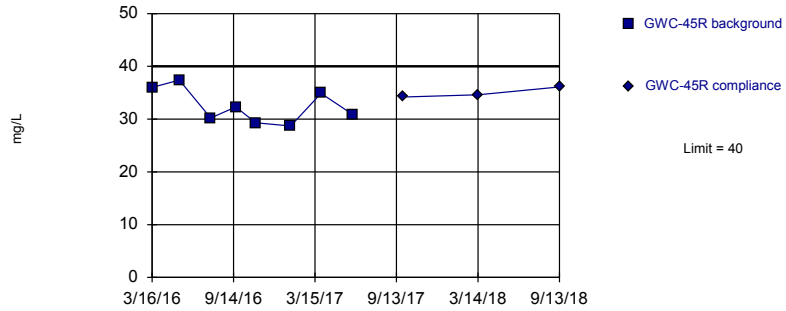
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=32.46, Std. Dev.=3.264, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9199, critical = 0.749. Kappa = 2.164 (c=7, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Calcium Analysis Run 12/4/2018 8:43 AM View: cells9&10_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

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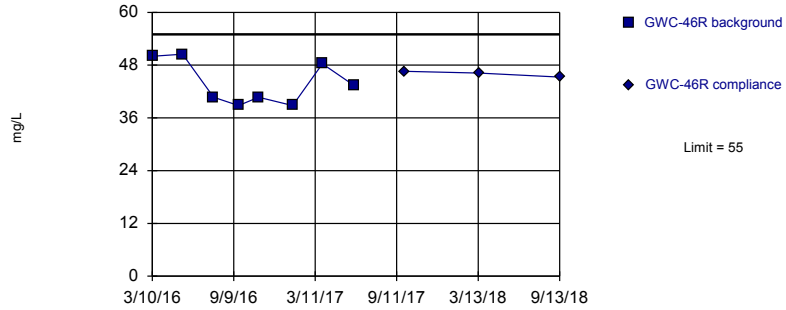
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=43.9, Std. Dev.=4.97, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.847, critical = 0.749. Kappa = 2.164 (c=7, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Calcium Analysis Run 12/4/2018 8:43 AM View: cells9&10_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

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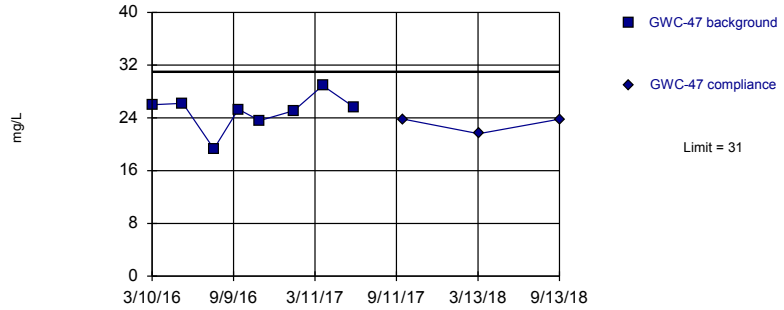
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=25, Std. Dev.=2.74, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8814, critical = 0.749. Kappa = 2.164 (c=7, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Calcium Analysis Run 12/4/2018 8:43 AM View: cells9&10_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

Prediction Limit

Constituent: Calcium Analysis Run 12/4/2018 8:47 AM View: cells9&10_AppIII_intrawell

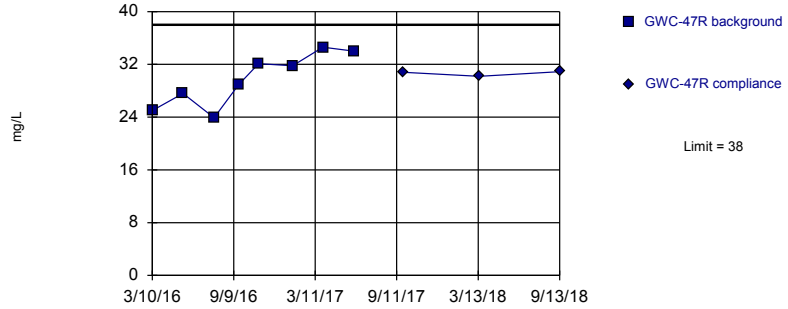
Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWC-45	GWC-45	GWC-45R	GWC-45R	GWC-46R	GWC-46R	GWC-47	GWC-47
3/10/2016					50		26	
3/16/2016	0.8		36					
5/16/2016	0.877		37.4					
5/17/2016					50.5			
5/18/2016							26.2	
7/25/2016	0.781		30.2					
7/26/2016					40.7			
7/27/2016							19.3	
9/19/2016	0.775		32.3					
9/20/2016					38.8		25.3	
11/3/2016			29.3					
11/4/2016	0.792				40.7			
11/7/2016							23.6	
1/20/2017			28.7		38.8			
1/23/2017	0.782						25.1	
3/28/2017					48.3			
3/29/2017	0.756		34.9				28.9	
6/7/2017	0.944		30.9		43.4			
6/8/2017							25.6	
9/27/2017		0.773		34.2				23.8
9/29/2017						46.6		
3/15/2018		0.77		34.6		46.2		21.6 (J)
9/13/2018		0.79		36.1		45.3		23.8 (J)

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=29.74, Std. Dev.=4.026, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9298, critical = 0.749. Kappa = 2.164 (c=7, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Calcium Analysis Run 12/4/2018 8:43 AM View: cells9&10_AppIII_intrawell

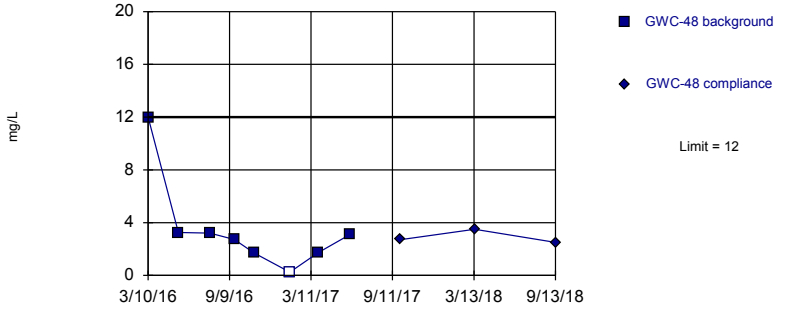
Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square root transformation): Mean=1.697, Std. Dev.=0.8356, n=8, 12.5% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8535, critical = 0.749. Kappa = 2.164 (c=7, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.0008358.

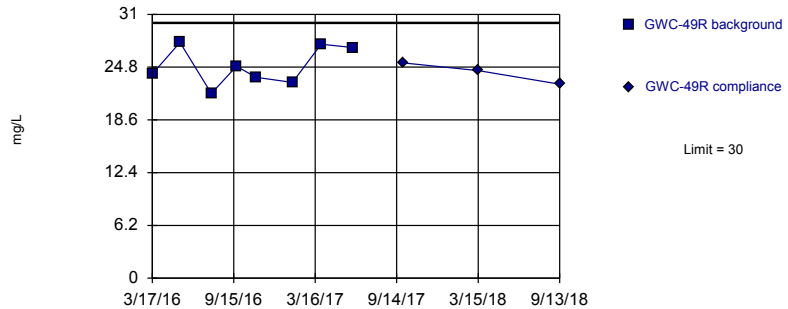
Constituent: Calcium Analysis Run 12/4/2018 8:43 AM View: cells9&10_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=24.94, Std. Dev.=2.261, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.913, critical = 0.749. Kappa = 2.164 (c=7, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.0008358.

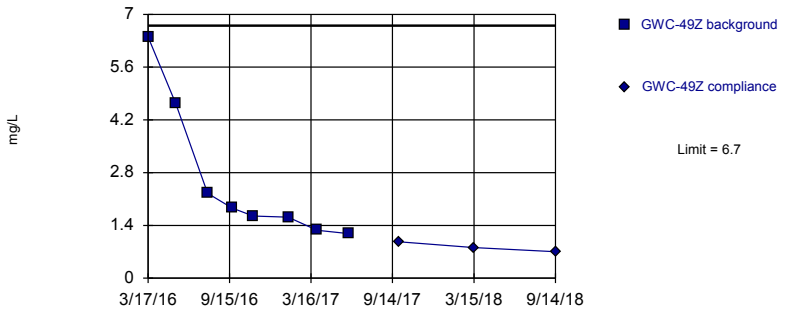
Constituent: Calcium Analysis Run 12/4/2018 8:43 AM View: cells9&10_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=2.608, Std. Dev.=1.885, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7584, critical = 0.749. Kappa = 2.164 (c=7, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Calcium Analysis Run 12/4/2018 8:43 AM View: cells9&10_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

Prediction Limit

Constituent: Calcium Analysis Run 12/4/2018 8:47 AM View: cells9&10_AppIII_intrawell

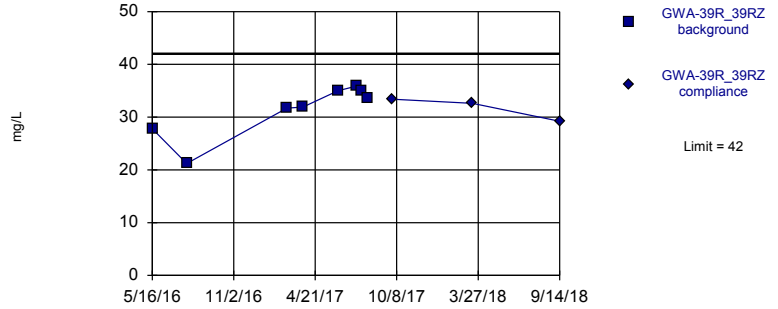
Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWC-47R	GWC-47R	GWC-48	GWC-48	GWC-49R	GWC-49R	GWC-49Z	GWC-49Z
3/10/2016	25		12					
3/17/2016					24		6.4	
5/17/2016			3.25					
5/18/2016	27.6				27.7		4.63	
7/27/2016	23.9		3.2		21.7			
7/28/2016							2.25	
9/20/2016	28.9		2.72					
9/21/2016					24.9		1.86	
11/4/2016	32.1		1.69		23.6			
11/7/2016							1.65	
1/20/2017	31.8							
1/23/2017			<0.5					
1/24/2017					23		1.62	
3/28/2017			1.72					
3/29/2017	34.6				27.5			
3/30/2017							1.27	
6/8/2017	34		3.11		27.1			
6/9/2017							1.18	
9/27/2017		30.8						
9/29/2017				2.71		25.3		0.967
3/15/2018				3.5		24.4 (J)		0.81
3/16/2018		30.2						
9/13/2018		30.9		2.5		22.8 (J)		
9/14/2018								0.7

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=31.51, Std. Dev.=4.899, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8335, critical = 0.749. Kappa = 2.164 (c=7, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.0008358.

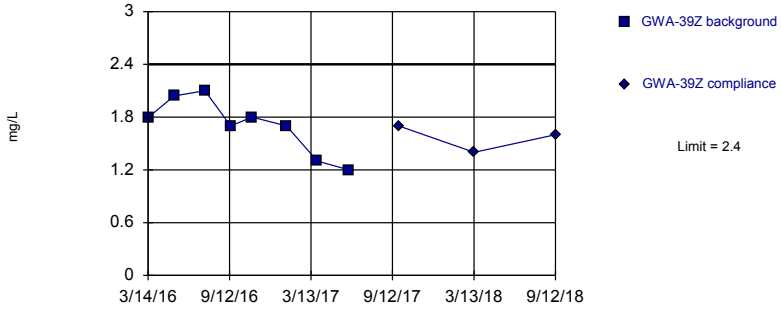
Constituent: Calcium Analysis Run 12/4/2018 8:43 AM View: cells9&10_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=1.704, Std. Dev.=0.3172, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9121, critical = 0.749. Kappa = 2.164 (c=7, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.0008358.

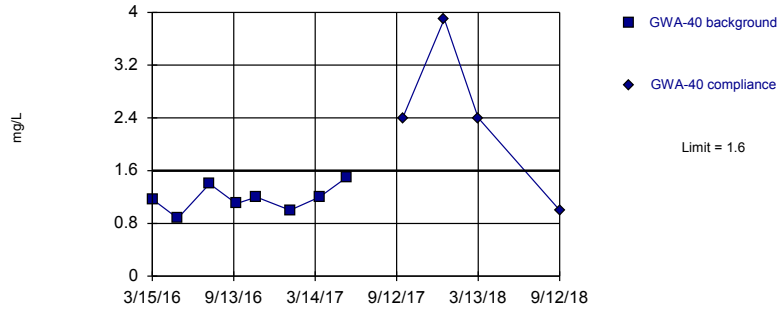
Constituent: Chloride Analysis Run 12/4/2018 8:43 AM View: cells9&10_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=1.18, Std. Dev.=0.201, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9683, critical = 0.749. Kappa = 2.164 (c=7, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.0008358.

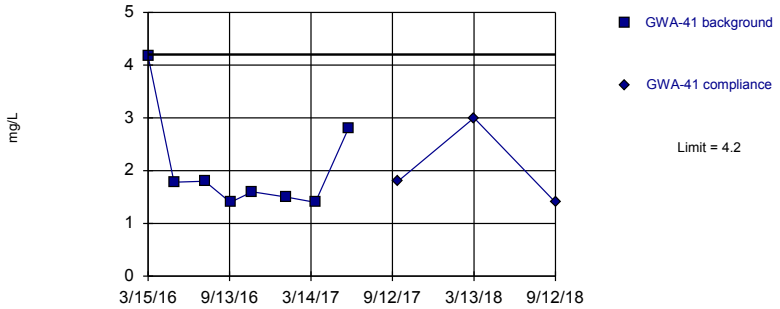
Constituent: Chloride Analysis Run 12/4/2018 8:43 AM View: cells9&10_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square root transformation): Mean=1.406, Std. Dev.=0.3015, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.767, critical = 0.749. Kappa = 2.164 (c=7, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Chloride Analysis Run 12/4/2018 8:43 AM View: cells9&10_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

Prediction Limit

Constituent: Calcium, Chloride Analysis Run 12/4/2018 8:47 AM View: cells9&10_AppIII_intrawell

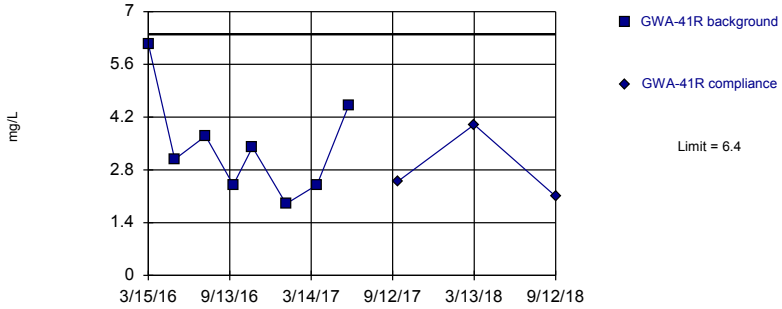
Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWA-39R_39RZ	GWA-39R_39RZ	GWA-39Z	GWA-39Z	GWA-40	GWA-40	GWA-41	GWA-41
3/14/2016			1.795					
3/15/2016					1.1671		4.1666	
5/11/2016			2.04		0.8763			
5/12/2016							1.78	
5/16/2016	27.8 (D)							
7/19/2016			2.1					
7/20/2016							1.8	
7/21/2016					1.4			
7/27/2016	21.2 (D)							
9/15/2016			1.7				1.4	
9/19/2016					1.1			
11/2/2016			1.8					
11/3/2016					1.2		1.6	
1/17/2017					1			
1/18/2017			1.7				1.5	
2/21/2017	31.7 (D)							
3/24/2017					1.2		1.4	
3/27/2017	31.9 (D)							
3/28/2017			1.3					
5/24/2017					1.5			
6/6/2017							2.8	
6/7/2017			1.2					
6/8/2017	35 (D)							
7/17/2017	35.9 (D)							
7/27/2017	34.9 (D)							
8/9/2017	33.7 (D)							
9/25/2017								1.8
9/26/2017				1.7		2.4		
9/29/2017		33.4 (D)						
12/28/2017						3.9 (Y)		
3/14/2018				1.4		2.4		3
3/16/2018		32.6						
9/12/2018				1.6		1		1.4
9/14/2018		29.2						

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=3.441, Std. Dev.=1.372, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9181, critical = 0.749. Kappa = 2.164 (c=7, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Chloride Analysis Run 12/4/2018 8:43 AM View: cells9&10_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

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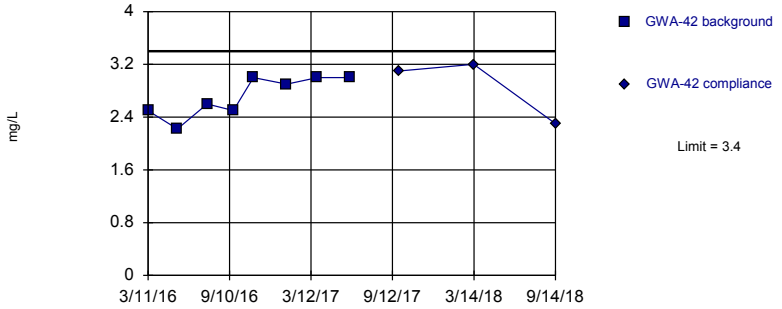
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=2.715, Std. Dev.=0.2998, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8579, critical = 0.749. Kappa = 2.164 (c=7, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Chloride Analysis Run 12/4/2018 8:43 AM View: cells9&10_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

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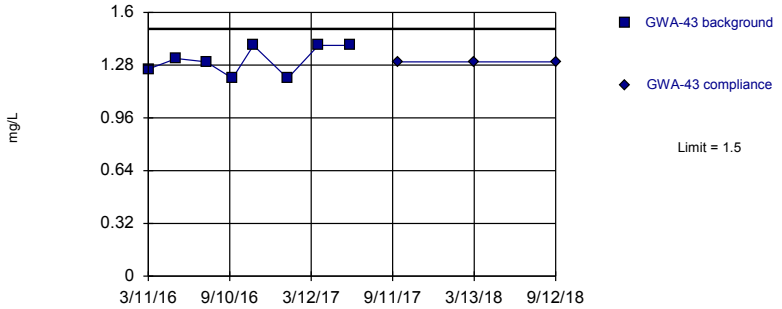
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=1.31, Std. Dev.=0.08585, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8589, critical = 0.749. Kappa = 2.164 (c=7, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Chloride Analysis Run 12/4/2018 8:43 AM View: cells9&10_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

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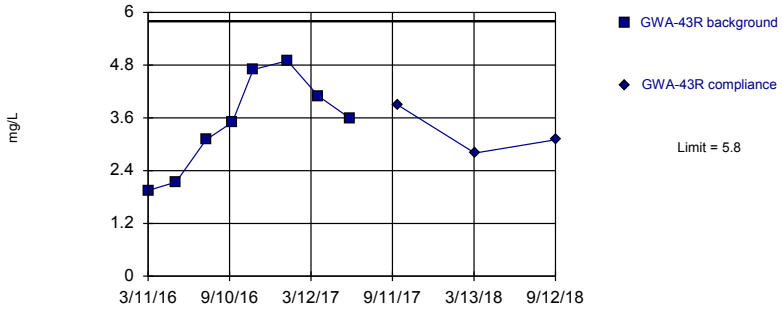
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=3.498, Std. Dev.=1.082, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9415, critical = 0.749. Kappa = 2.164 (c=7, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Chloride Analysis Run 12/4/2018 8:43 AM View: cells9&10_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

Prediction Limit

Constituent: Chloride Analysis Run 12/4/2018 8:47 AM View: cells9&10_AppIII_intrawell

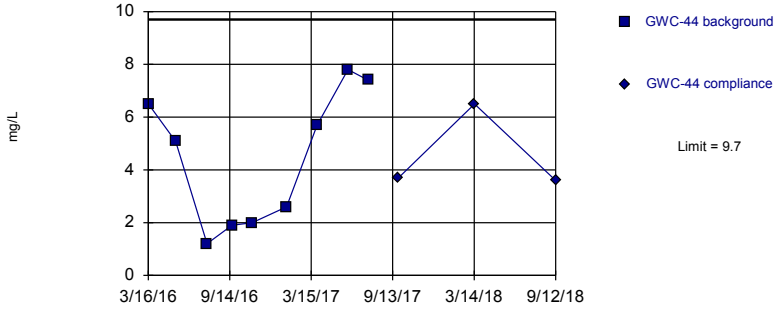
Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWA-41R	GWA-41R	GWA-42	GWA-42	GWA-43	GWA-43	GWA-43R	GWA-43R
3/11/2016			2.4984		1.2562		1.9467	
3/15/2016	6.1465							
5/13/2016	3.08				1.32		2.14	
5/16/2016			2.22					
7/19/2016					1.3		3.1	
7/21/2016	3.7							
7/22/2016			2.6					
9/16/2016					1.2		3.5	
9/19/2016			2.5					
9/21/2016	2.4							
11/2/2016					1.4		4.7	
11/3/2016	3.4		3					
1/17/2017	1.9		2.9					
1/18/2017					1.2		4.9	
3/27/2017	2.4		3					
3/28/2017					1.4		4.1	
6/6/2017	4.5				1.4		3.6	
6/7/2017			3					
9/22/2017						1.3		3.9
9/25/2017		2.5						
9/26/2017				3.1				
3/14/2018		4 (J)		3.2		1.3		
3/15/2018								2.8
9/12/2018		2.1				1.3		3.1
9/14/2018				2.3				

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=4.465, Std. Dev.=2.564, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8932, critical = 0.764. Kappa = 2.048 (c=7, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Chloride Analysis Run 12/4/2018 8:43 AM View: cells9&10_AppIII_intrawell

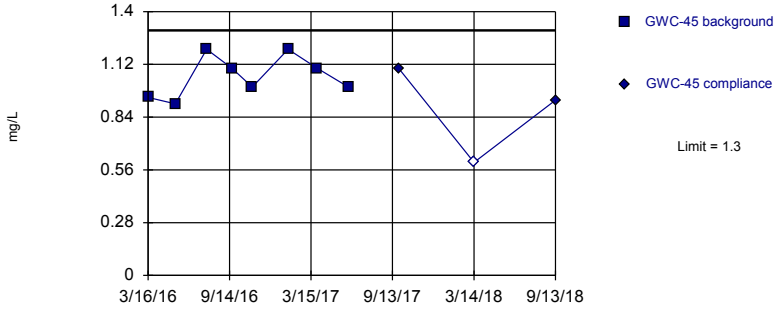
Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=1.057, Std. Dev.=0.1104, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9141, critical = 0.749. Kappa = 2.164 (c=7, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.0008358.

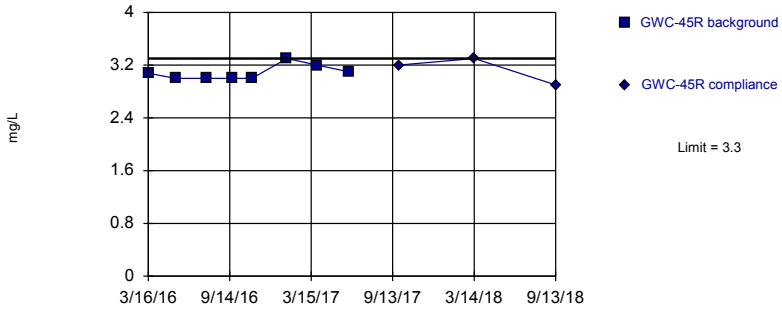
Constituent: Chloride Analysis Run 12/4/2018 8:43 AM View: cells9&10_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=3.085, Std. Dev.=0.1125, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.802, critical = 0.749. Kappa = 2.164 (c=7, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.0008358.

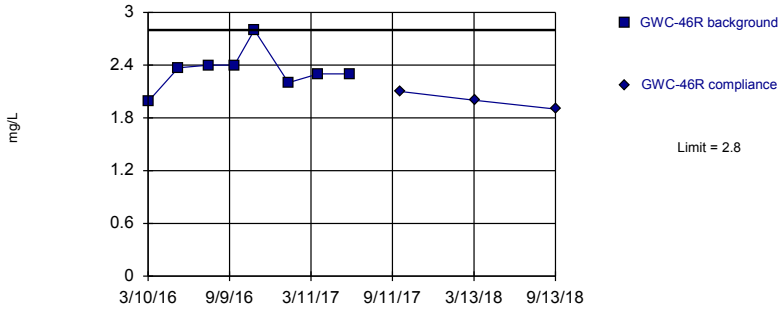
Constituent: Chloride Analysis Run 12/4/2018 8:43 AM View: cells9&10_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=2.344, Std. Dev.=0.2292, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9064, critical = 0.749. Kappa = 2.164 (c=7, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Chloride Analysis Run 12/4/2018 8:43 AM View: cells9&10_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

Prediction Limit

Constituent: Chloride Analysis Run 12/4/2018 8:47 AM View: cells9&10_AppIII_intrawell

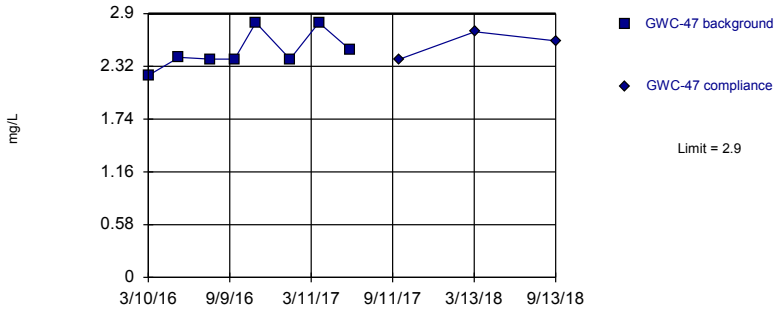
Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWC-44	GWC-44	GWC-45	GWC-45	GWC-45R	GWC-45R	GWC-46R	GWC-46R
3/10/2016							1.9859	
3/16/2016	6.505		0.9445		3.0774			
5/16/2016	5.08		0.9104		3			
5/17/2016							2.37	
7/25/2016	1.2		1.2		3			
7/26/2016							2.4	
9/19/2016	1.9		1.1		3			
9/20/2016							2.4	
11/3/2016	2				3			
11/4/2016			1				2.8	
1/19/2017	2.6							
1/20/2017					3.3		2.2	
1/23/2017			1.2					
3/28/2017	5.7						2.3	
3/29/2017			1.1		3.2			
6/5/2017	7.8							
6/7/2017			1		3.1		2.3	
7/20/2017	7.4							
9/26/2017		3.7						
9/27/2017				1.1		3.2		
9/29/2017								2.1
3/15/2018		6.5		<1.2		3.3		2
9/12/2018		3.6						
9/13/2018				0.93		2.9		1.9

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=2.493, Std. Dev.=0.2049, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8359, critical = 0.749. Kappa = 2.164 (c=7, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Chloride Analysis Run 12/4/2018 8:43 AM View: cells9&10_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

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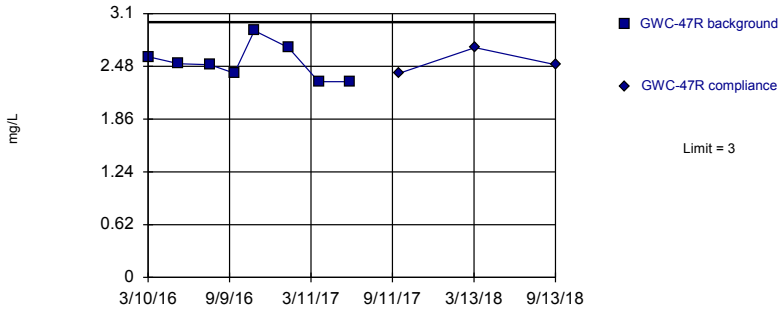
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=2.525, Std. Dev.=0.2048, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9349, critical = 0.749. Kappa = 2.164 (c=7, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Chloride Analysis Run 12/4/2018 8:43 AM View: cells9&10_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

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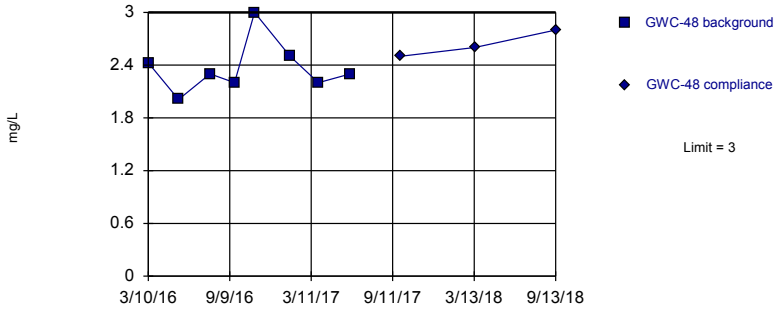
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=2.367, Std. Dev.=0.2962, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8762, critical = 0.749. Kappa = 2.164 (c=7, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Chloride Analysis Run 12/4/2018 8:43 AM View: cells9&10_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

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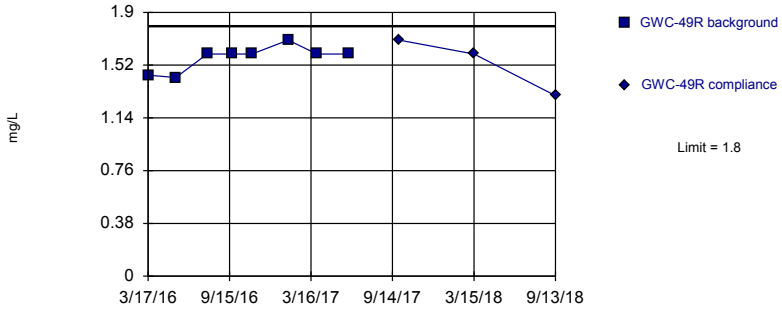
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=1.572, Std. Dev.=0.0894, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8005, critical = 0.749. Kappa = 2.164 (c=7, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Chloride Analysis Run 12/4/2018 8:43 AM View: cells9&10_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

Prediction Limit

Constituent: Chloride Analysis Run 12/4/2018 8:47 AM View: cells9&10_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWC-47	GWC-47	GWC-47R	GWC-47R	GWC-48	GWC-48	GWC-49R	GWC-49R
3/10/2016	2.2206		2.5934		2.4266			
3/17/2016							1.4476	
5/17/2016					2.01			
5/18/2016	2.42		2.51				1.43	
7/27/2016	2.4		2.5		2.3		1.6	
9/20/2016	2.4		2.4		2.2			
9/21/2016							1.6	
11/4/2016			2.9		3		1.6	
11/7/2016	2.8							
1/20/2017			2.7					
1/23/2017	2.4				2.5			
1/24/2017							1.7	
3/28/2017					2.2			
3/29/2017	2.8		2.3				1.6	
6/8/2017	2.5		2.3		2.3		1.6	
9/27/2017		2.4		2.4				
9/29/2017						2.5		1.7
3/15/2018		2.7				2.6		1.6
3/16/2018				2.7				
9/13/2018		2.6		2.5		2.8		1.3

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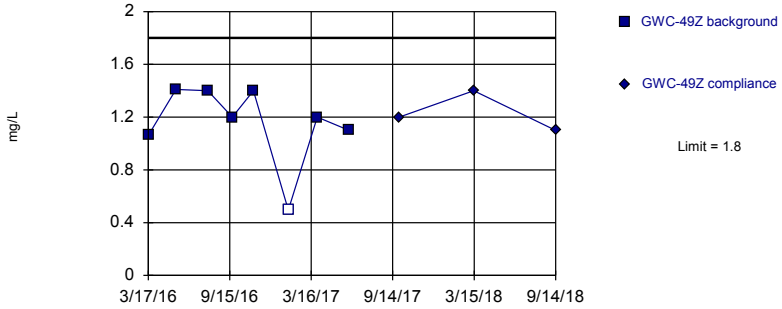
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=1.158, Std. Dev.=0.3015, n=8, 12.5% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7987, critical = 0.749. Kappa = 2.164 (c=7, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Chloride Analysis Run 12/4/2018 8:43 AM View: cells9&10_AppIII_intrawell
Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

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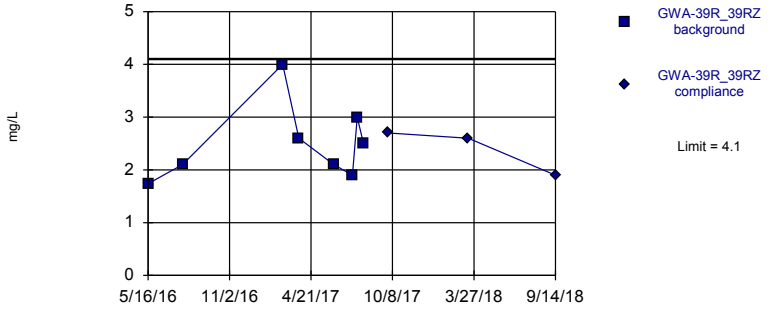
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=2.493, Std. Dev.=0.7336, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8845, critical = 0.749. Kappa = 2.164 (c=7, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Chloride Analysis Run 12/4/2018 8:43 AM View: cells9&10_AppIII_intrawell
Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

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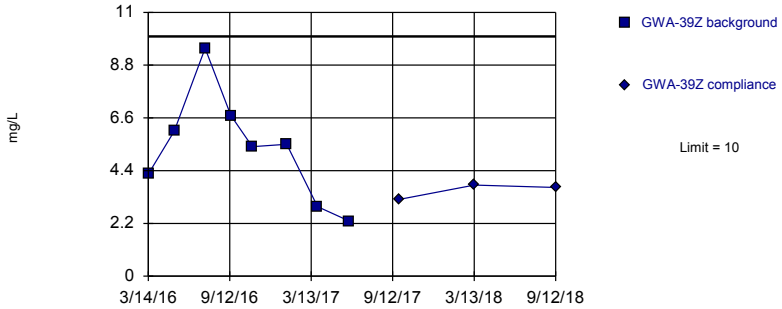
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=5.326, Std. Dev.=2.269, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9582, critical = 0.749. Kappa = 2.164 (c=7, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Sulfate Analysis Run 12/4/2018 8:43 AM View: cells9&10_AppIII_intrawell
Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

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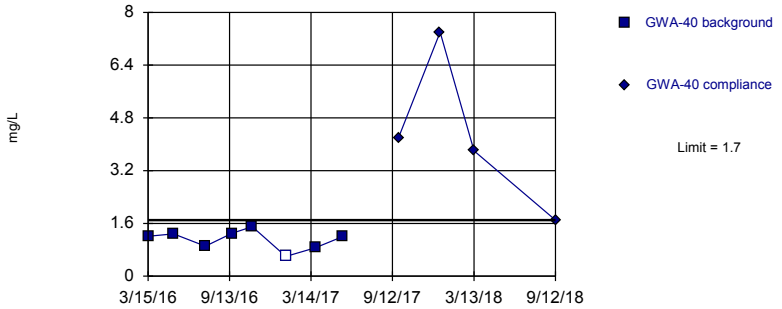
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=1.108, Std. Dev.=0.2922, n=8, 12.5% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9383, critical = 0.749. Kappa = 2.164 (c=7, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Sulfate Analysis Run 12/4/2018 8:43 AM View: cells9&10_AppIII_intrawell
Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

Prediction Limit

Constituent: Chloride, Sulfate Analysis Run 12/4/2018 8:47 AM View: cells9&10_AppIII_intrawell

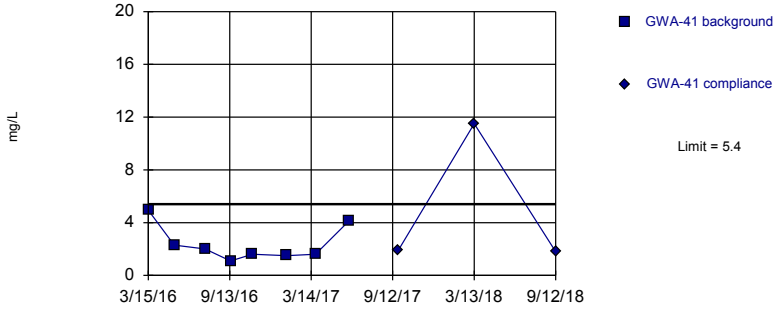
Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWC-49Z	GWC-49Z	GWA-39R_39RZ	GWA-39R_39RZ	GWA-39Z	GWA-39Z	GWA-40	GWA-40
3/14/2016					4.2598			
3/15/2016							1.2104	
3/17/2016	1.0624							
5/11/2016					6.05		1.28	
5/16/2016			1.74 (D)					
5/18/2016	1.41							
7/19/2016					9.5			
7/21/2016							0.91 (J)	
7/27/2016			2.1 (D)					
7/28/2016	1.4							
9/15/2016					6.7			
9/19/2016							1.3	
9/21/2016	1.2							
11/2/2016					5.4			
11/3/2016							1.5	
11/7/2016	1.4							
1/17/2017							<1.2 (*)	
1/18/2017					5.5			
1/24/2017	<0.99 (*)							
2/21/2017			4 (D)					
3/24/2017							0.86 (J)	
3/27/2017			2.6 (D)					
3/28/2017					2.9			
3/30/2017	1.2							
5/24/2017							1.2	
6/7/2017					2.3			
6/8/2017			2.1 (D)					
6/9/2017	1.1							
7/17/2017			1.9 (D)					
7/27/2017			3 (D)					
8/9/2017			2.5 (D)					
9/26/2017						3.2		4.2
9/29/2017		1.2		2.7 (D)				
12/28/2017								7.4 (Y)
3/14/2018						3.8		3.8
3/15/2018		1.4						
3/16/2018				2.6				
9/12/2018						3.7		1.7
9/14/2018		1.1		1.9				

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=2.392, Std. Dev.=1.377, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.815, critical = 0.749. Kappa = 2.164 (c=7, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Sulfate Analysis Run 12/4/2018 8:43 AM View: cells9&10_AppIII_intrawell

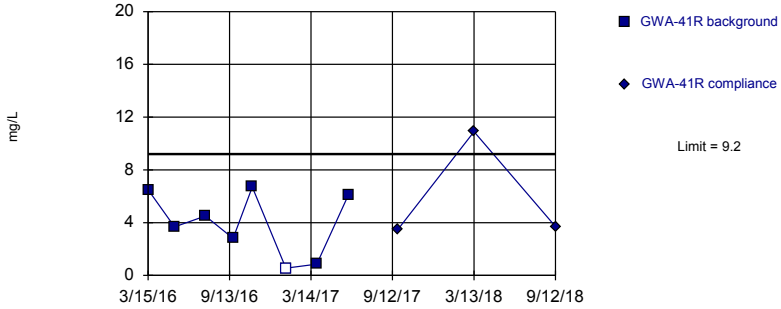
Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=3.96, Std. Dev.=2.436, n=8, 12.5% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9045, critical = 0.749. Kappa = 2.164 (c=7, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Sulfate Analysis Run 12/4/2018 8:43 AM View: cells9&10_AppIII_intrawell

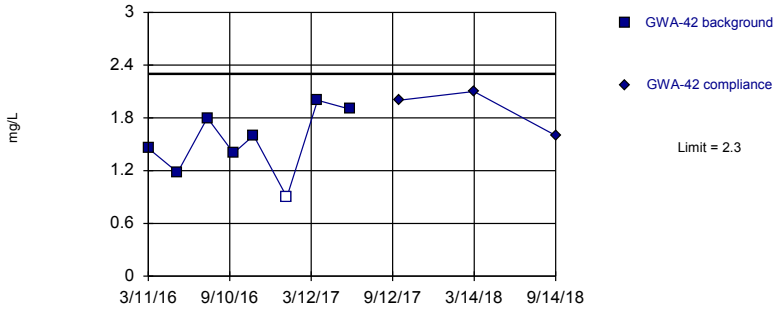
Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=1.529, Std. Dev.=0.3737, n=8, 12.5% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9652, critical = 0.749. Kappa = 2.164 (c=7, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.0008358.

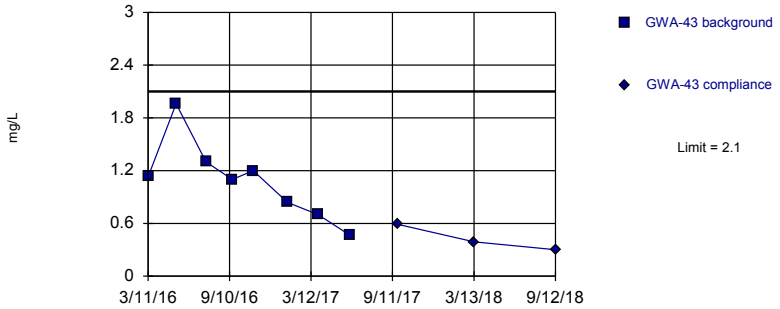
Constituent: Sulfate Analysis Run 12/4/2018 8:43 AM View: cells9&10_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=1.088, Std. Dev.=0.4494, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9453, critical = 0.749. Kappa = 2.164 (c=7, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Sulfate Analysis Run 12/4/2018 8:43 AM View: cells9&10_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

Prediction Limit

Constituent: Sulfate Analysis Run 12/4/2018 8:47 AM View: cells9&10_AppIII_intrawell

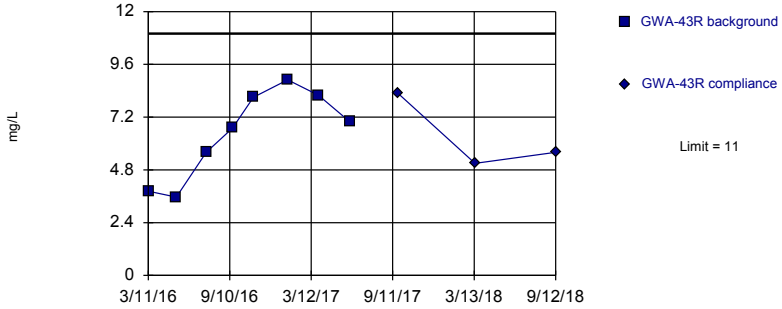
Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWA-41	GWA-41	GWA-41R	GWA-41R	GWA-42	GWA-42	GWA-43	GWA-43
3/11/2016					1.4538		1.1313	
3/15/2016	4.9347		6.4987					
5/12/2016	2.3							
5/13/2016			3.68				1.96	
5/16/2016					1.18			
7/19/2016							1.3	
7/20/2016	2							
7/21/2016			4.5					
7/22/2016					1.8			
9/15/2016	1.1							
9/16/2016							1.1	
9/19/2016					1.4			
9/21/2016			2.8					
11/2/2016							1.2	
11/3/2016	1.6		6.7		1.6			
1/17/2017			<1.1 (*)		<1.8 (*)			
1/18/2017	1.5						0.84 (J)	
3/24/2017	1.6							
3/27/2017			0.85 (J)		2			
3/28/2017							0.7 (J)	
6/6/2017	4.1		6.1				0.47 (J)	
6/7/2017					1.9			
9/22/2017								0.59 (J)
9/25/2017		1.9		3.5				
9/26/2017						2		
3/14/2018		11.5		10.9 (J)		2.1		0.39 (J)
9/12/2018		1.8		3.7				0.3 (J)
9/14/2018						1.6		

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=6.486, Std. Dev.=2.003, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9142, critical = 0.749. Kappa = 2.164 (c=7, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.0008358.

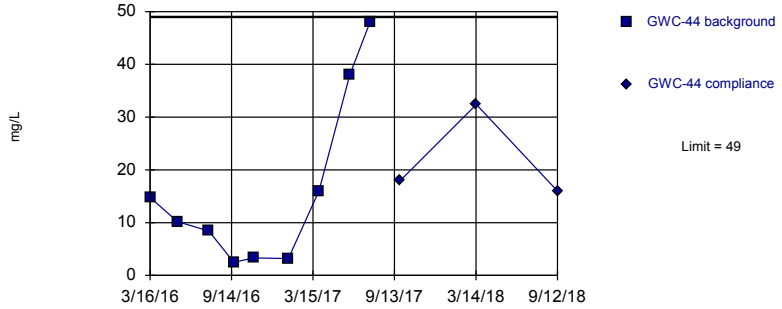
Constituent: Sulfate Analysis Run 12/4/2018 8:44 AM View: cells9&10_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=16.04, Std. Dev.=16.23, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8049, critical = 0.764. Kappa = 2.048 (c=7, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Sulfate Analysis Run 12/4/2018 8:44 AM View: cells9&10_AppIII_intrawell

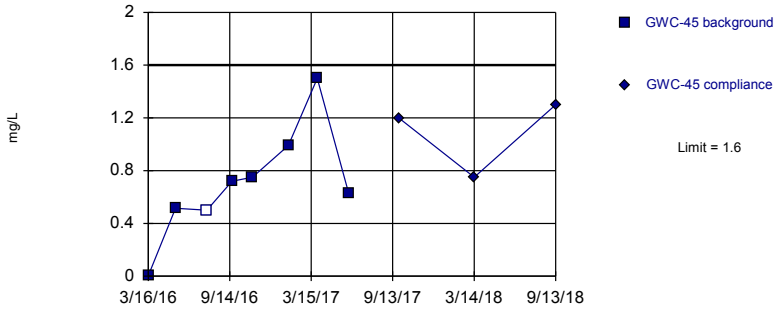
Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.7012, Std. Dev.=0.4293, n=8, 12.5% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9486, critical = 0.749. Kappa = 2.164 (c=7, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.0008358.

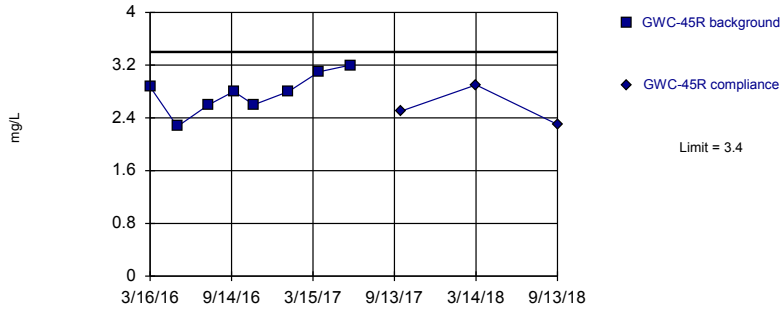
Constituent: Sulfate Analysis Run 12/4/2018 8:44 AM View: cells9&10_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=2.78, Std. Dev.=0.2959, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9634, critical = 0.749. Kappa = 2.164 (c=7, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Sulfate Analysis Run 12/4/2018 8:44 AM View: cells9&10_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

Prediction Limit

Constituent: Sulfate Analysis Run 12/4/2018 8:47 AM View: cells9&10_AppIII_intrawell

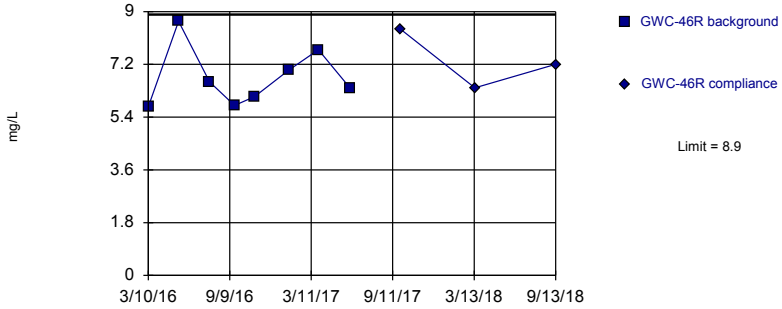
Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWA-43R	GWA-43R	GWC-44	GWC-44	GWC-45	GWC-45	GWC-45R	GWC-45R
3/11/2016	3.8282							
3/16/2016			14.7828		0.00424 (J)		2.8721	
5/13/2016	3.56							
5/16/2016			10.2		0.5151 (J)		2.27	
7/19/2016	5.6							
7/25/2016			8.4		<1 (*)		2.6	
9/16/2016	6.7							
9/19/2016			2.5		0.72 (J)		2.8	
11/2/2016	8.1							
11/3/2016			3.3				2.6	
11/4/2016					0.75 (J)			
1/18/2017	8.9							
1/19/2017			3.2					
1/20/2017							2.8	
1/23/2017					0.99 (J)			
3/28/2017	8.2		16 (J)					
3/29/2017					1.5		3.1	
6/5/2017			38					
6/6/2017	7							
6/7/2017					0.63 (J)		3.2	
7/20/2017			48					
9/22/2017		8.3						
9/26/2017				18				
9/27/2017						1.2		2.5
3/15/2018		5.1		32.4		0.75 (J)		2.9
9/12/2018		5.6		16				
9/13/2018						1.3		2.3

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=6.753, Std. Dev.=1.008, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9025, critical = 0.749. Kappa = 2.164 (c=7, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.0008358.

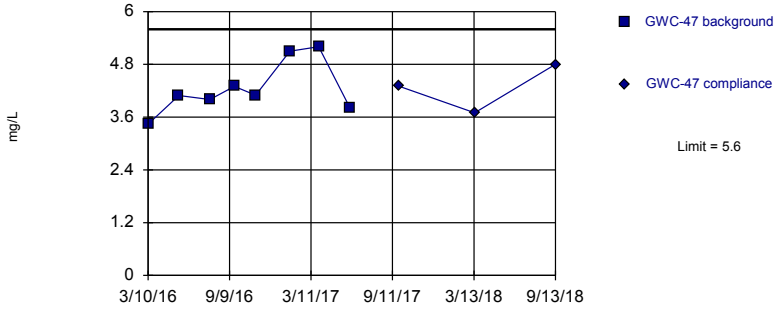
Constituent: Sulfate Analysis Run 12/4/2018 8:44 AM View: cells9&10_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=4.254, Std. Dev.=0.6089, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9006, critical = 0.749. Kappa = 2.164 (c=7, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.0008358.

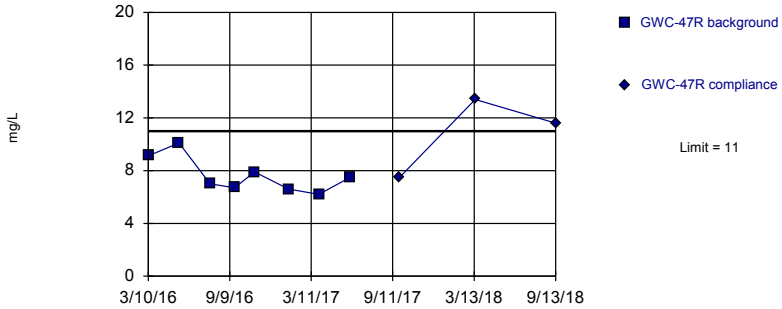
Constituent: Sulfate Analysis Run 12/4/2018 8:44 AM View: cells9&10_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=7.641, Std. Dev.=1.352, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9016, critical = 0.749. Kappa = 2.164 (c=7, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Sulfate Analysis Run 12/4/2018 8:44 AM View: cells9&10_AppIII_intrawell

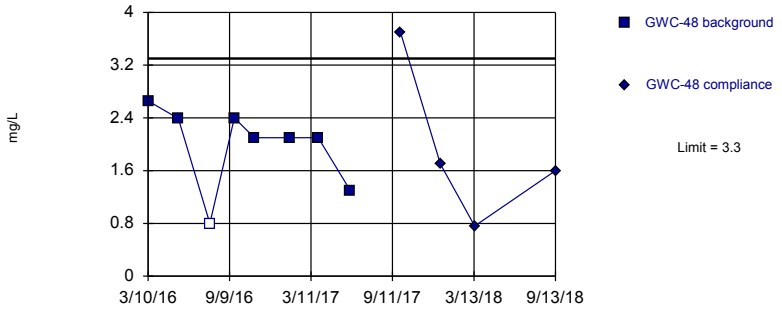
Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=1.981, Std. Dev.=0.6211, n=8, 12.5% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8582, critical = 0.749. Kappa = 2.164 (c=7, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Sulfate Analysis Run 12/4/2018 8:44 AM View: cells9&10_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

Prediction Limit

Constituent: Sulfate Analysis Run 12/4/2018 8:47 AM View: cells9&10_AppIII_intrawell

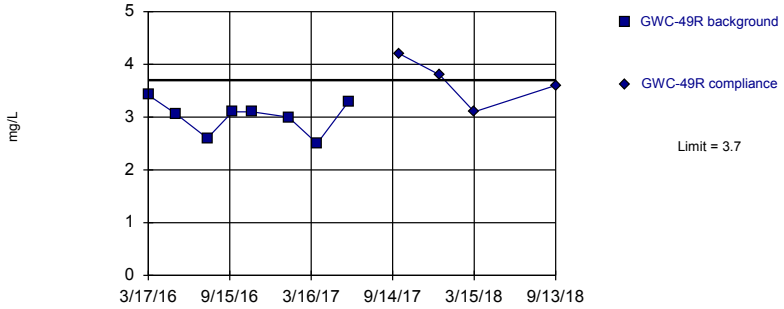
Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWC-46R	GWC-46R	GWC-47	GWC-47	GWC-47R	GWC-47R	GWC-48	GWC-48
3/10/2016	5.7554		3.4409		9.1279		2.6569	
5/17/2016	8.67						2.39	
5/18/2016			4.09		10.1			
7/26/2016	6.6							
7/27/2016			4		7		<1.6 (*)	
9/20/2016	5.8		4.3		6.7		2.4	
11/4/2016	6.1				7.9		2.1	
11/7/2016			4.1					
1/20/2017	7				6.6			
1/23/2017			5.1				2.1	
3/28/2017	7.7						2.1	
3/29/2017			5.2		6.2			
6/7/2017	6.4							
6/8/2017			3.8		7.5		1.3	
9/27/2017				4.3		7.5		
9/29/2017		8.4						3.7
12/28/2017								1.7 (Y)
3/15/2018		6.4		3.7				0.76 (J)
3/16/2018						13.4		
9/13/2018		7.2		4.8		11.6		1.6

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=3.01, Std. Dev.=0.316, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9105, critical = 0.749. Kappa = 2.164 (c=7, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Sulfate Analysis Run 12/4/2018 8:44 AM View: cells9&10_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

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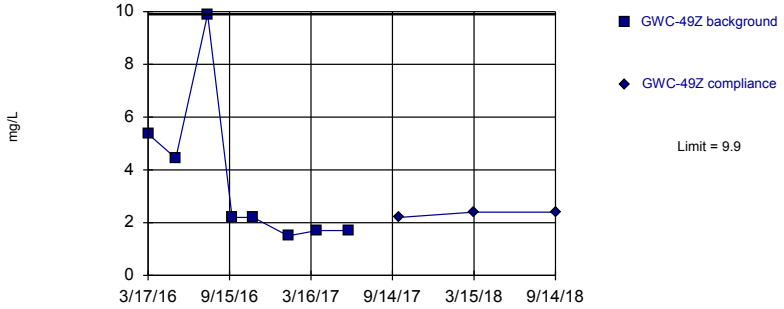
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=3.626, Std. Dev.=2.905, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7649, critical = 0.749. Kappa = 2.164 (c=7, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Sulfate Analysis Run 12/4/2018 8:44 AM View: cells9&10_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

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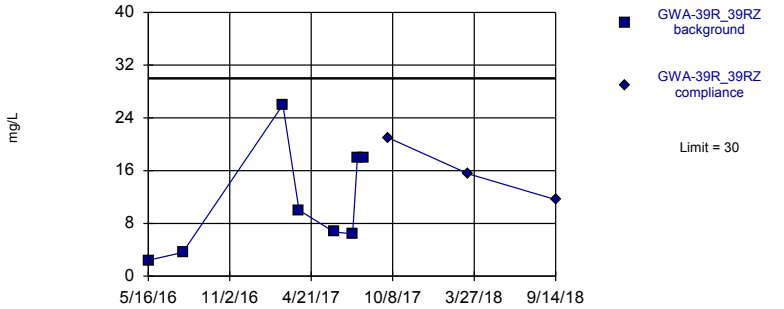
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=11.39, Std. Dev.=8.377, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9018, critical = 0.749. Kappa = 2.164 (c=7, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Sulfate Analysis Run 12/4/2018 8:44 AM View: cells9&10_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

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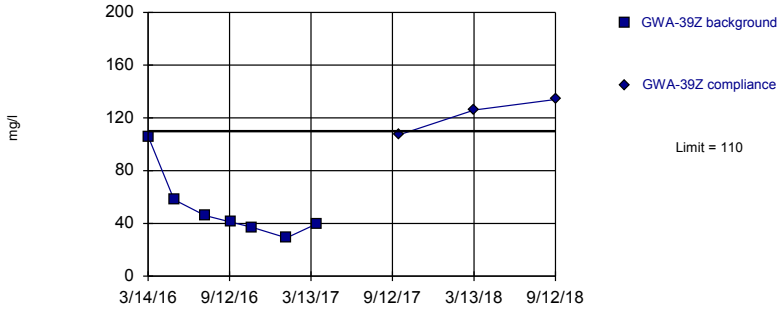
Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=51, Std. Dev.=25.82, n=7. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7618, critical = 0.73. Kappa = 2.413 (c=7, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Total Dissolved Solids Analysis Run 12/4/2018 8:44 AM View: cells9&10_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

Prediction Limit

Constituent: Sulfate, Total Dissolved Solids Analysis Run 12/4/2018 8:47 AM View: cells9&10_AppIII_intrawell

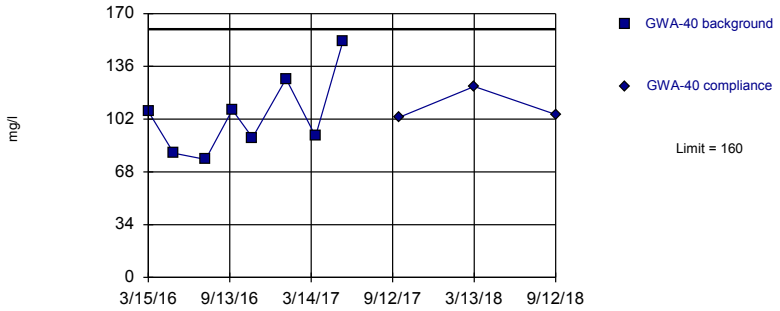
Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWC-49R	GWC-49R	GWC-49Z	GWC-49Z	GWA-39R_39RZ	GWA-39R_39RZ	GWA-39Z	GWA-39Z
3/14/2016							106	
3/17/2016	3.4197		5.3658					
5/11/2016							58	
5/16/2016					2.4 (D)			
5/18/2016	3.06		4.44					
7/19/2016							46	
7/27/2016	2.6				3.6 (D)			
7/28/2016			9.9					
9/15/2016							41	
9/21/2016	3.1		2.2					
11/2/2016							37	
11/4/2016	3.1							
11/7/2016			2.2					
1/18/2017							29	
1/24/2017	3		1.5					
2/21/2017					26 (D)			
3/27/2017					10 (D)			
3/28/2017							40	
3/29/2017	2.5							
3/30/2017			1.7					
6/8/2017	3.3				6.7 (D)			
6/9/2017			1.7					
7/17/2017					6.4 (D)			
7/27/2017					18 (D)			
8/9/2017					18 (D)			
9/26/2017								107
9/29/2017		4.2		2.2		21 (D)		
12/28/2017		3.8 (Y)						
3/14/2018								126
3/15/2018		3.1		2.4				
3/16/2018						15.5		
9/12/2018								134
9/13/2018		3.6						
9/14/2018				2.4		11.6		

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=104, Std. Dev.=25.72, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9186, critical = 0.749. Kappa = 2.164 (c=7, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Total Dissolved Solids Analysis Run 12/4/2018 8:44 AM View: cells9&10_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

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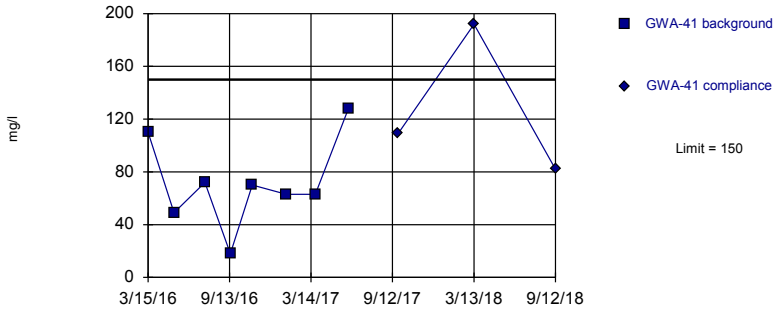
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=71.63, Std. Dev.=34.21, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.942, critical = 0.749. Kappa = 2.164 (c=7, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Total Dissolved Solids Analysis Run 12/4/2018 8:44 AM View: cells9&10_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

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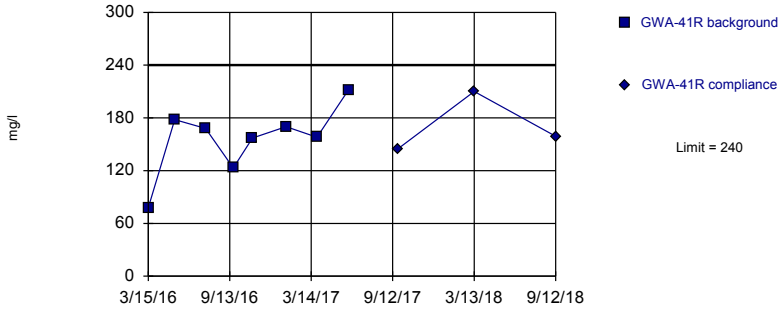
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=155.5, Std. Dev.=39.89, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.922, critical = 0.749. Kappa = 2.164 (c=7, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Total Dissolved Solids Analysis Run 12/4/2018 8:44 AM View: cells9&10_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

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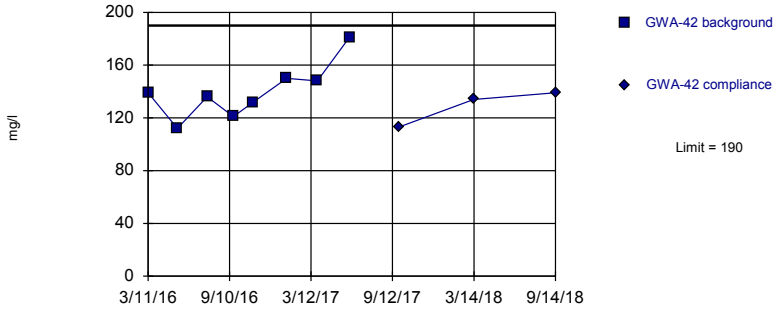
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=139.9, Std. Dev.=20.95, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9458, critical = 0.749. Kappa = 2.164 (c=7, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Total Dissolved Solids Analysis Run 12/4/2018 8:44 AM View: cells9&10_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

Prediction Limit

Constituent: Total Dissolved Solids Analysis Run 12/4/2018 8:48 AM View: cells9&10_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWA-40	GWA-40	GWA-41	GWA-41	GWA-41R	GWA-41R	GWA-42	GWA-42
3/11/2016							139	
3/15/2016	107		110		78			
5/11/2016	80							
5/12/2016			49					
5/13/2016					178			
5/16/2016							112	
7/20/2016			72					
7/21/2016	76				168			
7/22/2016							136	
9/15/2016			18 (J)					
9/19/2016	108						121	
9/21/2016					123			
11/3/2016	90		70		157		132	
1/17/2017	128				170		150	
1/18/2017			63					
3/24/2017	91		63					
3/27/2017					158		148	
5/24/2017	152							
6/6/2017			128		212			
6/7/2017							181	
9/25/2017				109		145		
9/26/2017		103						113
3/14/2018		123		192		210		134
9/12/2018		105		82		159		
9/14/2018								139

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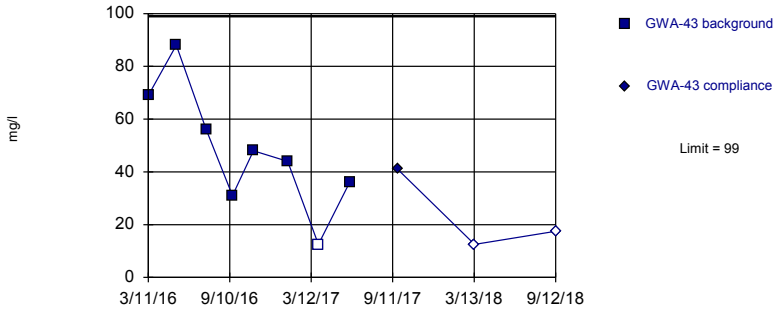
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=48.06, Std. Dev.=23.34, n=8, 12.5% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9892, critical = 0.749. Kappa = 2.164 (c=7, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Total Dissolved Solids Analysis Run 12/4/2018 8:44 AM View: cells9&10_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

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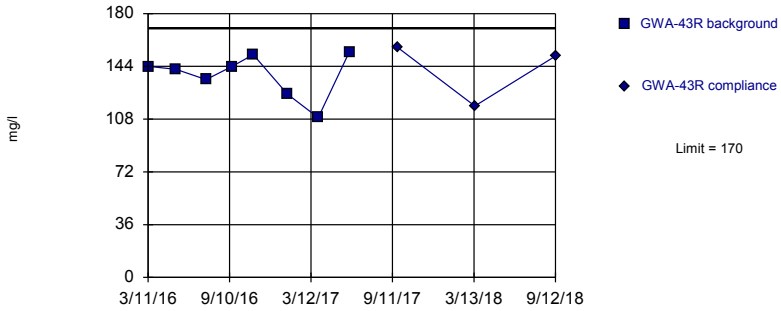
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=138.1, Std. Dev.=14.92, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9001, critical = 0.749. Kappa = 2.164 (c=7, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Total Dissolved Solids Analysis Run 12/4/2018 8:44 AM View: cells9&10_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

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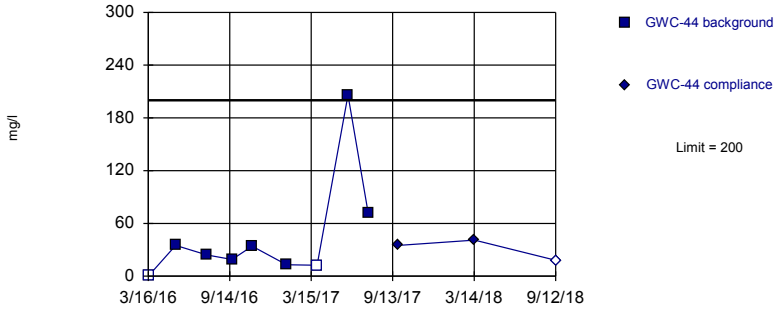
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square root transformation) (after Aitchison`s Adjustment): Mean=5.272, Std. Dev.=4.371, n=9, 22.22% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8944, critical = 0.764. Kappa = 2.048 (c=7, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Total Dissolved Solids Analysis Run 12/4/2018 8:44 AM View: cells9&10_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

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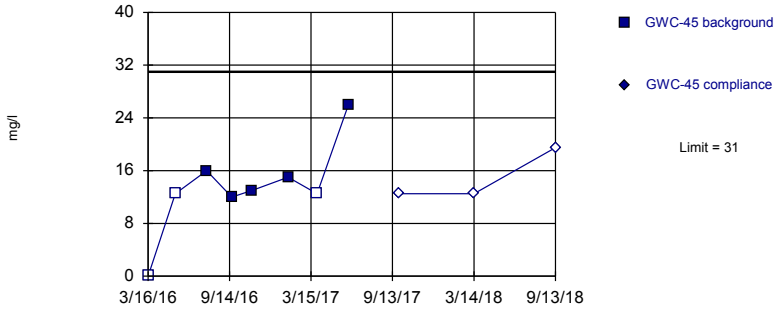
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (after Aitchison`s Adjustment): Mean=10.25, Std. Dev.=9.483, n=8, 37.5% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8681, critical = 0.749. Kappa = 2.164 (c=7, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Total Dissolved Solids Analysis Run 12/4/2018 8:44 AM View: cells9&10_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

Prediction Limit

Constituent: Total Dissolved Solids Analysis Run 12/4/2018 8:48 AM View: cells9&10_AppIII_intrawell

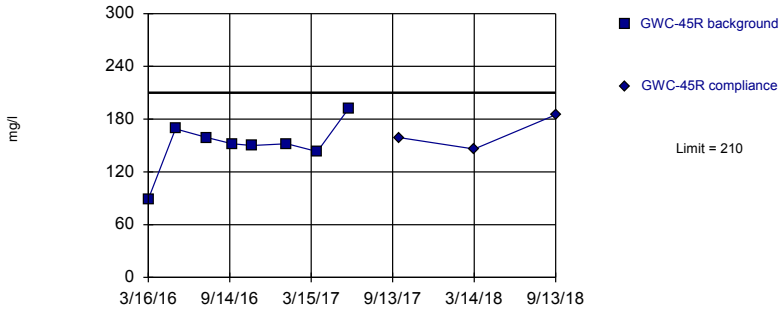
Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWA-43	GWA-43	GWA-43R	GWA-43R	GWC-44	GWC-44	GWC-45	GWC-45
3/11/2016	69		144					
3/16/2016					<0.01		<0.01	
5/13/2016	88		142					
5/16/2016					35		<25	
7/19/2016	56		135					
7/25/2016					24 (J)		16 (J)	
9/16/2016	31		144					
9/19/2016					19 (J)		12 (J)	
11/2/2016	48		152					
11/3/2016					34			
11/4/2016							13 (J)	
1/18/2017	44		125					
1/19/2017					13 (J)			
1/23/2017							15 (J)	
3/28/2017	<25		109		<25			
3/29/2017							<25	
6/5/2017					206			
6/6/2017	36		154					
6/7/2017							26	
7/20/2017					72			
9/22/2017		41		157				
9/26/2017						35		
9/27/2017								<25
3/14/2018		<25						
3/15/2018				117		41		<25
9/12/2018		<35		151		<36		
9/13/2018								<39

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=150.8, Std. Dev.=29.23, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8701, critical = 0.749. Kappa = 2.164 (c=7, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Total Dissolved Solids Analysis Run 12/4/2018 8:44 AM View: cells9&10_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

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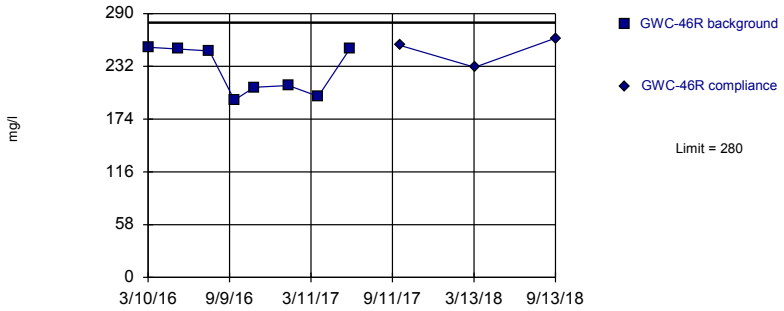
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=227.3, Std. Dev.=25.91, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.792, critical = 0.749. Kappa = 2.164 (c=7, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Total Dissolved Solids Analysis Run 12/4/2018 8:44 AM View: cells9&10_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

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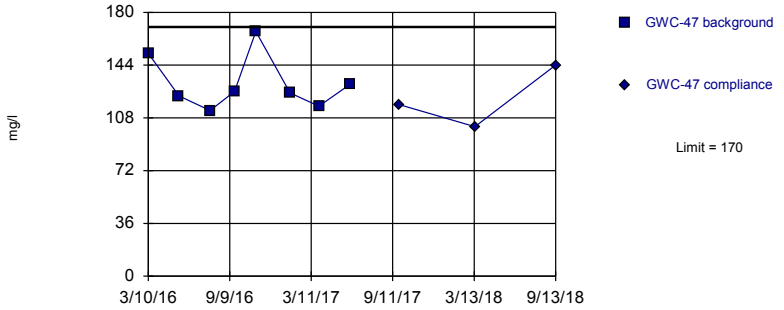
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=131.6, Std. Dev.=18.55, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8606, critical = 0.749. Kappa = 2.164 (c=7, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Total Dissolved Solids Analysis Run 12/4/2018 8:44 AM View: cells9&10_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

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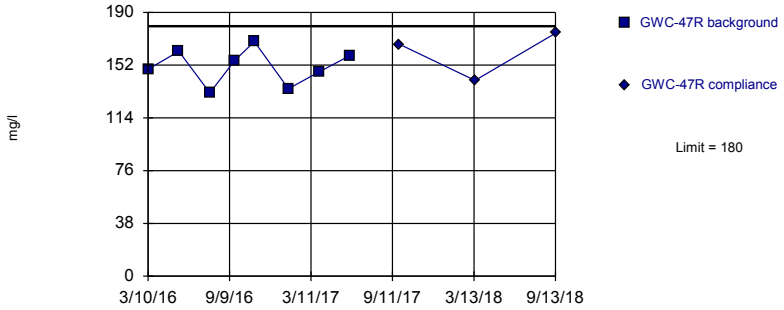
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=151, Std. Dev.=12.88, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9579, critical = 0.749. Kappa = 2.164 (c=7, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Total Dissolved Solids Analysis Run 12/4/2018 8:44 AM View: cells9&10_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

Prediction Limit

Constituent: Total Dissolved Solids Analysis Run 12/4/2018 8:48 AM View: cells9&10_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWC-45R	GWC-45R	GWC-46R	GWC-46R	GWC-47	GWC-47	GWC-47R	GWC-47R
3/10/2016			253		152		149	
3/16/2016	89							
5/16/2016	169							
5/17/2016			251					
5/18/2016					123		162	
7/25/2016	159							
7/26/2016			249					
7/27/2016					113		132	
9/19/2016	152							
9/20/2016			195		126		155	
11/3/2016	150							
11/4/2016			209				169	
11/7/2016					167			
1/20/2017	152		211				135	
1/23/2017					125			
3/28/2017			199					
3/29/2017	143				116		147	
6/7/2017	192		251					
6/8/2017					131		159	
9/27/2017		159				117		167
9/29/2017				255				
3/15/2018		146		231		102		
3/16/2018								141
9/13/2018		185		263		144		175

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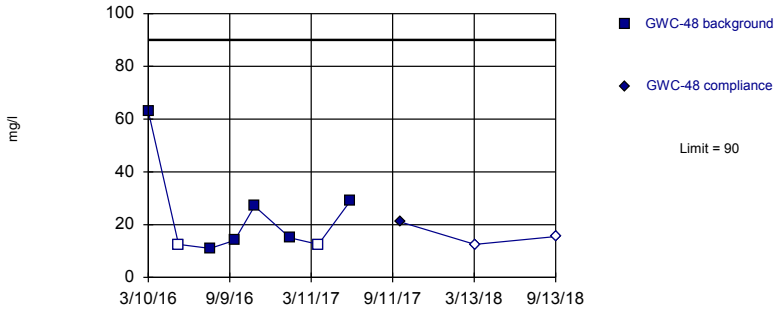
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square root transformation) (after Aitchison`s Adjustment): Mean=3.681, Std. Dev.=2.688, n=8, 25% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7831, critical = 0.749. Kappa = 2.164 (c=7, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Total Dissolved Solids Analysis Run 12/4/2018 8:44 AM View: cells9&10_AppIII_intrawell
Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

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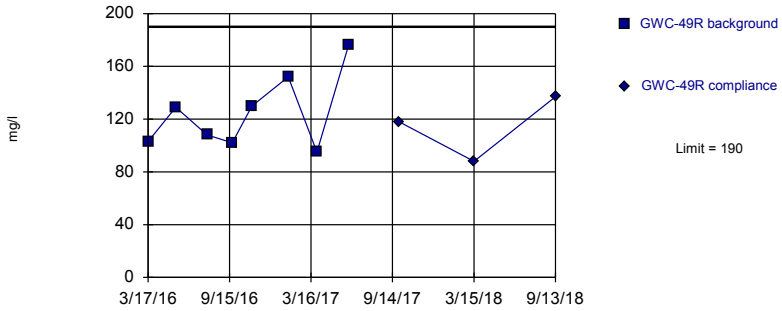
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=124.4, Std. Dev.=28.21, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8981, critical = 0.749. Kappa = 2.164 (c=7, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Total Dissolved Solids Analysis Run 12/4/2018 8:44 AM View: cells9&10_AppIII_intrawell
Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

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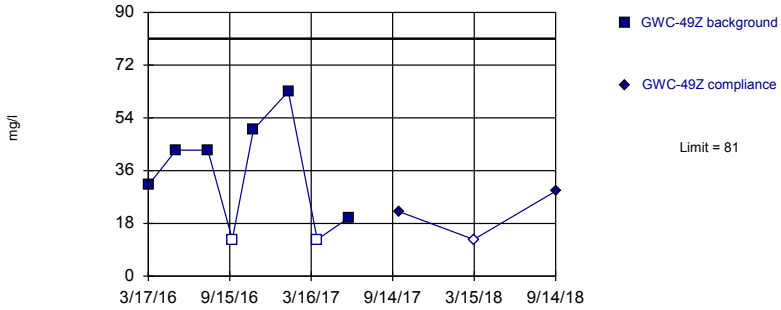
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (after Aitchison`s Adjustment): Mean=31.25, Std. Dev.=23.04, n=8, 25% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9296, critical = 0.749. Kappa = 2.164 (c=7, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.0008358.

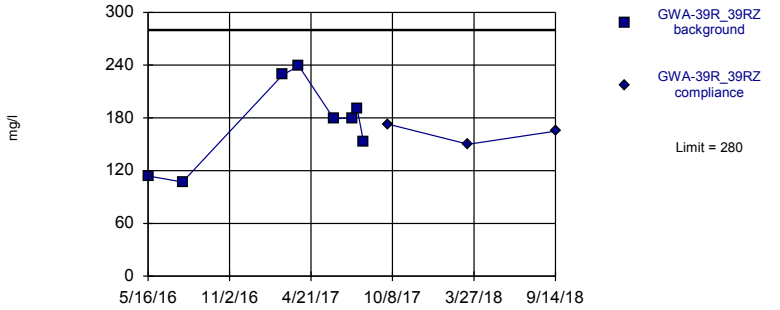
Constituent: Total Dissolved Solids Analysis Run 12/4/2018 8:44 AM View: cells9&10_AppIII_intrawell
Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

Sanitas™ v.9.5.32 Sanitas software licensed to AMEC. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=173.9, Std. Dev.=47.95, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9365, critical = 0.749. Kappa = 2.164 (c=7, w=9, 1 of 3, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Total Dissolved Solids Analysis Run 12/4/2018 8:44 AM View: cells9&10_AppIII_intrawell
Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

Prediction Limit

Constituent: Total Dissolved Solids Analysis Run 12/4/2018 8:48 AM View: cells9&10_AppIII_intrawell

Plant Bowen Client: Southern Company Data: Copy of Bowen 9&10 CCR

	GWC-48	GWC-48	GWC-49R	GWC-49R	GWC-49Z	GWC-49Z	GWA-39R_39RZ	GWA-39R_39RZ
3/10/2016	63							
3/17/2016			103		31			
5/16/2016							114 (D)	
5/17/2016	<25							
5/18/2016			129		43			
7/27/2016	11 (J)		108				107 (D)	
7/28/2016					43			
9/20/2016	14 (J)							
9/21/2016			102		<25			
11/4/2016	27		130					
11/7/2016					50			
1/23/2017	15 (J)							
1/24/2017			152		63			
2/21/2017							229 (D)	
3/27/2017							239 (D)	
3/28/2017	<25							
3/29/2017			95					
3/30/2017					<25			
6/8/2017	29		176				179 (D)	
6/9/2017					20 (J)			
7/17/2017							180 (D)	
7/27/2017							190 (D)	
8/9/2017							153 (D)	
9/29/2017		21 (J)		118		22 (J)		173 (D)
3/15/2018		<25		88		<25		
3/16/2018								150
9/13/2018		<31		137				
9/14/2018						29		165

APPENDIX C

ALTERNATE SOURCE DEMONSTRATIONS

Alternate Source Demonstration

Plant Bowen
Cells 3 & 4
Solid Waste Disposal Facility
Permit No. 008-018D (LI)

Prepared for: Georgia Power

Date: August 30, 2017

Prepared by: Amec Foster Wheeler Environment & Infrastructure, Inc.
1075 Big Shanty Road NW, Suite 100, Kennesaw, Georgia 30144

Project No.: 6122-16-0287

August 30, 2017

Mr. David Hamilton
Georgia Power Company – Environmental Affairs
241 Ralph McGill Blvd
Atlanta, Georgia 30308

Subject: **Alternate Source Demonstration**
Plant Bowen - Solid Waste Disposal Facility Landfill Cells 3 & 4
Amec Foster Wheeler Project 6122-09-0287

Dear Mr. Hamilton:

Amec Foster Wheeler Environment & Infrastructure, Inc. is pleased to submit the attached Alternate Source Demonstration for the Plant Bowen - Solid Waste Disposal Facility Landfill Cells 3 & 4 in Cartersville, Georgia. The enclosed report is for your submittal to the Georgia Environmental Protection Division. This report was prepared in accordance with 391-3-4.14.23c of the Georgia Solid Waste Management Rules

We appreciate the opportunity to provide environmental consulting services to the Georgia Power Company and Southern Company Services. Please feel free to contact us at (770) 421-3400 if you have questions or require additional information.

Sincerely,

Amec Foster Wheeler Environment & Infrastructure, Inc.

Rhonda N. Quinn, P.G.
Senior Geologist

Gregory J. Wrenn, P.E.
Associate Engineer/Project Manager

Enclosure: Alternate Source Demonstration for the Plant Bowen - Solid Waste Disposal Facility Landfill Cells 3 & 4 (3 Paper & 3 PDF copies)

cc: Mr. Joju Abraham, SCS (via e-mail)

Amec Foster Wheeler Environment & Infrastructure, Inc.
1075 Big Shanty Road NW, Suite 100
Kennesaw, Georgia 30144
Tel: (770) 421-3400
www.amecfw.com

Professional Ground Water Scientist Certification

I certify that I am a qualified ground-water scientist who has received a baccalaureate or post-graduate degree in the natural sciences or engineering, and have sufficient training and experience in ground-water hydrology and related fields, as demonstrated by state registration and completion of accredited university courses, that enable me to make sound professional judgments regarding ground-water monitoring and contaminant fate and transport. I further certify that this report was prepared by myself or by a subordinate working under my direction.

Rhonda N. Quinn, P.G.
Registered Professional Geologist
Georgia Registration #1031

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1.0 INTRODUCTION

This Alternate Source Demonstration (ASD) has been prepared in accordance with 391-3-4.14.23c of the Georgia Solid Waste Management Rules to support the position that statistically significant increases (SSIs) are a result of the natural variability in groundwater quality and not a release from the landfill cells.

Georgia Power Company's (GPC) Plant Bowen solid waste disposal facility is located in south Bartow County off State Highway 113, approximately 7 miles west-southwest of Cartersville and 20 miles southeast of Rome. The disposal facility is approximately 300 acres located on a previously undeveloped, contiguous portion of the plant property. Plant Bowen has four coal burning units equipped with flue gas desulfurization (FGD) technology. The disposal facility (**Figure 1**: **Plant Bowen Solid Waste Disposal Facilities Monitoring Well Network March 2017)** receives coal combustion by-products, coal ash and gypsum, from coal-burning and FGD processes at the site.

The Plant Bowen solid waste disposal facility is operated in accordance with Georgia Environmental Protection Division's (EPD) Permit No. 008-018D (LI)**.** Groundwater monitoring is conducted as per the permit requirements specified in the Design and Operation (D&O) plan. This includes semi-annual groundwater sampling and continuous groundwater level measurements at the site. In addition, background sampling for the U.S. Environmental Protection Agency's (USEPA) Coal Combustion Residuals (CCR) Rule has been conducted from February 2016 through June 2017.

In March and April 2017, the first semi-annual groundwater monitoring event for 2017 was conducted in accordance with the solid waste permit monitoring requirements. Antimony was detected in Cells 3 & 4 downgradient bedrock monitoring wells GWC-16R and GWC-21R at concentrations of 0.0187 and 0.0058 mg/L, respectively. These concentrations indicated an initial statistically significant increase (SSI) above the interwell prediction limit, constructed from upgradient bedrock wells at Cells 3 & 4, of 0.0046 mg/L. The prediction limit for antimony at Cells 3 & 4 is less than the established maximum contaminant level (MCL) of 0.006 mg/L. Nickel was detected in well GWC-16R at a concentration of 0.0111 mg/L, resulting in an initial SSI which was slightly above the interwell prediction limit of 0.01 mg/L constructed from upgradient bedrock wells at Cells 3 & 4. The prediction limit for nickel at Cells 3 & 4 is less than the established MCL of 0.1 mg/L.

2.0 ALTERNATE SOURCE DEMONSTRATION

The ASD is presented in two parts. The first part is an evaluation of whether or not the antimony and nickel concentrations are an indication of a release from Cells 3 & 4. The second part is an evaluation of other sources, besides Cells 3 & 4, that are contributing to the antimony and nickel concentration above their respective interwell prediction limits.

2.1 Evaluation of a Metals Impact

Per the Georgia Solid Waste Management Rules, to evaluate if the detection(s) of naturally-occurring metals in groundwater downgradient of a disposal unit are an indication of a release, concentrations are compared to statistically-derived levels based on concentrations from background or upgradient wells. A statistically significant increase (SSI) over background levels is not the exclusive criteria for determining a metals impact to groundwater downgradient of a landfill cell. Other factors need to be evaluated to discern if there is evidence of an impact from the landfill cell. A review of the GWC-16R and GWC-21R data indicates the following:

- Construction of disposal Cells 3 & 4 was completed in February 2015 and includes a liner system to prevent waste materials from leaching into underlying groundwater.

- An impact from a landfill cell would typically be expected to result in SSIs of multiple metals concentrations. In March 2017 only antimony and nickel concentrations in wells GWC-16R (antimony and nickel) and GWC-21R (antimony) were above background levels. No other metals concentrations were above background levels in these two wells or in other Cells 3 & 4 downgradient wells, see **Table 1: Analytical Data Summary – Cells 3 & 4 (March 2017)**. All other target metals are present at low concentrations, most of which are present at concentrations below the analytical reporting limit.

- The placement of waste in Cells 3 & 4 began February 2015 and continues to the present. Because the size of the source is increasing over time, which would add more constituents to the groundwater, concentration trends would be expected to increase accordingly if the release was from the landfill cells. As indicated on **Figure 2: Antimony and Nickel Trends in Wells GWC-16R and GWC-21R,** the antimony concentration in GWC-16R is variable over time and does not show an increasing trend indicative of a release. Nickel was detected in GWC-16R and upgradient wells GWA-36R, GWA-37, and GWA-38 prior to waste placement. The nickel concentration in well GWC-16R has decreased since the placement of waste began, thus indicating that the waste is not the source and that there is not an on-going release. The well GWC-21R antimony concentrations also do not show an increasing trend. A comparison of the patterns of concentration trends do not show a correlation between the two metals (nickel decreasing while antimony varies up and down) nor is there consistency of patterns between the two wells as would be expected if the waste cell was the source **(Figure 2)**.

- **Figure 3 Comparison of Antimony in Downgradient Wells Screened in the Same Interval as Wells GWC-16R and GWC-21R** shows the antimony concentration time-trends of Cells 3 & 4 dowgradient wells (GWC-16R, GWC-21R, GWC-17R, GWC-18, GWC-20R, GWC-23R, and GWC-24R) which are screened across similar elevations (652 to 631 feet, msl). Well GWC-21R is located over 1100 feet to the east of GWC-16R, as shown on **Figure 1** the wells are located on opposite corners of the Cell 3 & 4 area. Well GWC-17R is located about 230 feet east of GWC-16R and well GWC-20R is located about

260 feet west of well GWC-21R. If there had been an antimony impact from the waste placed in Cells 3 & 4, antimony would be expected to be detected at a similar frequency in the adjacent wells GWC-17R and GWC-20R (which were mostly non-detect for antimony over time) as is reported in wells GWC-16R and GWC-21R. As shown on **Figure 3** the GWC-17R and GWC-20R trends do not have the same pattern as GWC-16R and GWC-21R.

The above lines of evidences, namely, (1) a lined landfill designed to limit leaching, (2) a lack of other metals showing SSI, (3) an inconsistent pattern of the detection between antimony and nickel, and (4) an inconsistent detection pattern with other metals to the detection of antimony and nickel do not indicate a release of antimony and nickel to the groundwater downgradient from Cells 3 & 4. Rather, the initial SSIs of antimony and nickel in wells GWC-16R and GWC-21R likely reflect naturally-occurring sources in the geological formation and natural variability of groundwater chemistry underlying the site.

Table 1. Analytical Data Summary – Cells 3 & 4 (March 2017)

Wells	Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
	MCL/ SMCL	***0.006****	***0.01****	***2.0****	***0.004****	***0.005****	***0.1****	***N/R***	***1.0 **^***	***0.015 ******	***0.002****	***0.1****	***0.05****	***0.1 *****	***0.002****	***N/R***	***5.0 *****
Overburden Interwell Prediction Limits		0.0052	0.0062	0.03536	0.01192	0.001337	0.01598	0.02179	0.022	0.01822	0.00025	0.03164	0.005346	0.005352	0.0005376	0.005166	0.4687
Bedrock Interwell Prediction Limits		0.0046	0.0162	0.071	0.0032	0.0009843	0.036	0.005	0.0125	0.0069	0.00025	0.01	0.01	0.01	0.0005598	0.0279	0.44
GWA-36	3/15/2017	0.0004 (J)	< 0.005	0.0121	0.0002 (J)	0.0013	0.0007 (J)	< 0.01	0.0008 (J)	0.0002 (J)	< 0.0005	0.0142	< 0.01	< 0.01	0.00004 (J)	< 0.01	0.382
GWA-36R	3/14/2017	< 0.003	< 0.005	0.02	0.0001 (J)	0.0001 (J)	0.0008 (J)	< 0.01	0.0003 (J)	0.0003 (J)	< 0.0005	0.0007 (J)	< 0.01	< 0.01	< 0.001	< 0.01	0.0401
GWA-37	3/14/2017	0.003	0.0005 (J)	0.009 (J)	< 0.003	0.00007 (J)	0.0006 (J)	0.0009 (J)	0.0085 (J)	0.0001 (J)	< 0.0005	0.0087 (J)	< 0.01	< 0.01	< 0.001	< 0.01	0.0042 (J)
GWA-38	3/23/2017	< 0.003	< 0.005	0.0128	< 0.003	0.0001 (J)	0.0016 (J)	0.0018 (J)	< 0.025	0.0001 (J)	< 0.0005	0.0022 (J)	< 0.01	< 0.01	< 0.001	< 0.01	0.0049 (J)
GWA-51RZ	3/15/2017	0.0006 (J)	0.0006 (J)	0.0172	< 0.003	0.0001 (J)	< 0.01	< 0.01	< 0.025	< 0.005	< 0.0005	< 0.01	0.0056 (J)	< 0.01	0.00004 (J)	< 0.01	< 0.01
GWA-52	3/15/2017	< 0.003	< 0.005	0.0202	< 0.003	0.0001 (J)	0.0014 (J)	< 0.01	< 0.025	< 0.005	< 0.0005	0.0005 (J)	< 0.01	< 0.01	0.00004 (J)	< 0.01	0.0013 (J)
GWA-53	3/16/2017	< 0.003	0.0005 (J)	0.0129	< 0.003	0.0001 (J)	0.001 (J)	< 0.01	< 0.025	0.0001 (J)	< 0.0005	0.0005 (J)	< 0.01	< 0.01	0.00004 (J)	< 0.01	0.0029 (J)
GWA-53R	3/16/2017	0.0029 (J)	0.0005 (J)	0.0145	< 0.003	< 0.001	0.0011 (J)	< 0.01	< 0.025	0.00005 (J)	< 0.0005	< 0.01	< 0.01	< 0.01	< 0.001	< 0.01	0.0018 (J)
GWA-54	3/15/2017	< 0.003	0.0006 (J)	0.0262	< 0.003	0.00007 (J)	0.0019 (J)	< 0.01	< 0.025	< 0.005	< 0.0005	0.0005 (J)	< 0.01	< 0.01	0.00004 (J)	< 0.01	0.0024 (J)
GWA-55	3/16/2017	< 0.003	0.0005 (J)	0.0175	< 0.003	< 0.001	0.0008 (J)	0.0006 (J)	< 0.025	0.00007 (J)	< 0.0005	0.0008 (J)	< 0.01	< 0.01	0.0001 (J)	< 0.01	0.0015 (J)
GWA-55R	3/16/2017	0.0007 (J)	0.0007 (J)	0.0497	< 0.003	0.0001 (J)	0.0018 (J)	< 0.01	0.0003 (J)	0.0001 (J)	< 0.0005	0.0015 (J)	< 0.01	< 0.01	0.00005 (J)	< 0.01	0.0054 (J)
GWA-56	3/15/2017	< 0.003	0.0005 (J)	0.0286	< 0.003	0.0001 (J)	< 0.01	< 0.01	0.0003 (J)	0.0001 (J)	< 0.0005	< 0.01	< 0.01	< 0.01	< 0.001	< 0.01	0.0034 (J)
GWC-16R	3/20/2017	**0.0187**	0.0012 (J)	0.0383	< 0.003	< 0.001	0.0013 (J)	< 0.01	0.002 (J)	< 0.005	< 0.0005	0.0111	< 0.01	< 0.01	0.0003 (J)	0.0019 (J)	0.0465
GWC-17R	3/21/2017	< 0.003	0.0009 (J)	0.0201	< 0.003	< 0.001	0.0005 (J)	< 0.01	0.0005 (J)	< 0.005	< 0.0005	< 0.01	< 0.01	< 0.01	< 0.001	< 0.01	0.0016 (J)
GWC-18	3/23/2017	< 0.003	< 0.005	0.0254	< 0.003	< 0.001	0.0026 (J)	< 0.01	< 0.025	0.0002 (J)	< 0.0005	0.0006 (J)	< 0.01	< 0.01	0.0001 (J)	< 0.01	0.0025 (J)
GWC-18R	3/20/2017	0.0005 (J)	0.0006 (J)	0.0147	< 0.003	< 0.001	0.0005 (J)	< 0.01	< 0.025	0.00007 (J)	< 0.0005	< 0.01	< 0.01	< 0.01	< 0.001	< 0.01	< 0.01
GWC-19R	3/21/2017	< 0.003	0.0007 (J)	0.0159	< 0.003	< 0.001	0.0009 (J)	< 0.01	0.0006 (J)	0.00007 (J)	< 0.0005	0.0008 (J)	< 0.01	< 0.01	< 0.001	< 0.01	0.0028 (J)
GWC-20R	3/22/2017	< 0.003	< 0.005	0.025	< 0.003	< 0.001	0.0007 (J)	< 0.01	< 0.025	< 0.005	< 0.0005	< 0.01	< 0.01	< 0.01	0.00004 (J)	< 0.01	< 0.01
GWC-21R	3/21/2017	0.0058	0.0021 (J)	0.0292	< 0.003	< 0.001	0.0004 (J)	0.0005 (J)	0.0009 (J)	0.00006 (J)	< 0.0005	0.0017 (J)	< 0.01	< 0.01	0.0002 (J)	< 0.01	0.0043 (J)
GWC-22R	3/20/2017	< 0.003	0.0012 (J)	0.033	< 0.003	< 0.001	0.0004 (J)	< 0.01	0.0012 (J)	0.00007 (J)	< 0.0005	< 0.01	< 0.01	< 0.01	0.0001 (J)	< 0.01	0.0075 (J)
GWC-23R	3/22/2017	0.0006 (J)	< 0.005	0.0211	< 0.003	< 0.001	0.0008 (J)	< 0.01	0.0005 (J)	< 0.005	< 0.0005	0.0005 (J)	< 0.01	< 0.01	0.0001 (J)	< 0.01	0.0021 (J)
GWC-24R	3/20/2017	0.0014 (J)	0.0013 (J)	0.029	< 0.003	< 0.001	< 0.01	< 0.01	0.0003 (J)	0.0001 (J)	< 0.0005	0.0003 (J)	< 0.01	< 0.01	0.00004 (J)	< 0.01	< 0.01
GWC-25R	3/16/2017	0.0009 (J)	0.0004 (J)	0.0163	< 0.003	0.00007 (J)	0.0008 (J)	< 0.01	0.0002 (J)	0.0003 (J)	< 0.0005	0.0012 (J)	< 0.01	< 0.01	< 0.001	< 0.01	0.0026 (J)

*MCL – Georgia Primary Maximum Contaminant Limit (MCL) for drinking water.
** Georgia Secondary MCL for drinking water. *** U.S. USEPA Action Level for lead. ^ For copper, the action level is 1.3 mg/L. J – Estimated concentration between Method Detection Limit and Practical Quantitation Limit. N/R – does not have a Primary or Secondary MCL. Bold and shaded cells indicate MCL exceedance. Double boxed cells indicate concentration above interwell prediction limit.

2.2 Other Naturally-Occurring Sources of Antimony and Nickel

2.2.1 Natural Occurrence

Antimony and nickel occur naturally in the local geologic formations. The Cartersville mining district in Bartow County contains residual deposits of arsenic-bearing minerals, barite, manganese, and iron oxide minerals along with metal sulfides (Geology and Mineral Deposits of the Cartersville District Georgia, U.S. Geological Survey Professional Paper 224, Kesler, T.L. 1950). Arsenic, copper, lead, nickel, and zinc are found in varying amounts throughout the residual clays of the region due to the weathering of sulfides (Kesler, 1950). The overlying residual clays of the regional carbonate rocks contain deposits of coarsely crystalline barite (Kesler, 1950). The barite encloses sulfides such as enargite, tennantite, chalcocite, chalcopyrite, galena, cerussite, and sphalerite. Enargite often contains traces of antimony, and tennantite (copper-arsenic sulfide) forms a series with the much more common mineral tetrahedrite, which is a copper-antimony sulfide. Tennantite and tetrahedrite share the same crystal structure, but differ in the percentage of arsenic versus antimony (Anthony, Bideaux, Bladh, Nichols. 1990. Handbook of Mineralogy, Vol. I, Elements, Sulfides, Sulfosalts. Mineral Data Publishing). Limestones and dolomites can have antimony concentrations of 0.3 parts per million (Trace Elements in Soils and Plants, 3rd Edition, Table 119, Alina Kabata-Pendias, CRC Press, 2001), which could result in naturally occurring concentrations in groundwater at levels similar to those observed at the site.

2.2.2 Comparison to Upgradient Concentrations

Antimony and nickel have been detected in both upgradient and downgradient wells around Cells 1 & 2, 3 & 4, and 9 & 10 and the two metals are naturally occurring in the minerals present in the area. **Table 2: Antimony Concentrations** below summarizes the antimony concentrations from 2007 to June 2017 from wells in Cells 3 & 4 and other upgradient wells. Upgradient wells GWA-1 and GWA-2R had antimony detected at concentrations of 0.017 and 0.011 mg/L, respectively, and similar to well GWC-16R March 2017 concentration of 0.0187 mg/L.

Table 2: Antimony Concentrations

Antimony in Wells GWC-16R and GWC-21R	Antimony in Cells 3 & 4 Wells (2014 to June 2017)	Antimony in Upgradient Wells Cells 1&2, 3&4, and 9&10 (2007 to June 2017)	Highest Antimony in Upgradient Wells GWA-1, GWA-2R, and GWA-3
GWC-16R March 2017 SSI: 0.0187 Concentrations 2014 to June 2017: <0.005 to 0.0187	0.0002 to 0.0271 mg/L Overburden Background: 0.0004 to 0.0052 mg/L Bedrock Background: 0.0002 to 0.0046 mg/L	0.0002 to 0.017 mg/L	0.017, 0.011, and 0.0068 mg/L
GWC-21R March 2017 SSI: 0.0058 Concentrations 2014 to June 2017: <0.005 to 0.0058			

Figure 4 Box Plot for Antimony, Total shows that the antimony concentrations in well GWC-16R fall within the antimony concentrations reported in upgradient wells across the landfill area, with the exception being the March 2017 concentration. However, the March 2017 concentration is very close to the concentration in upgradient well GWA-1, which is indicative of natural variability in groundwater quality. Additionally, it is thought that the best estimate of the true value of antimony in GWC-16R is the average value for all the results for the well, which is 0.0054 mg/L. This value is well below the highest detected background antimony value of 0.017 mg/L. The 0.018 mg/L antimony detection in GWC-16R, which resulted in the SSI, was not confirmed by later sampling (0.0097 mg/L in May 2017) and does not appear to be representative of on-going conditions at the well.

Table 3: Nickel Concentrations below summarizes the nickel concentrations from 2007 to March 2017 from wells in Cells 3 & 4, wells across the landfill area, and upgradient wells. Upgradient wells GWA-1, GWA-2R, and GWA-3 had nickel detected at concentrations of 0.054 to 0.14 mg/L. In March 2017 the Cells 3 & 4 overburden and bedrock upgradient wells' nickel concentrations ranged from 0.0005 to 0.0142 mg/L. The GWC-16R nickel concentration of 0.0111 mg/L, which was slightly above the Cell 3 & 4 bedrock interwell prediction limit of 0.01 mg/L, is within the range of site-wide background overburden and bedrock well concentrations observed over time.

Table 3: Nickel Concentrations

Nickel in Wells GWC-16R and GWC-21R	**Nickel in Cells 3 & 4 Wells (2014 to March 2017)**	**Nickel in Upgradient Wells Cells 1&2, 3&4, and 9&10 (2007 to March 2017)**	**Highest Nickel in Upgradient Wells GWA-1 GWA-2R, and GWA-3**
GWC-16R March 2017 SSI: 0.0111 Concentrations 2014 to March 2017: 0.0111 to 0.03	0.0003 to 0.03 mg/L March 2017 Upgradient Wells (Overburden and Bedrock) 0.0005 to 0.0142 mg/L	0.0004 to 0.14 mg/L	0.14, 0.11, and 0.054 mg/L
GWC-21R March 2016: 0.0017 J (not a SSI) Concentrations 2014 to March 2017: <0.0025 to 0.0261			

2.2.3 Temporal Concentration Variability

An evaluation of nickel and antimony concentrations over time; particularly the detection of these metals in both upgradient and downgradient wells prior to waste placement is further evidence of the natural variability in the groundwater.

As shown on **Figure 2**, nickel was being detected in wells GWC-16R and GWC-21R starting in September 2014 when background monitoring for the solid waste permit began and approximately five months before the initial placement of waste in Cells 3 & 4 in February 2015. Nickel was also detected in the upgradient wells GWA-36R, GWA-37, GWA-38 starting in

September 2014 when monitoring began. The detection of nickel in upgradient and downgradient wells prior to waste placement indicates the nickel was present in the groundwater naturally. Antimony was sampled and analyzed starting in September 2014 also. The first detection of antimony was in March 2016 in upgradient wells (GWA-37, GWA-53, GWA-53R, GWA-55, and GWA-56) and in wells GWC-16R and GWC-21R and other Cells 3 & 4 monitoring wells (GWC-18, GWC-23R, GWC-24R, GWC-25R). Prior to March 2016 antimony was not detected in the upgradient nor the downgradient wells. The simultaneous detection of antimony in upgradient and downgradient Cells 3 & 4 wells starting in March 2016 would indicate that antimony is also naturally present in the groundwater.

2.2.4 Alternative Statistical Evaluation

A statistical evaluation using ProUCL (Appendix A) of all of the antimony data (2007 to June 2017) from all of the upgradient monitoring wells across the landfill area yields an upper simultaneous limit (USL) of 0.039 mg/L. An USL is a number defined as the upper boundary of the largest value in the background data set and that no true background sample (current or future) would exceed with 95% certainty (USL95). The USL is a conservative estimate of the background threshold value especially when the sample size exceeds 20 (the Bowen landfill background data set is 436 samples with 108 detects and 328 non-detects). The SSI antimony results of GWC-16R and GWC-21R (0.0187 and 0.0058 mg/L, respectively) are below the USL-background threshold value (0.039 mg/L).

For this demonstration, combining upgradient wells across each of the cells provides a better representation of constituent concentrations as well as demonstrates the natural background variability in groundwater quality.

2.3 Conclusion and Recommendations

- Antimony and nickel SSIs are not the result of a release from Cells 3 & 4, but are likely the result of natural variability in groundwater quality that is not properly accommodated by the existing statistical method.

- We will likely be moving to intrawell methods, or at least a mix of both interwell and intrawell. A statistician is evaluating the data now and will make a recommendation for future statistical methods.

- In the future, GPC anticipates submitting a request to modify the existing statistical approach for the CCR permit, which will be based on the characteristics of groundwater quality upgradient of the facility.

- Based on the lines of evidences presented in this demonstration report, this site will remain in detection monitoring.

FIGURES

Legend

Approximate Property Boundary

Well Location

- Cells 1 & 2
- Cells 3 & 4
- Cells 9 & 10

GWC-45 Water Level Digitally Monitored and Reported by Telemetry

N

Cells 3 & 4

Cells 9 & 10

Cells 1 & 2

GWC-20R, GWC-21R, GWC-22R, GWC-23R, GWC-24R, GWC-25R, GWC-19R, GWC-18, GWC-18R, GWC-17R, GWC-16R, GWA-56, GWA-55R, GWA-55, GWA-54, GWA-53, GWA-53R, GWA-52, GWA-51RZ, GWA-38, GWA-37, GWA-36, GWA-36R, GWC-45, GWC-45R, GWC-47R, GWC-47, GWC-46R, GWC-44, GWC-48, GWC-49Z, GWC-49R, GWC-14, GWC-14Z, GWC-13RZ, GWC-13R, GWC-13, GWC-15Z, GWC-15, GWC-15R, GWC-12, GWC-11R, GWC-11, GWC-10, GWC-10R, GWC-9, GWC-8RR, GWC-8Z, GWC-7Z, GWC-6, GWC-6RZ, GWC-5, GWA-43, GWA-43R, GWA-42, GWA-41R, GWA-41, GWA-40, GWA-1, GWA-39Z, GWA-39RZ, GWA-2, GWA-2R, GWA-3, GWA-4, GWA-4R, GWA-4RZ, GWA-50R, GWA-50

0 250 500 1,000 Feet

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Georgia Power - Plant Bowen
Cells 1&2, 3&4, and 9&10

Plant Bowen Solid Waste Disposal Facilities
Monitoring Well Network March 2017

Prepared by/Date: THP 5/22/2017	amec foster wheeler	Figure Number: 1
Checked by/Date:: RRQ 5/22/2017		
Project Number: 6122160287		

Figure 2: Antimony and Nickel Trends in Wells GWC-16R and GWC-21R

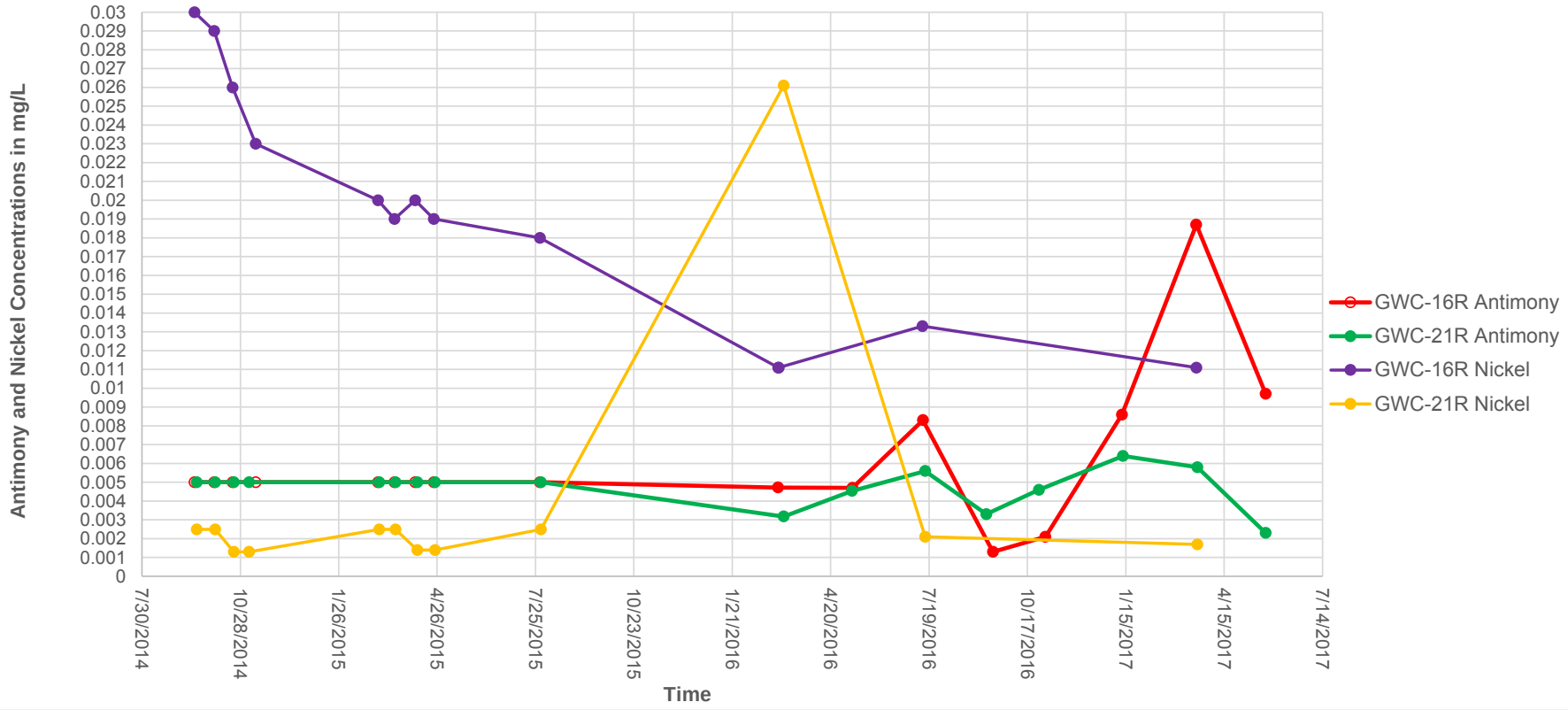


Figure 3: Comparison of Antimony in Downgradient Wells Screened in the Similar Interval as Wells GWC-16R and GWC-21R

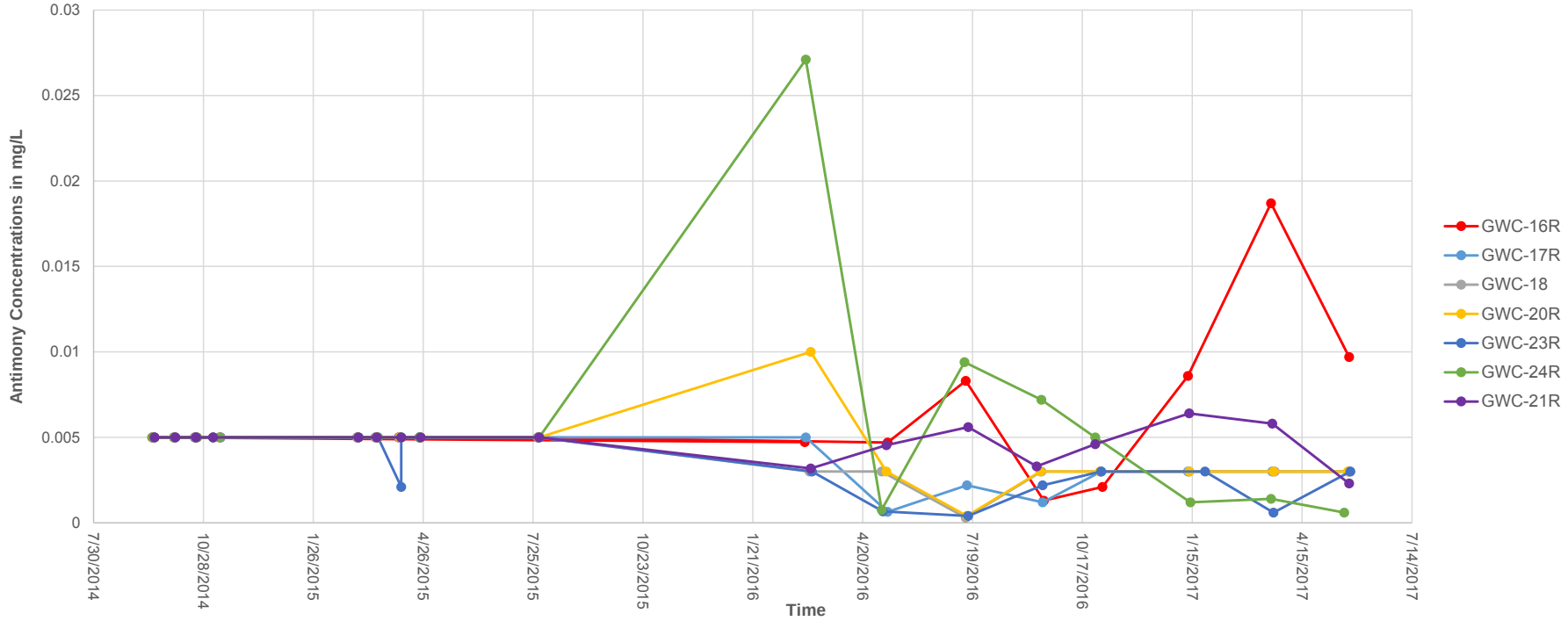
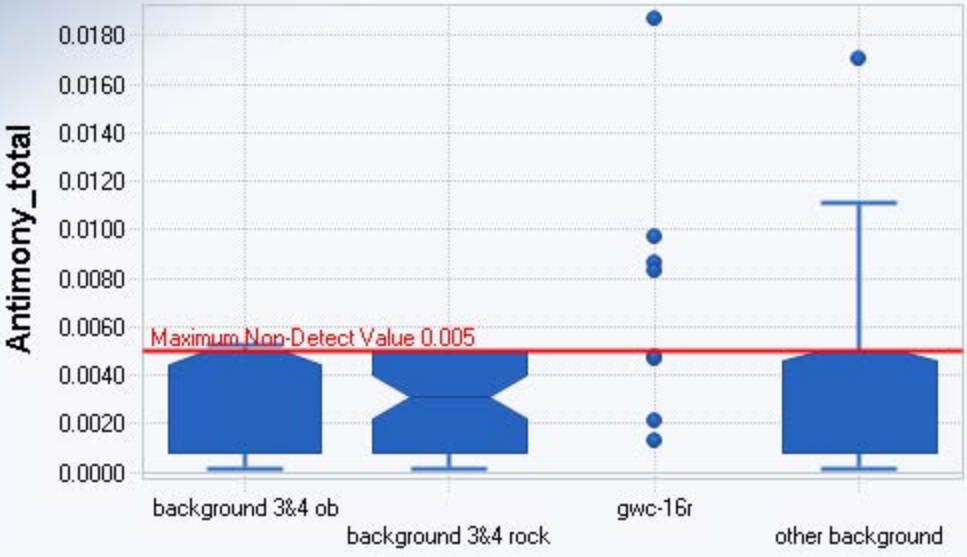


Figure 4: Box Plot for Antimony_total



APPENDIX A
STATISTICAL EVALUATION USING UPPER SIMULTANEOUS LIMIT

1	**A-1: ProUCL USL Background Threshold Level Calculation for Antimony** **Background Statistics for Data Sets with Non-Detects**											
2	**User Selected Options**											
3	Date/Time of Computation			ProUCL 5.17/21/2017 11:03:53 AM								
4	From File			Antimony Background Site Data_d.xls								
5	Full Precision			OFF								
6	Confidence Coefficient			95%								
7	Coverage			95%								
8	Different or Future K Observations			1								
9	Number of Bootstrap Operations			2000								
10												
11	**Antimony_total**											
12												
13	**General Statistics**											
14	Total Number of Observations			436			Number of Missing Observations			0		
15	Number of Distinct Observations			68								
16	Number of Detects			108			Number of Non-Detects			328		
17	Number of Distinct Detects			68			Number of Distinct Non-Detects			6		
18	Minimum Detect			2.0000E-4			Minimum Non-Detect			2.0000E-4		
19	Maximum Detect			0.017			Maximum Non-Detect			0.005		
20	Variance Detected			7.3312E-6			Percent Non-Detects			75.23%		
21	Mean Detected			0.00281			SD Detected			0.00271		
22	Mean of Detected Logged Data			-6.28			SD of Detected Logged Data			0.926		
23												
24	**Critical Values for Background Threshold Values (BTVs)**											
25	Tolerance Factor K (For UTL)			1.771			d2max (for USL)			3.658		
26												
27	**Normal GOF Test on Detects Only**											
28	Shapiro Wilk Test Statistic			0.795			**Normal GOF Test on Detected Observations Only**					
29	5% Shapiro Wilk P Value			0			Data Not Normal at 5% Significance Level					
30	Lilliefors Test Statistic			0.168			**Lilliefors GOF Test**					
31	5% Lilliefors Critical Value			0.0855			Data Not Normal at 5% Significance Level					
32	**Data Not Normal at 5% Significance Level**											
33												
34	**Kaplan Meier (KM) Background Statistics Assuming Normal Distribution**											
35	KM Mean			0.00119			KM SD			0.00181		
36	95% UTL95% Coverage			0.00441			95% KM UPL (t)			0.00419		
37	90% KM Percentile (z)			0.00352			95% KM Percentile (z)			0.00418		
38	99% KM Percentile (z)			0.00541			95% KM USL			0.00783		
39												
40	**DL/2 Substitution Background Statistics Assuming Normal Distribution**											
41	Mean			0.00198			SD			0.00169		
42	95% UTL95% Coverage			0.00498			95% UPL (t)			0.00477		
43	90% Percentile (z)			0.00415			95% Percentile (z)			0.00476		
44	99% Percentile (z)			0.00592			95% USL			0.00817		
45	**DL/2 is not a recommended method. DL/2 provided for comparisons and historical reasons**											
46												
47	**Gamma GOF Tests on Detected Observations Only**											
48	A-D Test Statistic			1.092			**Anderson-Darling GOF Test**					
49	5% A-D Critical Value			0.773			Data Not Gamma Distributed at 5% Significance Level					

50					K-S Test Statistic	0.118	**Kolmogorov-Smirnov GOF**					
51					5% K-S Critical Value	0.0892	Data Not Gamma Distributed at 5% Significance Level					
52	**Data Not Gamma Distributed at 5% Significance Level**											
53												
54	**Gamma Statistics on Detected Data Only**											
55					k hat (MLE)	1.381				k star (bias corrected MLE)		1.349
56					Theta hat (MLE)	0.00203				Theta star (bias corrected MLE)		0.00208
57					nu hat (MLE)	298.3				nu star (bias corrected)		291.3
58					MLE Mean (bias corrected)	0.00281						
59					MLE Sd (bias corrected)	0.00242				95% Percentile of Chisquare (2kstar)		7.283
60												
61	**Gamma ROS Statistics using Imputed Non-Detects**											
62	GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs											
63	GROS may not be used when kstar of detects is small such as <1.0, especially when the sample size is small (e.g., <15-20)											
64	For such situations, GROS method may yield incorrect values of UCLs and BTVs											
65	This is especially true when the sample size is small.											
66	For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates											
67					Minimum	2.0000E-4				Mean		0.00822
68					Maximum	0.017				Median		0.01
69					SD	0.00339				CV		0.412
70					k hat (MLE)	2.442				k star (bias corrected MLE)		2.426
71					Theta hat (MLE)	0.00337				Theta star (bias corrected MLE)		0.00339
72					nu hat (MLE)	2129				nu star (bias corrected)		2116
73					MLE Mean (bias corrected)	0.00822				MLE Sd (bias corrected)		0.00528
74					95% Percentile of Chisquare (2kstar)	10.84				90% Percentile		0.0153
75					95% Percentile	0.0184				99% Percentile		0.0251
76	**The following statistics are computed using Gamma ROS Statistics on Imputed Data**											
77	**Upper Limits using Wilson Hilferty (WH) and Hawkins Wixley (HW) Methods**											
78						WH	HW				WH	HW
79					95% Approx. Gamma UTL with 95% Coverage	0.0194	0.021			95% Approx. Gamma UPL	0.0183	0.0197
80					95% Gamma USL	0.0423	0.0514					
81												
82	**Estimates of Gamma Parameters using KM Estimates**											
83					Mean (KM)	0.00119				SD (KM)		0.00181
84					Variance (KM)	3.2885E-6				SE of Mean (KM)		1.0136E-4
85					k hat (KM)	0.434				k star (KM)		0.432
86					nu hat (KM)	378.4				nu star (KM)		377.1
87					theta hat (KM)	0.00275				theta star (KM)		0.00276
88					80% gamma percentile (KM)	0.00194				90% gamma percentile (KM)		0.00333
89					95% gamma percentile (KM)	0.00483				99% gamma percentile (KM)		0.00858
90												
91	**The following statistics are computed using gamma distribution and KM estimates**											
92	**Upper Limits using Wilson Hilferty (WH) and Hawkins Wixley (HW) Methods**											
93						WH	HW				WH	HW
94					95% Approx. Gamma UTL with 95% Coverage	0.00397	0.00401			95% Approx. Gamma UPL	0.00363	0.00363
95					95% KM Gamma Percentile	0.00362	0.00361			95% Gamma USL	0.0125	0.0147
96												
97	**Lognormal GOF Test on Detected Observations Only**											
98					Shapiro Wilk Approximate Test Statistic	0.978	**Shapiro Wilk GOF Test**					
99					5% Shapiro Wilk P Value	0.381	Detected Data appear Lognormal at 5% Significance Level					

100	Lilliefors Test Statistic					0.0795	**Lilliefors GOF Test**					
101	5% Lilliefors Critical Value					0.0855	Detected Data appear Lognormal at 5% Significance Level					
102	**Detected Data appear Lognormal at 5% Significance Level**											
103												
104	**Background Lognormal ROS Statistics Assuming Lognormal Distribution Using Imputed Non-Detects**											
105	Mean in Original Scale					0.00117	Mean in Log Scale					-7.555
106	SD in Original Scale					0.00178	SD in Log Scale					1.302
107	95% UTL95% Coverage					0.00525	95% BCA UTL95% Coverage					0.0054
108	95% Bootstrap (%) UTL95% Coverage					0.0054	95% UPL (t)					0.00449
109	90% Percentile (z)					0.00278	95% Percentile (z)					0.00446
110	99% Percentile (z)					0.0108	95% USL					0.0612
111												
112	**Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution**											
113	KM Mean of Logged Data					-7.486	95% KM UTL (Lognormal)95% Coverage					0.00437
114	KM SD of Logged Data					1.159	95% KM UPL (Lognormal)					0.0038
115	95% KM Percentile Lognormal (z)					0.00378	95% KM USL (Lognormal)					0.039
116												
117	**Background DL/2 Statistics Assuming Lognormal Distribution**											
118	Mean in Original Scale					0.00198	Mean in Log Scale					-6.657
119	SD in Original Scale					0.00169	SD in Log Scale					1.075
120	95% UTL95% Coverage					0.00863	95% UPL (t)					0.00758
121	90% Percentile (z)					0.0051	95% Percentile (z)					0.00754
122	99% Percentile (z)					0.0157	95% USL					0.0657
123	**DL/2 is not a Recommended Method. DL/2 provided for comparisons and historical reasons.**											
124												
125	**Nonparametric Distribution Free Background Statistics**											
126	**Data appear to follow a Discernible Distribution at 5% Significance Level**											
127												
128	**Nonparametric Upper Limits for BTVs(no distinction made between detects and nondetects)**											
129	Order of Statistic, r					421	95% UTL with95% Coverage					0.0054
130	Approx, f used to compute achieved CC					1.385	Approximate Actual Confidence Coefficient achieved by UTL					0.922
131	Approximate Sample Size needed to achieve specified CC					458	95% UPL					0.005
132	95% USL					0.017	95% KM Chebyshev UPL					0.00911
133												
134	Note: The use of USL tends to yield a conservative estimate of BTV, especially when the sample size starts exceeding 20.											
135	Therefore, one may use USL to estimate a BTV only when the data set represents a background data set free of outliers											
136	and consists of observations collected from clean unimpacted locations.											
137	The use of USL tends to provide a balance between false positives and false negatives provided the data											
138	represents a background data set and when many onsite observations need to be compared with the BTV.											
139												

Alternate Source Demonstration

Plant Bowen
Landfill Cells 1 & 2, 3 & 4, and 9 &10
Solid Waste Disposal Facility
Permit No. 008-018D (LI)

Prepared for:

Georgia Power

Date: April 19, 2018

Prepared by:
Wood Environment & Infrastructure Solutions, Inc.
1075 Big Shanty Road NW, Suite 100, Kennesaw, Georgia 30144

Project No.: 6122-16-0287

Environment & Infrastructure Solutions
1075 Big Shanty Road, Suite 100
Kennesaw, Georgia 30144
USA

T: +11 770-421-3400

www.woodplc.com

April 19, 2018

Ms. Alexandria Wild, P.E.
Georgia Power Company – Environmental Affairs
241 Ralph McGill Blvd
Atlanta, Georgia 30308

RE: Alternate Source Demonstration
Plant Bowen - Solid Waste Disposal Facility Landfill Cells 1 & 2, 3 & 4, and 9 & 10
Amec Foster Wheeler Project 6122-09-0287

Dear Ms. Wild:

Wood Environment & Infrastructure Solutions, Inc. is pleased to submit the attached Alternate Source Demonstration for the Plant Bowen - Solid Waste Disposal Facility Landfill Cells 1 & 2, 3 & 4, and 9 & 10 in Cartersville, Georgia. The enclosed report is for your submittal to the Georgia Environmental Protection Division. This report was prepared in accordance with 391-3-4.14.23c of the Georgia Solid Waste Management Rules

We appreciate the opportunity to provide environmental consulting services to the Georgia Power Company and Southern Company Services. Please feel free to contact us at (770) 421-3400 if you have questions or require additional information.

Sincerely,

Wood Environment & Infrastructure Solutions, Inc.

Rhonda N. Quinn, P.G.
Senior Geologist

Gregory J. Wrenn, P.E.
Associate Engineer/Project Manager

Enclosure: Alternate Source Demonstration for the Plant Bowen - Solid Waste Disposal Facility Landfill Cells 1 & 2, 3 & 4, and 9 & 10 (2 Paper & 2 PDF copies)

cc: Mr. Joju Abraham, SCS (via Share Point)

CERTIFICATION STATEMENT

This *Alternate Source Demonstration, Georgia Power Company - Plant Bowen Landfill Cells 1 & 2, 3 & 4, and 9 & 10* has been prepared in compliance with applicable Georgia Solid Waste Management Rule 391-3-4.14.23c by a qualified groundwater scientist or engineer with Wood Environment & Infrastructure Solutions, Inc. References to the appropriate Georgia Solid Waste Management 391-3-4 Rules are incorporated throughout this document.

Gregory J. Wrenn, P.E.
Registered Professional Engineer
Professional Engineer No. 025565

April 18 2018
Date

PROFESSIONAL GROUND WATER SCIENTIST CERTIFICATION

I certify that I am a qualified ground-water scientist who has received a baccalaureate or post-graduate degree in the natural sciences or engineering, and have sufficient training and experience in ground-water hydrology and related fields, as demonstrated by state registration and completion of accredited university courses, that enable me to make sound professional judgments regarding ground-water monitoring and contaminant fate and transport. I further certify that this report was prepared by myself or by a subordinate working under my direction.

Rhonda N. Quinn, P.G.
Registered Professional Geologist
Georgia Registration #1031

April 19, 2018
Date

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1.0 INTRODUCTION

This Alternate Source Demonstration (ASD) has been prepared in accordance with 391-3-4.14.23(c) of the Georgia Solid Waste Management Rules to support the position that statistically significant increases (SSIs) in constituent concentrations over background as presented in the 2017 Second Semi-Annual Groundwater Monitoring Report, Georgia Power Company Plant Bowen Cells 1 & 2, 3 & 4, and 9 & 10, dated March 2, 2018.

This document satisfies the requirements of 391-3-4.14.23(c) which allows an owner or operator to demonstrate that a source other than the Landfill Cell has caused an SSI and that the apparent SSI was the result of an alternate source or resulted from errors in "sampling, analysis, statistical evaluation, or natural variation in groundwater quality".

This report demonstrates that the reported SSIs do not indicate a release from the Landfill Cells, but rather reflect natural variation in groundwater quality.

1.1 Background

The Georgia Power Company (GPC) Plant Bowen solid waste disposal facility is located in south Bartow County off State Highway 113, approximately 7 miles west-southwest of Cartersville and 20 miles southeast of Rome. The disposal facility is approximately 300 acres located on a previously undeveloped, contiguous portion of the plant property. The disposal facility (**Figure 1**: **Monitoring Well Network September 2017)** receives coal combustion by-products, coal ash and gypsum, from coal-burning and Flue Gas Desulfurization processes at the site.

The Plant Bowen solid waste disposal facility is operated in accordance with Georgia Environmental Protection Division (EPD) Permit No. 008-018D (LI)**.** Groundwater monitoring is conducted as per the permit requirements specified in the Design and Operation (D&O) Plan. This includes semi-annual groundwater sampling and continuous groundwater level measurements at the site. In addition, background sampling for the U.S. Environmental Protection Agency's (USEPA) Coal Combustion Residuals (CCR) Rule has been conducted from February 2016 through June 2017.

In September-October 2017, the second semi-annual groundwater monitoring event for 2017 was conducted in accordance with the D&O Plan. Barium, zinc, pH, calcium, chloride, sulfate, Total Dissolved Solids (TDS) were detected a concentrations outside of their statistical prediction limits in some wells. This report demonstrates that these SSIs do not indicate a release from the lined Landfill Cells, but rather the SSIs reflect natural variation in groundwater quality.

2.0 SUMMARY OF STATISTICAL EXCEEDANCES

As presented in the 2017 Second Semi-Annual Groundwater Monitoring Report, Georgia Power Company Plant Bowen Cells 1 & 2, 3 & 4, and 9 & 10 (March 2018), there were two metals and five CCR Appendix III parameters, as listed below, exhibiting SSIs outside their statistical prediction limits.

- GWC-13RZ Barium and Chloride
- GWC-47 Zinc
- GWC-11R pH
- GWC-15Z pH
- GWC-8RR pH
- GWC-22R pH
- GWC-44 pH
- GWC-45 pH
- GWC-48 pH
- GWC-49Z pH
- GWC-16R Calcium
- GWC-17R Calcium
- GWC-21R Calcium
- GWC-23R Calcium
- GWC-13 Chloride
- GWA-40 Chloride and Sulfate
- GWA-4RZ Sulfate
- GWC-49R Sulfate
- GWA-53 Total Dissolved Solids
- GWA-39Z Total Dissolved Solids

In addition, antimony was detected in bedrock monitoring well GWC-16R downgradient Cells 3 & 4 at a concentration of 0.0078 (seasonality adjusted concentration of 0.01813 mg/L), which was above the seasonality-adjusted interwell prediction limit of 0.01545 mg/L. The statistical exceedance of antimony in GWC-16R has been determined to be the result of the natural variability of groundwater quality, as shown in the Alternate Source Demonstration, dated August 28, 2017. The SSI for antimony in GWC-16R is not addressed in this report.

Additional details regarding the statistical exceedances are summarized on **Table 1: Summary of Statistical Exceedances.**

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3.0 ALTERNATE SOURCE DEMONSTRATION

Georgia Solid Waste Management Rule 391-3-4.14.23(c) allows the owner to demonstrate that a source other than the Landfill Cells caused the SSI or that the apparent statistical exceedance resulted from error in sampling, analysis, statistical evaluation, or from natural variation in groundwater quality. Pursuant to 391-3-4.14.23(c), the following is provided as a demonstration that the listed SSIs are due to natural variation in groundwater chemistry and is not a release from the disposal units.

3.1 General Evaluation of the Statistical Exceedances

Barium and zinc in two wells exceeded their statistical prediction limits (excluding antimony in well GWC-16R). Five of the seven Appendix III parameters (calcium, chloride, pH, sulfate, and TDS) were sporadically detected in several wells at concentrations above their statistical prediction limits. Boron and fluoride (Appendix III) concentrations did not exceed statistical prediction limits. **Tables 2, 3, and 4: Evaluation of Statistical Exceedances for Landfill Cells 1 & 2, 3 & 4, and 9 & 10** show which wells and parameters exhibit a statistical exceedance on a grid format. The purpose of the tables is to present a comprehensive snapshot of all of the data for each subject Landfill Cell. The table for each Landfill Cell shows a red square where there is a statistical exceedance; and as indicated on **Tables 2, 3, and 4** the red squares are scattered across each of the Landfill Cells. The tables highlight the following line of information that demonstrates that the SSIs are the result of natural variability in groundwater quality and not a release from the Landfill Cells.

If a release were present, the data would exhibit multiple exceedances for more than one well within each Landfill Cell. Each downgradient compliance well exhibiting an SSI only had an exceedance for a single parameter, except for downgradient well GWC-13RZ and upgradient background well GWA-40, which had SSIs for two parameters. Review of the SSIs presented on the tables does not show a grouping of exceedances, as would be expected from a release, they show a scattered distribution, which is not an indication of a release from the Landfill Cells.

In March 2018, as part of the 2018 1st semi-annual sampling event, additional parameters, namely, magnesium, sodium, potassium, and alkalinity were analyzed from the Landfill Cells upgradient wells and from the downgradient wells with statistical exceedances. The geochemical data was used to evaluate if the upgradient (background) and downgradient groundwater had consistent chemical characteristics and if the background wells were geochemically representative of downgradient wells. The data is summarized on **Table 5: Summary of Geochemical Data.** The table is color-coded to show similarities and differences. The colors depict a ranking of the concentrations from highest to lowest along a column for a single parameter. The highest concentrations are shown in dark red and the lowest concentration are shown in dark green with the concentrations between the highest and lowest shown in yellow. Lighter shadings of red, green, and yellow indicate the next highest or next lowest concentration. **Table 5** highlights the following.

- The majority of wells indicate a calcium-bicarbonate type groundwater across the three Landfill Cells; a few wells show sodium-bicarbonate or magnesium-bicarbonate type water; two wells show calcium-sulfate type groundwater and one well shows sodium-chloride type groundwater.

- There are differences in groundwater composition between upgradient and downgradient groundwater, particularly at Cells 3 & 4 and Cells 9 & 10, due to variable lithology and groundwater flow.

As indicated on **Table 5**, there are some geochemical differences between the upgradient and downgradient wells that contributes to the natural variation in the groundwater quality. The current statistical methods do not take geochemical differences into account and may not explain the natural variability for applicable parameters. As additional data are collected semi-annually, the working assumptions and statistical approach currently used may periodically be re-evaluated, and the statistical methods adjusted as necessary.

3.2 Barium at GWC-13RZ

The SSI of barium at GWC-13RZ is likely the result of natural variation in groundwater quality and not the result of a release from the disposal unit. The following information supports this conclusion.

- Barium concentrations in well GWC-13RZ are similar to barium concentrations at this location before placement of waste in Cells 1 & 2.

Current barium concentration (0.082 mg/L) in GWC-13RZ is within the range of barium concentrations (0.0055 to 0.45 mg/L) detected prior to waste placement, as shown in the table below. Bedrock well GWC-13RZ replaced bedrock well GWC-13R, due to elevated pH from potential leakage of grout that was used to seal the borehole. The new bedrock well was installed about five feet deeper than GWC-13R and the GWC-13RZ screened interval overlapped with the GWC-13R screened interval. Barium concentrations in both old well GWC-13R and new well GWC-13R are within the range of barium levels measured prior to waste placement in Cells 1 & 2.

- Barium concentrations in well GWC-13RZ are within the range of background concentrations at other Landfill Cells, and are similar to barium in other Cells 1 & 2 wells.

Barium concentrations in well GWC-13RZ are comparable to barium levels in the upgradient wells at other Landfill Cells onsite, as show in the table below.

Barium Concentrations in Well GWC-13RZ	**Barium Concentrations Prior to Waste Placement in Cells 1 & 2 (November 2008)**	**Barium Concentrations in Sitewide Background Wells 2007 to October 2017**	**Barium Concentrations in Cells 1 & 2 Background and Downgradient Wells 2007 to October 2017**
GWC-13RZ October 2017: 0.0699 mg/L December 2017: 0.082 mg/L	GWC-13R prior to waste placement (August 2007 to May 2008): 0.0095 to 0.028 mg/L GWC-13R August 2007 to June 2016: 0.0095 to 0.19 mg/L	August 2007 to October 2017: 0.003 to 0.15 mg/L	August 2007 to October 2017: 0.0033 to 0.45 mg/L
GWC-13RZ: February to December 2017: 0.0561 to 0.0932 mg/L	Background wells prior to waste placement (August 2007 to May 2008): 0.0066 to 0.13 mg/L		
	Downgradient wells prior to waste placement (August 2007 to May 2008): 0.0055 to 0.45 mg/L		
	Cells 1 & 2 wells, before waste placement in November 2008: 0.0055 to 0.45 mg/L		

- Absence of other metals in GWC-13RZ having a similar concentration trend as barium.

The target metals (per site D&O Plan) in well GWC-13RZ occur in low concentrations at the site with only barium showing consistently detectable concentrations, but at levels significantly below the Maximum Contaminant Level (MCL) of 2 mg/L. Well GWC-13RZ has been analyzed 8 times for barium and 7 times for antimony, arsenic, beryllium, cadmium, chromium, cobalt, lead, mercury, selenium, and thallium. Of these metals only barium had positive detections above the laboratory practical quantitation limit (PQL). Other constituents were below the PQL or present in low concentrations. The metals (antimony, arsenic, and selenium) with more than two detections out of the seven results are graphed on **Figure 2: GWC-13RZ Metals Data**. If there had been a groundwater impact from the waste placed in Cells 1 & 2, barium and other metals would show a similar detection pattern and increasing concentration trend. A comparison of the patterns of concentration trends for the three other metals in well GWC-13RZ do not show a correlation between barium and the other three metals, and there are no increasing trends.

- Barium occurs naturally in minerals beneath the site.

Barium occurs naturally in the local geologic formations. The Cartersville mining district in Bartow County contains residual deposits of arsenic-bearing minerals, barite, manganese, and iron oxide minerals along with metal sulfides (Geology and Mineral Deposits of the Cartersville District Georgia, U.S. Geological Survey Professional Paper 224, Kesler, T.L. 1950). Arsenic, barium, copper, lead, nickel, and zinc are found in varying amounts throughout the residual clays of the region due to the weathering of sulfides (Kesler, 1950). The overlying residual clays of the regional carbonate rocks contain deposits of coarsely crystalline barite (Kesler, 1950). The barite (barium sulfate) encloses sulfides such as enargite, tennantite, chalcocite, chalcopyrite, galena, cerussite, and sphalerite. Enargite often contains traces of antimony, and tennantite (copper-arsenic sulfide) forms a series with the much more common mineral tetrahedrite, which is a copper-antimony sulfide. Tennantite and tetrahedrite share the same crystal structure but differ in the percentage of arsenic versus antimony (Anthony et al., 1990). Limestones and dolomites can have barium concentrations of 50 to 200 parts per million (Trace Elements in Soils and Plants, 3rd Edition, Table 119, Alina Kabata-Pendias, CRC Press, 2001), which could result in naturally occurring concentrations in groundwater at levels similar to those observed at the site.

3.3 Zinc at GWC-47

The SSI of zinc at GWC-47 is likely the result of natural variation in groundwater quality and not the result of a release from the disposal unit. The following information supports this conclusion.

- Zinc concentrations in overburden well GWC-47 are similar to zinc concentrations before placement of waste in Cells 9 & 10.

The initial waste placement began in November 2015 for Cells 9 & 10. Current zinc concentration (0.0315 mg/L) in well GWC-47 is within the range of zinc concentrations (0.003 to 0.31 mg/L) detected in overburden well GWC-45 prior to waste placement, as shown in the table below.

- Zinc concentrations in well GWC-47 are within the range of background concentrations at other Landfill Cells, and are similar to zinc in other Cells 9 & 10 wells.

Zinc concentrations in well GWC-47 are comparable to zinc levels in the upgradient wells at other Landfill Cells onsite, as show in the table below.

Zinc Concentrations in Well GWC-47	**Zinc Concentrations Prior to Waste Placement in Cells 9 & 10 (November 2015)**	**Zinc Concentrations in Sitewide Background Wells 2016 to October 2017**	**Zinc Concentrations in Cells 9 & 10 Background and Downgradient Wells 2016 to October 2017**
GWC-47 October 2017: 0.0196 mg/L December 2017: 0.0315 mg/L	GWC-45 prior to waste placement (May 2007 to May 2015): 0.003 to 0.31 mg/L GWC-45R (May 2007 to May 2015): 0.0027 to 0.017 mg/L	March 2016 to October 2017: 0.0012 to 0.406 mg/L Cells 9 & 10 Background March 2016 to October 2017 0.0012 to 0.0162 mg/L	March 2016 to October 2017 0.0012 to 0.0315 mg/L
GWC-47: 2016 to December 2017: 0.0156 to 0.0315 mg/L			

- Absence of other metals in GWC-47 having a similar trend as zinc.

The target metals (per site D&O Plan) in well GWC-47 occur in low concentrations at the site with only barium and zinc showing consistently detectable concentrations, but at levels significantly below the primary MCL of 2 mg/L for barium and secondary MCL of 5 mg/L for zinc. Well GWC-47 has been analyzed nine times for zinc and nine times for antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, lead, mercury, selenium, and thallium. Copper, nickel, silver, and vanadium have been analyzed eight times. Of these metals only barium and zinc had positive detections above the laboratory PQL. Other constituents were below the PQL or present in low concentrations. The metals (barium, chromium, and zinc) with more than three detections out of the eight to nine results were graphed on **Figure 3: GWC-47 Metals Data**. If there had been a groundwater impact from the waste placed in Cells 9 & 10, zinc and other metals would show a similar pattern and an increasing concentration trend. A comparison of the patterns of concentration trends in well GWC-47 do not show a correlation between zinc and the other two metals and most of the analyzed metals have less than three detections out of eight to nine analyses. There is not an indication of increasing concentration trends in the metals detected in GWC-47. Also, the zinc detection pattern in background overburden well GWA-42 is similar to downgradient overburden well GWC-47 as shown on **Figure 3**.

- Zinc is present in naturally occurring minerals beneath the site.

The Cartersville mining district in Bartow County contains residual deposits of arsenic-bearing minerals, barite, manganese, and iron oxide minerals along with metal sulfides (Geology and Mineral Deposits of the Cartersville District Georgia, U.S. Geological Survey Professional Paper 224, Kesler, T.L. 1950). Arsenic, barium, copper, lead, nickel, and zinc are found in varying amounts throughout the residual clays of the region due to the weathering of sulfides (Kesler, 1950). Zinc chiefly occurs as a sulfide mineral. Limestones and dolomites can have zinc concentrations of 10 to 25 parts per million (Trace Elements in Soils and Plants, 3rd Edition, Table 119, Alina Kabata-Pendias, CRC Press, 2001), which could result in naturally occurring concentrations in groundwater at levels similar to those observed at the site.

3.4 pH at GWC-8RR, GWC-11R, GWC-15Z, GWC-22R, GWC-44, GWC-45, GWC-48, and GWC-49Z

The statistical exceedances of pH values in wells GWC-8RR, GWC-11R, GWC-15Z, GWC-22R, GWC-44, GWC-45, GWC-48, and GWC-49Z are likely the result of natural variation in groundwater quality and not the result of a release from the disposal units. The following information supporting this conclusion include.

- Landfill Cells 1 & 2, Cells 3 & 4, and Cells 9 & 10 were constructed with liner systems to prevent waste materials from leaching into underlying groundwater.

- The wells with pH statistical excursions are within the range of pH values (4.33 to 10.61 standard units (su)) for all wells during the background monitoring events and are similar to pH ranges prior to waste placement in the cells (see table below).

- At Cells 1 & 2, the pH values for GWC-15Z, GWC-8RR, and GWC-11R are within the range of 4.92 to 10.61 su noted for all downgradient wells. **Figure 4: Trends in pH for GWC-11R, GWC-8RR and GWC-15Z** shows that wells GWC-15Z, GWC-8RR, and GWC-11R have a narrow range of fluctuation in pH values which reflect natural variation in groundwater pH due to variable recharge events.

- At Cells 3 & 4, the pH values in the downgradient wells range from 6.0 to 7.87 su, while upgradient wells range from 4.94 to 8.34 su. GWC-22R pH values are within these ranges.

- United States Geological Survey data from water supply wells in the Cartersville, Georgia area of the Valley and Ridge Providence have pH values ranging from 6.2 to 8.4 su. The pH values in the Cells 1 & 2 and Cells 3 & 4 wells are similar to the off-site water-supply wells.

- At Cells 9 & 10, the pH values in GWC-44, GWC-45, GWC-48, and GWC-49Z are slightly less than the lower prediction limit based on comparison to upgradient concentrations. However, the values are similar to those present prior to waste placement and similar to the range detected across the site in February 2016. Lower pH can be attributed to rainfall influence on the downgradient groundwater. This is reflected in the geochemical differences between the upgradient and downgradient groundwater at Cells 9 & 10 (**Table 5**). Downgradient wells GWC-44, GWC-45, GWC-48, and GWC-49Z contain very low alkalinity, low TDS, low calcium, and low pH that reflect recent recharge water affecting the groundwater composition. As the residence time of groundwater increases at these locations, groundwater composition is expected to evolve into predominantly calcium-bicarbonate type following water-rock interactions in the carbonate bedrock.

pH SSIs	Predictive Limits	pH Range Prior to Waste Placement	pH Range February 2016 to March 2018 (all wells)	pH Regional Reference Range
Cells 1 & 2 GWC-11R (7.74 su) GWC-15Z (7.74 su) GWC-8RR (7.86 su)	7.65 to 5.23 su	>8.5 to 4.6 su (August 2007 to December 2008)	4.88 to 10.61 su	6.2 to 8.4 su
Cells 3 & 4 GWC-22R (7.39 su)	7.87 to 7.52 su	8.21 to 5.34 su (Aug 2011)	4.94 to 8.34 su	

pH SSIs	Predictive Limits	pH Range Prior to Waste Placement	pH Range February 2016 to March 2018 (all wells)	pH Regional Reference Range
Cells 9 & 10 GWC-44 (4.51 su) GWC-45 (5.08 su) GWC-48 (5.07 su) GWC-49Z (5.51 su)	7.89 to 5.77 su	>8.5 to 4.52 su (Aug 2011)	4.33 to 8.08 su	6.2 to 8.4 su

3.5 Calcium at GWC-16R, GWC-17R, GWC-21R, and GWC-23R

The statistical exceedances of calcium concentrations in wells GWC-16R, GWC-17R, GWC-21R, and GWC-23R are likely the result of natural variation in groundwater quality and not the result of a release from the disposal unit. The following information supporting this conclusion include.

Calcium concentrations in wells GWC-16R, GWC-17R, GWC-21R, and GWC-23R ranged from 58.9 to 67.2 mg/L. These concentrations exceed the interwell prediction limit of 48.7 mg/L for Cells 3 & 4. However, these concentrations are due to differences in aquifer lithologies affecting the groundwater chemistry as shown by site-specific data. Additionally, the calcium concentrations are comparable to regional concentrations of calcium in wells within the Knox Dolomite and Newala Limestone.

Site-specific major ion data collected in March 2018 indicate that aquifer lithologies affect the groundwater geochemistry. The March 2018 geochemical data on **Table 5** shows the upgradient wells have a different geochemical profile than the downgradient wells. Wells GWC-16R, GWC-17R, GWC-21R, and GWC-23R are screened in dolomite, a rock with a high magnesium content. The geochemical data **(Table 5)** indicates the groundwater in these four wells is a combination of calcium bicarbonate and magnesium bicarbonate, which confirms the downgradient groundwater chemistry is characteristic of a dolomite aquifer. The groundwater in the upgradient wells is a combination of calcium bicarbonate and sodium bicarbonate. The upgradient wells are screened in a variety of lithologies ranging from clayey sands, silty sandy clays, lean clay, and dolomite with chert. Groundwater flow through variable lithologies facilitate natural variation in groundwater quality at the site. USGS data from water-supply wells in the Cartersville area of the Valley and Ridge have calcium concentrations up to 58 mg/L (**Appendix A: USGS Regional Data**).

3.6 Chloride at GWC-13, GWC-13RZ, and GWA-40

Reported chloride concentrations in wells GWC-13, GWC-13RZ, and GWA-40 were 6.2 mg/L, 8.9 mg/L, and 2.4 mg/L, respectively. These concentrations exceeded the prediction limits as shown in **Table 1**. The statistical exceedances of chloride at wells GWC-13, GWC-13RZ, and GWA-40 are likely the result of natural variation in groundwater quality and not the result of a release from the Landfill Cells. The following information supporting this conclusion include.

- Well GWA-40 is an upgradient well as demonstrated by groundwater flow direction based on measured water level elevations. The groundwater flow directions have been consistent with historical data from the site. Variations in chloride concentrations reflect natural variations in groundwater quality at the site. Statistical exceedances noted for this upgradient well cannot be attributed to the lined Landfill Cell.

- Chloride exceedances in GWC-13 and GWC-13RZ appear to be affected by recharge effects due its location near a drainage ditch that includes surface runoff from the landfill perimeter roads and adjacent slopes. The chloride concentrations in these wells are relatively low, and comparable to regional concentrations in water supply wells (average 4.5 mg/L in wells screened in Knox Dolomite, USGS Water Supply Paper 1619-FF), and these wells do not show other indicator parameters such as boron and fluoride. For these reasons, chloride concentrations in wells GWC-13 and GWC-13RZ are attributed to natural variations in groundwater quality.

3.7 Sulfate at GWA-4RZ, GWA-40, and GWC-49R

The statistical exceedances of sulfate at wells GWA-4RZ, GWA-40, and GWC-49R are likely the result of natural variation in groundwater quality and not the result of a release from the disposal units. The following information supporting this conclusion include.

- The sulfate statistical exceedances were reported in upgradient wells GWA-4RZ and GWA-40 at 26 mg/L and 7.4 mg/L, respectively. Wells GWA-4RZ and GWA-40 are upgradient wells as demonstrated by groundwater flow direction based on measured water level elevations. The groundwater flow directions have been consistent with historical data from the site. Variations in sulfate concentrations reflect natural variations in groundwater quality at the site. Statistical exceedances noted for these upgradient wells cannot be attributed to the lined landfill cells.

- Sulfate concentrations in Cells 1 & 2 upgradient wells have ranged from 0.5 to 105.552 mg/L, and sulfate concentrations in Cells 9 & 10 upgradient wells have ranged from 0.47 to 26 mg/L, which are within the range sulfate concentrations in bedrock well GWC-49R (3.8 mg/L) downgradient of Cells 9 & 10.

- Intrawell analysis calls for a 1-of-3 resampling strategy to be used when there is a statistical exceedance to verify the initial exceedance. The March 2018 sulfate result in GWC-49R was 3.1 mg/L, which is less than the prediction limit of 3.61 mg/L, thus the statistical exceedance was not verified.

3.8 Total Dissolved Solids at GWA-53 and GWA-39Z

Total Dissolved Solids (TDS) concentrations of 154 mg/L and 107 mg/L, respectively, in wells GWA-53 and GWA-39Z slightly exceed the intrawell prediction limits of 152.9 mg/L and 105.2 mg/L, respectively. Wells GWA-53 and GWA-39Z are upgradient wells as demonstrated by groundwater flow direction based on measured water level elevations. The groundwater flow directions have been consistent with historical data from the site. Variations in TDS concentrations reflect natural variations in groundwater quality at the site. Statistical exceedances noted for these upgradient wells cannot be attributed to the lined Landfill Cells.

4.0 CONCLUSIONS AND RECOMMENDATIONS

This ASD has been prepared in response to apparent SSIs presented in the 2017 Second Semi-Annual Groundwater Monitoring Report, Georgia Power Company Plant Bowen Cells 1 & 2, 3 & 4, and 9 & 10, dated March 2, 2018. Alternate sources were identified for the statistical exceedances for each of the following wells and constituents.

- GWC-13RZ Barium and Chloride
- GWC-47 Zinc
- GWC-11R pH
- GWC-15Z pH
- GWC-8RR pH
- GWC-22R pH
- GWC-44 pH
- GWC-45 pH
- GWC-48 pH
- GWC-49Z pH
- GWC-16R Calcium
- GWC-17R Calcium
- GWC-21R Calcium
- GWC-23R Calcium
- GWC-13 Chloride
- GWA-40 Chloride and Sulfate
- GWA-4RZ Sulfate
- GWC-49R Sulfate
- GWA-53 Total Dissolved Solids
- GWA-39Z Total Dissolved Solids

An ASD for well GWC-16R antimony statistical exceedance was previously submitted in August 28, 2017.

As outlined in Section 3, the statistical exceedances are due to variability in the groundwater quality and are not an indication of a release from the lined Landfill Cells. All locations have met the requirements for a demonstration listed in 391-3-4.14.23(c). Therefore, all locations should remain in CCR detection monitoring at this time. Detection monitoring results and D&O Plan target metals results should continue to be presented in the subsequent semi-annual groundwater monitoring reports.

TABLES

TABLE 1
SUMMARY OF STATISTICAL EXCEEDANCES - Plant Bowen Landfill Cells 1 & 2, 3 & 4, and 9 & 10

Parameter	Landfill Cell	Well	Initial Result	Resampled Result	Prediction Limit	Statistical Method
Barium	Cells 1 & 2	GWC-13RZ	0.0699 mg/L	0.082 mg/L	0.052 mg/L	Interwell
Zinc	Cells 9 & 10	GWC-47	0.0196 mg/L	0.0315 mg/L	0.0162 mg/L	Interwell
pH	Cells 1 & 2	GWC-11R	7.74 su	Not resampled	7.65-5.23 su	Interwell
pH	Cells 1 & 2	GWC-15Z	7.74 su	Not resampled	7.65-5.23 su	Interwell
pH	Cells 1 & 2	GWC-8RR	7.84 su	7.86 su	7.65-5.23 su	Interwell
pH	Cells 3 & 4	GWC-22R	7.46 su	7.39 su	7.87-7.52 su	Intrawell
pH	Cells 9 & 10	GWC-44	4.51 su	Not resampled	7.89-5.77 su	Interwell
pH	Cells 9 & 10	GWC-45	4.92 su	5.08 su	7.89-5.77 su	Interwell
pH	Cells 9 & 10	GWC-48	5.06 su	5.07 su	7.89-5.77 su	Interwell
pH	Cells 9 & 10	GWC-49Z	5.51 su	5.51 su	7.89-5.77 su	Interwell
Calcium	Cells 3 & 4	GWC-16R	63.8 mg/L	Not resampled	48.7 mg/L	Interwell
Calcium	Cells 3 & 4	GWC-17R	67.2 mg/L	Not resampled	48.7 mg/L	Interwell
Calcium	Cells 3 & 4	GWC-21R	58.9 mg/L	Not resampled	48.7 mg/L	Interwell
Calcium	Cells 3 & 4	GWC-23R	61.1 mg/L	Not resampled	48.7 mg/L	Interwell
Chloride	Cells 1 & 2	GWC-13	6.2 mg/L	Not resampled	2.86 mg/L	Interwell
Chloride	Cells 1 & 2	GWC-13RZ	8.9 mg/L	Not resampled	2.86 mg/L	Interwell
Chloride	Cells 9 & 10	GWA-40	2.4 mg/L	3.9 mg/L	1.56 mg/L	Intrawell
Sulfate	Cells 1 & 2	GWA-4RZ	25 mg/L	26 mg/L	22.61 mg/L	Intrawell
Sulfate	Cells 9 & 10	GWA-40	4.2 mg/L	7.4 mg/L	1.66 mg/L	Intrawell
Sulfate	Cells 9 & 10	GWC-49R	4.2 mg/L	3.8 mg/L	3.61 mg/L	Intrawell
TDS	Cells 3 & 4	GWA-53	154 mg/L	Not resampled	152.9 mg/L	Intrawell
TDS	Cells 9 & 10	GWA-39Z	107 mg/L	Not resampled	105.2 mg/L	Intrawell

Notes:

TDS = Total Dissolved Solids

su = pH standard units

mg/L = milligrams per liter

TABLE 2
EVALUATION OF STATISTICAL EXCEEDANCES FOR LANDFILL CELLS 1 & 2 - Plant Bowen Landfill Cells 1 & 2, 3 & 4, and 9 & 10

Parameters		Barium	Barium	Boron	Boron	Calcium	Calcium	Chloride	Chloride	Fluoride	Fluoride	pH	pH	Sulfate	Sulfate	TDS	TDS
Statistical Method		Interwell Prediction Limits	Interwell Evaluation	Interwell Prediction Limits	Interwell Evaluation	Intrawell Prediction Limits	Intrawell Evaluation	Interwell Prediction Limits	Interwell Evaluation	Interwell Prediction Limits	Interwell Evaluation	Interwell Prediction Limits	Interwell Evaluation	Intrawell Prediction Limits	Intrawell Evaluation	Intrawell Prediction Limits	Intrawell Evaluation
Wells	Date																
GWA-1	10/2/2017	0.052	0	0.05	0	34.85	0	2.864	0	0.3	0	5.23-7.65	0	2.447	0	173.2	0
GWA-2	10/2/2017	0.052	0	0.05	0	55.16	0	2.864	0	0.3	0	5.23-7.65	0	120.7	0	279.9	0
GWA-2R	10/2/2017	0.052	0	0.05	0	43.46	0	2.864	0	0.3	0	5.23-7.65	0	21.29	0	215.4	0
GWA-3	10/4/2017	0.052	0	0.05	0	1.993	0	2.864	0	0.3	0	5.23-7.65	0	1.125	0	65.42	0
GWA-4RZ	10/3/2017	0.052	0	0.05	0	57.12	0	2.864	0	0.3	0	5.23-7.65	0	22.61	1	411.6	0
GWA-4RZ	12/28/2017	0.052	na	0.05	na	57.12	na	2.864	na	0.3	na	5.23-7.65	0	22.61	1	411.6	na
GWA-50	10/2/2017	0.052	0	0.05	0	3.886	0	2.864	0	0.3	0	5.23-7.65	0	1.009	0	55.78	0
GWA-50R	10/2/2017	0.052	0	0.05	0	13.68	0	2.864	0	0.3	0	5.23-7.65	0	1.751	0	111.9	0
GWC-10	10/4/2017	0.052	0	0.05	0	41.08	0	2.864	0	0.3	0	5.23-7.65	0	2.133	0	178.8	0
GWC-10R	10/4/2017	0.052	0	0.05	0	45.67	0	2.864	0	0.3	0	5.23-7.65	0	1.99	0	214	0
GWC-11	10/4/2017	0.052	0	0.05	0	25.65	0	2.864	0	0.3	0	5.23-7.65	0	3.797	0	148.5	0
GWC-11R	10/4/2017	0.052	0	0.05	0	34.53	0	2.864	0	0.3	0	5.23-7.65	1	4.681	0	163.1	0
GWC-12	10/4/2017	0.052	0	0.05	0	9.694	0	2.864	0	0.3	0	5.23-7.65	0	0.762	0	111.6	0
GWC-13	10/9/2017	0.052	0	0.05	0	71.25	0	2.864	1	0.3	0	5.23-7.65	0	185.1	0	406.9	0
GWC-13RZ	10/6/2017	0.052	1	0.05	0	65.46	0	2.864	1	0.3	0	5.23-7.65	0	78.55	0	406.2	0
GWC-13RZ	12/28/2017	0.052	1	0.05	na	65.46	na	2.864	na	0.3	na	5.23-7.65	0	78.55	na	406.2	na
GWC-14Z	10/5/2017	0.052	0	0.05	0	44.46	0	2.864	0	0.3	0	5.23-7.65	0	5.627	0	288.3	0
GWC-15R	10/6/2017	0.052	0	0.05	0	59.29	0	2.864	0	0.3	0	5.23-7.65	0	10.76	0	240.9	0
GWC-15Z	10/6/2017	0.052	0	0.05	0	32.19	0	2.864	0	0.3	0	5.23-7.65	1	13.43	0	228.5	0
GWC-5	10/3/2017	0.052	0	0.05	0	7.563	0	2.864	0	0.3	0	5.23-7.65	0	2.161	0	122.5	0
GWC-6	10/3/2017	0.052	0	0.05	0	15.55	0	2.864	0	0.3	0	5.23-7.65	0	3.92	0	164.8	0
GWC-6RZ	10/3/2017	0.052	0	0.05	0	14.26	0	2.864	0	0.3	0	5.23-7.65	0	3.268	0	163.5	0
GWC-7Z	10/3/2017	0.052	0	0.05	0	26.45	0	2.864	0	0.3	0	5.23-7.65	0	2.004	0	171.9	0
GWC-8RR	10/4/2017	0.052	0	0.05	0	25.14	0	2.864	0	0.3	0	5.23-7.65	1	1.887	0	128.9	0
GWC-8RR	1/9/2018	0.052	na	0.05	na	25.14	na	2.864	na	0.3	0	5.23-7.65	1	1.887	na	166.6	na
GWC-8Z	10/3/2017	0.052	0	0.05	0	26.02	0	2.864	0	0.3	0	5.23-7.65	0	3.903	0	183.9	0
GWC-9	10/3/2017	0.052	0	0.05	0	32.7	0	2.864	0	0.3	0	5.23-7.65	0	4.554	0	183.9	0

Notes:

0	Indicates the parameter concentration did not exceed a statistical prediction limit
1	Indicates the parameter concentration was above the statistical prediction limit
1	Indicates the initial result of the parameter concentration was above the statistical prediction limit and was later re-sampled
na	parameter was not analyzed

TABLE 3
EVALUATION OF STATISTICAL EXCEEDANCES FOR LANDFILL CELLS 3 & 4 - Plant Bowen Landfill Cells 1 & 2, 3 & 4, and 9 & 10

Parameters		Boron	Boron	Calcium	Calcium	Chloride	Chloride	Fluoride	Fluoride	pH		pH		Sulfate	Sulfate	TDS	TDS
Statistical Method		Interwell Prediction Limits	Interwell Evaluation	Interwell Prediction Limits	Interwell Evaluation	Intrawell Prediction Limits	Intrawell Evaluation	Interwell Prediction Limits	Interwell Evaluation	Intrawell Prediction Limits		Intrawell Evaluation		Intrawell Prediction Limits	Intrawell Evaluation	Intrawell Prediction Limits	Intrawell Evaluation
Wells	Date																
GWA-36	9/15/2017	0.05	0	48.7	0	2.716	0	0.284	0	7.321	6.732	0	0	2.563	0	153.9	0
GWA-36R	9/15/2017	0.05	0	48.7	0	3.572	0	0.284	0	7.514	7.243	0	0	6.698	0	236	0
GWA-37	9/15/2017	0.05	0	48.7	0	1.363	0	0.284	0	5.94	5.02	0	0	1.05	0	284.6	0
GWA-38	9/19/2017	0.05	0	48.7	0	2.716	0	0.284	0	5.989	4.759	0	0	2.776	0	113.2	0
GWA-51RZ	9/19/2017	0.05	0	48.7	0	3.948	0	0.284	0	7.678	7.377	0	0	24.14	0	325.2	0
GWA-52	9/15/2017	0.05	0	48.7	0	2.924	0	0.284	0	7.679	7.446	0	0	8.478	0	169.1	0
GWA-53	9/19/2017	0.05	0	48.7	0	2.691	0	0.284	0	7.929	7.539	0	0	2.136	0	152.9	1
GWA-53R	9/19/2017	0.05	0	48.7	0	2.971	0	0.284	0	7.84	7.63	0	0	2.131	0	180.8	0
GWA-54	9/15/2017	0.05	0	48.7	0	1.696	0	0.284	0	7.914	7.371	0	0	7.61	0	178.9	0
GWA-55	9/15/2017	0.05	0	48.7	0	3.31	0	0.284	0	7.792	6.978	0	0	41.03	0	210.7	0
GWA-55R	9/18/2017	0.05	0	48.7	0	3.31	0	0.284	0	7.921	7.444	0	0	25.61	0	213.7	0
GWA-56	9/15/2017	0.05	0	48.7	0	9.613	0	0.284	0	8.239	7.624	1	0	138.2	0	451.1	0
GWA-56	1/9/2018	0.05	na	48.7	na	9.613	na	0.284	na	8.239	7.624	0	0	138.2	na	451.1	na
GWC-16R	9/21/2017	0.05	0	48.7	1	2.541	0	0.284	0	7.484	6.836	0	0	12.03	0	334.4	0
GWC-17R	9/22/2017	0.05	0	48.7	1	7.286	0	0.284	0	7.278	7.107	0	0	8.924	0	383.2	0
GWC-18	9/25/2017	0.05	0	48.7	0	2.411	0	0.284	0	7.4	5.888	0	0	2.451	0	134.3	0
GWC-18R	9/21/2017	0.05	0	48.7	0	2.888	0	0.284	0	8.014	7.529	0	0	2.607	0	184.5	0
GWC-19R	9/20/2017	0.05	0	48.7	0	2.935	0	0.284	0	7.855	7.545	0	0	3.669	0	229.7	0
GWC-20R	9/19/2017	0.05	0	48.7	0	2.212	0	0.284	0	7.832	7.366	0	0	1.84	0	219.3	1
GWC-20R	12/29/2017	0.05	na	48.7	na	2.212	na	0.284	na	7.832	7.366	0	0	1.84	na	219.3	0
GWC-21R	9/19/2017	0.05	0	48.7	1	4.953	0	0.284	0	7.318	6.819	0	0	5.979	0	415.4	0
GWC-22R	9/19/2017	0.05	0	48.7	0	3.234	0	0.284	0	7.871	7.524	0	1	2.529	0	196.6	0
GWC-22R	1/9/2018	0.05	na	48.7	na	3.234	na	0.284	na	7.871	7.524	0	1	2.529	na	196.6	na
GWC-23R	9/21/2017	0.05	0	48.7	1	2.547	0	0.284	0	7.67	7.063	0	0	25.38	0	352.1	0
GWC-24R	9/19/2017	0.05	0	48.7	0	3.052	0	0.284	0	7.898	6.859	0	0	13.86	0	216.9	0
GWC-25R	9/19/2017	0.05	0	48.7	0	3.148	0	0.284	0	7.786	7.271	0	0	1.98	0	197.9	0

Notes:

0	Indicates the parameter concentration did not exceed a statistical prediction limit
1	Indicates the parameter concentration was above the statistical prediction limit
1	Indicates the initial result of the parameter concentration was above the statistical prediction limit and was later re-sampled
na	parameter was not analyzed

TABLE 4
EVALUATION OF STATISTICAL EXCEEDANCES FOR LANDFILL CELLS 9 & 10 - Plant Bowen Landfill Cells 1 & 2, 3 & 4, and 9 & 10

Parameters		Boron	Boron	Calcium	Calcium	Chloride	Chloride	Fluoride	Fluoride	pH	pH	Sulfate	Sulfate	TDS	TDS
Statistical Method		Interwell Prediction Limits	Interwell Evaluation	Intrawell Prediction Limits	Intrawell Evaluation	Intrawell Prediction Limits	Intrawell Evaluation	Interwell Prediction Limits	Interwell Evaluation	Interwell Prediction Limits	Interwell Evaluation	Intrawell Prediction Limits	Intrawell Evaluation	Intrawell Prediction Limits	Intrawell Evaluation
Wells	Date														
GWA-39RZ	9/29/2017	0.0651	0	40.84	0	3.889	0	0.1286	0	5.77- 7.89	0	27.34	0	265.2	0
GWA-39Z	9/26/2017	0.0651	0	22.08	1	2.308	0	0.1286	0	5.77- 7.89	0	9.647	0	105.2	1
GWA-39Z	12/28/2017	0.0651	na	22.08	0	2.308	na	0.1286	na	5.77- 7.89	na	9.647	na	105.2	na
GWA-40	9/26/2017	0.0651	0	25.37	0	1.563	1	0.1286	0	5.77- 7.89	0	1.664	1	153	0
GWA-40	12/28/2017	0.0651	na	25.37	na	1.563	1	0.1286	na	5.77- 7.89	0	1.664	1	153	na
GWA-41	9/25/2017	0.0651	0	30.24	0	3.92	0	0.1286	0	5.77- 7.89	0	5.013	0	136.8	0
GWA-41R	9/25/2017	0.0651	0	42.84	0	6.054	0	0.1286	0	5.77- 7.89	0	8.599	0	231.4	0
GWA-42	9/26/2017	0.0651	0	33.11	0	3.286	0	0.1286	0	5.77- 7.89	0	2.241	0	179.8	0
GWA-43	9/22/2017	0.0651	0	18.86	0	1.473	0	0.1286	0	5.77- 7.89	0	1.943	0	92.51	0
GWA-43R	9/22/2017	0.0651	0	30.83	1	5.558	0	0.1286	0	5.77- 7.89	0	10.3	0	166.5	0
GWA-43R	12/28/2017	0.0651	na	30.83	0	5.558	na	0.1286	na	5.77- 7.89	0	10.3	na	166.5	na
GWC-44	9/26/2017	0.0651	0	9.645	0	9.108	0	0.1286	0	5.77- 7.89	1	45.44	0	173.9	0
GWC-45	9/27/2017	0.0651	0	0.935	0	1.267	0	0.1286	0	5.77- 7.89	1	1.519	0	28.31	0
GWC-45	12/29/2017	0.0651	na	0.935	na	1.267	na	0.1286	na	5.77- 7.89	1	1.519	na	28.31	na
GWC-45R	9/27/2017	0.0651	0	38.68	0	3.299	0	0.1286	0	5.77- 7.89	0	3.344	0	206.4	0
GWC-46R	9/29/2017	0.0651	0	53.36	0	2.781	0	0.1286	0	5.77- 7.89	0	8.672	0	276.6	0
GWC-47	9/27/2017	0.0651	0	30.22	0	2.883	0	0.1286	0	5.77- 7.89	0	5.413	0	166.9	0
GWC-47	12/28/2017	0.0651	na	30.22	na	2.883	na	0.1286	na	5.77- 7.89	0	5.413	na	166.9	na
GWC-47R	9/27/2017	0.0651	0	37.4	0	2.915	0	0.1286	0	5.77- 7.89	0	10.22	0	175.5	0
GWC-48	9/29/2017	0.0651	0	10.82	0	2.931	0	0.1286	0	5.77- 7.89	1	3.164	1	77.44	0
GWC-48	12/28/2017	0.0651	na	10.82	na	2.931	na	0.1286	na	5.77- 7.89	1	3.164	0	77.44	na
GWC-49R	9/29/2017	0.0651	0	29.24	0	1.742	0	0.1286	0	5.77- 7.89	0	3.612	1	178.1	0
GWC-49R	12/28/2017	0.0651	na	29.24	na	1.742	na	0.1286	na	5.77- 7.89	0	3.612	1	178.1	na
GWC-49Z	9/29/2017	0.0651	0	6.197	0	1.732	0	0.1286	0	5.77- 7.89	1	9.157	0	75.12	0
GWC-49Z	1/10/2018	0.0651	na	6.197	na	1.732	na	0.1286	na	5.77- 7.89	1	9.157	na	75.12	na

Notes:

0	Indicates the parameter concentration did not exceed a statistical prediction limit
1	Indicates the parameter concentration was above the statistical prediction limit
1	Indicates the initial result of the parameter concentration was above the statistical prediction limit and was later re-sampled
na	parameter was not analyzed

TABLE 5
SUMMARY OF GEOCHEMICAL DATA - Plant Bowen Landfill Cells 1 & 2, 3 & 4, and 9 & 10

Landfill Cell	Type	Water Unit	Well	Alkalinity Carbonate as CaCO3	Calcium	Chloride	Magnesium	pH	Potassium	Sodium	Sulfate	Total Dissolved Solids	Major Cation	Major Anion	Major Charge Balance Percent
Cells 1&2	UP	OB	GWA-3	1	1.2	1.5	0.35	5.4	0.26	1.7	1	25	Sodium	Bicarbonate	4.8
Cells 1&2	UP	OB	GWA-50	1	1.8	1.4	0.33	5.64	0.34	2.5	1	25	Sodium	Bicarbonate	-3.1
Cells 1&2	DOWN	OB	GWC-13	1	40.9	4.6	11.7	7.33	2.4	2.3	59.1	211	Calcium	Bicarbonate	1.9
Cells 1&2	DOWN	OB	GWC-15Z	1	25	0.8	14.4	7.89	0.97	2	1.6	119	Calcium	Bicarbonate	8.7
Cells 1&2	UP	ROCK	GWA-1	1	28.5	1.7	16.6	7.58	1.3	6.1	1.5	140	Calcium	Bicarbonate	5.7
Cells 1&2	UP	ROCK	GWA-2	1	63	1.9	17.8	6.55	1	2	147	295	Calcium	Sulfate	7.4
Cells 1&2	UP	ROCK	GWA-2R	1	33	1.6	12	7.31	0.37	2.2	14.8	130	Calcium	Bicarbonate	13.4
Cells 1&2	UP	ROCK	GWA-4RZ	1	47.5	2.9	22.4	7.3	0.73	5.4	25.4	237	Calcium	Bicarbonate	6.5
Cells 1&2	UP	ROCK	GWA-50R	1	2.6	1.1	1.1	5.46	0.26	1.1	1	25	Calcium	Bicarbonate	10.1
Cells 1&2	DOWN	ROCK	GWC-11R	1	27.5	2	15.2	7.72	1.2	0.91	2.2	139	Calcium	Bicarbonate	7.2
Cells 1&2	DOWN	ROCK	GWC-13RZ	1	41.4	8.3	19.4	7.58	1.2	29.1	75.8	281	Calcium	Bicarbonate	2.7
Cells 1&2	DOWN	ROCK	GWC-8RR	1	25	1.3	10.8	7.9	1.2	1.1	1.2	117	Calcium	Bicarbonate	10.3
Cells 3&4	UP	OB	GWA-36	1	25	2.2	7.3	6.6	0.49	3.5	1	81	Calcium	Bicarbonate	28.0
Cells 3&4	UP	OB	GWA-37	1	0.81	1.1	0.33	5.72	0.84	3.2	1	25	Sodium	Bicarbonate	0.8
Cells 3&4	UP	OB	GWA-38	1	1.4	2.4	0.4	5.57	0.41	4.7	1.5	33	Sodium	Bicarbonate	7.8
Cells 3&4	UP	OB	GWA-52	1	26.2	3	15	7.34	0.96	3.7	8.5	150	Calcium	Bicarbonate	6.5
Cells 3&4	UP	OB	GWA-53	1	28.6	2.7	17.1	7.74	0.68	1.5	1.9	138	Calcium	Bicarbonate	10.2
Cells 3&4	UP	OB	GWA-54	1	25	0.93	14.3	7.39	0.9	3.3	4.9	133	Calcium	Bicarbonate	15.4
Cells 3&4	UP	OB	GWA-55	1	39.6	3.6	23.2	7	1.2	0.85	28.7	212	Calcium	Bicarbonate	7.5
Cells 3&4	UP	OB	GWA-56	1	26	6.9	21.1	8.03	2.2	72.8	94.8	349	Sodium	Bicarbonate	5.6
Cells 3&4	UP	ROCK	GWA-36R	1	30.6	3.2	17.8	7.26	1.2	1.7	8.2	169	Calcium	Bicarbonate	7.7
Cells 3&4	UP	ROCK	GWA-51RZ	1	46.1	3.3	22.5	7.62	1.1	3.5	27.3	233	Calcium	Bicarbonate	5.2
Cells 3&4	UP	ROCK	GWA-53R	1	29.3	2.6	16.9	7.8	0.7	1.5	1.9	132	Calcium	Bicarbonate	11.2
Cells 3&4	UP	ROCK	GWA-55R	1	38.2	3.2	23	7.11	0.97	1.2	22	207	Calcium	Bicarbonate	8.5
Cells 3&4	DOWN	ROCK	GWC-16R	1	60.6	2.1	35.8	7.11	1.1	8.2	8.8	312	Calcium	Bicarbonate	7.9
Cells 3&4	DOWN	ROCK	GWC-17R	1	65.6	6.1	38.9	7.16	0.73	2.5	7	323	Calcium	Bicarbonate	10.9
Cells 3&4	DOWN	ROCK	GWC-21R	1	65.6	4.4	40.4	6.99	1.1	1.5	1	306	Magnesium	Bicarbonate	10.8
Cells 3&4	DOWN	ROCK	GWC-22R	1	32.1	2.8	18.7	7.49	0.88	1.7	2.4	159	Calcium	Bicarbonate	7.8
Cells 3&4	DOWN	ROCK	GWC-23R	1	59.9	2.2	39.1	7.4	0.7	7.5	14	290	Magnesium	Bicarbonate	9.0
Cells 9&10	UP	OB	GWA-39Z	1	26.4	1.4	15.5	7.42	1.2	1.2	3.8	126	Calcium	Bicarbonate	8.6
Cells 9&10	UP	OB	GWA-40	1	25.7	2.4	14.8	7.56	0.73	1.1	3.8	123	Calcium	Bicarbonate	7.4
Cells 9&10	UP	OB	GWA-41	1	39.6	3	23.2	7.08	1.8	0.97	11.5	192	Calcium	Bicarbonate	10.1
Cells 9&10	UP	OB	GWA-42	1	32.6	3.2	15.6	7.6	0.34	2.3	2.1	134	Calcium	Bicarbonate	8.9
Cells 9&10	UP	OB	GWA-43	1	3.6	1.3	0.46	5.85	0.51	1.3	1	25	Calcium	Bicarbonate	2.9
Cells 9&10	DOWN	OB	GWC-44	1	9	6.5	2.1	4.34	1.7	2.2	32.4	41	Calcium	Sulfate	-8.8
Cells 9&10	DOWN	OB	GWC-45	1	0.77	1.2	0.48	4.6	0.23	1.9	1	25	Sodium	Chloride	22.9
Cells 9&10	DOWN	OB	GWC-47	1	25	2.7	12.6	7.42	0.69	3	3.7	102	Calcium	Bicarbonate	9.6
Cells 9&10	DOWN	OB	GWC-48	1	3.5	2.6	0.35	5.14	0.27	2.3	1	25	Calcium	Bicarbonate	-2.2
Cells 9&10	DOWN	OB	GWC-49Z	1	0.81	1.4	0.24	5.12	0.55	3.5	2.4	25	Sodium	Bicarbonate	9.2
Cells 9&10	UP	ROCK	GWA-39RZ	1	32.6	2.6	17.6	7.49	1.1	5.8	15.5	150	Calcium	Bicarbonate	6.6
Cells 9&10	UP	ROCK	GWA-41R	1	41.4	4	23.8	7.04	2.4	0.74	10.9	210	Calcium	Bicarbonate	8.1
Cells 9&10	UP	ROCK	GWA-43R	1	28	2.8	16	7.66	0.55	1.4	5.1	117	Calcium	Bicarbonate	7.9
Cells 9&10	DOWN	ROCK	GWC-49R	1	25	1.6	14	7.51	0.75	1.9	3.1	88	Calcium	Bicarbonate	6.6

Notes:
UP = Upgradient well (background well)
DOWN = Downgradient well
OB = overburden water unit
ROCK = bedrock water unit
Data shown is from the March 2018 sampling event
The table is color-coded to show similarities and differences. The colors depict a ranking of the concentrations from highest to lowest along a column for a single parameter.
The highest concentrations are shown in dark red and the lowest concentration are shown in dark green with the concentrations between the highest and lowest shown in yellow.
Lighter shadings of red, green, and yellow indicate the next highest or next lowest concentration.

FIGURES

Legend

Well Location

- Landfill Cells 1 & 2
- Landfill Cells 3 & 4
- Landfill Cells 9 & 10
- * Measured for Water Level Only

N

GWC-20R, GWC-21R, GWC-22R, GWC-23R, GWC-24R, GWC-25R, GWC-18, GWC-18R, GWC-19R, GWC-17R, GWC-16R, GWA-56, GWA-55R, GWA-55, GWA-54, GWA-53, GWA-53R, GWA-38, GWA-52, GWA-51RZ, GWA-37, GWA-36, GWA-36R, Landfill Cells 3 & 4

GWC-45, GWC-45R, GWC-47R, GWC-47, GWC-46R, GWC-44, GWC-48, GWC-49Z, GWC-49R, GWC-14 *, GWC-14Z, GWC-13RZ, GWC-13R *, GWC-13, GWC-15Z, GWC-15 *, GWC-15R, GWC-12, GWC-11R, GWC-11, GWC-10, GWC-10R, GWC-9, GWC-8RR, GWC-8Z, GWC-7Z, GWC-6, GWC-6RZ, GWC-5, GWA-43, GWA-43R, GWA-42, GWA-41R, GWA-41, GWA-40, Landfill Cells 9 & 10, Landfill Cells 1 & 2, GWA-1, GWA-39Z, GWA-39R *, GWA-39RZ, GWA-2, GWA-2R, GWA-3, GWA-4 *, GWA-4R *, GWA-4RZ, GWA-50R, GWA-50

0 250 500 1,000 Feet

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Georgia Power - Plant Bowen
Landfill Cells 1&2, 3&4, and 9&10

Monitoring Well Network September 2017

Prepared by/Date: RD 1/26/2018	amec foster wheeler
Checked by/Date:: RRQ 1/26/2018	Figure Number: 1
Project Number: 6122160287	

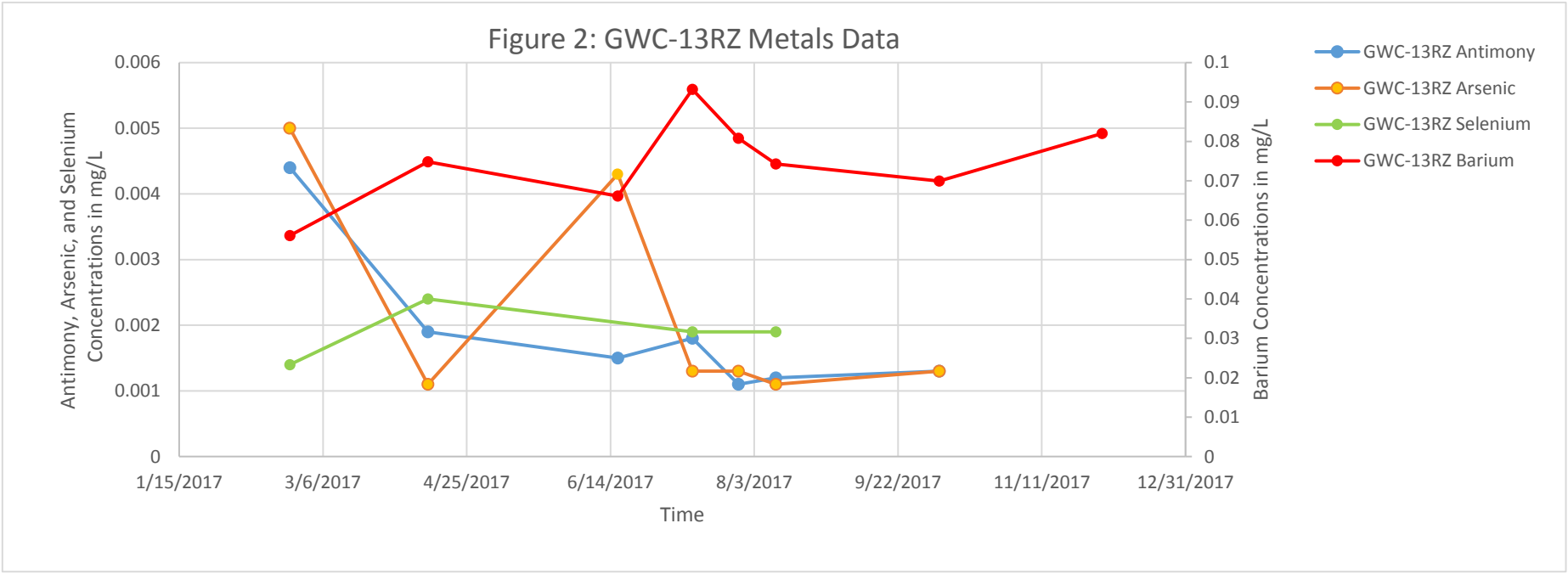
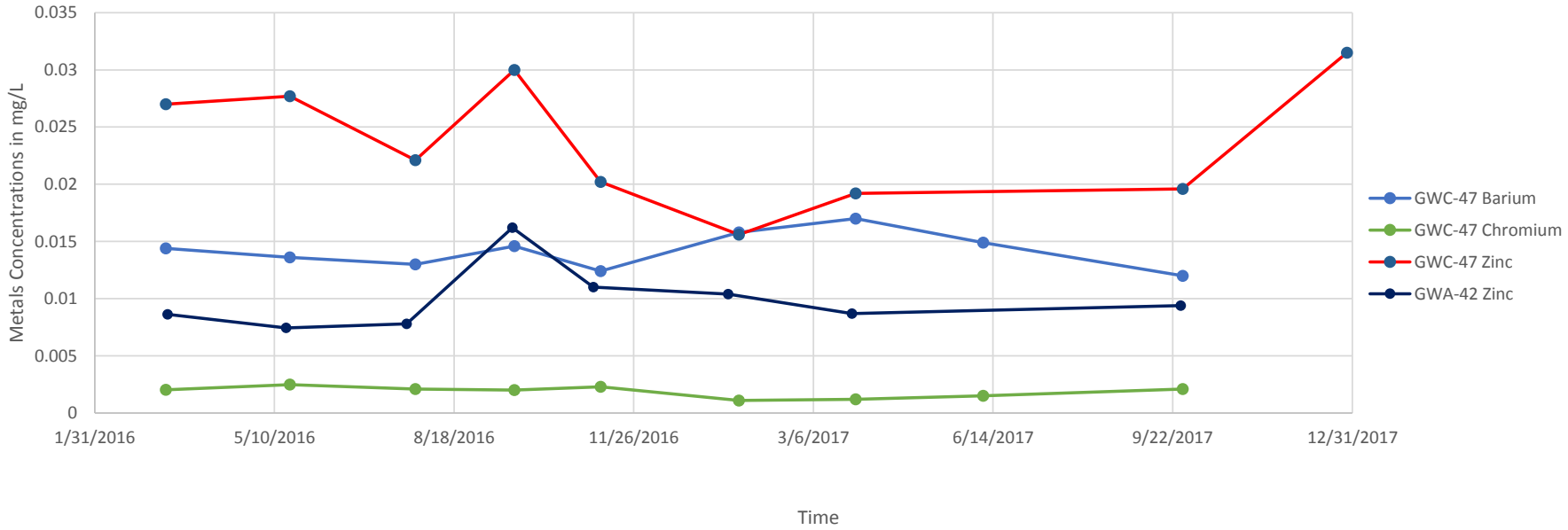


Figure 2: GWC-13RZ Metals Data
Antimony, Arsenic, and Selenium Concentrations in mg/L
Barium Concentrations in mg/L
Time
0.006
0.005
0.004
0.003
0.002
0.001
0
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
1/15/2017
3/6/2017
4/25/2017
6/14/2017
8/3/2017
9/22/2017
11/11/2017
12/31/2017
GWC-13RZ Antimony
GWC-13RZ Arsenic
GWC-13RZ Selenium
GWC-13RZ Barium

Figure 3: GWC-47 Metals Data



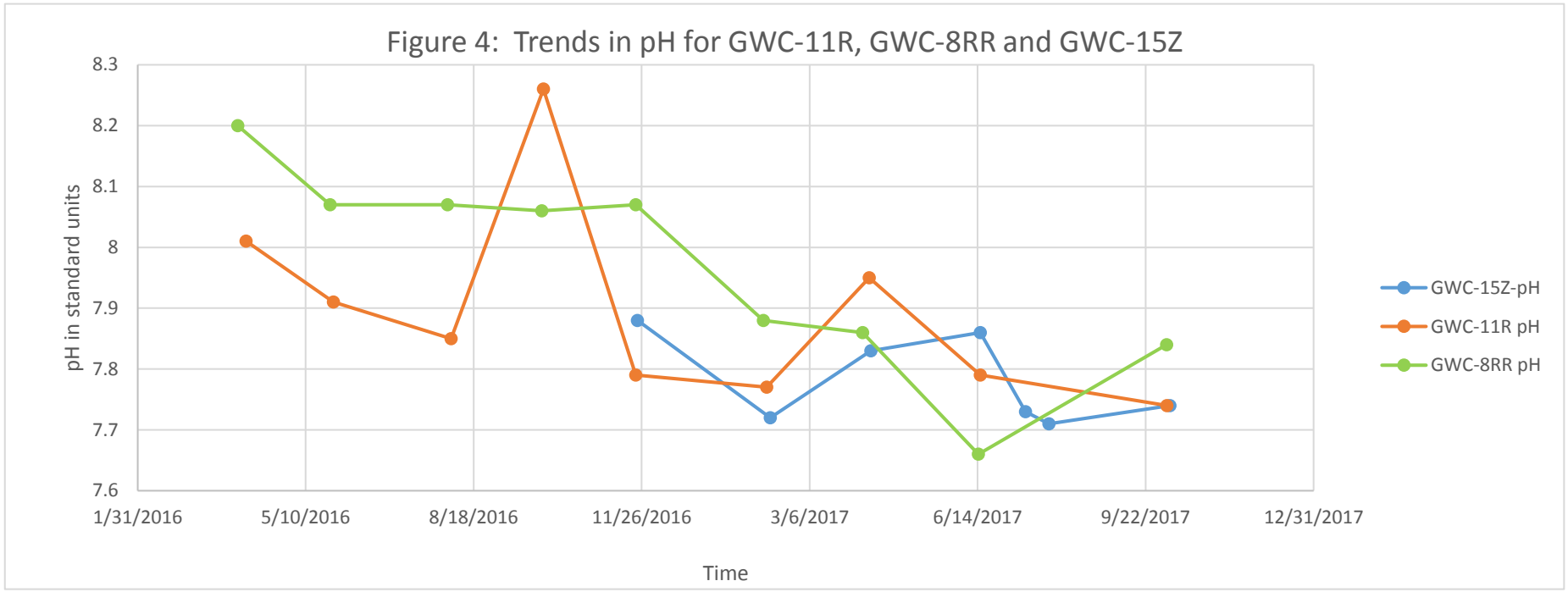


Figure 4: Trends in pH for GWC-11R, GWC-8RR and GWC-15Z
8.3
8.2
8.1
8
7.9
7.8
7.7
7.6
pH in standard units
1/31/2016
5/10/2016
8/18/2016
11/26/2016
3/6/2017
6/14/2017
9/22/2017
12/31/2017
Time
GWC-15Z-pH
GWC-11R pH
GWC-8RR pH

APPENDIX A
USGS REGIONAL DATA

Organizatic	Organizatic	ActivityIdentifier	ActivityTypeCode	ActivityMe	ActivityMe	ActivityStartDate	ActivitySta	ActivitySta	ActivityEnc	ActivityEnc	ActivityEnc	ActivityDe	ActivityDe	ActivityDe	ActivityTo	ActivityTo	ActivityBot	ActivityBot	ProjectIde	ActivityCo	Monitoring	ActivityCo	SampleAqu	Hydrologic	Hydrologic	SampleCol	SampleCol	SampleCol	SampleCol	ResultDete	CharacteristicName	ResultSampleFractionText	ResultMea	ResultMea	MeasureQ	ResultStatu	StatisticalB	ResultValu	ResultWeig	ResultTime	ResultTem	ResultParti	PrecisionV	ResultCom	USGSPCod	ResultDept	ResultDept	ResultDept	SubjectTax	SampleTiss	ResultAnal	ResultAnal	ResultAnal	MethodDe	Laboratory	AnalysisSta	ResultLabo	DetectionC	DetectionC	DetectionC	Preparatio	ProviderNa
USGS-GA	USGS Geor	nwisga.01.97603237	Sample-Routine	Water	Groundwa	11/13/1975	12:00:00	EST				300	feet								USGS-3409030844708		Shady Dolc	Not detern	Routine sa	USGS	USGS	USGS	Unknown		True color	Dissolved	5	PCU		Accepted		Actual							80																	NWIS
USGS-GA	USGS Geor	nwisga.01.97603237	Sample-Routine	Water	Groundwa	11/13/1975	12:00:00	EST				300	feet								USGS-3409030844708		Shady Dolc	Not detern	Routine sa	USGS	USGS	USGS	Unknown		pH	Total	7.4	std units		Accepted		Actual							400																	NWIS
USGS-GA	USGS Geor	nwisga.01.97603237	Sample-Routine	Water	Groundwa	11/13/1975	12:00:00	EST				300	feet								USGS-3409030844708		Shady Dolc	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Specific conductance	Total	237	uS/cm @25C		Accepted		Actual			25 deg C				95																	NWIS
USGS-GA	USGS Geor	nwisga.01.97603237	Sample-Routine	Water	Groundwa	11/13/1975	12:00:00	EST				300	feet								USGS-3409030844708		Shady Dolc	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Temperature, water		16	deg C		Accepted		Actual							10																	NWIS
USGS-GA	USGS Geor	nwisga.01.97603237	Sample-Routine	Water	Groundwa	11/13/1975	12:00:00	EST				300	feet								USGS-3409030844708		Shady Dolc	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Hardness, Ca, Mg		130	mg/l CaCO3		Accepted		Actual							900																	NWIS
USGS-GA	USGS Geor	nwisga.01.97603237	Sample-Routine	Water	Groundwa	11/13/1975	12:00:00	EST				300	feet								USGS-3409030844708		Shady Dolc	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Hardness, non-carbonate	Total	8	mg/l CaCO3		Accepted		Actual							902																	NWIS
USGS-GA	USGS Geor	nwisga.01.97603237	Sample-Routine	Water	Groundwa	11/13/1975	12:00:00	EST				300	feet								USGS-3409030844708		Shady Dolc	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Calcium	Dissolved	27	mg/l		Accepted		Actual							915																	NWIS
USGS-GA	USGS Geor	nwisga.01.97603237	Sample-Routine	Water	Groundwa	11/13/1975	12:00:00	EST				300	feet								USGS-3409030844708		Shady Dolc	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Magnesium	Dissolved	15	mg/l		Accepted		Actual							925																	NWIS
USGS-GA	USGS Geor	nwisga.01.97603237	Sample-Routine	Water	Groundwa	11/13/1975	12:00:00	EST				300	feet								USGS-3409030844708		Shady Dolc	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Potassium	Dissolved	1.1	mg/l		Accepted		Actual							935																	NWIS
USGS-GA	USGS Geor	nwisga.01.97603237	Sample-Routine	Water	Groundwa	11/13/1975	12:00:00	EST				300	feet								USGS-3409030844708		Shady Dolc	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Sodium adsorption ratio [(Na)/(sq root of 1/2 Ca + Mg)]		0.1	None		Accepted		Actual							931																	NWIS
USGS-GA	USGS Geor	nwisga.01.97603237	Sample-Routine	Water	Groundwa	11/13/1975	12:00:00	EST				300	feet								USGS-3409030844708		Shady Dolc	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Sodium, percent total cations		6	%		Accepted		Actual							932																	NWIS
USGS-GA	USGS Geor	nwisga.01.97603237	Sample-Routine	Water	Groundwa	11/13/1975	12:00:00	EST				300	feet								USGS-3409030844708		Shady Dolc	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Sodium	Dissolved	3.5	mg/l		Accepted		Actual							930																	NWIS
USGS-GA	USGS Geor	nwisga.01.97603237	Sample-Routine	Water	Groundwa	11/13/1975	12:00:00	EST				300	feet								USGS-3409030844708		Shady Dolc	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Total dissolved solids	Dissolved	141	mg/l		Accepted		Actual							70301																	NWIS
USGS-GA	USGS Geor	nwisga.01.97603237	Sample-Routine	Water	Groundwa	11/13/1975	12:00:00	EST				300	feet								USGS-3409030844708		Shady Dolc	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Total dissolved solids	Dissolved	0.2	tons/ac ft		Accepted		Actual							70303																	NWIS
USGS-GA	USGS Geor	nwisga.01.97603237	Sample-Routine	Water	Groundwa	11/13/1975	12:00:00	EST				300	feet								USGS-3409030844708		Shady Dolc	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Total dissolved solids	Dissolved	147	mg/l		Accepted		Actual			180 deg C				70300																	NWIS
USGS-GA	USGS Geor	nwisga.01.97603240	Sample-Routine	Water	Groundwa	11/13/1975	11:00:00	EST				510	feet								USGS-3410450844903		Conasauga	Not detern	Routine sa	USGS	USGS	USGS	Unknown		True color	Dissolved	1	PCU		Accepted		Actual							80																	NWIS
USGS-GA	USGS Geor	nwisga.01.97603240	Sample-Routine	Water	Groundwa	11/13/1975	11:00:00	EST				510	feet								USGS-3410450844903		Conasauga	Not detern	Routine sa	USGS	USGS	USGS	Unknown		pH	Total	7.4	std units		Accepted		Actual							400																	NWIS
USGS-GA	USGS Geor	nwisga.01.97603240	Sample-Routine	Water	Groundwa	11/13/1975	11:00:00	EST				510	feet								USGS-3410450844903		Conasauga	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Specific conductance	Total	301	uS/cm @25C		Accepted		Actual			25 deg C				95																	NWIS
USGS-GA	USGS Geor	nwisga.01.97603240	Sample-Routine	Water	Groundwa	11/13/1975	11:00:00	EST				510	feet								USGS-3410450844903		Conasauga	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Temperature, water		18	deg C		Accepted		Actual							10																	NWIS
USGS-GA	USGS Geor	nwisga.01.97603240	Sample-Routine	Water	Groundwa	11/13/1975	11:00:00	EST				510	feet								USGS-3410450844903		Conasauga	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Hardness, Ca, Mg		180	mg/l CaCO3		Accepted		Actual							900																	NWIS
USGS-GA	USGS Geor	nwisga.01.97603240	Sample-Routine	Water	Groundwa	11/13/1975	11:00:00	EST				510	feet								USGS-3410450844903		Conasauga	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Hardness, non-carbonate	Total	22	mg/l CaCO3		Accepted		Actual							902																	NWIS
USGS-GA	USGS Geor	nwisga.01.97603240	Sample-Routine	Water	Groundwa	11/13/1975	11:00:00	EST				510	feet								USGS-3410450844903		Conasauga	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Calcium	Dissolved	39	mg/l		Accepted		Actual							915																	NWIS
USGS-GA	USGS Geor	nwisga.01.97603240	Sample-Routine	Water	Groundwa	11/13/1975	11:00:00	EST				510	feet								USGS-3410450844903		Conasauga	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Magnesium	Dissolved	20	mg/l		Accepted		Actual							925																	NWIS
USGS-GA	USGS Geor	nwisga.01.97603240	Sample-Routine	Water	Groundwa	11/13/1975	11:00:00	EST				510	feet								USGS-3410450844903		Conasauga	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Potassium	Dissolved	0.7	mg/l		Accepted		Actual							935																	NWIS
USGS-GA	USGS Geor	nwisga.01.97603240	Sample-Routine	Water	Groundwa	11/13/1975	11:00:00	EST				510	feet								USGS-3410450844903		Conasauga	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Sodium adsorption ratio [(Na)/(sq root of 1/2 Ca + Mg)]		0.1	None		Accepted		Actual							931																	NWIS
USGS-GA	USGS Geor	nwisga.01.97603240	Sample-Routine	Water	Groundwa	11/13/1975	11:00:00	EST				510	feet								USGS-3410450844903		Conasauga	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Sodium, percent total cations		4	%		Accepted		Actual							932																	NWIS
USGS-GA	USGS Geor	nwisga.01.97603240	Sample-Routine	Water	Groundwa	11/13/1975	11:00:00	EST				510	feet								USGS-3410450844903		Conasauga	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Sodium	Dissolved	3.8	mg/l		Accepted		Actual							930																	NWIS
USGS-GA	USGS Geor	nwisga.01.97603240	Sample-Routine	Water	Groundwa	11/13/1975	11:00:00	EST				510	feet								USGS-3410450844903		Conasauga	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Total dissolved solids	Dissolved	189	mg/l		Accepted		Actual							70301																	NWIS
USGS-GA	USGS Geor	nwisga.01.97603240	Sample-Routine	Water	Groundwa	11/13/1975	11:00:00	EST				510	feet								USGS-3410450844903		Conasauga	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Total dissolved solids	Dissolved	0.25	tons/ac ft		Accepted		Actual							70303																	NWIS
USGS-GA	USGS Geor	nwisga.01.97603240	Sample-Routine	Water	Groundwa	11/13/1975	11:00:00	EST				510	feet								USGS-3410450844903		Conasauga	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Total dissolved solids	Dissolved	182	mg/l		Accepted		Actual			180 deg C				70300																	NWIS
USGS-GA	USGS Geor	nwisga.01.96000667	Sample-Routine	Water	Groundwa	12/22/1959															USGS-3409030844711		Shady Dolc	Not detern	Routine sa	USGS	USGS	USGS	Unknown		True color	Dissolved	3	PCU		Accepted		Actual							80																	NWIS
USGS-GA	USGS Geor	nwisga.01.96000667	Sample-Routine	Water	Groundwa	12/22/1959															USGS-3409030844711		Shady Dolc	Not detern	Routine sa	USGS	USGS	USGS	Unknown		pH	Total	8	std units		Accepted		Actual							400																	NWIS
USGS-GA	USGS Geor	nwisga.01.96000667	Sample-Routine	Water	Groundwa	12/22/1959															USGS-3409030844711		Shady Dolc	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Specific conductance	Total	244	uS/cm @25C		Accepted		Actual			25 deg C				95																	NWIS
USGS-GA	USGS Geor	nwisga.01.96000667	Sample-Routine	Water	Groundwa	12/22/1959															USGS-3409030844711		Shady Dolc	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Hardness, Ca, Mg		110	mg/l CaCO3		Accepted		Actual							900																	NWIS
USGS-GA	USGS Geor	nwisga.01.96000667	Sample-Routine	Water	Groundwa	12/22/1959															USGS-3409030844711		Shady Dolc	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Hardness, non-carbonate	Total	10	mg/l CaCO3		Accepted		Actual							902																	NWIS
USGS-GA	USGS Geor	nwisga.01.96000667	Sample-Routine	Water	Groundwa	12/22/1959															USGS-3409030844711		Shady Dolc	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Calcium	Dissolved	26	mg/l		Accepted		Actual							915																	NWIS
USGS-GA	USGS Geor	nwisga.01.96000667	Sample-Routine	Water	Groundwa	12/22/1959															USGS-3409030844711		Shady Dolc	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Magnesium	Dissolved	12	mg/l		Accepted		Actual							925																	NWIS
USGS-GA	USGS Geor	nwisga.01.96000667	Sample-Routine	Water	Groundwa	12/22/1959															USGS-3409030844711		Shady Dolc	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Potassium	Dissolved	0.7	mg/l		Accepted		Actual							935																	NWIS
USGS-GA	USGS Geor	nwisga.01.96000667	Sample-Routine	Water	Groundwa	12/22/1959															USGS-3409030844711		Shady Dolc	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Sodium adsorption ratio [(Na)/(sq root of 1/2 Ca + Mg)]		0.3	None		Accepted		Actual							931																	NWIS
USGS-GA	USGS Geor	nwisga.01.96000667	Sample-Routine	Water	Groundwa	12/22/1959															USGS-3409030844711		Shady Dolc	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Sodium, percent total cations		11	%		Accepted		Actual							932																	NWIS
USGS-GA	USGS Geor	nwisga.01.96000667	Sample-Routine	Water	Groundwa	12/22/1959															USGS-3409030844711		Shady Dolc	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Sodium	Dissolved	6.6	mg/l		Accepted		Actual							930																	NWIS
USGS-GA	USGS Geor	nwisga.01.96000667	Sample-Routine	Water	Groundwa	12/22/1959															USGS-3409030844711		Shady Dolc	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Total dissolved solids	Dissolved	140	mg/l		Accepted		Actual							70301																	NWIS
USGS-GA	USGS Geor	nwisga.01.96000667	Sample-Routine	Water	Groundwa	12/22/1959															USGS-3409030844711		Shady Dolc	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Total dissolved solids	Dissolved	0.2	tons/ac ft		Accepted		Actual							70303																	NWIS
USGS-GA	USGS Geor	nwisga.01.96000667	Sample-Routine	Water	Groundwa	12/22/1959															USGS-3409030844711		Shady Dolc	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Total dissolved solids	Dissolved	146	mg/l		Accepted		Actual			180 deg C				70300																	NWIS
USGS-GA	USGS Geor	nwisga.01.97101426	Sample-Routine	Water	Groundwa	4/27/1971	11:10:00	EST													USGS-3414070845625		Conasauga	Not detern	Routine sa	USGS	USGS	USGS	Unknown		True color	Dissolved	0	PCU		Accepted		Actual							80																	NWIS
USGS-GA	USGS Geor	nwisga.01.97101426	Sample-Routine	Water	Groundwa	4/27/1971	11:10:00	EST													USGS-3414070845625		Conasauga	Not detern	Routine sa	USGS	USGS	USGS	Unknown		pH	Total	8.2	std units		Accepted		Actual							400																	NWIS
USGS-GA	USGS Geor	nwisga.01.97101426	Sample-Routine	Water	Groundwa	4/27/1971	11:10:00	EST													USGS-3414070845625		Conasauga	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Specific conductance	Total	370	uS/cm @25C		Accepted		Actual			25 deg C				95																	NWIS
USGS-GA	USGS Geor	nwisga.01.97101426	Sample-Routine	Water	Groundwa	4/27/1971	11:10:00	EST													USGS-3414070845625		Conasauga	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Hardness, Ca, Mg		170	mg/l CaCO3		Accepted		Actual							900																	NWIS
USGS-GA	USGS Geor	nwisga.01.97101426	Sample-Routine	Water	Groundwa	4/27/1971	11:10:00	EST													USGS-3414070845625		Conasauga	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Hardness, non-carbonate	Total	24	mg/l CaCO3		Accepted		Actual							902																	NWIS
USGS-GA	USGS Geor	nwisga.01.97101426	Sample-Routine	Water	Groundwa	4/27/1971	11:10:00	EST													USGS-3414070845625		Conasauga	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Calcium	Dissolved	58	mg/l		Accepted		Actual							915																	NWIS
USGS-GA	USGS Geor	nwisga.01.97101426	Sample-Routine	Water	Groundwa	4/27/1971	11:10:00	EST													USGS-3414070845625		Conasauga	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Magnesium	Dissolved	5.6	mg/l		Accepted		Actual							925																	NWIS
USGS-GA	USGS Geor	nwisga.01.97101426	Sample-Routine	Water	Groundwa	4/27/1971	11:10:00	EST													USGS-3414070845625		Conasauga	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Potassium	Dissolved	0.7	mg/l		Accepted		Actual							935																	NWIS
USGS-GA	USGS Geor	nwisga.01.97101426	Sample-Routine	Water	Groundwa	4/27/1971	11:10:00	EST													USGS-3414070845625		Conasauga	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Sodium adsorption ratio [(Na)/(sq root of 1/2 Ca + Mg)]		0.4	None		Accepted		Actual							931																	NWIS
USGS-GA	USGS Geor	nwisga.01.97101426	Sample-Routine	Water	Groundwa	4/27/1971	11:10:00	EST													USGS-3414070845625		Conasauga	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Sodium, percent total cations		12	%		Accepted		Actual							932																	NWIS
USGS-GA	USGS Geor	nwisga.01.97101426	Sample-Routine	Water	Groundwa	4/27/1971	11:10:00	EST													USGS-3414070845625		Conasauga	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Sodium	Dissolved	11	mg/l		Accepted		Actual							930																	NWIS
USGS-GA	USGS Geor	nwisga.01.97101426	Sample-Routine	Water	Groundwa	4/27/1971	11:10:00	EST													USGS-3414070845625		Conasauga	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Total dissolved solids	Dissolved	230	mg/l		Accepted		Actual							70301																	NWIS
USGS-GA	USGS Geor	nwisga.01.97101426	Sample-Routine	Water	Groundwa	4/27/1971	11:10:00	EST													USGS-3414070845625		Conasauga	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Total dissolved solids	Dissolved	0.33	tons/ac ft		Accepted		Actual							70303																	NWIS
USGS-GA	USGS Geor	nwisga.01.97101426	Sample-Routine	Water	Groundwa	4/27/1971	11:10:00	EST													USGS-3414070845625		Conasauga	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Total dissolved solids	Dissolved	240	mg/l		Accepted		Actual			180 deg C				70300																	NWIS
USGS-GA	USGS Geor	nwisga.01.97501256	Sample-Routine	Water	Groundwa	5/28/1975	16:30:00	EST													USGS-3408420844707		Shady Dolc	Not detern	Routine sa	USGS	USGS	USGS	Unknown		True color	Dissolved	0	PCU		Accepted		Actual							80																	NWIS
USGS-GA	USGS Geor	nwisga.01.97501256	Sample-Routine	Water	Groundwa	5/28/1975	16:30:00	EST													USGS-3408420844707		Shady Dolc	Not detern	Routine sa	USGS	USGS	USGS	Unknown		pH	Total	6.5	std units		Accepted		Actual							400																	NWIS
USGS-GA	USGS Geor	nwisga.01.97501256	Sample-Routine	Water	Groundwa	5/28/1975	16:30:00	EST													USGS-3408420844707		Shady Dolc	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Specific conductance	Total	244	uS/cm @25C		Accepted		Actual			25 deg C				95																	NWIS
USGS-GA	USGS Geor	nwisga.01.97501256	Sample-Routine	Water	Groundwa	5/28/1975	16:30:00	EST													USGS-3408420844707		Shady Dolc	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Temperature, water		17	deg C		Accepted		Actual							10																	NWIS
USGS-GA	USGS Geor	nwisga.01.97501256	Sample-Routine	Water	Groundwa	5/28/1975	16:30:00	EST													USGS-3408420844707		Shady Dolc	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Hardness, Ca, Mg		140	mg/l CaCO3		Accepted		Actual							900																	NWIS
USGS-GA	USGS Geor	nwisga.01.97501256	Sample-Routine	Water	Groundwa	5/28/1975	16:30:00	EST													USGS-3408420844707		Shady Dolc	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Hardness, non-carbonate	Total	13	mg/l CaCO3		Accepted		Actual							902																	NWIS
USGS-GA	USGS Geor	nwisga.01.97501256	Sample-Routine	Water	Groundwa	5/28/1975	16:30:00	EST													USGS-3408420844707		Shady Dolc	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Calcium	Dissolved	29	mg/l		Accepted		Actual							915																	NWIS
USGS-GA	USGS Geor	nwisga.01.97501256	Sample-Routine	Water	Groundwa	5/28/1975	16:30:00	EST													USGS-3408420844707		Shady Dolc	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Magnesium	Dissolved	16	mg/l		Accepted		Actual							925																	NWIS
USGS-GA	USGS Geor	nwisga.01.97501256	Sample-Routine	Water	Groundwa	5/28/1975	16:30:00	EST													USGS-3408420844707		Shady Dolc	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Potassium	Dissolved	1	mg/l		Accepted		Actual							935																	NWIS
USGS-GA	USGS Geor	nwisga.01.97501256	Sample-Routine	Water	Groundwa	5/28/1975	16:30:00	EST													USGS-3408420844707		Shady Dolc	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Sodium adsorption ratio [(Na)/(sq root of 1/2 Ca + Mg)]		0.2	None		Accepted		Actual							931																	NWIS
USGS-GA	USGS Geor	nwisga.01.97501256	Sample-Routine	Water	Groundwa	5/28/1975	16:30:00	EST													USGS-3408420844707		Shady Dolc	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Sodium, percent total cations		6	%		Accepted		Actual							932																	NWIS
USGS-GA	USGS Geor	nwisga.01.97501256	Sample-Routine	Water	Groundwa	5/28/1975	16:30:00	EST													USGS-3408420844707		Shady Dolc	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Sodium	Dissolved	4.2	mg/l		Accepted		Actual							930																	NWIS
USGS-GA	USGS Geor	nwisga.01.97501256	Sample-Routine	Water	Groundwa	5/28/1975	16:30:00	EST													USGS-3408420844707		Shady Dolc	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Total dissolved solids	Dissolved	152	mg/l		Accepted		Actual							70301																	NWIS
USGS-GA	USGS Geor	nwisga.01.97501256	Sample-Routine	Water	Groundwa	5/28/1975	16:30:00	EST													USGS-3408420844707		Shady Dolc	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Total dissolved solids	Dissolved	0.19	tons/ac ft		Accepted		Actual							70303																	NWIS
USGS-GA	USGS Geor	nwisga.01.97501256	Sample-Routine	Water	Groundwa	5/28/1975	16:30:00	EST													USGS-3408420844707		Shady Dolc	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Total dissolved solids	Dissolved	136	mg/l		Accepted		Actual			180 deg C				70300																	NWIS
USGS-GA	USGS Geor	nwisga.01.97501258	Sample-Routine	Water	Groundwa	1/17/1975	9:30:00	EST				136	feet								USGS-3409350844612		Shady Dolc	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Temperature, water		20.5	deg C		Accepted		Actual							10																	NWIS
USGS-GA	USGS Geor	nwisga.01.97501258	Sample-Routine	Water	Groundwa	1/17/1975	9:30:00	EST				136	feet								USGS-3409350844612		Shady Dolc	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Total dissolved solids	Dissolved	0.16	tons/ac ft		Accepted		Actual							70303																	NWIS
USGS-GA	USGS Geor	nwisga.01.97501258	Sample-Routine	Water	Groundwa	1/17/1975	9:30:00	EST				136	feet								USGS-3409350844612		Shady Dolc	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Total dissolved solids	Dissolved	116	mg/l		Accepted		Actual			180 deg C				70300																	NWIS
USGS-GA	USGS Geor	nwisga.01.97501259	Sample-Routine	Water	Groundwa	5/28/1975	15:30:00	EST													USGS-3409350844612		Shady Dolc	Not detern	Routine sa	USGS	USGS	USGS	Unknown		pH	Total	6.4	std units		Accepted		Actual							400																	NWIS
USGS-GA	USGS Geor	nwisga.01.97501259	Sample-Routine	Water	Groundwa	5/28/1975	15:30:00	EST													USGS-3409350844612		Shady Dolc	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Specific conductance	Total	211	uS/cm @25C		Accepted		Actual			25 deg C				95																	NWIS
USGS-GA	USGS Geor	nwisga.01.97501259	Sample-Routine	Water	Groundwa	5/28/1975	15:30:00	EST													USGS-3409350844612		Shady Dolc	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Temperature, water		16.5	deg C		Accepted		Actual							10																	NWIS
USGS-GA	USGS Geor	nwisga.01.97501259	Sample-Routine	Water	Groundwa	5/28/1975	15:30:00	EST													USGS-3409350844612		Shady Dolc	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Total dissolved solids	Dissolved	0.17	tons/ac ft		Accepted		Actual							70303																	NWIS
USGS-GA	USGS Geor	nwisga.01.97501259	Sample-Routine	Water	Groundwa	5/28/1975	15:30:00	EST													USGS-3409350844612		Shady Dolc	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Total dissolved solids	Dissolved	126	mg/l		Accepted		Actual			180 deg C				70300																	NWIS
USGS-GA	USGS Geor	nwisga.01.95801595	Sample-Routine	Water	Groundwa	9/30/1958															USGS-3409460844247		Talladega F	Not detern	Routine sa	USGS	USGS	USGS	Unknown		True color	Dissolved	3	PCU		Accepted		Actual							80																	NWIS
USGS-GA	USGS Geor	nwisga.01.95801595	Sample-Routine	Water	Groundwa	9/30/1958															USGS-3409460844247		Talladega F	Not detern	Routine sa	USGS	USGS	USGS	Unknown		pH	Total	6.4	std units		Accepted		Actual							400																	NWIS
USGS-GA	USGS Geor	nwisga.01.95801595	Sample-Routine	Water	Groundwa	9/30/1958															USGS-3409460844247		Talladega F	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Specific conductance	Total	66	uS/cm @25C		Accepted		Actual			25 deg C				95																	NWIS
USGS-GA	USGS Geor	nwisga.01.95801595	Sample-Routine	Water	Groundwa	9/30/1958															USGS-3409460844247		Talladega F	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Hardness, Ca, Mg		22	mg/l CaCO3		Accepted		Actual							900																	NWIS
USGS-GA	USGS Geor	nwisga.01.95801595	Sample-Routine	Water	Groundwa	9/30/1958															USGS-3409460844247		Talladega F	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Hardness, non-carbonate	Total	0	mg/l CaCO3		Accepted		Actual							902																	NWIS
USGS-GA	USGS Geor	nwisga.01.95801595	Sample-Routine	Water	Groundwa	9/30/1958															USGS-3409460844247		Talladega F	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Calcium	Dissolved	6.8	mg/l		Accepted		Actual							915																	NWIS
USGS-GA	USGS Geor	nwisga.01.95801595	Sample-Routine	Water	Groundwa	9/30/1958															USGS-3409460844247		Talladega F	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Magnesium	Dissolved	1.2	mg/l		Accepted		Actual							925																	NWIS
USGS-GA	USGS Geor	nwisga.01.95801595	Sample-Routine	Water	Groundwa	9/30/1958															USGS-3409460844247		Talladega F	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Potassium	Dissolved	2.4	mg/l		Accepted		Actual							935																	NWIS
USGS-GA	USGS Geor	nwisga.01.95801595	Sample-Routine	Water	Groundwa	9/30/1958															USGS-3409460844247		Talladega F	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Sodium adsorption ratio [(Na)/(sq root of 1/2 Ca + Mg)]		0.3	None		Accepted		Actual							931																	NWIS
USGS-GA	USGS Geor	nwisga.01.95801595	Sample-Routine	Water	Groundwa	9/30/1958															USGS-3409460844247		Talladega F	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Sodium, percent total cations		22	%		Accepted		Actual							932																	NWIS
USGS-GA	USGS Geor	nwisga.01.95801595	Sample-Routine	Water	Groundwa	9/30/1958															USGS-3409460844247		Talladega F	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Sodium	Dissolved	3.3	mg/l		Accepted		Actual							930																	NWIS
USGS-GA	USGS Geor	nwisga.01.95801595	Sample-Routine	Water	Groundwa	9/30/1958															USGS-3409460844247		Talladega F	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Total dissolved solids	Dissolved	60	mg/l		Accepted		Actual							70301																	NWIS
USGS-GA	USGS Geor	nwisga.01.95801595	Sample-Routine	Water	Groundwa	9/30/1958															USGS-3409460844247		Talladega F	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Total dissolved solids	Dissolved	0.09	tons/ac ft		Accepted		Actual							70303																	NWIS
USGS-GA	USGS Geor	nwisga.01.95801595	Sample-Routine	Water	Groundwa	9/30/1958															USGS-3409460844247		Talladega F	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Total dissolved solids	Dissolved	65	mg/l		Accepted		Actual			180 deg C				70300																	NWIS
USGS-GA	USGS Geor	nwisga.01.96000665	Sample-Routine	Water	Groundwa	12/30/1959															USGS-3408420844707		Shady Dolc	Not detern	Routine sa	USGS	USGS	USGS	Unknown		True color	Dissolved	5	PCU		Accepted		Actual							80																	NWIS
USGS-GA	USGS Geor	nwisga.01.96000665	Sample-Routine	Water	Groundwa	12/30/1959															USGS-3408420844707		Shady Dolc	Not detern	Routine sa	USGS	USGS	USGS	Unknown		pH	Total	7.7	std units		Accepted		Actual							400																	NWIS
USGS-GA	USGS Geor	nwisga.01.96000665	Sample-Routine	Water	Groundwa	12/30/1959															USGS-3408420844707		Shady Dolc	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Specific conductance	Total	254	uS/cm @25C		Accepted		Actual			25 deg C				95																	NWIS
USGS-GA	USGS Geor	nwisga.01.96000665	Sample-Routine	Water	Groundwa	12/30/1959															USGS-3408420844707		Shady Dolc	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Hardness, Ca, Mg		130	mg/l CaCO3		Accepted		Actual							900																	NWIS
USGS-GA	USGS Geor	nwisga.01.96000665	Sample-Routine	Water	Groundwa	12/30/1959															USGS-3408420844707		Shady Dolc	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Hardness, non-carbonate	Total	12	mg/l CaCO3		Accepted		Actual							902																	NWIS
USGS-GA	USGS Geor	nwisga.01.96000665	Sample-Routine	Water	Groundwa	12/30/1959															USGS-3408420844707		Shady Dolc	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Calcium	Dissolved	27	mg/l		Accepted		Actual							915																	NWIS
USGS-GA	USGS Geor	nwisga.01.96000665	Sample-Routine	Water	Groundwa	12/30/1959															USGS-3408420844707		Shady Dolc	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Magnesium	Dissolved	16	mg/l		Accepted		Actual							925																	NWIS
USGS-GA	USGS Geor	nwisga.01.96000665	Sample-Routine	Water	Groundwa	12/30/1959															USGS-3408420844707		Shady Dolc	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Potassium	Dissolved	0.7	mg/l		Accepted		Actual							935																	NWIS
USGS-GA	USGS Geor	nwisga.01.96000665	Sample-Routine	Water	Groundwa	12/30/1959															USGS-3408420844707		Shady Dolc	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Sodium adsorption ratio [(Na)/(sq root of 1/2 Ca + Mg)]		0.1	None		Accepted		Actual							931																	NWIS
USGS-GA	USGS Geor	nwisga.01.96000665	Sample-Routine	Water	Groundwa	12/30/1959															USGS-3408420844707		Shady Dolc	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Sodium, percent total cations		4	%		Accepted		Actual							932																	NWIS
USGS-GA	USGS Geor	nwisga.01.96000665	Sample-Routine	Water	Groundwa	12/30/1959															USGS-3408420844707		Shady Dolc	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Sodium	Dissolved	2.9	mg/l		Accepted		Actual							930																	NWIS
USGS-GA	USGS Geor	nwisga.01.96000665	Sample-Routine	Water	Groundwa	12/30/1959															USGS-3408420844707		Shady Dolc	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Total dissolved solids	Dissolved	143	mg/l		Accepted		Actual							70301																	NWIS
USGS-GA	USGS Geor	nwisga.01.96000665	Sample-Routine	Water	Groundwa	12/30/1959															USGS-3408420844707		Shady Dolc	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Total dissolved solids	Dissolved	0.21	tons/ac ft		Accepted		Actual							70303																	NWIS
USGS-GA	USGS Geor	nwisga.01.96000665	Sample-Routine	Water	Groundwa	12/30/1959															USGS-3408420844707		Shady Dolc	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Total dissolved solids	Dissolved	153	mg/l		Accepted		Actual			180 deg C				70300																	NWIS
USGS-GA	USGS Geor	nwisga.01.97501260	Sample-Routine	Water	Groundwa	6/19/1975	12:00:00	EST													USGS-3409350844612		Shady Dolc	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Specific conductance	Total	222	uS/cm @25C		Accepted		Actual			25 deg C				95																	NWIS
USGS-GA	USGS Geor	nwisga.01.97603236	Sample-Routine	Water	Groundwa	11/12/1975	11:30:00	EST				140	feet								USGS-3408420844707		Shady Dolc	Not detern	Routine sa	USGS	USGS	USGS	Unknown		True color	Dissolved	3	PCU		Accepted		Actual							80																	NWIS
USGS-GA	USGS Geor	nwisga.01.97603236	Sample-Routine	Water	Groundwa	11/12/1975	11:30:00	EST				140	feet								USGS-3408420844707		Shady Dolc	Not detern	Routine sa	USGS	USGS	USGS	Unknown		pH	Total	7.4	std units		Accepted		Actual							400																	NWIS
USGS-GA	USGS Geor	nwisga.01.97603236	Sample-Routine	Water	Groundwa	11/12/1975	11:30:00	EST				140	feet								USGS-3408420844707		Shady Dolc	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Specific conductance	Total	255	uS/cm @25C		Accepted		Actual			25 deg C				95																	NWIS
USGS-GA	USGS Geor	nwisga.01.97603236	Sample-Routine	Water	Groundwa	11/12/1975	11:30:00	EST				140	feet								USGS-3408420844707		Shady Dolc	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Temperature, water		17.5	deg C		Accepted		Actual							10																	NWIS
USGS-GA	USGS Geor	nwisga.01.97603236	Sample-Routine	Water	Groundwa	11/12/1975	11:30:00	EST				140	feet								USGS-3408420844707		Shady Dolc	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Hardness, Ca, Mg		140	mg/l CaCO3		Accepted		Actual							900																	NWIS
USGS-GA	USGS Geor	nwisga.01.97603236	Sample-Routine	Water	Groundwa	11/12/1975	11:30:00	EST				140	feet								USGS-3408420844707		Shady Dolc	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Hardness, non-carbonate	Total	17	mg/l CaCO3		Accepted		Actual							902																	NWIS
USGS-GA	USGS Geor	nwisga.01.97603236	Sample-Routine	Water	Groundwa	11/12/1975	11:30:00	EST				140	feet								USGS-3408420844707		Shady Dolc	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Calcium	Dissolved	30	mg/l		Accepted		Actual							915																	NWIS
USGS-GA	USGS Geor	nwisga.01.97603236	Sample-Routine	Water	Groundwa	11/12/1975	11:30:00	EST				140	feet								USGS-3408420844707		Shady Dolc	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Magnesium	Dissolved	16	mg/l		Accepted		Actual							925																	NWIS
USGS-GA	USGS Geor	nwisga.01.97603236	Sample-Routine	Water	Groundwa	11/12/1975	11:30:00	EST				140	feet								USGS-3408420844707		Shady Dolc	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Potassium	Dissolved	1	mg/l		Accepted		Actual							935																	NWIS
USGS-GA	USGS Geor	nwisga.01.97603236	Sample-Routine	Water	Groundwa	11/12/1975	11:30:00	EST				140	feet								USGS-3408420844707		Shady Dolc	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Sodium adsorption ratio [(Na)/(sq root of 1/2 Ca + Mg)]		0.1	None		Accepted		Actual							931																	NWIS
USGS-GA	USGS Geor	nwisga.01.97603236	Sample-Routine	Water	Groundwa	11/12/1975	11:30:00	EST				140	feet								USGS-3408420844707		Shady Dolc	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Sodium, percent total cations		5	%		Accepted		Actual							932																	NWIS
USGS-GA	USGS Geor	nwisga.01.97603236	Sample-Routine	Water	Groundwa	11/12/1975	11:30:00	EST				140	feet								USGS-3408420844707		Shady Dolc	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Sodium	Dissolved	3.5	mg/l		Accepted		Actual							930																	NWIS
USGS-GA	USGS Geor	nwisga.01.97603236	Sample-Routine	Water	Groundwa	11/12/1975	11:30:00	EST				140	feet								USGS-3408420844707		Shady Dolc	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Total dissolved solids	Dissolved	150	mg/l		Accepted		Actual							70301																	NWIS
USGS-GA	USGS Geor	nwisga.01.97603236	Sample-Routine	Water	Groundwa	11/12/1975	11:30:00	EST				140	feet								USGS-3408420844707		Shady Dolc	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Total dissolved solids	Dissolved	0.22	tons/ac ft		Accepted		Actual							70303																	NWIS
USGS-GA	USGS Geor	nwisga.01.97603236	Sample-Routine	Water	Groundwa	11/12/1975	11:30:00	EST				140	feet								USGS-3408420844707		Shady Dolc	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Total dissolved solids	Dissolved	162	mg/l		Accepted		Actual			180 deg C				70300																	NWIS
USGS-GA	USGS Geor	nwisga.01.97501257	Sample-Routine	Water	Groundwa	10/29/1974	16:30:00	EST				136	feet								USGS-3409350844612		Shady Dolc	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Specific conductance	Total	70	uS/cm @25C		Accepted		Actual			25 deg C				95																	NWIS
USGS-GA	USGS Geor	nwisga.01.97501257	Sample-Routine	Water	Groundwa	10/29/1974	16:30:00	EST				136	feet								USGS-3409350844612		Shady Dolc	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Temperature, water		20.5	deg C		Accepted		Actual							10																	NWIS
USGS-GA	USGS Geor	nwisga.01.97501257	Sample-Routine	Water	Groundwa	10/29/1974	16:30:00	EST				136	feet								USGS-3409350844612		Shady Dolc	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Total dissolved solids	Dissolved	0.17	tons/ac ft		Accepted		Actual							70303																	NWIS
USGS-GA	USGS Geor	nwisga.01.97501257	Sample-Routine	Water	Groundwa	10/29/1974	16:30:00	EST				136	feet								USGS-3409350844612		Shady Dolc	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Total dissolved solids	Dissolved	128	mg/l		Accepted		Actual			180 deg C				70300																	NWIS
USGS-GA	USGS Geor	nwisga.01.97603238	Sample-Routine	Water	Groundwa	11/13/1975	8:00:00	EST				140	feet								USGS-3409350844612		Shady Dolc	Not detern	Routine sa	USGS	USGS	USGS	Unknown		True color	Dissolved	1	PCU		Accepted		Actual							80																	NWIS
USGS-GA	USGS Geor	nwisga.01.97603238	Sample-Routine	Water	Groundwa	11/13/1975	8:00:00	EST				140	feet								USGS-3409350844612		Shady Dolc	Not detern	Routine sa	USGS	USGS	USGS	Unknown		pH	Total	7.3	std units		Accepted		Actual							400																	NWIS
USGS-GA	USGS Geor	nwisga.01.97603238	Sample-Routine	Water	Groundwa	11/13/1975	8:00:00	EST				140	feet								USGS-3409350844612		Shady Dolc	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Specific conductance	Total	224	uS/cm @25C		Accepted		Actual			25 deg C				95																	NWIS
USGS-GA	USGS Geor	nwisga.01.97603238	Sample-Routine	Water	Groundwa	11/13/1975	8:00:00	EST				140	feet								USGS-3409350844612		Shady Dolc	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Temperature, water		16.5	deg C		Accepted		Actual							10																	NWIS
USGS-GA	USGS Geor	nwisga.01.97603238	Sample-Routine	Water	Groundwa	11/13/1975	8:00:00	EST				140	feet								USGS-3409350844612		Shady Dolc	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Hardness, Ca, Mg		130	mg/l CaCO3		Accepted		Actual							900																	NWIS
USGS-GA	USGS Geor	nwisga.01.97603238	Sample-Routine	Water	Groundwa	11/13/1975	8:00:00	EST				140	feet								USGS-3409350844612		Shady Dolc	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Hardness, non-carbonate	Total	2	mg/l CaCO3		Accepted		Actual							902																	NWIS
USGS-GA	USGS Geor	nwisga.01.97603238	Sample-Routine	Water	Groundwa	11/13/1975	8:00:00	EST				140	feet								USGS-3409350844612		Shady Dolc	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Calcium	Dissolved	27	mg/l		Accepted		Actual							915																	NWIS
USGS-GA	USGS Geor	nwisga.01.97603238	Sample-Routine	Water	Groundwa	11/13/1975	8:00:00	EST				140	feet								USGS-3409350844612		Shady Dolc	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Magnesium	Dissolved	15	mg/l		Accepted		Actual							925																	NWIS
USGS-GA	USGS Geor	nwisga.01.97603238	Sample-Routine	Water	Groundwa	11/13/1975	8:00:00	EST				140	feet								USGS-3409350844612		Shady Dolc	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Potassium	Dissolved	1.3	mg/l		Accepted		Actual							935																	NWIS
USGS-GA	USGS Geor	nwisga.01.97603238	Sample-Routine	Water	Groundwa	11/13/1975	8:00:00	EST				140	feet								USGS-3409350844612		Shady Dolc	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Sodium adsorption ratio [(Na)/(sq root of 1/2 Ca + Mg)]		0	None		Accepted		Actual							931																	NWIS
USGS-GA	USGS Geor	nwisga.01.97603238	Sample-Routine	Water	Groundwa	11/13/1975	8:00:00	EST				140	feet								USGS-3409350844612		Shady Dolc	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Sodium, percent total cations		1	%		Accepted		Actual							932																	NWIS
USGS-GA	USGS Geor	nwisga.01.97603238	Sample-Routine	Water	Groundwa	11/13/1975	8:00:00	EST				140	feet								USGS-3409350844612		Shady Dolc	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Sodium	Dissolved	0.8	mg/l		Accepted		Actual							930																	NWIS
USGS-GA	USGS Geor	nwisga.01.97603238	Sample-Routine	Water	Groundwa	11/13/1975	8:00:00	EST				140	feet								USGS-3409350844612		Shady Dolc	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Total dissolved solids	Dissolved	137	mg/l		Accepted		Actual							70301																	NWIS
USGS-GA	USGS Geor	nwisga.01.97603238	Sample-Routine	Water	Groundwa	11/13/1975	8:00:00	EST				140	feet								USGS-3409350844612		Shady Dolc	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Total dissolved solids	Dissolved	0.18	tons/ac ft		Accepted		Actual							70303																	NWIS
USGS-GA	USGS Geor	nwisga.01.97603238	Sample-Routine	Water	Groundwa	11/13/1975	8:00:00	EST				140	feet								USGS-3409350844612		Shady Dolc	Not detern	Routine sa	USGS	USGS	USGS	Unknown		Total dissolved solids	Dissolved	129	mg/l		Accepted		Actual			180 deg C				70300																	NWIS