

2020 Annual Groundwater Monitoring and Corrective Action Report

Georgia Power Company – Plant Arkwright
Ash Pond 3 Landfill and Monofill
Project No.: 6122201429

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CERTIFICATION STATEMENT

This 2020 Annual Groundwater Monitoring and Corrective Action Report, Georgia Power Company Plant Arkwright – Ash Pond 3 Landfill and Monofill has been prepared in compliance with Georgia Environmental Protection Division Rules for Solid Waste Management 391-3-4-.10 and 391-3-4-.14 under the supervision of a licensed professional engineer and a licensed professional geologist with Wood Environment & Infrastructure Solutions, Inc.



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



Nicholas J. McMillan, P.G.
Registered Professional Geologist
Georgia Registration No. 2308



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Date: 7/31/2020

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1.0 INTRODUCTION

In accordance with the Georgia Environmental Protection Division (GA EPD) Rules of Solid Waste Management 391-3-4-.10(6)(a)-(c) and 391-3-4-.14, this 2020 Annual Groundwater Monitoring and Corrective Action Report has been prepared to document groundwater monitoring activities conducted at Georgia Power Company's (GPC) former Plant Arkwright Ash Pond 3 Landfill and Monofill (AP-3). To specify groundwater monitoring requirements, GA EPD Rule 391-3-4-.10(6)(a) incorporates by reference the United States Environmental Protection Agency (US EPA) Coal Combustion Residuals (CCR) Rule 40 Code of Federal Regulations (CFR) § 257 Subpart D. For ease of reference, the US EPA CCR rules are cited within this report.

Groundwater monitoring and reporting for Plant Arkwright AP-3 Landfill and Monofill are performed in accordance with the monitoring requirements of § 257.90 through § 257.95 and the Georgia EPD Rule 391-3-4-.10(6)(a)-(c) and in accordance with EPD Rule 391-3-4-.14. This annual report documents the activities completed during the second half of 2019 and the first half of 2020 in accordance with EPD Rule 391-3-4-.10(6)(c). Two semi-annual monitoring events were conducted in October 2019 and April 2020 for assessment monitoring and were the semi-annual compliance monitoring events for the second half of 2019 and the first half of 2020.

1.1 Site Description and Background

The Plant Arkwright site (the Site) is located in Bibb County, Georgia approximately 6 miles northwest of the city of Macon. The CCR unit area comprises approximately 46 acres. The disposal facility was formally closed in 2010 with the issuance of a closure certificate by GA EPD. Post closure care has been performed in accordance with the GA EPD Permit No. 011-025D(LI) following closure. **Figure 1: Site Location Map**, depicts the site location relative to the surrounding area.

Plant Arkwright was retired in 2002 and decommissioned in 2003. The AP-3 Landfill was initially constructed as a surface impoundment prior to 1958 but did not receive CCR until the 1970s. The CCR unit was closed in 2010 in accordance with the solid waste landfill regulations specified by GA EPD 391-3-4, in effect at the time of its closure. Closure construction of AP-3 Landfill and Monofill utilized a geosynthetic clay liner (GCL) overlain by 18 inches of cover soil. A closure certificate was issued by GA EPD for AP-3 Landfill and Monofill on August 19, 2010. The Closure Certificate initiated the post-closure care period for the CCR unit.

AP-3 Landfill and Monofill is exempt from the requirements in 40 CFR Part 257 Subpart D – Standard for the Disposal of Coal Combustion Residuals in Landfills and Surface Impoundments in accordance with §257.50 (d) and (e), which states that the subpart does not apply to CCR landfills that have ceased receiving CCR prior to October 19, 2015. These CCR units are, however,

subject to the requirements of relevant portions of Georgia EPD 391-3-4-.10. The CCR unit referred to as AP-3 Landfill and Monofill is defined as an inactive CCR Landfill per Georgia Solid Waste Management Rule 391-3-4-.10(2)(a)(3).

Semi-annual groundwater monitoring at AP-3 Landfill and Monofill is performed for an approved list of analytes in accordance with the post-closure care period requirements of GA EPD Permit No: 011-025D(LI). A minor modification approved by GA EPD on August 9, 2017 added the Appendix III and IV sample parameters to the groundwater monitoring plan. To meet the requirements of GA EPD rule 391-3-4-.10, a permit application package for the Site was submitted to GA EPD in November 2018 and is currently under review.

1.2 Regional Geology & Hydrogeologic Setting

The geology and hydrogeology of the Plant Arkwright AP-3 Landfill and Monofill are summarized below. The Plant Arkwright site is located along the southern edge of the Washington Slope physiographic district within the Piedmont Physiographic Province (Watson, 1981; Clark and Zisa, 1976). The Washington Slope is characterized by a gently undulating surface which generally slopes to the south and southeast toward the Coastal Plain Physiographic Province located approximately 3.8 miles to the southeast of the site.

Topography of the Washington Slope ranges from approximately 700 feet above sea level in the areas of southern Atlanta and Athens to approximately 300 feet above sea level at its southern limit along the Georgia Fall Line. Streams follow the structure of underlying crystalline rocks eastward toward the Ocmulgee River. Relief throughout the district is between 50 and 100 feet with the greatest relief being along the Ocmulgee River with steep walled valleys with elevation changes between 150 – 200 feet (Watson, 1981; Clark and Zisa, 1976). Ultimately, all area surface water flow is directed toward the Ocmulgee River.

Bedrock in the region is composed of moderate- to high-grade metamorphic rocks, such as biotite-granite gneiss, schist, and amphibolite, and igneous rocks like granite. In the southernmost Piedmont, in the area of the site, bedrock is predominantly composed of biotite gneiss. Major geologic structures in the region include the Ocmulgee fault, located approximately 7 miles to the northwest of the site which strikes mostly northeast – southwest. The top of bedrock surface is highly weathered and where exposed is generally soft and friable (LeGrand, 1962). The site is generally composed of fine to medium sandy silt to silty sand underlain by silty sand saprolite. Borings performed in the earlier site investigations indicated extremely weathered quartz-feldspathic gneiss, hornblende gneiss and schist.

1.2.1 Site Geology

The general geology beneath AP-3 Landfill and Monofill consists of clays, silty and sandy clays, silty sands, sandy silts, and minor gravel at depth, underlain by silty sand saprolite and bedrock. Historic borings at the Site indicate bedrock occurs at depths ranging from approximately 14 feet to 63 feet below ground surface, and consists of weathered quartzofeldspathic gneiss, hornblende gneiss, and schist. Boring logs also indicate a relatively thin zone of partially weathered rock (PWR) above bedrock which ranges in thickness from 1 to 4 feet in the southern and eastern portions of the site, and up to 14 feet in the northeastern portion of the site.

1.2.2 Site Hydrogeology

Two main hydrostratigraphic units are present at the Site: the water table aquifer and the underlying bedrock aquifer. The water table aquifer is composed of the unconsolidated silty sands and sandy silts with clays and variable thicknesses of PWR mantling the bedrock surface. The water table aquifer is hydraulically connected to the underlying bedrock aquifer (Southern Company Services, 2005) and comprise the uppermost aquifer. The monitoring well network for AP-3 Landfill and Monofill monitors the water table aquifer and the upper weathered and fractured bedrock.

Slug testing data from the site reflect a range of hydraulic conductivities from 10^{-3} to 10^{-4} centimeters per second. Groundwater level monitoring data from the site show stable water level trends and the potentiometric maps reflect groundwater generally flowing to the south and southeast across AP-3 Landfill and Monofill.

1.3 Groundwater Monitoring System

Pursuant to § 257.91 and § 391-3-4-.10(6)(a), GPC installed a groundwater monitoring system within the uppermost aquifer at AP-3 Landfill and Monofill. The monitoring system is designed to monitor groundwater passing the waste boundary of AP-3 Landfill and Monofill within the uppermost aquifer. Wells were located to serve as upgradient and downgradient monitoring points based on groundwater flow direction (**Table 1A: Summary of Monitoring Well Network Well Construction**). The monitoring well locations are shown in **Figure 2: Monitoring Network Well Location Map**. The current monitoring well network at AP-3 Landfill and Monofill consists of 13 monitoring wells: upgradient wells ARGWA-3, ARGWA-5, ARGWA-12, ARGWA-13, and ARGWA-14, and downgradient wells ARGWC-7, ARGWC-8, ARGWC-9, ARGWC-10, ARGWC-15, ARGWC-16, ARGWC-17, and ARGWC-18. The groundwater monitoring network was included in the 2008 Design and Operation Plans approved by GA EPD in 2010. Three Piezometers (ARAMW-3, ARAMW-4, and ARAMW-6) were also installed at AP-3 Landfill and Monofill in November 2019 (**Table 1B: Summary of Piezometer Construction**).

2.0 GROUNDWATER MONITORING ACTIVITIES

As required by § 257.90(e), the following describes monitoring-related activities performed during the August 2019 initial assessment event, October 2019, and April 2020 semi-annual assessment compliance monitoring events during the second half of 2019 and first half of the 2020 calendar years. The groundwater sampling was performed in accordance with § 257.93. Samples were collected from each of the 13 groundwater monitoring network wells in August 2019, October 2019 and in April 2020 as shown on **Figure 2**.

Based on results of the March 2019 sampling event, assessment monitoring was initiated under EPD Rule 391-3-4-.10(6) at the site. **Table 2: Groundwater Sampling Event Summary**, presents a summary of groundwater sampling events completed at the Site from the first background event in 2016 through the first half of 2020. The initial detection monitoring event was conducted in March 2019.

During the initial assessment monitoring event in August 2019, groundwater samples were collected and analyzed for the full suite of Appendix IV constituents to meet the requirements of §257.95(b). During the subsequent semi-annual assessment monitoring event in October 2019, groundwater samples were collected for (1) Appendix III constituents, (2) the Appendix IV constituents detected during the August event, and (3) the state-specific list of Appendix I metals specified in the permit. Samples collected during the April 2020 semi-annual assessment monitoring event were analyzed for the full suite of Appendix III and Appendix IV constituents. A resampling of monitoring network well ARGWC-10 was conducted on May 27, 2020 to verify the April 2020 lead concentration.

2.1 Monitoring Well Installation and Maintenance

Monitoring well-related activities conducted during the period included the following:

- Visual inspection of well conditions prior to sampling, recording the Site conditions, and performing exterior maintenance to perform sampling under safe and clean conditions.
- The Site monitoring network wells and additional wells were re-surveyed for top of casing elevations and horizontal location in June 2020 to confirm the top of casing elevations.
- Installation of three piezometers: ARAMW-3 ARAMW4, and ARAMW-6 for characterization of groundwater quality downgradient of AP-3. The well installations are documented in **Appendix A: Well Installation Reports**.

2.2 Detection Monitoring Program

In accordance with § 257.94(b), the detection groundwater monitoring program was implemented by collecting 8 background groundwater samples. The initial detection monitoring event was performed in March 2019. Groundwater samples were collected from each monitoring well and analyzed for Appendix III constituents according to § 257.94(a). The background study and the initial detection monitoring event were documented in the *2019 First Semiannual Groundwater Monitoring Report*.

2.3 Assessment Monitoring

Statistically Significant Increases (SSI) of Appendix III constituents were identified in the initial detection monitoring event (March 2019). A notice of assessment monitoring was placed in the operation record on November 13, 2019. Pursuant to § 257.94(e)(1), GPC implemented assessment monitoring in accordance with § 257.95. The initial assessment monitoring event was conducted August 19 to 21, 2019. Subsequently, two semi-annual monitoring events were performed in October 2019 and April 2020. The October 2019 event samples were analyzed for Appendix III constituents and those Appendix IV constituents detected during the initial assessment monitoring event in August 2019. The April 2020 event samples were analyzed for Appendix III and the full suite of Appendix IV constituents. Data reports for the August 2019, October 2019 and April 2020 assessment monitoring events are included in **Appendix B: Field Sampling Logs and Analytical Data Reports for August and October 2019 and April 2020**.

3.0 SAMPLE METHODOLOGY & ANALYSES

The following sections describe the methods used to complete groundwater monitoring at Plant Arkwright AP-3 Landfill and Monofill.

3.1 Groundwater Elevation Measurements and Flow Direction

Prior to each sampling event, groundwater elevations were recorded from each well in the network for Plant Arkwright AP-3 Landfill and Monofill. Groundwater elevations recorded during the initial assessment and semi-annual monitoring events are summarized in **Table 3: Summary of Groundwater Elevations**. Groundwater elevation data from the monitoring events were used to develop potentiometric surface elevation contour maps (**Figure 3: Potentiometric Surface – August 2019**, and **Figure 4: Potentiometric Surface – October 2019**, and **Figure 5: Potentiometric Surface – April 2020**). Groundwater flow in the uppermost aquifer (**Figures 3 through 5**) is to the south and southeast. The groundwater flow pattern observed during the August and October 2019 and April 2020 monitoring events are consistent with historical patterns with groundwater elevations at each of the wells maintaining a similar trend over time as can be seen in **Table 3: Summary of Groundwater Elevations**.

3.2 Groundwater Gradient and Flow Velocity

The groundwater flow velocity at Plant Arkwright AP-3 Landfill and Monofill was calculated using a derivation of Darcy's Law. Specifically,

$$V = \frac{K * i}{n_e} \quad \text{Where:}$$

$V =$ Groundwater flow velocity $\left(\frac{\text{feet}}{\text{day}}\right)$
 $K =$ Average hydraulic conductivity of the aquifer $\left(\frac{\text{feet}}{\text{day}}\right)$
 $i =$ Horizontal hydraulic gradient $\left(\frac{\text{feet}}{\text{feet}}\right)$
 $n_e =$ Effective porosity

The general groundwater flow velocity was calculated for the site based on hydraulic gradients, average permeability based on previous slug test data, and an estimated effective porosity of 0.20 (based on a review of several sources, including Driscoll, 1986; US EPA, 1989; Freeze and Cherry, 1979). The general groundwater flow velocity calculation is presented in **Table 4: Groundwater Flow Velocity Calculations – August and October 2019 and April 2020**. Results for groundwater flow velocities were 0.11 feet/day (41.1 feet/year) in August 2019 and 0.12 feet/day (42.6 feet/year) for both October 2019 and April 2020.



3.3 Groundwater Sampling

Groundwater samples were collected for the August 2019, October 2019, and April 2020 assessment monitoring events in accordance with § 257.95(b) and (d). Each of the monitoring wells at the Site is equipped with a dedicated QED bladder pump. The monitoring wells were purged and sampled using low-flow sampling procedures. 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). A SmarTroll (In-Situ field instrument) was used to monitor and record field water quality parameters (pH, conductivity, dissolved oxygen, temperature, and ORP) and a Hach 2100Q was used to measure turbidity during well purging to verify stabilization prior to sampling. Groundwater samples were collected when the following stabilization criteria were met:

- pH \pm 0.1 Standard Units (S.U.);
- Specific conductance \pm 5%;
- 10% for DO > 0.5 mg/l. No criterion applies if DO < 0.5 mg/L.
- Turbidity measurements less than 5 NTU
- Temperature – Record only, not used for stabilization criteria
- ORP – Record only, not used for stabilization criteria

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 Eurofins TestAmerica Laboratories, Inc. (Eurofins) of Pittsburgh, Pennsylvania, and St. Louis, Missouri following chain-of-custody protocol. Stabilization logs for each well during each monitoring event are included in **Appendix B**.

3.4 Laboratory Analyses

Groundwater samples collected in the October 2019 and April 2020 semi-annual monitoring events were analyzed for the Appendix III constituents. The October 2019 samples were analyzed for those Appendix IV constituents detected in the initial assessment monitoring event (August 2019). Mercury was not detected in the groundwater samples collected during the initial assessment monitoring event and was, therefore, not analyzed during the subsequent semi-annual event (October 2019) in accordance with § 257.95(d)(1). The full Appendix IV constituent suite was analyzed during the April 2020 semi-annual event. Analytical methods used for groundwater sample analysis are listed on the analytical laboratory reports included in **Appendix B**.

Laboratory analyses were performed by Eurofins TestAmerica. is accredited by National Environmental Laboratory Accreditation Program (NELAP) and maintain a NELAP certification for all constituents analyzed for this project. In addition, Eurofins TestAmerica is certified to perform analysis by the State of Georgia.

3.5 Quality Assurance & Quality Control

The analytical results provided in **Table 5: Analytical Data Summary – August and October 2019 and April 2020** provide concentrations from the August and October 2019 and April 2020 assessment sampling events as reported by the laboratory. During each sampling event, quality assurance/quality control (QA/QC) samples are collected at a rate of one QA/QC sample per 10 groundwater assessment samples. Equipment blanks (where non-dedicated sampling equipment is used) and duplicated samples were collected during each sampling event. QA/QC sample data were evaluated during data validation and are included in **Appendix B**.

When values are followed by a "J" flag, this indicates that the value is an estimated analyte concentration detected between the method detection limit (MDL) and the laboratory reporting limit (PQL). The estimated value is positively identified but is below lowest level that can be reliably achieved within specified limits of precision and accuracy under routine laboratory operating conditions.

Quality control procedures included calculating the relative percent difference (RPD) between sample and sample duplicate concentrations. This is calculated as:

$$RPD = \frac{Conc\ 1 - Conc\ 2}{(Conc\ 1 + Conc\ 2) / 2}$$

Where:

RPD = Relative Percent Difference (%)

Conc1 = Higher concentration of the sample or field duplicate

Conc2 = Lower concentration of the sample or field duplicate

The RPD calculations are provided in **Table 6: RPD Calculations** for detected concentrations above the PQL for wells and corresponding duplicates for the August and October 2019 and April 2020 assessment events. Other constituents were below the PQL. For an RPD to be representative of the process, the concentrations have to be five times the PQL in accordance with US EPA guidance on inorganic data review, (US EPA August 2014). The RPD values of concentrations five times the PQL ranged within the allowable 20% RPD indicating good sampling precision.

4.0 STATISTICAL ANALYSIS

The Site has initiated assessment monitoring. Statistical analysis of Appendix III groundwater monitoring data was performed on samples collected from the groundwater monitoring network pursuant to § 257.93(f) and following the statistical analysis plan. The statistical analysis method used at the site was developed by Groundwater Stats Consulting, LLC (GSC) in accordance with § 257.93(f) using methodology presented in Statistical Analysis of Groundwater Data at RCRA Facilities, Unified Guidance, March 2009, EPA 530/R-09-007 (US EPA, 2009). To develop the statistical method, analytical data collected during the background period were evaluated and used to develop statistical limits for each Appendix III constituent. Subsequent detection monitoring results were compared to the statistical limits to determine if concentrations were statistically different from background.

Pursuant to § 257.95(d)(2), GPC established groundwater protection standards for the Appendix IV monitoring constituents and conducted statistical analysis of the Appendix IV groundwater monitoring data obtained during the October 2019 and the April 2020 semi-annual assessment monitoring events to evaluate if concentrations statistically exceeded the established state groundwater protection standards (GWPS). The following subsections provide an overview of the statistical methods used to evaluate Appendix III and IV parameters and statistical analyses results.

4.1 Statistical Method

Sanitas groundwater statistical software was used to perform the statistical analyses at the Site following the October 2019 semi-annual assessment monitoring event and again following the April 2020 semi-annual assessment monitoring event. Sanitas is a commercially available decision support software package that incorporates the statistical tests required of Subtitle C and D facilities by US EPA regulations and guidance as recommended in the Unified Guidance (US EPA, 2009) document. The Interwell method was used for the analysis of the Appendix III constituents. Confidence intervals were calculated for each of the detected Appendix IV parameters in each downgradient well. The following table provides a summary of the statistical methodology used at AP-3 Landfill and Monofill for the monitoring events conducted in October 2019 and in April 2020 and will be used for routine monitoring in the future. Specific methodology information is described in **Table 7** and in the following paragraphs.

Table 7: Statistical Method Summary

Statistical Methodology	Data Screening on Proposed Background	Evaluate outliers, trends, and seasonality when sufficient data are available
	Statistical Limits	Interwell statistical limits will be applied on a parameter basis, depending on the appropriateness of the method as determined by the Analysis of Variance.
	Prediction Limits	<p>Parametric when data follow a normal or transformed normal distribution and when less than 50% non-detects, utilizing Kaplan Meier non-detect adjustment when applicable.</p> <p>Nonparametric when data sets contain greater than 50% non-detects or when data are not normally or transformed-normally distributed.</p>
	Management of Non-Detects	<p>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.</p> <p>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.</p>
	Confidence Intervals	Used in Assessment and Corrective Action monitoring.
	No Statistical Testing	Statistical testing is not required for parameters containing 100% non-detects (US EPA Unified Guidance, 2009, Chapter 6).
	Verification Resample Plan	Optional 1-of-2 with minimum of 8 samples per well for interwell testing.
	Optional	<ul style="list-style-type: none"> ▪ Initial statistical exceedance warrants optional independent resampling within 90 days. ▪ If resample passes, well/parameter is not a confirmed statistically significant increase (SSI). ▪ If resample exceeds, well/parameter has a confirmed SSI. ▪ If no resample is collected, the original result is deemed verified.

4.1.1 Appendix III Statistical Method

When using the interwell method, upgradient well data are pooled to establish a background statistical limit for each constituent. Appendix III data from the October 2019 monitoring event



and April 2020 monitoring event were compared to the statistical limit to determine whether downgradient well concentrations exceed background statistical limits. The interwell statistical method uses an optional 1-of-2 verification resample plan. When an initial statistically significant increase (SSI) or questionable result occurs, a second sample may be collected to verify the initial result or determine if the result was an outlier. Interwell prediction limits (PL) were used for the following locations and constituents:

- AP-3 Landfill and Monofill: Interwell statistical methods were used for boron, calcium, chloride, fluoride, sulfate, Total Dissolved Solids (TDS), and pH.

Data from groundwater samples from downgradient wells collected in the October 2019 and April 2020 detection monitoring events were compared to the statistical limits to evaluate whether concentrations exceed background statistical limits.

If data from a sampling event initially exceeds the PL, an optional resampling strategy can be used to verify the result. In 1-of-2 resampling, one independent resample is collected and evaluated within 90 days to determine whether the initial exceedance is verified. If the resample exceeds the PL, the initial exceedance is verified, and an 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 a resampling result, the resampled value will replace the initial finding. When the resample confirms the initial finding, the exceedance will be reported.

4.1.2 Appendix IV Statistical Method

The assessment monitoring program statistics for Appendix IV constituents at Plant Arkwright were conducted in two parts. The first part was the calculation of tolerance limits for site-specific background limits for Appendix IV constituents. The second part was the calculation of confidence limits for individual downgradient well/constituent pairs.

Non-parametric Interwell tolerance limits were used to calculate the site-specific background limits from pooled upgradient well data for Appendix IV constituents. Parametric tolerance limits are used when data follow a normal or transformed-normal distribution such as for radium. When data contained greater than 50% nondetects or did not follow a normal or transformed-normal distribution, non-parametric tolerance limits were used. The background limits were then used when determining the groundwater protection standard (GWPS) under 40 CFR § 257.95(h) and Georgia EPD Rule 391-3-4-.10(6)(a).

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

- The maximum contaminant level (MCL) established under §141.62 and §141.66 of this title

- Where an MCL has not been established for a constituent, CCR-rule specified level (RSLs) have been specified for cobalt (0.006 mg/L), lead (0.015 mg/L), lithium (0.04 mg/L), and molybdenum (0.1 mg/L)
- The respective background level for a constituent when the background level is higher than the MCL or Federal CCR Rule identified GWPS

On July 30, 2018, USEPA revised the Federal CCR rule updating GWPS for cobalt, lead, lithium, and molybdenum as described above in 40 CFR § 257.95(h)(2). Georgia EPD has not incorporated the updated GWPS into the current Georgia EPD Rules for Solid Waste Management 391-3-4-.10(6)(a); therefore, for sites regulated under Georgia EPD Rules, the GWPS is:

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

Following the above Georgia EPD Rule requirements, GWPS were established for statistical comparison of Appendix IV constituents for the October 2019 and April 2020 sample event. **Table 8: Summary of Groundwater Protection Standards** summarizes the background limits established for each Appendix IV constituent and the GWPS established under Georgia EPD Rules.

To complete the statistical comparison to GWPS, confidence intervals were constructed for each of the Appendix IV constituents in each downgradient well. The Sanitas software was used to calculate the tolerance limits and the confidence intervals. Those confidence intervals were compared to the GWPS established using the Georgia EPD Rules 391-3-4-.10(6)(a). Only when the entire confidence interval is above a GWPS is the downgradient well/constituent pair considered to exceed its respective standard. If there is an exceedance of the GWPS, a statistically significant level (SSL) exceedance is identified.

4.2 Statistical Analyses Results – Appendix I and Appendix III

Analytical data for Appendix I and Appendix III constituents from the October 2019 and April 2020 semi-annual monitoring events were analyzed in accordance with the statistical analysis plan. The statistical analysis and comparison to prediction limits are included as **Appendix C: Statistical Analysis**.

4.3 Statistical Analyses - Appendix IV

Appendix C: Statistical Analyses shows the individual well/constituent pairs with their respective confidence intervals in comparison to the respective constituent state derived site GWPS. Based on the statistical results presented in **Appendix C, Table 9A: Statistical Analysis Results**

Summary Appendix IV October 2019 summarizes the SSLs identified during the October 2019 semi-annual monitoring event. The SSLs identified in April 2020 data are similar to the October 2019 SSLs and are summarized in **Table 9B: Statistical Analysis Results Summary Appendix IV April 2019**.

Table 9A: Statistical Analysis Results Summary Appendix IV October 2019

<u>Constituent</u>	<u>Wells with Concentrations Above Confidence Intervals</u>
Cobalt	ARGWC-17
Molybdenum	ARGWC-8

Table 9B: Statistical Analysis Results Summary Appendix IV April 2020

<u>Constituent</u>	<u>Wells with Concentrations Above Confidence Interval</u>
Cobalt	ARGWC-17
Molybdenum	ARGWC-8

Well ARGWC-10 was resampled in May 2020 to verify the concentration of lead (0.031 mg/L) obtained in the April 2020 sampling event. The resample data for lead showed a concentration of 0.00014 J mg/L, which is consistent with historical lead concentrations in this well. Therefore, no further action is needed to address the concentration of lead in this well.



5.0 MONITORING PROGRAM STATUS

Pursuant to 40 CFR 257.96(b), GPC will continue to monitor the groundwater at the Plant Arkwright AP-3 Landfill and Monofill in accordance with the assessment monitoring program regulations of 40 CFR 257.95. GPC initiated an Assessment of Corrective (ACM) Measure on July 9, 2020. An alternate source demonstration (ASD) is being evaluated to address the exceedances of confidence intervals for cobalt and molybdenum in groundwater at the site concurrently with the initiation of an ACM for cobalt and molybdenum at the site.

6.0 CONCLUSIONS & FUTURE ACTIONS

GPC has initiated assessment monitoring pursuant to § 257.95 at Plant Arkwright AP-3 Landfill and Monofill. An ASD will be evaluated to address the exceedances of cobalt and molybdenum. During the next semi-annual reporting period of 2020, GPC will update the groundwater protection standards for Appendix IV constituents and conduct statistical analysis according to the regulations. The next semi-annual sampling event is tentatively planned for August 2020.

7.0 REFERENCES

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

LeGrand, H. E. 1962, *Geology and Ground-water Resources of the Macon Area, Georgia*. The Geological Survey Bulletin No. 72.

Southern Company Services, Inc., 2005, Plant Arkwright Ash Ponds 2 and 3 and Ash Monofill Site Acceptability Report, Revision 1.

Sanitas: Groundwater Statistical Software, Sanitas Technologies, Shawnee, KS, 2007. www.sanitastech.com

U.S. Environmental Protection Agency (US EPA), 1989. *US EPA 530/SW-89-031 Interim Final RCRA Investigation (RFI) Guidance, Volume I and II*.

US EPA, 1993. *Subpart E, Groundwater Monitoring and Corrective Action, in Chapter 5, Solid Waste Disposal Facility Criteria Technical Manual. EA530-R-93-017*.

US EPA, 2000. *Guidance for Data Quality Assessment: Practical Methods for data analysis; US EPA QA/G-9, QA00 Update. Environmental Protection Agency report US EPA/600/R-96/084, Office of Environmental Information, Washington, D.C.*

US EPA, March 2009. *Unified Guidance, Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities. Office of Solid Waste Management Division, U.S. Environmental Protection Agency, Washington, D. C.*

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

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

US EPA. 2015. *Federal Register. Volume 80. No. 74. Friday April 17, 2015. Part II. Environmental Protection Agency. 40 CFR Parts 257 and 261. Hazardous and Solid Waste Management System; Disposal of Coal Combustion Residuals from Electric Utilities; Final Rule. [EPA-HQ-RCRA-2009-0640; FRL-9919-44-OSWER]. RIN-2050-AE81. April.*

US EPA. 2017. *National Functional Guidelines for Inorganic Superfund Methods Data. Office of Superfund Remediation and Technology Innovation. OLEM 9355.0-135 [EPA-540-R-2017-001]. Washington, DC. January.*

TABLES

**TABLE 1A
SUMMARY OF MONITORING WELL NETWORK WELL CONSTRUCTION**

Well	Northing ⁽¹⁾	Easting ⁽¹⁾	Top of Casing Elevation (feet above MSL) ⁽²⁾ (Prior to June 2020 Resurvey)	Top of Casing Elevation (feet above MSL) ⁽²⁾ (June 2020 Resurvey)	Ground Surface Elevation (feet above MSL)	Top of Screen Elevation (feet above MSL)	Screen Bottom Elevation (feet above MSL)	Screen Length (feet)	Total Well Depth on Construction Log (ft below land surface)	Total Well Depth Measured June 22, 2016 (feet below TOC) ⁽³⁾	Water Bearing Zone Screened	Location
ARGWA-3	1066899.39	2437431.05	388.61	388.33	386.53	356.2	346.2	10.0	40.5	42.3	Overburden	Upgradient
ARGWA-5	1066885.12	2437209.22	376.45	376.15	373.51	353.8	343.8	10.0	30.0	33.1	Overburden	Upgradient
ARGWA-12	1067003.79	2436788.45	372.56	372.72	369.27	349.2	337.2	12.0	32.3	32.4	Bedrock	Upgradient
ARGWA-13	1065951.25	2438129.93	371.81	371.57	368.10	337.7	327.7	10.0	40.7	43.3	Bedrock	Upgradient
ARGWA-14	1066023.70	2438384.80	388.16	388.25	384.94	339.3	329.3	10.0	56.0	58.2	Bedrock	Upgradient
ARGWC-7	1064410.59	2438355.19	352.25	352.42	348.97	314.2	304.2	10.0	46.5	48.3	Overburden	Downgradient
ARGWC-8	1064521.98	2437572.92	355.70	355.53	352.19	322.6	312.6	10.0	40.5	43.2	Overburden	Downgradient
ARGWC-9	1065139.64	2437297.96	367.38	367.07	363.44	338.6	328.6	10.0	36.5	38.1	Overburden	Downgradient
ARGWC-10	1065419.44	2437192.51	370.87	370.67	367.56	342.6	332.6	10.0	41.5	38.4	Overburden	Downgradient
ARGWC-15	1065475.43	2438360.90	375.90	375.64	371.76	342.1	332.1	10.0	40.0	42.4	Bedrock	Downgradient
ARGWC-16	1065263.69	2438174.15	365.21	364.90	361.52	340.2	330.2	10.0	31.6	34.5	Bedrock	Downgradient
ARGWC-17	1065458.82	2438009.52	368.52	368.24	365.04	344.5	334.5	10.0	30.9	33.9	Overburden	Downgradient
ARGWC-18	1064482.45	2437961.15	354.99	355.20	351.92	314.1	304.1	10.0	48.1	50.7	Overburden	Downgradient

- Notes:
1. Horizontal locations referenced to Georgia State Plane West, North American Datum of 1983 surveyed in June 2020.
 2. MSL indicates feet above mean sea level and referenced to North American Vertical Datum of 1988
 3. Elevations based on June 2020 survey.
 4. TOC indicates top of casing.

**TABLE 1B
SUMMARY OF PIEZOMETER CONSTRUCTION**

Well	Northing ⁽¹⁾	Easting ⁽¹⁾	Top of Casing Elevation (feet above MSL) ⁽²⁾ (Prior to June	Top of Casing Elevation (feet above MSL) ⁽²⁾ (June 2020	Ground Surface Elevation (feet above MSL)	Top of Screen Elevation (feet above MSL)	Screen Bottom Elevation (feet above MSL)	Screen Length (feet)	Total Well Depth on Construction Log (feet below land surface)	Total Well Depth Measured January 15, 2020 (feet below TOC) ⁽³⁾	Water Bearing Zone Screened	Location
ARAMW-3	1064530.73	2437569.81	355.35	355.39	352.20	298.2	288.2	10.0	64.0	68.90	Overburden	Downgradient
ARAMW-4	1065463.83	2438004.43	367.61	367.86	364.56	320.6	310.6	10.0	54.0	57.70	Overburden	Downgradient
ARAMW-6	1064439.35	2437606.99	337.34	337.46	334.23	314.2	304.2	10.0	30.0	32.37	Bedrock	Downgradient

Notes:

1. Horizontal locations referenced to Georgia State Plane West, North American Datum of 1983.
2. MSL indicates feet above mean sea level and referenced to North American Vertical Datum of 1988
3. Elevations based on June 2020 survey.
4. TOC indicates top of casing.
5. ARAMW-3, ARAMW-4, and ARAMW-6 were installed in November 2019.

**TABLE 2
GROUNDWATER SAMPLING EVENT SUMMARY**

Well ID	Hydraulic Location	Summary of Sampling Events												Status of Monitoring Well	
		August 29 - September 2, 2016	October 24-26, 2016	January 23-27, 2017	April 10 - 12, 2017	June 19-22, 017	October 24 - 26, 2017	April 9-11, 2018	October 16 - 17, 2018	March 26-29, 2019	August 19 - 21, 2019	October 7 - 9, 2019	April 7 - 9, 2020		May 27, 2020
ASH POND #3 MONITORING WELL NETWORK															
ARGWA-3	Upgradient	BG01	BG02	BG03	BG04	BG05	BG06	BG07	BG08	D01	Initial	A01	A02		Assessment Monitoring
ARGWA-5	Upgradient	BG01	BG02	BG03	BG04	BG05	BG06	BG07	BG08	D01	Initial	A01	A02		Assessment Monitoring
ARGWA-12	Upgradient	BG01	BG02	BG03	BG04	BG05	BG06	BG07	BG08	D01	Initial	A01	A02		Assessment Monitoring
ARGWA-13	Upgradient	BG01	BG02	BG03	BG04	BG05	BG06	BG07	BG08	D01	Initial	A01	A02		Assessment Monitoring
ARGWA-14	Upgradient	BG01	BG02	BG03	BG04	BG05	BG06	BG07	BG08	D01	Initial	A01	A02		Assessment Monitoring
ARGWC-7	Downgradient	BG01	BG02	BG03	BG04	BG05	BG06	BG07	BG08	D01	Initial	A01	A02		Assessment Monitoring
ARGWC-8	Downgradient	BG01	BG02	BG03	BG04	BG05	BG06	BG07	BG08	D01	Initial	A01	A02		Assessment Monitoring
ARGWC-9	Downgradient	BG01	BG02	BG03	BG04	BG05	BG06	BG07	BG08	D01	Initial	A01	A02		Assessment Monitoring
ARGWC-10	Downgradient	BG01	BG02	BG03	BG04	BG05	BG06	BG07	BG08	D01	Initial	A01	A02	Verification - Pb	Assessment Monitoring
ARGWC-15	Downgradient	BG01	BG02	BG03	BG04	BG05	BG06	BG07	BG08	D01	Initial	A01	A02		Assessment Monitoring
ARGWC-16	Downgradient	BG01	BG02	BG03	BG04	BG05	BG06	BG07	BG08	D01	Initial	A01	A02		Assessment Monitoring
ARGWC-17	Downgradient	BG01	BG02	BG03	BG04	BG05	BG06	BG07	BG08	D01	Initial	A01	A02		Assessment Monitoring
ARGWC-18	Downgradient	BG01	BG02	BG03	BG04	BG05	BG06	BG07	BG08	D01	Initial	A01	A02		Assessment Monitoring

Notes:

- BGXX - Background Event and Number
- DXX - Detection Event Number
- Initial - Initial Assessment Screening Event
- AXX - Assessment Event Number
- Pb - lead

**Table 3
Summary of Groundwater Elevations**

Well ID	Top of Casing Elevation (feet above MSL) (Prior to June 2020 Resurvey)	8/19/2019 (Event #10)*	10/7/2019 (Event #11)*	Top of Casing Elevation (feet above MSL) (June 2020 Resurvey TOC Elevations)	Difference Between Surveyed TOC Elevations (feet)	4/6/2020 (Event #12)*	4/6/2020 (Event #12)**
ARGWA-3	388.61	352.59	352.31	388.33	-0.28	354.61	354.33
ARGWA-5	376.45	352.56	352.29	376.15	-0.30	354.75	354.45
ARGWC-7	352.25	327.35	325.45	352.42	0.17	332.06	332.23
ARGWC-8	355.70	329.73	329.06	355.53	-0.17	330.95	330.78
ARGWC-9	367.38	344.99	344.32	367.07	-0.31	348.70	348.39
ARGWC-10	370.87	348.10	345.34	370.67	-0.20	351.60	351.40
ARGWA-12	372.56	355.92	355.54	372.72	0.16	358.67	358.83
ARGWA-13	371.81	346.87	345.54	371.57	-0.24	350.53	350.29
ARGWA-14	388.16	345.04	343.46	388.25	0.09	347.06	347.15
ARGWC-15	375.90	346.59	345.25	375.64	-0.26	348.62	348.36
ARGWC-16	365.21	343.87	342.19	364.90	-0.31	346.04	345.73
ARGWC-17	368.52	345.89	345.37	368.24	-0.28	347.65	347.37
ARGWC-18	354.99	326.58	325.31	355.20	0.21	327.81	328.02

Notes:

1. All elevations are presented in feet relative to mean sea level.
 2. Groundwater elevations were measured as depth to water from the top of casing.
- * Events #10, #11, and #12 groundwater elevations calculated using TOC elevations surveyed prior to June 2020
- ** Event #12 groundwater elevations calculated using TOC elevations surveyed in June 2020

TABLE 4
GROUNDWATER FLOW VELOCITY CALCULATIONS - AUGUST and OCTOBER 2019 and APRIL 2020

Potentiometric Map Date	Water-Bearing Zone	Location	Groundwater Elevations in Well Pairs (h ₁ , h ₂) (feet)		Change in Elevation (Δh) (feet)	Distance Measured (L) (feet)	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)
August 2019	Water Table Aquifer	ARGWC-5 to ARGWC-18	352.56	326.58	25.98	2517	0.010	2.18	0.2	0.11	41.1
October 2019	Water Table Aquifer	ARGWC-5 to ARGWC-18	352.29	325.31	26.98	2517	0.011	2.18	0.2	0.12	42.6
April 2020	Water Table Aquifer	ARGWC-5 to ARGWC-18	354.75	327.81	26.94	2517	0.011	2.18	0.2	0.12	42.6

TABLE 5
ANALYTICAL DATA SUMMARY -
AUGUST AND OCTOBER 2019 AND APRIL 2020

Substance		Well ID					
		ARGWA-3	ARGWA-3	ARGWA-3	ARGWA-5	ARGWA-5	ARGWA-5
		8/20/2019	10/08/2019	4/7/2020	8/20/2019	10/08/2019	4/7/2020
APPENDIX III	Boron	NA	<0.039	<0.039	NA	<0.039	<0.039
	Calcium	NA	6.0	5.5	NA	5.9	4.0
	Chloride	NA	2.6	2.9	NA	5.7	3.7
	Fluoride	0.053 J	0.056 J	0.098 J	0.047 J	0.050 J	0.072 J
	Sulfate	NA	0.70 J	0.67 J	NA	0.70 J	<0.38
	TDS	NA	66	64	NA	68	65
	pH	5.83	5.96	5.90	5.80	5.93	5.86
APPENDIX IV	Antimony	<0.00038	<0.00038	<0.00038	<0.00038	<0.00038	<0.00038
	Arsenic	0.00045 J	<0.00032	<0.00031	0.00058 J	<0.00032	<0.00031
	Barium	0.020	0.020	0.018	0.029	0.030	0.020
	Beryllium	0.00025 J	<0.00018	<0.00018	0.00035 J	0.00041 J	<0.00018
	Cadmium	0.00014 J	<0.00013	<0.00022	<0.00013	<0.00013	<0.00022
	Chromium	0.0039	0.0031	0.0023	0.0032	<0.0015	<0.0015
	Cobalt	0.00018 J	<0.000075	<0.00013	0.00012 J	<0.000075	0.00014 J
	Lead	0.00014 J	0.0010	<0.00013	0.00014 J	0.00016 J	<0.00013
	Lithium	<0.0034	0.0047 J	<0.0034	<0.0034	0.0055	<0.0034
	Mercury	<0.00010	NA	0.00016 J	<0.00010	NA	<0.00010
	Molybdenum	<0.00061	<0.00061	<0.00061	<0.00061	<0.00061	<0.00061
	Radium	0.352 U	0.419 U	0.0354 U	-0.0925 U	0.348 U	0.198 U
	Selenium	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015
Thallium	0.00020 J	<0.00015	<0.00015	0.00023 J	<0.00015	0.00015 J	
*	Silver	NA	0.00019 J	<0.00018	NA	0.00030 J	<0.00018

Notes:

1. Results for substances are reported in milligrams per liter (mg/L). Radium results are reported in picocuries per liter (pCi/L).
2. < indicates the substance was not detected above the relevant laboratory method detection limit (MDL).
3. J indicates the substance was detected at such low levels that the precision of the laboratory instrument could not produce a reliable value. Therefore, the value displayed (value J) is qualified by the laboratory as an estimated value.
4. TDS indicates total dissolved solids.
5. U indicates the substance was detected below the Minimum Detection Concentration (MDC) and the precision of the laboratory instruments could not produce a reliable value. Therefore, the value followed by U is qualified by the laboratory as estimated.
6. Appendix III = indicator parameters evaluated during Detection Monitoring; Appendix IV = parameters evaluated during Assessment Monitoring.
7. * - Georgia Appendix I constituent that is not also included in Appendix IV.
8. NA indicates constituent was not analyzed.

TABLE 5
ANALYTICAL DATA SUMMARY -
AUGUST AND OCTOBER 2019 AND APRIL 2020

Substance		Well ID					
		ARGWA-12	ARGWA-12	ARGWA-12	ARGWA-13	ARGWA-13	ARGWA-13
		8/20/2019	10/08/2019	4/7/2020	8/19/2019	10/08/2019	4/7/2020
APPENDIX III	Boron	NA	<0.039	<0.039	NA	0.68	0.23
	Calcium	NA	13	12	NA	190	61
	Chloride	NA	64	11	NA	6.7	3.8
	Fluoride	0.049 J	0.27 J	0.082 J	<0.026	0.033 J	0.086 J
	Sulfate	NA	55	8.0	NA	950	270
	TDS	NA	130	120	NA	1500	480
	pH	5.89	5.93	5.91	5.59	5.74	5.84
APPENDIX IV	Antimony	<0.00038	<0.00038	<0.00038	<0.00038	<0.00038	<0.00038
	Arsenic	0.00046 J	<0.00032	<0.00031	0.00045 J	<0.00032	<0.00031
	Barium	0.075	0.078	0.066	0.035	0.042	0.021
	Beryllium	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018
	Cadmium	<0.00013	<0.00013	<0.00022	<0.00013	<0.00013	<0.00022
	Chromium	0.0026	<0.0015	0.0015 J	0.0016 J	<0.0015	<0.0015
	Cobalt	0.00019 J	<0.000075	0.00029 J	0.00029 J	0.00011 J	<0.00013
	Lead	<0.00013	<0.00013	<0.00013	<0.00013	0.00013 J	<0.00013
	Lithium	0.0053	0.0078	0.0036 J	0.0058	0.0099	0.0036 J
	Mercury	<0.00010	NA	<0.00010	<0.00010	NA	<0.00010
	Molybdenum	<0.00061	<0.00061	<0.00061	<0.00061	<0.00061	<0.00061
	Radium	0.759	0.760	0.622	0.204 U	0.398 U	-0.0414 U
	Selenium	<0.0015	<0.0015	<0.0015	0.034	0.030	0.0094
Thallium	<0.00015	<0.00015	<0.00015	<0.00015	<0.00015	<0.00015	
* Silver	NA	<0.00018	<0.00018	NA	0.00047 J	<0.00018	

Notes:

1. Results for substances are reported in milligrams per liter (mg/L). Radium results are reported in picocuries per liter (pCi/L).
2. < indicates the substance was not detected above the relevant laboratory method detection limit (MDL).
3. J indicates the substance was detected at such low levels that the precision of the laboratory instrument could not produce a reliable value. Therefore, the value displayed (value J) is qualified by the laboratory as an estimated value.
4. TDS indicates total dissolved solids.
5. U indicates the substance was detected below the Minimum Detection Concentration (MDC) and the precision of the laboratory instruments could not produce a reliable value. Therefore, the value followed by U is qualified by the laboratory as estimated.
6. Appendix III = indicator parameters evaluated during Detection Monitoring; Appendix IV = parameters evaluated during Assessment Monitoring.
7. * - Georgia Appendix I constituent that is not also included in Appendix IV.
8. NA indicates constituent was not analyzed.

TABLE 5
ANALYTICAL DATA SUMMARY -
AUGUST AND OCTOBER 2019 AND APRIL 2020

Substance		Well ID					
		ARGWA-14	ARGWA-14	ARGWA-14	ARGWC-7	ARGWC-7	ARGWC-7
		8/21/2019	10/07/2019	4/6/2020	8/21/2019	10/09/2019	4/8/2020
APPENDIX III	Boron	NA	<0.039	0.041 J	NA	0.076 J	0.086
	Calcium	NA	36	43	NA	11	11
	Chloride	NA	4.0	4.2	NA	4.6	4.4
	Fluoride	0.35	0.12 J	0.28	<0.026	0.032 J	0.062 J
	Sulfate	NA	12	10	NA	42	39
	TDS	NA	230	280	NA	130	130
	pH	6.74	6.69	6.65	5.77	5.76	5.75
APPENDIX IV	Antimony	0.00064 J	<0.00038	<0.00038	<0.00038	<0.00038	<0.00038
	Arsenic	0.0013	0.00045 J	<0.00031	<0.00032	0.0015	<0.00031
	Barium	0.031	0.033	0.051	0.041	0.046	0.039
	Beryllium	<0.00018	<0.00018	<0.00018	<0.00018	0.00041 J	<0.00018
	Cadmium	0.00015 J	<0.00013	<0.00022	<0.00013	<0.00013	<0.00022
	Chromium	<0.0015	<0.0015	<0.0015	0.0046	0.0042	0.0027
	Cobalt	0.00022 J	<0.000075	<0.00013	0.000086 J	0.00034 J	<0.00013
	Lead	0.00019 J	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013
	Lithium	<0.0034	0.0070	<0.0034	0.0034 J	0.0083	<0.0034
	Mercury	<0.00010	NA	<0.00010	<0.00010	NA	<0.00010
	Molybdenum	0.0020 J	0.00067 J	0.00084 J	<0.00061	<0.00061	<0.00061
	Radium	0.0663 U	0.447 U	0.286 U	0.0805 U	0.552	0.366 U
	Selenium	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015
Thallium	<0.00015	<0.00015	<0.00015	<0.00015	<0.00015	<0.00015	
* Silver	NA	0.00022 J	<0.00018	NA	<0.00018	<0.00018	

Notes:

1. Results for substances are reported in milligrams per liter (mg/L). Radium results are reported in picocuries per liter (pCi/L).
2. < indicates the substance was not detected above the relevant laboratory method detection limit (MDL).
3. J indicates the substance was detected at such low levels that the precision of the laboratory instrument could not produce a reliable value. Therefore, the value displayed (value J) is qualified by the laboratory as an estimated value.
4. TDS indicates total dissolved solids.
5. U indicates the substance was detected below the Minimum Detection Concentration (MDC) and the precision of the laboratory instruments could not produce a reliable value. Therefore, the value followed by U is qualified by the laboratory as estimated.
6. Appendix III = indicator parameters evaluated during Detection Monitoring; Appendix IV = parameters evaluated during Assessment Monitoring.
7. * - Georgia Appendix I constituent that is not also included in Appendix IV.
8. NA indicates constituent was not analyzed.

TABLE 5
ANALYTICAL DATA SUMMARY -
AUGUST AND OCTOBER 2019 AND APRIL 2020

Substance		Well ID					
		ARGWC-8	ARGWC-8	ARGWC-8	ARGWC-9	ARGWC-9	ARGWC-9
		8/21/2019	10/09/2019	4/9/2020	8/21/2019	10/09/2019	4/9/2020
APPENDIX III	Boron	NA	1.2	1.1	NA	<0.039	<0.039
	Calcium	NA	53	47	NA	5.7	5.3
	Chloride	NA	5.7	7.7	NA	5.2	5.6
	Fluoride	0.12 J	0.085 J	0.16	0.030 J	0.038 J	0.066 J
	Sulfate	NA	63	59	NA	1.5	1.1
	TDS	NA	290	270	NA	75	70
	pH	6.35	6.47	6.42	5.76	5.90	5.90
APPENDIX IV	Antimony	<0.00038	<0.00038	<0.00038	<0.00038	0.00048 J	<0.00038
	Arsenic	0.00036 J	0.0014	<0.00031	<0.00032	0.0011	<0.00031
	Barium	0.052	0.049	0.045	0.045	0.041	0.044
	Beryllium	<0.00018	0.00047 J	<0.00018	<0.00018	0.00037 J	<0.00018
	Cadmium	<0.00013	<0.00013	<0.00022	<0.00013	<0.00013	<0.00022
	Chromium	0.0015 J	0.0017 J	<0.0015	0.0097	0.0084	0.0069
	Cobalt	0.00021 J	0.00041 J	0.00013 J	<0.000075	0.00021 J	0.00015 J
	Lead	<0.00013	0.00019 J	<0.00013	<0.00013	0.00016 J	<0.00013
	Lithium	<0.0034	0.0077	<0.0034	<0.0034	0.0061	<0.0034
	Mercury	<0.00010	NA	<0.00010	<0.00010	NA	<0.00010
	Molybdenum	0.051	0.049	0.039	<0.00061	<0.00061	<0.00061
	Radium	0.125 U	-0.164 U	0.255 U	0.0554 U	-0.238 U	0.334 U
	Selenium	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015
Thallium	<0.00015	<0.00015	<0.00015	<0.00015	<0.00015	<0.00015	
*	Silver	NA	<0.00018	<0.00018	NA	<0.00018	<0.00018

Notes:

1. Results for substances are reported in milligrams per liter (mg/L). Radium results are reported in picocuries per liter (pCi/L).
2. < indicates the substance was not detected above the relevant laboratory method detection limit (MDL).
3. J indicates the substance was detected at such low levels that the precision of the laboratory instrument could not produce a reliable value. Therefore, the value displayed (value J) is qualified by the laboratory as an estimated value.
4. TDS indicates total dissolved solids.
5. U indicates the substance was detected below the Minimum Detection Concentration (MDC) and the precision of the laboratory instruments could not produce a reliable value. Therefore, the value followed by U is qualified by the laboratory as estimated.
6. Appendix III = indicator parameters evaluated during Detection Monitoring; Appendix IV = parameters evaluated during Assessment Monitoring.
7. * - Georgia Appendix I constituent that is not also included in Appendix IV.
8. NA indicates constituent was not analyzed.

TABLE 5
ANALYTICAL DATA SUMMARY -
AUGUST AND OCTOBER 2019 AND APRIL 2020

Substance	Well ID							
	ARGWC-10	ARGWC-10	ARGWC-10	ARGWC-10	ARGWC-15	ARGWC-15	ARGWC-15	
	8/21/2019	10/09/2019	4/8/2020	5/27/2020	8/21/2019	10/08/2019	4/8/2020	
APPENDIX III	Boron	NA	<0.039	<0.039	NA	NA	<0.039	<0.039
	Calcium	NA	7.7	7.5	NA	NA	24	21
	Chloride	NA	3.8	3.9	NA	NA	9.4	1.9
	Fluoride	0.047 J	0.053 J	0.071 J	NA	0.10 J	0.33 J	0.12
	Sulfate	NA	0.59 J	<0.38	NA	NA	31	5.9
	TDS	NA	92	82	NA	NA	130	130
	pH	5.82	5.94	5.95	5.98	6.30	6.38	6.26
APPENDIX IV	Antimony	<0.00038	<0.00038	0.00094 J	NA	<0.00038	<0.00038	<0.00038
	Arsenic	0.00040 J	0.0019	<0.00031	NA	0.00036 J	<0.00032	<0.00031
	Barium	0.035	0.031	0.031	NA	0.033	0.031	0.030
	Beryllium	<0.00018	<0.00018	<0.00018	NA	<0.00018	<0.00018	<0.00018
	Cadmium	<0.00013	<0.00013	<0.00022	NA	<0.00013	<0.00013	<0.00022
	Chromium	0.0073	0.0060	0.0046	NA	0.0017 J	<0.0015	<0.0015
	Cobalt	0.00017 J	0.00019 J	<0.00013	NA	0.00048 J	0.00019 J	0.00026 J
	Lead	<0.00013	<0.00013	0.031	0.00014 J	<0.00013	<0.00013	<0.00013
	Lithium	<0.0034	0.0055	<0.0034	NA	<0.0034	0.0040 J	<0.0034
	Mercury	<0.00010	NA	<0.00010	NA	<0.00010	NA	<0.00010
	Molybdenum	<0.00061	<0.00061	<0.00061	NA	0.0017 J	0.0011 J	0.00075 J
	Radium	0.352 U	-0.380 U	-0.0401 U	NA	0.491	0.421 U	0.309 U
	Selenium	<0.0015	<0.0015	<0.0015	NA	<0.0015	<0.0015	<0.0015
	Thallium	<0.00015	<0.00015	<0.00015	NA	<0.00015	<0.00015	<0.00015
* Silver	NA	<0.00018	<0.00018	NA	NA	0.00018 J	<0.00018	

Notes:

1. Results for substances are reported in milligrams per liter (mg/L). Radium results are reported in picocuries per liter (pCi/L).
2. < indicates the substance was not detected above the relevant laboratory method detection limit (MDL).
3. J indicates the substance was detected at such low levels that the precision of the laboratory instrument could not produce a reliable value. Therefore, the value displayed (value J) is qualified by the laboratory as an estimated value.
4. TDS indicates total dissolved solids.
5. U indicates the substance was detected below the Minimum Detection Concentration (MDC) and the precision of the laboratory instruments could not produce a reliable value. Therefore, the value followed by U is qualified by the laboratory as estimated.
6. Appendix III = indicator parameters evaluated during Detection Monitoring; Appendix IV = parameters evaluated during Assessment Monitoring.
7. * - Georgia Appendix I constituent that is not also included in Appendix IV.
8. NA indicates constituent was not analyzed.

TABLE 5
ANALYTICAL DATA SUMMARY -
AUGUST AND OCTOBER 2019 AND APRIL 2020

Substance		Well ID					
		ARGWC-16	ARGWC-16	ARGWC-16	ARGWC-17	ARGWC-17	ARGWC-17
		8/20/2019	10/09/2019	4/8/2020	8/21/2019	10/09/2019	4/8/2020
APPENDIX III	Boron	NA	0.065 J	0.059 J	NA	<0.039	<0.039
	Calcium	NA	39	40	NA	10	8.3
	Chloride	NA	4.7	5.1	NA	3.3	3.7
	Fluoride	0.033 J	0.031 J	0.051 J	0.031 J	0.030 J	0.053 J
	Sulfate	NA	210	200	NA	57	47
	TDS	NA	350	350	NA	120	91
	pH	5.35	5.22	5.07	5.07	5.27	5.0
APPENDIX IV	Antimony	<0.00038	<0.00038	<0.00038	<0.00038	<0.00038	<0.00038
	Arsenic	<0.00032	0.0010	<0.00031	0.00044 J	0.0015	<0.00031
	Barium	0.046	0.057	0.042	0.050	0.049	0.045
	Beryllium	<0.00018	0.00027 J	<0.00018	0.00025 J	0.00076 J	0.00025 J
	Cadmium	<0.00013	<0.00013	<0.00022	0.00013 J	0.00018 J	<0.00022
	Chromium	0.0025	0.0027	0.0021	<0.0015	0.0021	<0.0015
	Cobalt	0.00016 J	0.00026 J	<0.00013	0.018	0.017	0.016
	Lead	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013
	Lithium	<0.0034	0.0076	<0.0034	<0.0034	0.0071	<0.0034
	Mercury	<0.00010	NA	<0.00010	<0.00010	NA	<0.00010
	Molybdenum	<0.00061	<0.00061	<0.00061	<0.00061	<0.00061	<0.00061
	Radium	0.227 U	-0.0245 U	0.280 U	-0.0366 U	0.118 U	0.402 U
	Selenium	<0.0015	0.0018 J	0.0022 J	<0.0015	<0.0015	<0.0015
Thallium	<0.00015	<0.00015	<0.00015	<0.00015	<0.00015	<0.00015	
*	Silver	NA	<0.00018	<0.00018	NA	<0.00018	<0.00018

Notes:

1. Results for substances are reported in milligrams per liter (mg/L). Radium results are reported in picocuries per liter (pCi/L).
2. < indicates the substance was not detected above the relevant laboratory method detection limit (MDL).
3. J indicates the substance was detected at such low levels that the precision of the laboratory instrument could not produce a reliable value. Therefore, the value displayed (value J) is qualified by the laboratory as an estimated value.
4. TDS indicates total dissolved solids.
5. U indicates the substance was detected below the Minimum Detection Concentration (MDC) and the precision of the laboratory instruments could not produce a reliable value. Therefore, the value followed by U is qualified by the laboratory as estimated.
6. Appendix III = indicator parameters evaluated during Detection Monitoring; Appendix IV = parameters evaluated during Assessment Monitoring.
7. * - Georgia Appendix I constituent that is not also included in Appendix IV.
8. NA indicates constituent was not analyzed.

TABLE 5
ANALYTICAL DATA SUMMARY -
AUGUST AND OCTOBER 2019 AND APRIL 2020

Substance		Well ID		
		ARGWC-18	ARGWC-18	ARGWC-18
		8/21/2019	10/09/2019	4/9/2020
APPENDIX III	Boron	NA	2.1	2.3
	Calcium	NA	49	46
	Chloride	NA	6.7	7.3
	Fluoride	0.079 J	0.068 J	0.11
	Sulfate	NA	180	190
	TDS	NA	420	440
	pH	5.94	6.01	5.98
APPENDIX IV	Antimony	<0.00038	<0.00038	<0.00038
	Arsenic	0.00033 J	0.0016	<0.00031
	Barium	0.036	0.039	0.041
	Beryllium	<0.00018	0.00034 J	<0.00018
	Cadmium	<0.00013	<0.00013	<0.00022
	Chromium	<0.0015	<0.0015	<0.0015
	Cobalt	0.0012	0.00099	0.00091 J
	Lead	<0.00013	<0.00013	<0.00013
	Lithium	0.0036 J	0.013	<0.0034
	Mercury	<0.00010	NA	<0.00010
	Molybdenum	<0.00061	<0.00061	<0.00061
	Radium	0.693	0.0684 U	0.419 U
	Selenium	<0.0015	<0.0015	<0.0015
	Thallium	<0.00015	<0.00015	<0.00015
* Silver	NA	<0.00018	<0.00018	

Notes:

1. Results for substances are reported in milligrams per liter (mg/L). Radium results are reported in picocuries per liter (pCi/L).
2. < indicates the substance was not detected above the relevant laboratory method detection limit (MDL).
3. J indicates the substance was detected at such low levels that the precision of the laboratory instrument could not produce a reliable value. Therefore, the value displayed (value J) is qualified by the laboratory as an estimated value.
4. TDS indicates total dissolved solids.
5. U indicates the substance was detected below the Minimum Detection Concentration (MDC) and the precision of the laboratory instruments could not produce a reliable value. Therefore, the value followed by U is qualified by the laboratory as estimated.
6. Appendix III = indicator parameters evaluated during Detection Monitoring; Appendix IV = parameters evaluated during Assessment Monitoring.
7. * - Georgia Appendix I constituent that is not also included in Appendix IV.
8. NA indicates constituent was not analyzed.

**TABLE 6
RPD CALCULATIONS**

Ash Pond #3			
Parameter	Concentration 1	Concentration 2	
8/20/2019	DUP-1	ARGWA-3	RPD
Barium	0.021	0.020	5%
Chromium	0.0046	0.0039	16%
Parameter	Concentration 1	Concentration 2	
10/08/2019	DUP-1	ARGWA-3	RPD
Calcium	5.5	6.0	9%
Chloride	2.7	2.6	4%
TDS	70	66	6%
Barium	0.019	0.020	5%
Chromium	0.003	0.0031	3%
Parameter	Concentration 1	Concentration 2	
4/8/2020	DUP-1	ARGWC-16	RPD
Calcium	41	40	2%
Chloride	5.3	5.1	4%
Sulfate	210	200	5%
TDS	340	350	3%
Barium	0.044	0.042	5%

concentrations in mg/L

**TABLE 8
SUMMARY OF GROUNDWATER PROTECTION STANDARDS**

Constituent	Units	MCL	Federal CCR Rules Specified Limit	Site-Specific Background October 2019	State Derived Site GWPS⁽²⁾ October 2019	Site-Specific Background April 2020	State Derived Site GWPS⁽²⁾ April 2020
Antimony	mg/L	0.006		0.0025	0.006	0.0020	0.006
Arsenic	mg/L	0.01		0.005	0.01	0.0050	0.01
Barium	mg/L	2.0		0.24	2.0	0.24	2.0
Beryllium	mg/L	0.004		0.0025	0.004	0.0025	0.004
Cadmium	mg/L	0.005		0.0043	0.005	0.0043	0.005
Chromium	mg/L	0.1		0.01	0.1	0.01	0.1
Cobalt ⁽¹⁾	mg/L		0.006	0.0025	0.0025	0.0025	0.0025
Fluoride	mg/L	4.0		0.53	4.0	0.53	4.0
Lead ⁽¹⁾	mg/L		0.015	0.013	0.013	0.013	0.013
Lithium ⁽¹⁾	mg/L		0.04	0.007	0.007	0.0099	0.0099
Mercury	mg/L	0.002		0.0002	0.002	0.0002	0.002
Molybdenum ⁽¹⁾	mg/L		0.1	0.015	0.015	0.015	0.015
Combined Radium	piC/L	5.0		1.138	5.0	1.10	5.0
Selenium	mg/L	0.05		0.0257	0.05	0.034	0.05
Silver	mg/L			0.0051	0.0051	0.0051	0.0051
Thallium	mg/L	0.002		0.0005	0.002	0.001	0.002

Notes:

mg/L - milligrams per liter

piC/L - picoCuries per liter

MCL - Maximum Contaminant Level: The MCL is the GWPS under the Federal CCR Rule unless background is greater.

Federal CCR Rules Specified Limit - Groundwater protection standard specified in the Federal CCR Rule 40 CFR § 257.95 (h) Amendment July 30, 2018

GWPS - Groundwater Protection Standard

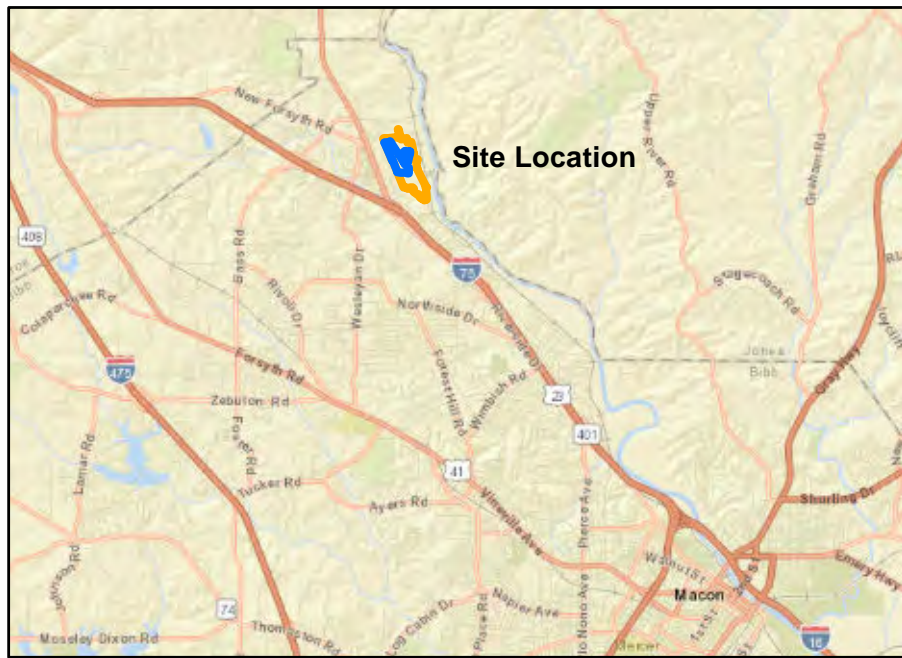
(1) Constituent without an established MCL. The background limits were used when determining the

groundwater protection standard (GWPS) under 40 CFR §257.95(h) and Georgia Environmental Protection Division (EPD) Rule 391-3-4-.10(6)(a).

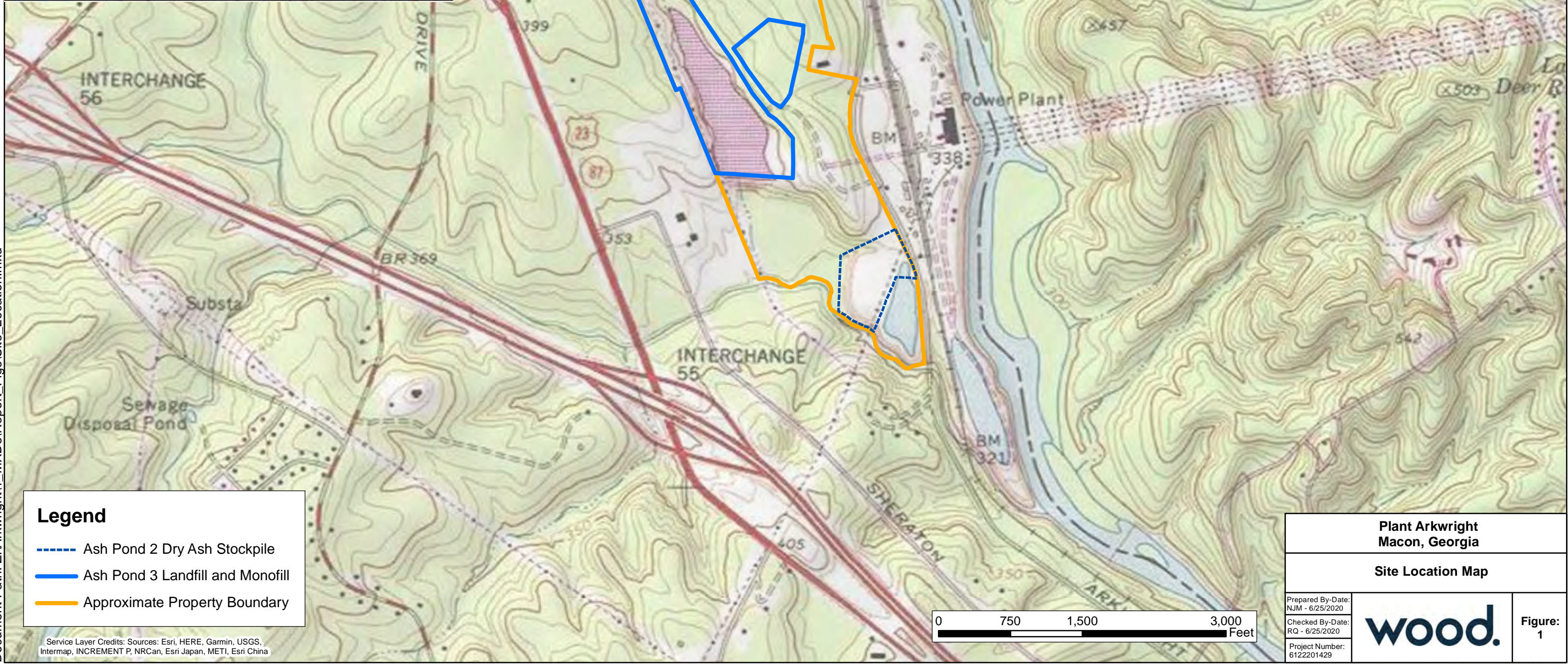
(2) Under the existing Georgia EPD Rules, the GWPS is: (i) the MCL, (ii) where the MCL is not established, the background concentration, or

(iii) background concentrations for constituents where the background level is higher than the MCL.

FIGURES



Site Location



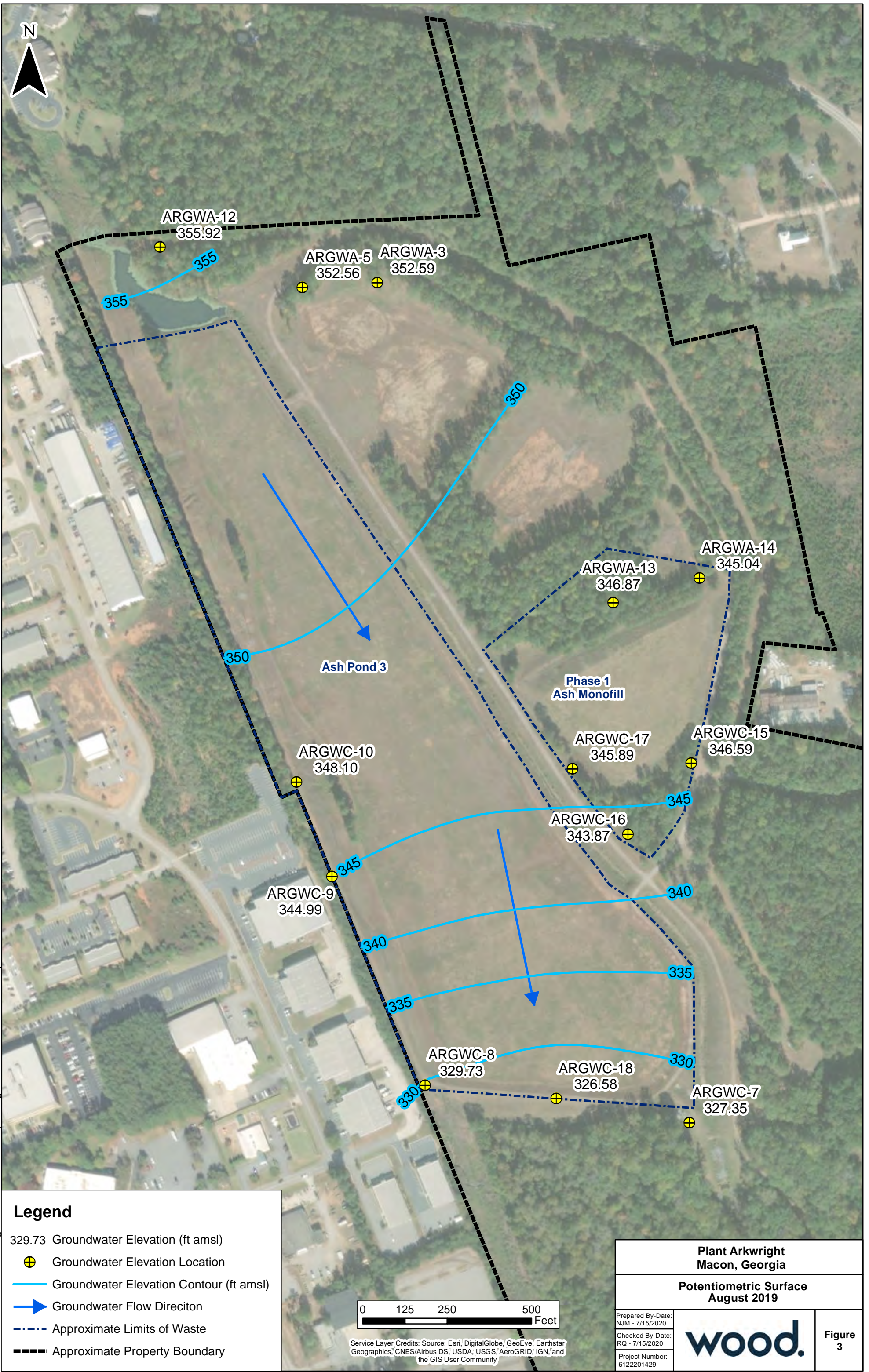
Legend

- Ash Pond 2 Dry Ash Stockpile
- Ash Pond 3 Landfill and Monofill
- Approximate Property Boundary

Plant Arkwright Macon, Georgia	
Site Location Map	
Prepared By-Date: NJM - 6/25/2020	
Checked By-Date: RQ - 6/25/2020	
Project Number: 6122201429	
Figure: 1	

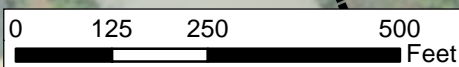
Service Layer Credits: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China





Legend

- 329.73 Groundwater Elevation (ft amsl)
- ⊕ Groundwater Elevation Location
- Groundwater Elevation Contour (ft amsl)
- ➔ Groundwater Flow Direction
- - - - - Approximate Limits of Waste
- Approximate Property Boundary



Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Plant Arkwright Macon, Georgia	
Potentiometric Surface August 2019	
Prepared By-Date: NJM - 7/15/2020	
Checked By-Date: RQ - 7/15/2020	
Project Number: 6122201429	
Figure 3	



Legend

- 329.06 Groundwater Elevation (ft amsl)
- Groundwater Elevation Location
- Groundwater Elevation Contour (ft amsl)
- Groundwater Flow Direction
- Approximate Limits of Waste
- Approximate Property Boundary

0 125 250 500
 Feet

Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

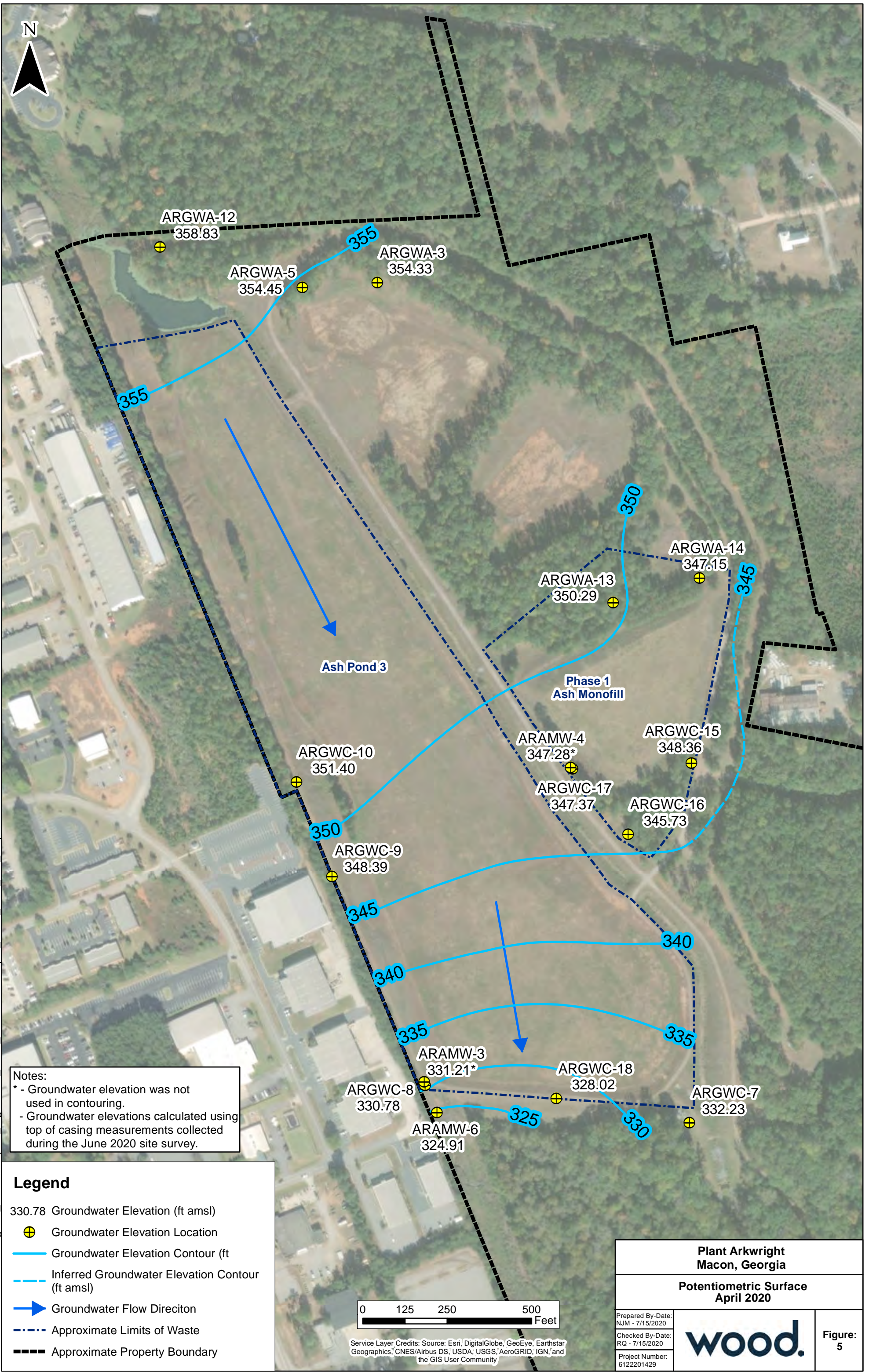
**Plant Arkwright
 Macon, Georgia**

**Potentiometric Surface
 October 2019**

Prepared By-Date:
 NJM - 7/15/2020
 Checked By-Date:
 RQ - 7/15/2020
 Project Number:
 6122201429

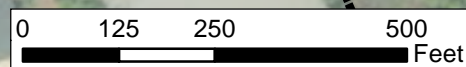


**Figure
 4**



Notes:
 * - Groundwater elevation was not used in contouring.
 - Groundwater elevations calculated using top of casing measurements collected during the June 2020 site survey.

- Legend**
- 330.78 Groundwater Elevation (ft amsl)
 - ⊕ Groundwater Elevation Location
 - Groundwater Elevation Contour (ft)
 - - - Inferred Groundwater Elevation Contour (ft amsl)
 - ➔ Groundwater Flow Direction
 - - - - - Approximate Limits of Waste
 - Approximate Property Boundary



Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Plant Arkwright Macon, Georgia	
Potentiometric Surface April 2020	
Prepared By-Date: NJM - 7/15/2020	
Checked By-Date: RQ - 7/15/2020	
Project Number: 6122201429	
Figure: 5	

APPENDIX A

WELL INSTALLATION REPORTS

**Georgia Power Company
Former Plant Arkwright
Ash Pond No.3 and Monofill
PERMIT #: 011-025D(LI)
Bibb County**

**Groundwater Monitoring Well
Installation Report**



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Cover Sheet

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Table 1 – Summary of Well Construction and Location Data

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Appendix A – Driller Bond Certificate
Appendix B – Boring and Well Construction Logs
Appendix C – Filter Pack Grain Size Curve
Appendix D – Well Development Forms
Appendix E – Survey Data

Professional Geologist Certification

I, Evan B. Perry, certify that I am a qualified groundwater scientist as demonstrated by a Georgia state registered professional geologist certification. I have sufficient training and experience in groundwater hydrology and related fields to make sound professional judgments regarding groundwater monitoring and contaminant fate and transport. I further certify that the data in this report have been prepared by me or a subordinate working under my direction.

Evan B. Perry, P.
Georgia P.G. Registration No. 1744174



1.0 Introduction

Georgia Power Company (GPC) –former Plant Arkwright is located in Bibb County near Macon on Arkwright Road. Plant Arkwright was retired in 2002 and decommissioned in 2003. The CCR unit AP-3 Landfill and Monofill was closed in 2010 in accordance with the solid waste regulations in effect at the time of its closure. A closure certificate was issued by the Georgia Environmental Protection Division (GA EPD) for AP-3 Landfill and Monofill on August 19, 2010. The site operates during the post closure care period under EPD solid waste handling permit number 011-025D(LI). Figure 1, Well Location Map, depicts the location of the monitoring and assessment wells.

This report is prepared document details regarding the design, installation, and development of monitoring well ARAMW-3, ARAMW-4, and ARAMW-6 installed at GPC Plant Arkwright, Ash AP-3. Locations ARMW-3 and ARAMW-6 are intended to assess groundwater conditions vertically and hydraulically, respectively at ARGWC-8. Location ARAMW-4 is intended to assess ground conditions vertically at ARGWC-17.

2.0 Drilling and Well Installation

Installation details and descriptions of procedures are provided in the following sections.

2.1 Drilling Method

Groundwater monitoring wells were installed by Cascade Environmental, LP (Cascade) using rotasonic drilling techniques. Cascade has current surety bond on file with the Georgia Water Well Standards Advisory Council. A copy of Cascade’s bond is included in Appendix A, Driller Bond Certificate.

Drilling equipment was steam-cleaned before the start of drilling and between each boring. Borings for groundwater wells were drilled with a 6-inch outer diameter core barrel. Groundwater wells were extended to depths deep enough to provide a sufficient water column for sampling efforts targeted within the uppermost aquifer at the site. Boring and well construction logs are included in Appendix B, Boring and Well Construction Logs.

2.2 Screened Interval

The wells are screened in unconsolidated silty sand with gravel as shown in the boring and well installation logs provided as Appendix B. The wells are constructed with 10 feet lengths of screen.

2.3 Well Casing and Screens

The wells are constructed of 2-inch diameter, American Society for Testing and Materials (ASTM)-rated, flush-threaded, Schedule 40 PVC casing flush-threaded to pre-packed dual-wall slotted PVC screens. The casing and pre-packed screen arrived pre-cleaned and packaged by the manufacturer. Well construction materials are sufficiently durable to resist chemical and physical degradation and not interfere with the quality of groundwater samples. Solvent or glue was not used to construct the wells. Casing and screen sections are flush-threaded. Wells were constructed in accordance with accepted industry standards and followed guidelines within the Manual for Groundwater Monitoring (GA EPD, 1991).

2.4 Well Intake Design

The wells are designed and constructed to: (1) allow sufficient groundwater flow to the well for sampling; (2) minimize the passage of formation materials (turbidity) into the wells; and (3) ensure sufficient structural integrity to prevent collapse of the well. The well is screened using 0.010-inch slotted PVC pre-packed dual-wall well screen. The pre-packed dual-wall well screen combines a centralized inner well screen, a void for site-specific filter sand pack, and an outer conductor screen in one integrated unit. Based on the nature of deposits, the screen will retain at least 90 percent of the filter pack and 40 percent of the formation.

2.5 Filter Pack

During groundwater well construction, filter sand was slowly washed with potable water into the annular space surrounding the well screen to approximately two feet above the screened interval. Filter sand is approximately 20/30 grade silica sand from Standard Sand and Silica Co. A grain size curve for the filter pack is provided in Appendix C, Filter Pack Grain Size Curve.

Filter pack material was placed within the pre-packed dual-wall well screens and in the annular space between the outside of the pre-pack screen and borehole wall to ensure an adequate thickness of filter pack material between the well and the formation. Filter pack material placed in the annular space outside of the well screen extended approximately 2 feet above the top of screen. No bridging occurred during filter pack placement.

After placing the filter pack, the wells were pumped to ensure settlement of the filter pack, prior to installing the annular seal. The depth of top of filter pack was measured and recorded in the well construction log provided in Appendix B.

2.6 Annular Seal

Two to four feet of hydrated sodium bentonite overlies the filter pack. A high solid bentonite grout slurry was placed into the annular space from the bottom to the top with tremie pipe. A cement apron 4-feet by 4-feet by 4-inches was poured around the wells. The pads are mounded slightly outward to direct surface drainage away from the well.

2.7 Cap and Protective Casing

The well risers are fitted with a locking cap and a lockable cover. A one-quarter inch vent hole in the PVC riser pipe provides an avenue for the escape of gas. The protective cap guards the casing from damage and the locking cap serves as a security device to prevent well tampering. Bollards were installed around the corners of the wells to protect the wells from damage as necessary.

Wells are clearly marked with signage with the proper designation. A weep hole was drilled in the outer protective casing near the bottom above the concrete pad. Pea gravel was placed inside the protective casing between the riser pipe and the outer casing.

3.0 Well Development

The monitoring wells were developed using a combination of surging and pumping to (1) restore the natural hydraulic conductivity of the formation, and (2) to remove fine-grained sediment to ensure low-turbidity groundwater samples. The well was alternately surged and purged until

visually clear of particulates. Turbidity, pH, temperature, and conductivity measurements were made to ensure that each well was fully developed. All equipment and tubing placed in the well was decontaminated or new. Development forms are included in Appendix D, Well Development Forms.

4.0 Survey

The horizontal and vertical location of the newly installed monitoring locations was surveyed by Southern Company Civil Field Services T&PS. under the direction of a Georgia Registered Land Surveyor (RLS). The horizontal location and vertical elevation of the wells were surveyed to the nearest, 0.01-foot. The elevations were measured on a survey pin embedded in the concrete pad, ground surface, and the top of PVC well casing. The survey for the new monitoring wells was completed On December 13, 2019. Elevations are referenced to mean sea level (MSL) in feet; depth is referenced from TOC in feet. Well coordinates are provided in Table 1. A site map depicting the surveyed locations is included in Figure 1; a survey data sheet sealed by a Georgia RLS is included in Appendix E, Survey Data. The well locations shown on Figure 1 have been referenced in the recent Groundwater Monitoring Plan.

5.0 General References

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

TABLE



Table 1
Summary of Well Installation Dates, Coordinates, Elevation Screen Interval and Purpose

Well	Installation Date (mm/dd/yyyy)	Northing	Easting	Ground Elevation (ft MSL)	Top of Casing Elevation (ft MSL)	Top of Screen Elevation (ft MSL)	Bottom of Screen Elevation (ft MSL)	Total Depth (ft BTOC)	Purpose
ARAMW-3	11/25/2019	1,064,531.31	2,437,570.76	352.35	355.35	297.04	287.04	68.61	Vertical assessment of ARGWC-8
ARAMW-4	11/25/2019	1,065,462.99	2,438,003.90	364.40	367.61	320.21	310.21	57.70	Vertical assessment of ARGWC-17
ARAMW-6	11/25/2019	1,064,439.75	2,437,607.88	334.47	337.34	315.27	305.27	32.37	Horizontal assessment of ARGWC-8

Notes:

1. ft BTOC indicates feet below top of casing.
2. ft MSL indicates feet mean sea level.

FIGURE

APPENDICES

APPENDIX A

Driller Bond Certificate

COPY

CONTINUATION
CERTIFICATE

Atlantic Specialty Insurance Company

, Surety upon

a certain Bond No. **800031223**

dated effective June 30, 2017
(MONTH-DAY-YEAR)

on behalf of Michael C. Rice and Cascade Drilling, L.P., any and all employees, officers and partners
(PRINCIPAL)

and in favor of State of Georgia
(OBLIGEE)

does hereby continue said bond in force for the further period

beginning on June 30, 2019
(MONTH-DAY-YEAR)

and ending on June 30, 2021
(MONTH-DAY-YEAR)

Amount of bond Thirty Thousand and Zero/100 (\$30,000.00)

Description of bond Water Well Contractor Performance Bond

Premium: \$1,200.00

PROVIDED: That this continuation certificate does not create a new obligation and is executed upon the express condition and provision that the Surety's liability under said bond and this and all Continuation Certificates issued in connection therewith shall not be cumulative and that the said Surety's aggregate liability under said bond and this and all such Continuation Certificates on account of all defaults committed during the period (regardless of the number of years) said bond had been and shall be in force, shall not in any event exceed the amount of said bond as hereinbefore set forth.

Signed and dated on May 9, 2019
(MONTH-DAY-YEAR)
Atlantic Specialty Insurance Company

By _____
Attorney-in-Fact Elizabeth R. Hahn

Parker, Smith & Feek, Inc.
Agent

2233 112th Ave NE Bellevue, WA 98004
Address of Agent

(425) 709-3600
Telephone Number of Agent

Power of Attorney

KNOW ALL MEN BY THESE PRESENTS, that ATLANTIC SPECIALTY INSURANCE COMPANY, a New York corporation with its principal office in Plymouth, Minnesota, does hereby constitute and appoint: **Deanna M. French, Susan B. Larson, Elizabeth R. Hahn, Jana M. Roy, Scott McGilvray, Mindee L. Rankin, Ronald J. Lange, John R. Claeys, Roger Kaltenbach, Guy Armfield, Scott Fisher, Andrew P. Larsen, Nicholas Fredrickson**, each individually if there be more than one named, its true and lawful Attorney-in-Fact, to make, execute, seal and deliver, for and on its behalf as surety, any and all bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof; provided that no bond or undertaking executed under this authority shall exceed in amount the sum of: **sixty million dollars (\$60,000,000)** and the execution of such bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof in pursuance of these presents, shall be as binding upon said Company as if they had been fully signed by an authorized officer of the Company and sealed with the Company seal. This Power of Attorney is made and executed by authority of the following resolutions adopted by the Board of Directors of ATLANTIC SPECIALTY INSURANCE COMPANY on the

Resolved: That the President, any Senior Vice President or Vice-President (each an "Authorized Officer") may execute for and in behalf of the Company any and all bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof, and affix the seal of the Company thereto; and that the Authorized Officer may appoint and authorize an Attorney-in-Fact to execute on behalf of the Company any and all such instruments and to affix the Company seal thereto; and that the Authorized Officer may at any time remove any such Attorney-in-Fact and revoke all power and authority given to any such Attorney-in-Fact.

Resolved: That the Attorney-in-Fact may be given full power and authority to execute for and in the name and on behalf of the Company any and all bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof, and any such instrument executed by any such Attorney-in-Fact shall be as binding upon the Company as if signed and sealed by an Authorized Officer and, further, the Attorney-in-Fact is hereby authorized to verify any affidavit required to be attached to bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof.

This power of attorney is signed and sealed by facsimile under the authority of the following Resolution adopted by the Board of Directors of ATLANTIC SPECIALTY INSURANCE COMPANY on the twenty-fifth day of September, 2012:

Resolved: That the signature of an Authorized Officer, the signature of the Secretary or the Assistant Secretary, and the Company seal may be affixed by facsimile to any power of attorney or to any certificate relating thereto appointing an Attorney-in-Fact for purposes only of executing and sealing any bond, undertaking, recognizance or other written obligation in the nature thereof, and any such signature and seal where so used, being hereby adopted by the Company as the original signature of such officer and the original seal of the Company, to be valid and binding upon the Company with the same force and effect as though manually affixed.

IN WITNESS WHEREOF, ATLANTIC SPECIALTY INSURANCE COMPANY has caused these presents to be signed by an Authorized Officer and the seal of the Company to be affixed this twenty-sixth day of October, 2017.

STATE OF MINNESOTA
HENNEPIN COUNTY

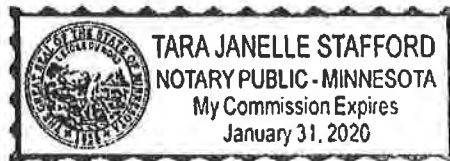


By



Paul J. Brehm, Senior Vice President

On this twenty-sixth day of October, 2017, before me personally came Paul J. Brehm, Senior Vice President of ATLANTIC SPECIALTY INSURANCE COMPANY, to me personally known to be the individual and officer described in and who executed the preceding instrument, and he acknowledged the execution of the same, and being by me duly sworn, that he is the said officer of the Company aforesaid, and that the seal affixed to the preceding instrument is the seal of said Company and that the said seal and the signature as such officer was duly affixed and subscribed to the said instrument by the authority and at the direction of the Company.

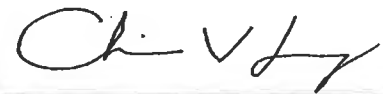


Notary Public

I, the undersigned, Secretary of ATLANTIC SPECIALTY INSURANCE COMPANY, a New York Corporation, do hereby certify that the foregoing power of attorney is in full force and has not been revoked, and the resolutions set forth above are now in force.

Signed and sealed. Dated 9 day of May, 2019

This Power of Attorney expires
October 1, 2019



Christopher V. Jerry, Secretary

APPENDIX B

BORING AND WELL CONSTRUCTION LOGS

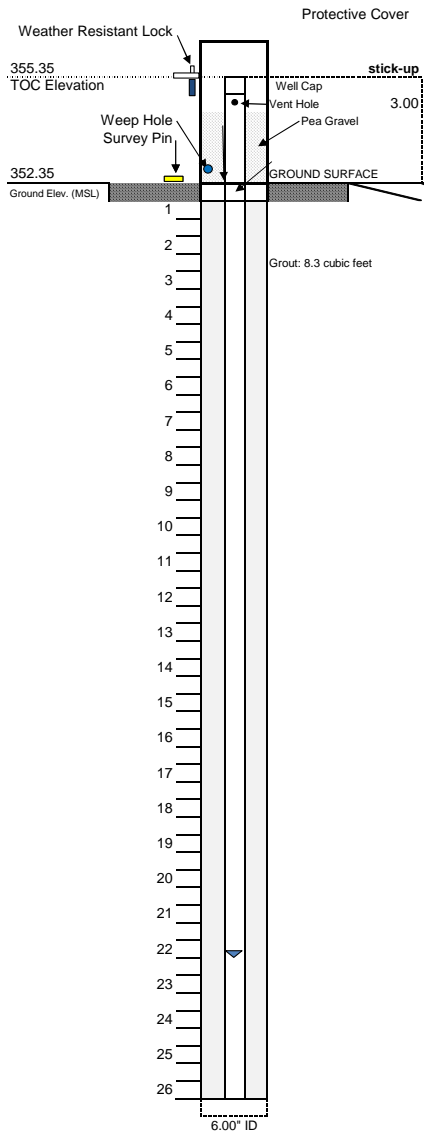


ATLANTIC COAST CONSULTING, INC.

ARAMW-3

BORING ID

PROJECT: Plant Arkwright	PROJECT NO.: I054-110
TOTAL DEPTH: 68.61 ft. BTOC	SITE LOCATION: Macon, Georgia
DATE BEGIN: 25-Nov-2019	DRILLER: Chris Ruffer
DATE COMPLETE: 25-Nov-2019	RIG TYPE: T-300 Rotosonic
INSTALLED BY: Cascade	METHOD: Rotosonic
SUPERVISED BY: Jordan Berisford	
WATER 1ST ENCOUNTERED: 23' BGS	
WATER AFTER 48 HOURS: 25.32' BTOC	



Northing: 1064531.307
Easting: 2437570.755

SURFACE COMPLETION:

4"x4" Aluminum Protective Casing
4"x4"x4" Concrete Pad
Weather Resistant Lock
Survey Pin

SOIL DESCRIPTION

0-5' Top soil (CL). Reddish brown clay, medium plasticity, dry, mica present (15-20%), soft. Hand augered

5-10' As above, increase in mica present (30%). Color change ~8' to brown low-medium plasticity (ML) silt. Soft

10-15' Color change at 12' to a light brown (ML) silt, mica (40%). Saprolite, Black and tan striations present. Cohesive, low plasticity, soft to very soft.

15-20' As above

20-25' Silt with sand (ML) saprolite, soil striations present. Some weathered rock with sand (fine to coarse) present. Non cohesive/non plastic. Mica present (45%). Some black and white mottling.

25-30' As above, saprolite

Core Photos



MATERIALS:

GROUT:		Bentonite Grout
MANUFACTURER:		AquaGuard
BENTONITE SEAL:		3/8" Bentonite Pellets
MANUFACTURER:		Pei-Plug
FILTER PACK SAND:		20/30 Mesh
MANUFACTURER:		Filter Media
WELL SCREEN:		Sch. 40 - 2" PVC
MANUFACTURER:		Campbell Monoflex
SLOT SIZE:		0.010-Inch Slot
WELL CASING:		Sch. 40 - 2" PVC
MANUFACTURER:		Campbell Monoflex

Soil Descriptions from Unified Soil Classification System

BTOC - Below Top of Casing
ID - Inside Diameter; OD - Outside Diameter
MSL - Mean Sea Level
BGS - Below Ground Surface



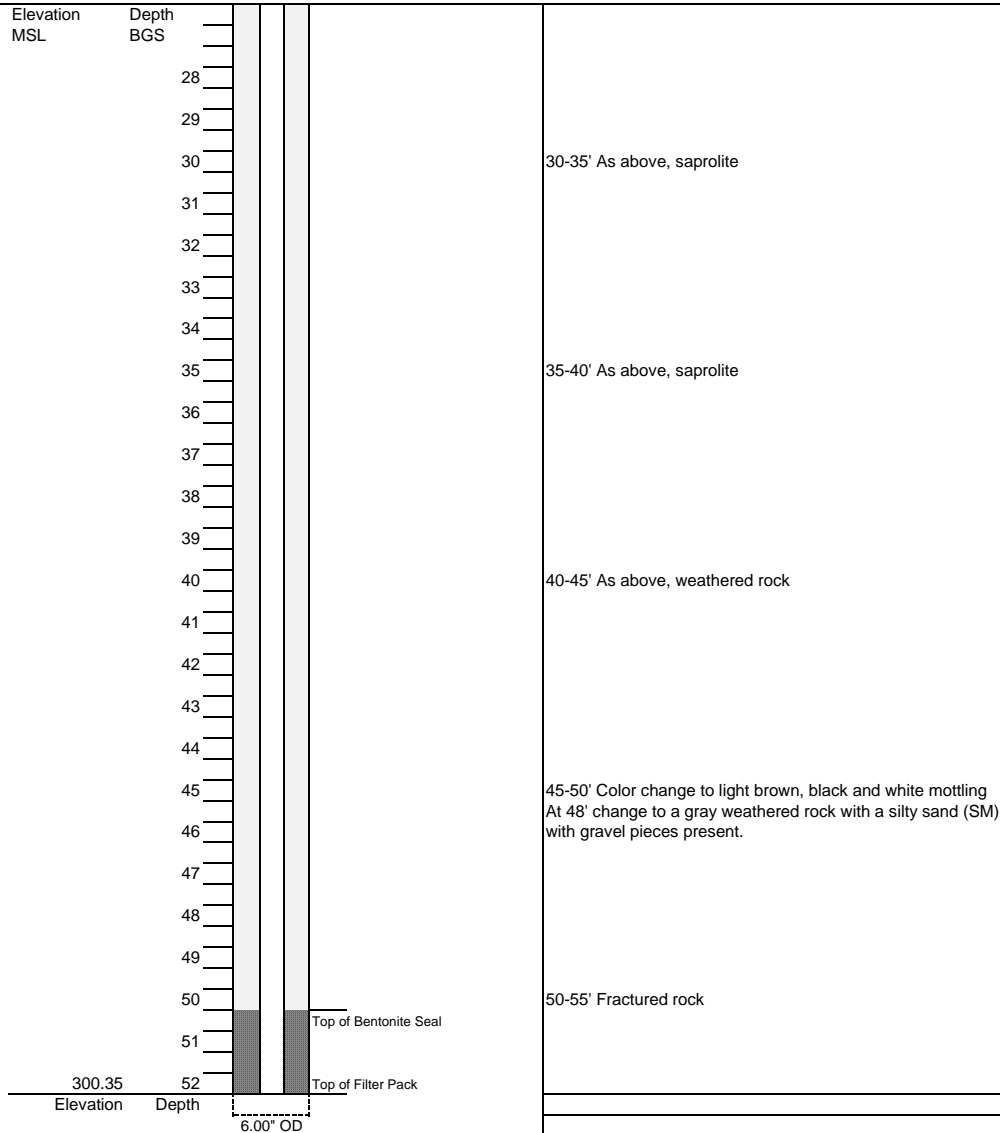
ATLANTIC COAST CONSULTING, INC.

ARAMW-3

BORING ID

PROJECT:	Plant Arkwright	PROJECT NO.:	I054-110
TOTAL DEPTH:	68.61 ft. BTOC	SITE LOCATION:	Macon, Georgia
DATE BEGIN:	25-Nov-2019	DRILLER:	Chris Ruffer
DATE COMPLETE:	25-Nov-2019	RIG TYPE:	T-300 Rotosonic
INSTALLED BY:	Cascade	METHOD:	Rotosonic
SUPERVISED BY:	Jordan Berisford		
WATER 1ST ENCOUNTERED:	23' BGS		
WATER AFTER 48 HOURS:	25.32' BTOC		

Core Photos



MATERIALS:

GROUT:		Bentonite Grout
MANUFACTURER:		AquaGuard
BENTONITE SEAL:		3/8" Bentonite Pellets
MANUFACTURER:		PeI-Plug
FILTER PACK SAND:		20/30 Mesh
MANUFACTURER:		Filter Media
WELL SCREEN:		Sch. 40 - 2" PVC
MANUFACTURER:		Silver-Line
SLOT SIZE:		0.010-Inch Slot
WELL CASING:		Sch. 40 - 2" PVC
MANUFACTURER:		Silver-Line

TOC - Top of Casing
 ID - Inside Diameter; OD - Outside Diameter
 MSL - Mean Sea Level
 BGS - Below Ground Surface



ATLANTIC COAST CONSULTING, INC.

ARAMW-3

BORING ID

PROJECT: Plant Arkwright

PROJECT NO.: 1054-110

TOTAL DEPTH: 68.61 ft. BTOC

SITE LOCATION: Macon, Georgia

DATE BEGIN: 25-Nov-2019

DRILLER: Chris Ruffer

DATE COMPLETE: 25-Nov-2019

RIG TYPE: T-300 Rotosonic

INSTALLED BY: Cascade

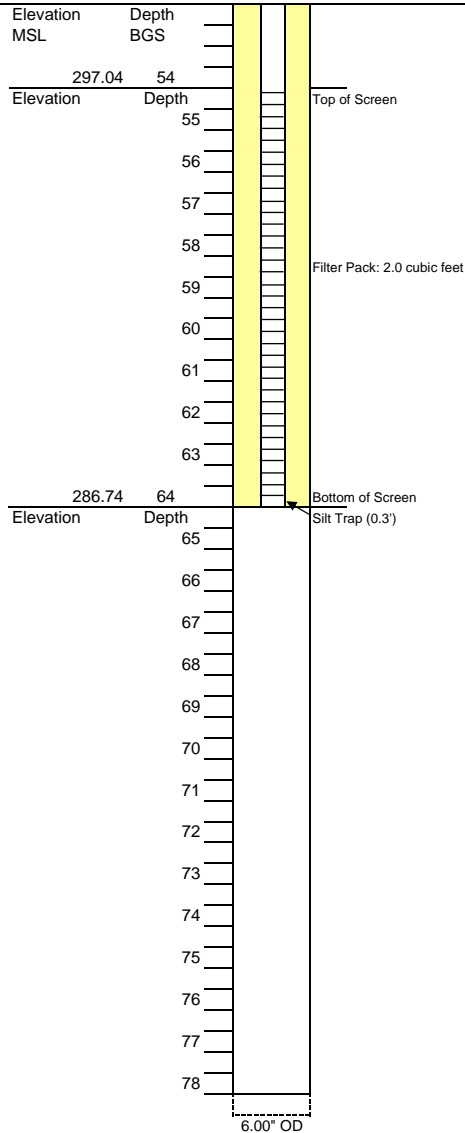
METHOD: Rotosonic

SUPERVISED BY: Jordan Berisford

WATER 1ST ENCOUNTERED: 23' BGS

WATER AFTER 48 HOURS: 25.32' BTOC

Core Photos



55-60' Dark gray weathered rock with a silty sand with gravel pieces present (SM)

60-64' Weathered gneiss/schist with iron staining. Gneiss becomes more competent and fracturing disappears starting at 62'.

Total well depth 64.0' BGS



MATERIALS:

GROUT:		Bentonite Grout
MANUFACTURER:		AquaGuard
BENTONITE SEAL:		3/8" Bentonite Pellets
MANUFACTURER:		Pel-Plug
FILTER PACK SAND:		20/30 Mesh
MANUFACTURER:		Filter Media
WELL SCREEN:		Sch. 40 - 2" PVC
MANUFACTURER:		Silver-Line
SLOT SIZE:		0.010-Inch Slot
WELL CASING:		Sch. 40 - 2" PVC
MANUFACTURER:		Silver-Line

TOC - Top of Casing
 ID - Inside Diameter; OD - Outside Diameter
 MSL - Mean Sea Level
 BGS - Below Ground Surface

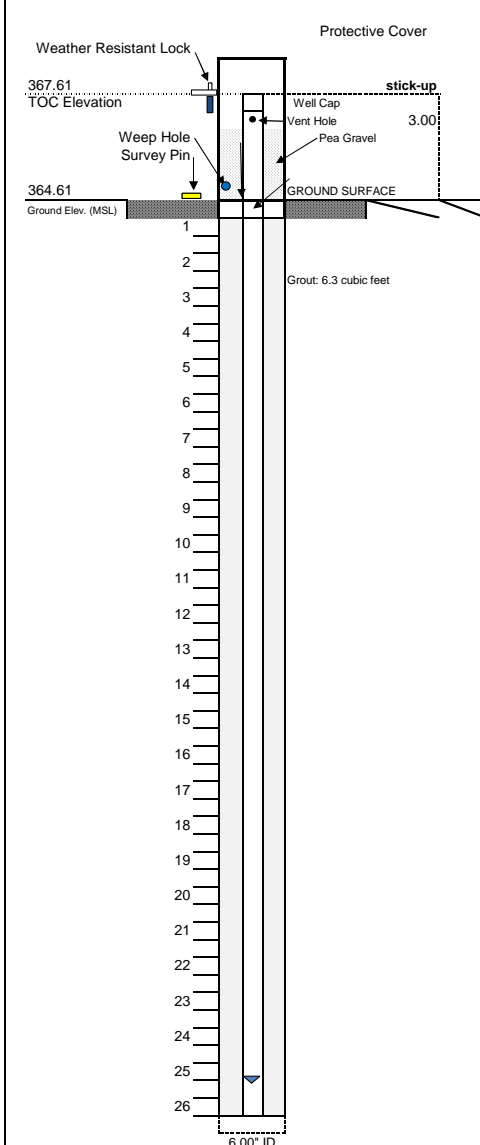


ATLANTIC COAST CONSULTING, INC.

ARAMW-4

BORING ID

PROJECT: Plant Arkwright	PROJECT NO.: I054-110
TOTAL DEPTH: 57.70 ft. BTOC	SITE LOCATION: Macon, Georgia
DATE BEGIN: 21-Nov-2019	DRILLER: Chris Ruffer
DATE COMPLETE: 21-Nov-2019	RIG TYPE: T-300 Rotosonic
INSTALLED BY: Cascade	METHOD: Rotosonic
SUPERVISED BY: Jordan Berisford	
WATER 1ST ENCOUNTERED: 25' BGS	
WATER AFTER 48 HOURS: 22.46' BTOC	



Northing: 1065462.99
Easting: 2438003.898

SURFACE COMPLETION:
4"x4" Aluminum Protective Casing
4'x4'x4" Concrete Pad
Weather Resistant Lock
Survey Pin

SOIL DESCRIPTION
0-5' Light brown top soil (CL), some organics present. Mica present, dry, soft, medium plasticity, cohesive, mica (15-20%). Hand augered

5-10' As above (CL)

10-15' As above (CL), increase in mica (40%)

15-20' As above (CL), saprolite. Some black striations present in soil structure.

17' Light gray to tan saprolite, mica present (40%), trace fine gravel (quartz), sub angular/sub rounded, silt with sand (ML)

20-25' Silt with sand (ML), light brown in color with mica/biotite flakes present (40%). Low plasticity, moist, non-cohesive

25-28' As above with a color change to yellowish tan (ML)

Core Photos



MATERIALS:

GROUT:		Bentonite Grout
MANUFACTURER:		AquaGuard
BENTONITE SEAL:		3/8" Bentonite Pellets
MANUFACTURER:		Pel-Plug
FILTER PACK SAND:		20/30 Mesh
MANUFACTURER:		Filter Media
WELL SCREEN:		Sch. 40 - 2" PVC
MANUFACTURER:		Campbell Monoflex
SLOT SIZE:		0.010-Inch Slot
WELL CASING:		Sch. 40 - 2" PVC
MANUFACTURER:		Campbell Monoflex

Soil Descriptions from Unified Soil Classification System

BTOC - Below Top of Casing
ID - Inside Diameter; OD - Outside Diameter
MSL - Mean Sea Level
BGS - Below Ground Surface



ATLANTIC COAST CONSULTING, INC.

ARAMW-4

BORING ID

PROJECT: Plant Arkwright

PROJECT NO.: I054-110

TOTAL DEPTH: 57.70 ft. BTOC

SITE LOCATION: Macon, Georgia

DATE BEGIN: 21-Nov-2019

DRILLER: Chris Ruffer

DATE COMPLETE: 21-Nov-2019

RIG TYPE: T-300 Rotosonic

INSTALLED BY: Cascade

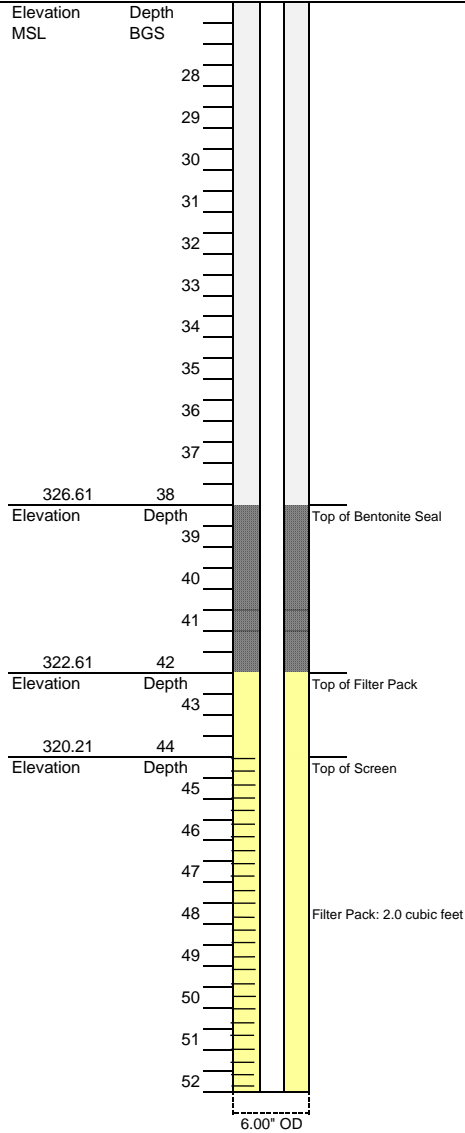
METHOD: Rotosonic

SUPERVISED BY: Jordan Berisford

WATER 1ST ENCOUNTERED: 25' BGS

WATER AFTER 48 HOURS: 22.46' BTOC

Core Photos



28-30' Saprolite, weathered rock (quartz present with trace fine gravel) silt with gravel (ML)

30-33' Boulder of rock (3' tall gneiss) at 33'

36-40' Silty gravels with sand, solid gray in color. Course gravel to cobbles of bedrock present. Well graded/poorly sorted.

40-45' Well fractured gneiss with iron staining. Pyrite inclusions present

45-50' As above

50-54' As above



MATERIALS:

GROUT:		Bentonite Grout
MANUFACTURER:		AquaGuard
BENTONITE SEAL:		3/8" Bentonite Pellets
MANUFACTURER:		PeI-Plug
FILTER PACK SAND:		20/30 Mesh
MANUFACTURER:		Filter Media
WELL SCREEN:		Sch. 40 - 2" PVC
MANUFACTURER:		Silver-Line
SLOT SIZE:		0.010-Inch Slot
WELL CASING:		Sch. 40 - 2" PVC
MANUFACTURER:		Silver-Line

TOC - Top of Casing
 ID - Inside Diameter; OD - Outside Diameter
 MSL - Mean Sea Level
 BGS - Below Ground Surface



ATLANTIC COAST CONSULTING, INC.

ARAMW-4

BORING ID

PROJECT: Plant Arkwright

PROJECT NO.: I054-110

TOTAL DEPTH: 57.70 ft. BTOC

SITE LOCATION: Macon, Georgia

DATE BEGIN: 21-Nov-2019

DRILLER: Chris Ruffer

DATE COMPLETE: 21-Nov-2019

RIG TYPE: T-300 Rotosonic

INSTALLED BY: Cascade

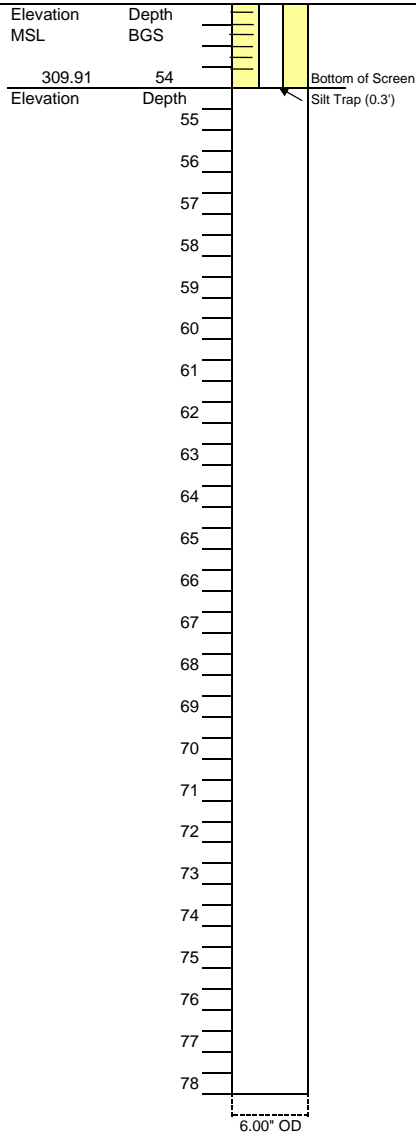
METHOD: Rotosonic

SUPERVISED BY: Jordan Berisford

WATER 1ST ENCOUNTERED: 25' BGS

WATER AFTER 48 HOURS: 22.46' BTOC

Core Photos



Total well depth 54.0' BGS



MATERIALS:

GROUT:		Bentonite Grout
MANUFACTURER:		AquaGuard
BENTONITE SEAL:		3/8" Bentonite Pellets
MANUFACTURER:		PeI-Plug
FILTER PACK SAND:		20/30 Mesh
MANUFACTURER:		Filter Media
WELL SCREEN:		Sch. 40 - 2" PVC
MANUFACTURER:		Silver-Line
SLOT SIZE:		0.010-Inch Slot
WELL CASING:		Sch. 40 - 2" PVC
MANUFACTURER:		Silver-Line

TOC - Top of Casing
 ID - Inside Diameter; OD - Outside Diameter
 MSL - Mean Sea Level
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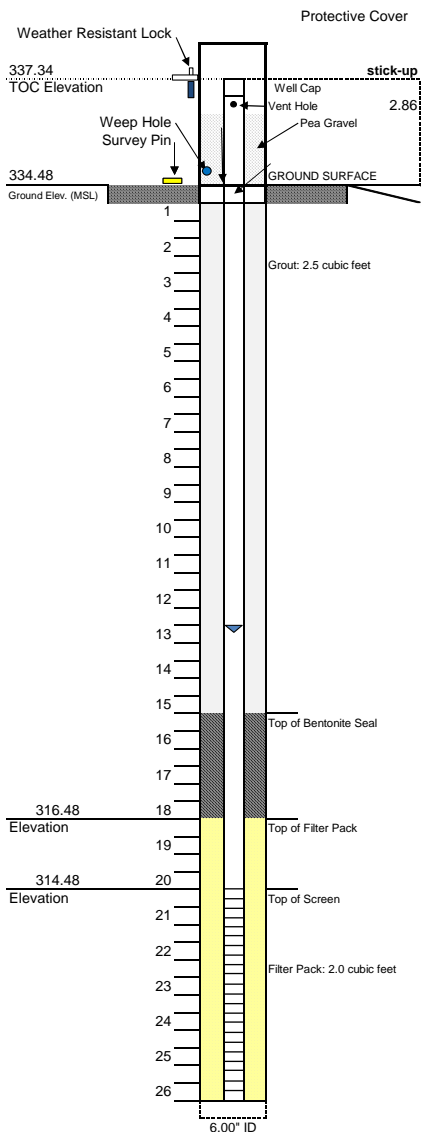
ATLANTIC COAST CONSULTING, INC.

ARAMW-6

BORING ID

PROJECT:	Plant Arkwright	PROJECT NO.:	I054-110
TOTAL DEPTH:	32.37 ft. BTOC	SITE LOCATION:	Macon, Georgia
DATE BEGIN:	25-Nov-2019	DRILLER:	Isaac Young
DATE COMPLETE:	25-Nov-2019	RIG TYPE:	T-300 Rotosonic
INSTALLED BY:	Cascade	METHOD:	Rotosonic
SUPERVISED BY:	Taylor Goble		
WATER 1ST ENCOUNTERED:	10.70' BGS		
WATER AFTER 48 HOURS:	12.45' BTOC		

Northing: 1064439.75
Easting: 2437607.875



SURFACE COMPLETION:
4"x4" Aluminum Protective Casing
4'x4' Concrete Pad
Weather Resistant Lock
Survey Pin

SOIL DESCRIPTION
0-5' Red silty clay (CL). Micaceous. Dry. Some organics present.
Hand augered

5-10' As above. Transition to a light brown silty clay at ~8'.
Hand augered

10-15' Light brown silty sand (SC) with white and black mottling. Moist

15-20' As above. Mottling disappears around 18'.

20-25' Mottled white and black silty sand (SC). Moist. Some large gravel pieces. High plasticity red clay lenses present.

25-30' As above except more clay present. Wet.

Core Photos



MATERIALS:

GROUT:		Bentonite Grout
MANUFACTURER:		AquaGuard
BENTONITE SEAL:		3/8" Bentonite Pellets
MANUFACTURER:		Pel-Plug
FILTER PACK SAND:		20/30 Mesh
MANUFACTURER:		Filter Media
WELL SCREEN:		Sch. 40 - 2" PVC
MANUFACTURER:		Campbell Monoflex
SLOT SIZE:		0.010-Inch Slot
WELL CASING:		Sch. 40 - 2" PVC
MANUFACTURER:		Campbell Monoflex

Soil Descriptions from Unified Soil Classification System

BTOC - Below Top of Casing
ID - Inside Diameter; OD - Outside Diameter
MSL - Mean Sea Level
BGS - Below Ground Surface



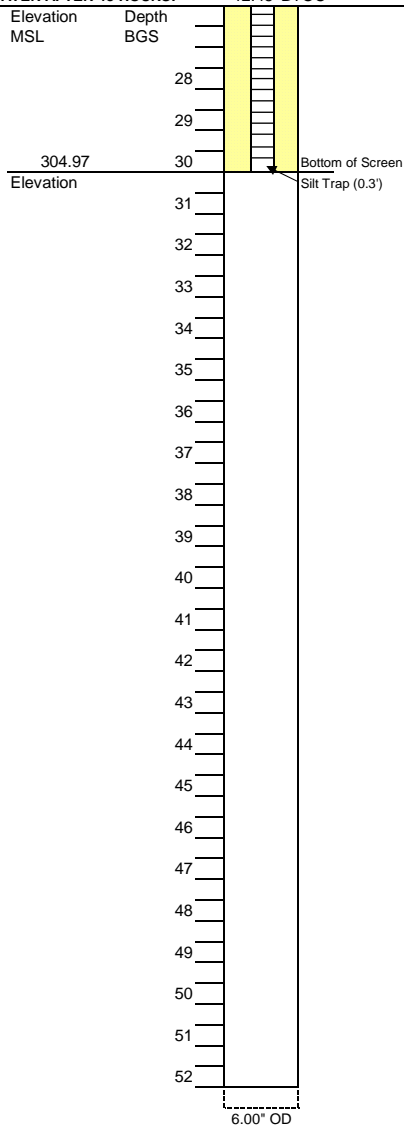
ATLANTIC COAST CONSULTING, INC.

ARAMW-6

BORING ID

PROJECT:	Plant Arkwright	PROJECT NO.:	I054-110
TOTAL DEPTH:	32.37 ft. BTOC	SITE LOCATION:	Macon, Georgia
DATE BEGIN:	25-Nov-2019	DRILLER:	Isaac Young
DATE COMPLETE:	25-Nov-2019	RIG TYPE:	T-300 Rotosonic
INSTALLED BY:	Cascade	METHOD:	Rotosonic
SUPERVISED BY:	Taylor Goble		
WATER 1ST ENCOUNTERED:	10.70' BGS		
WATER AFTER 48 HOURS:	12.45' BTOC		

Core Photos



Total well depth 30' BGS

MATERIALS:

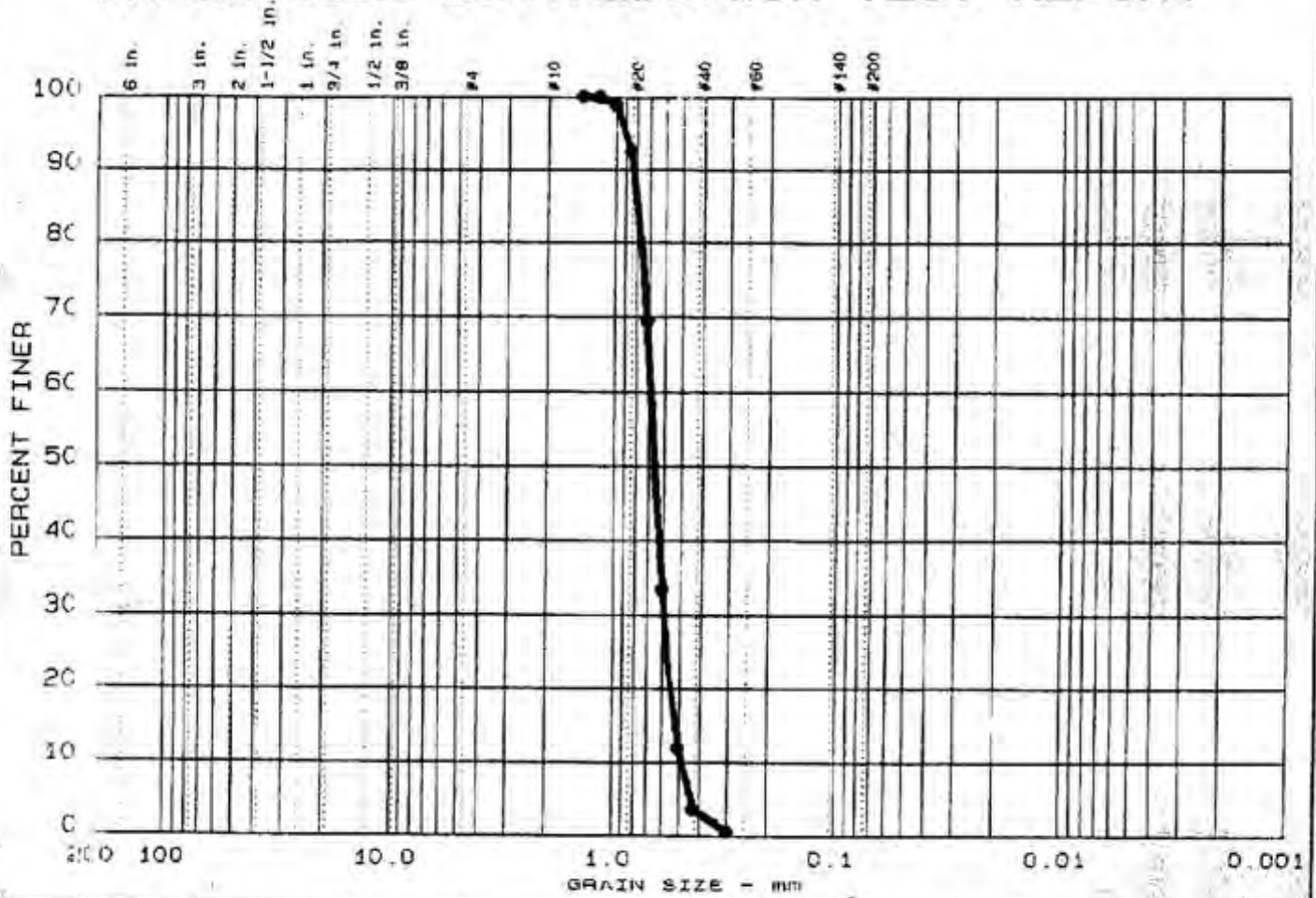
GROUT:		Bentonite Grout
MANUFACTURER:		AquaGuard
BENTONITE SEAL:		3/8" Bentonite Pellets
MANUFACTURER:		PeI-Plug
FILTER PACK SAND:		20/30 Mesh
MANUFACTURER:		Filter Media
WELL SCREEN:		Sch. 40 - 2" PVC
MANUFACTURER:		Silver-Line
SLOT SIZE:		0.010-Inch Slot
WELL CASING:		Sch. 40 - 2" PVC
MANUFACTURER:		Silver-Line

TOC - Top of Casing
 ID - Inside Diameter; OD - Outside Diameter
 MSL - Mean Sea Level
 BGS - Below Ground Surface

APPENDIX C

FILTER PACK GRAIN SIZE CURVE

GRAIN SIZE DISTRIBUTION TEST REPORT



U+75mm	% GRAVEL	% SAND	% SILT	% CLAY
()	0.0	100.0		

LL	PI	D₈₅	D₆₀	D₅₀	D₃₀	D₁₅	D₁₀	C_c	C_u
ND	ND	0.78	0.68	0.65	0.588	0.5182	0.4814	1.06	1.4

MATERIAL DESCRIPTION	USCS NO	AASHTO NO
● WELL GRAVEL PACK #1		

Project No.: 30774-2-5010-01
 Project SOUTHERN PRODUCTS & SILICA COMPANY
 ● Location: WELL GRAVEL PACK #1
 Date: 01-22-02

Remarks:
 ND=NOT DETERMINED

DESIGNED BY: *W. H. Hill*

APPENDIX D

WELL DEVELOPMENT FORMS

Atlantic Coast Consulting, Inc. Well Development Field Record

Job Name: <u>Plant Arkwright</u>	Job No. <u>I054-110 T8</u> Well No. <u>ARAMW-3</u>
Developed By: <u>O. Fuqea</u>	Date of Installation: <u>11/25/2019</u> Sheet <u>1</u> of <u>1</u>
Started Dev. <u>12-03-19 / 0820</u>	Completed Dev. <u>12-03-19 / 1035</u>
Date / Time	Date / Time
W.L. Before Dev. <u>25.32 / 12-03-19 / 0811</u>	W.L. After Dev. <u>49.20 / 12-03-19 / 1039</u>
BTOC / Date / Time	BTOC / Date / Time
Well Depth Before Dev.: <u>68.61</u> BTOC	Well Depth After Dev.: <u>68.9</u> BTOC
Water Column (H): <u>43.59</u> Ft. Well Dia.: <u>2</u> In.	Well Volume: <u>6.97</u> Gal.
Screen Length: <u>10</u> Ft.	

Date / Time	Volume Removed (Gal.)	Field Parameters				Remarks
		Specific Cond. (umhos/cm)	Temperature (oC)	pH (S.U.)	Turbidity (NTU)	
12/3/2019 0835	8.5	189.6	18.4	7.33	>1000	
12/3/2019 0840	10	225.1	18.5	6.99	577	
12/3/2019 0845	12	521.3	18.5	6.85	234	
12/3/2019 0850	15	631.3	18.54	6.86	280	
12/3/2019 0855	16	571.4	18.63	6.65	261	
12/3/2019 0900	17.5	536.9	18.7	6.57	202	
12/3/2019 0905	19	529.7	18.74	6.51	153	
12/3/2019 0910	21.5	493.7	18.78	6.46	99.1	
12/3/2019 0920	24	477.3	18.83	6.42	46.2	
12/3/2019 0925	26.5	448.3	18.82	6.39	36.5	
12/3/2019 0930	28.5	452.6	18.74	6.37	34.6	
12/3/2019 0940	30	445.5	18.78	6.35	18.4	
12/3/2019 0950	35.5	423.2	18.72	6.33	20.6	
12/3/2019 1000	38	423.2	18.78	6.31	13.8	
12/3/2019 1010	42	428.7	18.84	6.31	9.45	
12/3/2019 1020	47	420.1	18.87	6.29	8.61	
12/3/2019 1030	51	413.0	18.98	6.28	7.02	
12/3/2019 1035	53	420.2	18.81	6.29	4.90	Development complete
		Total Volume Removed (gal): 53				

Development Method: Surged Pump Q= 0.4 gpm

Surged with surge blockers and foot valve before starting development with submersible whale pump

Notes: H = well depth (BTOC) - W.L. (BTOC)
 Well volume in pipe:
 2" diameter well: 0.16 X H = volume in gallons
 4" diameter well: 0.66 X H = voume in gallons

Product Name: Low-Flow System

Date: 2019-09-17 14:01:09

Project Information:

Operator Name O. Fuquea
Company Name ACC
Project Name Arkwright
Site Name Arkwright
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 369557
Turbidity Make/Model Hach 2100

Pump Information:

Pump Model/Type Whale
Tubing Type poly
Tubing Diameter .375 in
Tubing Length 72 ft

Pump placement from TOC 68 ft

Well Information:

Well ID ARAMW-3
Well diameter 2 in
Well Total Depth 68.61 ft
Screen Length 10 ft
Depth to Water 25.32 ft

Pumping Information:

Final Pumping Rate 0 mL/min
Total System Volume 1.653743 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0 in
Total Volume Pumped 200.6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 100	+/- 0.1	+/- 5%	+/- 100		+/- 0.2	+/- 100
Last 5	13:34:43	6302.02	18.89	6.29	423.11	8.57	--	0.06	-393.13
Last 5	13:39:43	6602.03	18.87	6.29	420.12	8.61	--	0.06	-392.15
Last 5	13:44:43	6902.09	18.96	6.29	418.81	8.46	--	0.06	-388.62
Last 5	13:49:44	7203.04	18.98	6.28	413.00	7.02	--	0.06	-389.70
Last 5	13:54:44	7503.02	18.81	6.29	420.15	4.90	--	0.06	-383.05
Variance 0			0.09	-0.01	-1.31			-0.00	3.53
Variance 1			0.02	-0.01	-5.81			-0.00	-1.08
Variance 2			-0.17	0.01	7.15			0.00	6.65

Notes

Development start: 0820 end: 1035. WL: 25.32 end: 49.20. BTOC start: 68.61 end: 68.90.

Grab Samples

Product Name: Low-Flow System

Date: 2019-09-16 20:14:11

Project Information:

Operator Name O. Fuquea
Company Name ACC
Project Name Arkwright
Site Name Arkwright
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 369557
Turbidity Make/Model Hach 2100

Pump Information:

Pump Model/Type Whale
Tubing Type poly
Tubing Diameter .375 in
Tubing Length 53 ft

Pump placement from TOC 57 ft

Well Information:

Well ID ARAMW-4
Well diameter 2 in
Well Total Depth 57.70 ft
Screen Length 10 ft
Depth to Water 22.46 ft

Pumping Information:

Final Pumping Rate 0 mL/min
Total System Volume 1.241088 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0 in
Total Volume Pumped 177.9 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 100	+/- 0.1	+/- 5%	+/- 100		+/- 0.2	+/- 100
Last 5	19:40:05	2400.02	18.60	5.77	1129.52	15.30	--	0.05	-402.53
Last 5	19:45:05	2700.02	18.60	5.76	1129.57	10.00	--	0.05	-393.01
Last 5	19:50:05	3000.02	18.61	5.76	1129.74	8.03	--	0.05	-384.08
Last 5	19:55:05	3300.02	18.59	5.75	1130.01	5.27	--	0.05	-374.85
Last 5	20:00:05	3600.02	18.56	5.74	1129.86	4.49	--	0.05	-385.82
Variance 0			0.01	-0.01	0.17			-0.00	8.93
Variance 1			-0.02	-0.01	0.27			-0.00	9.23
Variance 2			-0.03	-0.01	-0.15			-0.00	-10.97

Notes

Development started at 1532 end: 1640. WL: 22.46 end: 31.40. BTOC start: 57.70 end: 57.70

Grab Samples

Product Name: Low-Flow System

Date: 2019-09-17 15:24:55

Project Information:

Operator Name O. Fuquea
Company Name ACC
Project Name Arkwright
Site Name Arkwright
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 369557
Turbidity Make/Model Hach 2100

Pump Information:

Pump Model/Type Whale
Tubing Type poly
Tubing Diameter .375 in
Tubing Length 37 ft

Pump placement from TOC 32 ft

Well Information:

Well ID ARAMW-6
Well diameter 2 in
Well Total Depth 32.37 ft
Screen Length 10 ft
Depth to Water 12.45 ft

Pumping Information:

Final Pumping Rate 0 mL/min
Total System Volume 0.89359 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0 in
Total Volume Pumped 130.6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 100	+/- 0.1	+/- 5%	+/- 100		+/- 100	+/- 100
Last 5	14:57:24	2100.02	19.94	6.34	299.67	11.70	--	3.66	35.45
Last 5	15:02:24	2400.02	19.98	6.33	300.19	27.30	--	3.31	27.68
Last 5	15:07:24	2700.03	19.98	6.32	300.56	17.20	--	3.15	24.02
Last 5	15:12:24	3000.03	20.03	6.32	301.14	12.20	--	3.08	22.03
Last 5	15:17:24	3300.02	19.94	6.31	301.61	4.16	--	3.08	21.06
Variance 0			0.00	-0.01	0.37			-0.16	-3.67
Variance 1			0.04	-0.01	0.58			-0.07	-1.99
Variance 2			-0.09	-0.00	0.47			0.00	-0.97

Notes

Development start: 1046 end:1200. WL start: 12.45 end: 25.62. BTOC start: 32.37 end 32.27.


Grab Samples

APPENDIX E

SURVEY DATA

ARKWRIGHT PIEZOMETER AND MONITORING WELLS 12-13-2019
 FIELD WORK 12-13-2019 BY FL BULLARD & FRANK KENNEY T&PS CIVIL FIELD SERVICES
 NAD 83 GEORGIA WEST ZONE, NAVD 1988, LAT-LONG, NORTHING & EASTING ARE FOR THE NAIL IN THE CONCRETE PAD

PIEZOMETER ID	LATITUDE DD	LONGITUDE DD	NAD 83 NORTHING	NAD 83 EASTING	ELEVATION TOP NAIL	ELEVATION TOP OF PVC	COMMENTS	ELEVATION GROUND
ARAMW1	32.9214266	83.7021468	1,062,937.14	2,439,119.67	305.69	308.67	AP2	305.59
ARAMW2	32.9213986	83.7021615	1,062,926.91	2,439,115.22	305.47	308.52	AP2	305.47
ARAMW3	32.9258269	83.7071719	1,064,531.31	2,437,570.76	352.38	355.35	AP3	352.35
ARAMW4	32.9283825	83.7057470	1,065,462.99	2,438,003.90	364.61	367.61	AP3	364.40
ARAMW6	32.9255748	83.7070522	1,064,439.75	2,437,607.88	334.48	337.34	AP3	334.47
ARPZ23	32.9212837	83.7018796	1,062,885.48	2,439,201.88	304.81	307.79	AP3	304.48
ARPZ22	32.9217073	83.7027774	1,063,038.40	2,438,925.73	307.31	310.18	AP3	307.13



[Signature] 12-20-2019

SURVEY DATA CERTIFICATION FOR SOUTHERN COMPANY TO DETERMINE NORTHING, EASTING AND VERTICAL ELEVATION OF THE NAIL AS LISTED ABOVE
 DATE OF FIELD SURVEY & INSPECTION 12-13-2019
 FIELD SURVEY POSITIONAL TOLERANCE = 0.5 FEET HORIZONTAL-NAD 83, 0.1 FEET VERTICAL-NA88
 EQUIPMENT USED TO RECORD DATA, LEICA (GPS) GS14 ANTENNA AND CS15 SENSOR

APPENDIX B

Field Sampling Logs and Analytical Data Reports for August and October 2019 and April

2020

ANALYTICAL REPORT

Eurofins TestAmerica, Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

Laboratory Job ID: 180-94593-1

Laboratory Sample Delivery Group: 1

Client Project/Site: CCR - Plant Arkwright Ash Pond 3

Sampling Event: PLANT ARKWRIGHT- AP-3

For:

Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Attn: Joju Abraham



Authorized for release by:

9/12/2019 4:27:46 PM

Veronica Bortot, Senior Project Manager

(412)963-2435

veronica.bortot@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

PA Lab ID: 02-00416



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Case Narrative

Client: Southern Company
Project/Site: CCR - Plant Arkwright Ash Pond 3

Job ID: 180-94593-1
SDG: 1

Job ID: 180-94593-1

Laboratory: Eurofins TestAmerica, Pittsburgh

Narrative

**Job Narrative
180-94593-1**

Comments

No additional comments.

Receipt

The samples were received on 8/23/2019 8:40 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 5 coolers at receipt time were 1.0° C, 1.6° C, 1.9° C, 2.3° C and 2.4° C.

GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

Definitions/Glossary

Client: Southern Company
Project/Site: CCR - Plant Arkwright Ash Pond 3

Job ID: 180-94593-1
SDG: 1

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: Southern Company
 Project/Site: CCR - Plant Arkwright Ash Pond 3

Job ID: 180-94593-1
 SDG: 1

Laboratory: Eurofins TestAmerica, Pittsburgh

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	19-033-0	06-27-20
Arkansas DEQ	State Program	88-0690	06-27-20
California	State	2891	04-30-20
California	State Program	2891	04-30-20
Connecticut	State	PH-0688	09-30-20
Connecticut	State Program	PH-0688	09-30-20
Florida	NELAP	E871008	06-30-20
Florida	NELAP	E871008	06-30-20
Illinois	NELAP	200005	06-30-20
Illinois	NELAP	004375	06-30-20
Kansas	NELAP	E-10350	01-31-20
Kansas	NELAP	E-10350	03-31-20
Kentucky (UST)	State Program	162013	04-30-20
Kentucky (WW)	State	KY98043	12-31-19
Kentucky (WW)	State Program	KY98043	12-31-19
Louisiana	NELAP	04041	06-30-20
Minnesota	NELAP	042-999-482	12-31-19
Minnesota	NELAP	042-999-482	12-31-19
Nevada	State	PA00164	07-31-20
Nevada	State Program	PA00164	07-31-20
New Hampshire	NELAP	2030	04-04-20
New Jersey	NELAP	PA005	06-30-20
New Jersey	NELAP	PA005	06-30-20
New York	NELAP	11182	03-31-20
New York	NELAP	11182	04-01-20
North Carolina (WW/SW)	State Program	434	12-31-19
North Dakota	State	R-227	04-30-20
North Dakota	State Program	R-227	04-30-20
Oregon	NELAP	PA-2151	02-06-20
Oregon	NELAP	PA-2151	02-06-20
Pennsylvania	NELAP	02-00416	04-30-20
Pennsylvania	NELAP	02-00416	04-30-20
Rhode Island	State	LAO00362	12-30-19
Rhode Island	State Program	LAO00362	12-30-19
South Carolina	State Program	89014	04-30-20
Texas	NELAP	T104704528-15-2	03-31-20
Texas	NELAP	T104704528	03-31-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	Federal	P-Soil-01	06-26-22
USDA	US Federal Programs	P330-16-00211	06-26-22
Utah	NELAP	PA001462015-4	05-31-20
Utah	NELAP	PA001462019-8	05-31-20
Virginia	NELAP	460189	09-14-19
Virginia	NELAP	10043	09-14-19
West Virginia DEP	State	142	01-31-20
West Virginia DEP	State Program	142	01-31-20
Wisconsin	State	998027800	08-31-20
Wisconsin	State Program	998027800	08-31-20

Sample Summary

Client: Southern Company
Project/Site: CCR - Plant Arkwright Ash Pond 3

Job ID: 180-94593-1
SDG: 1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
180-94593-1	ARGWA-3	Water	08/20/19 12:44	08/23/19 08:40	
180-94593-2	ARGWA-5	Water	08/20/19 16:49	08/23/19 08:40	
180-94593-3	ARGWA-12	Ground Water	08/20/19 14:02	08/23/19 08:40	
180-94593-4	ARGWA-13	Water	08/19/19 16:59	08/23/19 08:40	
180-94593-5	ARGWA-14	Water	08/21/19 09:10	08/23/19 08:40	
180-94593-6	ARGWC-7	Water	08/21/19 09:40	08/23/19 08:40	
180-94593-7	ARGWC-8	Water	08/21/19 13:22	08/23/19 08:40	
180-94593-8	ARGWC-9	Water	08/21/19 11:33	08/23/19 08:40	
180-94593-9	ARGWC-10	Water	08/21/19 14:45	08/23/19 08:40	
180-94593-10	ARGWC-15	Water	08/21/19 11:30	08/23/19 08:40	
180-94593-11	ARGWC-16	Water	08/20/19 16:59	08/23/19 08:40	
180-94593-12	ARGWC-17	Water	08/21/19 13:55	08/23/19 08:40	
180-94593-13	ARGWC-18	Water	08/21/19 10:18	08/23/19 08:40	
180-94593-14	EB-1-8-21-19	Water	08/21/19 15:05	08/23/19 08:40	
180-94593-15	FB-1-8-21-19	Water	08/21/19 10:35	08/23/19 08:40	
180-94593-16	DUP-1	Water	08/20/19 00:00	08/23/19 08:40	

Method Summary

Client: Southern Company
Project/Site: CCR - Plant Arkwright Ash Pond 3

Job ID: 180-94593-1
SDG: 1

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	TAL PIT
EPA 6020	Metals (ICP/MS)	SW846	TAL PIT
EPA 7470A	Mercury (CVAA)	SW846	TAL PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PIT
7470A	Preparation, Mercury	SW846	TAL PIT

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058



Lab Chronicle

Client: Southern Company
 Project/Site: CCR - Plant Arkwright Ash Pond 3

Job ID: 180-94593-1
 SDG: 1

Client Sample ID: ARGWA-3

Lab Sample ID: 180-94593-1

Date Collected: 08/20/19 12:44

Matrix: Water

Date Received: 08/23/19 08:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			290138	09/04/19 11:52	CMR	TAL PIT
Instrument ID: CHICS2000										
Total Recoverable	Prep	3005A			50 mL	50 mL	289413	08/27/19 10:33	KAK	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			290864	09/10/19 18:00	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	289565	08/28/19 11:33	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A		1			289762	08/29/19 17:37	KAK	TAL PIT
Instrument ID: HGZ										

Client Sample ID: ARGWA-5

Lab Sample ID: 180-94593-2

Date Collected: 08/20/19 16:49

Matrix: Water

Date Received: 08/23/19 08:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			290138	09/04/19 12:07	CMR	TAL PIT
Instrument ID: CHICS2000										
Total Recoverable	Prep	3005A			50 mL	50 mL	289413	08/27/19 10:33	KAK	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			290864	09/10/19 18:14	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	289565	08/28/19 11:33	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A		1			289762	08/29/19 17:38	KAK	TAL PIT
Instrument ID: HGZ										

Client Sample ID: ARGWA-12

Lab Sample ID: 180-94593-3

Date Collected: 08/20/19 14:02

Matrix: Ground Water

Date Received: 08/23/19 08:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			290138	09/04/19 12:22	CMR	TAL PIT
Instrument ID: CHICS2000										
Total Recoverable	Prep	3005A			50 mL	50 mL	289413	08/27/19 10:33	KAK	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			290864	09/10/19 18:17	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	289565	08/28/19 11:33	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A		1			289762	08/29/19 17:39	KAK	TAL PIT
Instrument ID: HGZ										

Client Sample ID: ARGWA-13

Lab Sample ID: 180-94593-4

Date Collected: 08/19/19 16:59

Matrix: Water

Date Received: 08/23/19 08:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			290138	09/04/19 12:37	CMR	TAL PIT
Instrument ID: CHICS2000										

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
 Project/Site: CCR - Plant Arkwright Ash Pond 3

Job ID: 180-94593-1
 SDG: 1

Client Sample ID: ARGWA-13

Lab Sample ID: 180-94593-4

Date Collected: 08/19/19 16:59

Matrix: Water

Date Received: 08/23/19 08:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	289413	08/27/19 10:33	KAK	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			290864	09/10/19 18:21	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	289565	08/28/19 11:33	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A		1			289762	08/29/19 17:40	KAK	TAL PIT
Instrument ID: HGZ										

Client Sample ID: ARGWA-14

Lab Sample ID: 180-94593-5

Date Collected: 08/21/19 09:10

Matrix: Water

Date Received: 08/23/19 08:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			290138	09/04/19 12:52	CMR	TAL PIT
Instrument ID: CHICS2000										
Total Recoverable	Prep	3005A			50 mL	50 mL	289413	08/27/19 10:33	KAK	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			290864	09/10/19 18:24	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	289565	08/28/19 11:33	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A		1			289762	08/29/19 17:44	KAK	TAL PIT
Instrument ID: HGZ										

Client Sample ID: ARGWC-7

Lab Sample ID: 180-94593-6

Date Collected: 08/21/19 09:40

Matrix: Water

Date Received: 08/23/19 08:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			290138	09/04/19 13:06	CMR	TAL PIT
Instrument ID: CHICS2000										
Total Recoverable	Prep	3005A			50 mL	50 mL	289413	08/27/19 10:33	KAK	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			290864	09/10/19 18:34	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	289568	08/28/19 11:36	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A		1			289762	08/29/19 16:57	KAK	TAL PIT
Instrument ID: HGZ										

Client Sample ID: ARGWC-8

Lab Sample ID: 180-94593-7

Date Collected: 08/21/19 13:22

Matrix: Water

Date Received: 08/23/19 08:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			290138	09/04/19 13:21	CMR	TAL PIT
Instrument ID: CHICS2000										
Total Recoverable	Prep	3005A			50 mL	50 mL	289413	08/27/19 10:33	KAK	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			290864	09/10/19 18:37	RSK	TAL PIT
Instrument ID: A										

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Arkwright Ash Pond 3

Job ID: 180-94593-1
SDG: 1

Client Sample ID: ARGWC-8

Lab Sample ID: 180-94593-7

Date Collected: 08/21/19 13:22

Matrix: Water

Date Received: 08/23/19 08:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			50 mL	50 mL	289568	08/28/19 11:36	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A		1			289762	08/29/19 16:58	KAK	TAL PIT
Instrument ID: HGZ										

Client Sample ID: ARGWC-9

Lab Sample ID: 180-94593-8

Date Collected: 08/21/19 11:33

Matrix: Water

Date Received: 08/23/19 08:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			290138	09/04/19 14:06	CMR	TAL PIT
Instrument ID: CHICS2000										
Total Recoverable	Prep	3005A			50 mL	50 mL	289413	08/27/19 10:33	KAK	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			290864	09/10/19 18:41	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	289568	08/28/19 11:36	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A		1			289762	08/29/19 16:59	KAK	TAL PIT
Instrument ID: HGZ										

Client Sample ID: ARGWC-10

Lab Sample ID: 180-94593-9

Date Collected: 08/21/19 14:45

Matrix: Water

Date Received: 08/23/19 08:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			290138	09/04/19 14:51	CMR	TAL PIT
Instrument ID: CHICS2000										
Total Recoverable	Prep	3005A			50 mL	50 mL	289413	08/27/19 10:33	KAK	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			290864	09/10/19 18:44	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	289568	08/28/19 11:36	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A		1			289762	08/29/19 17:00	KAK	TAL PIT
Instrument ID: HGZ										

Client Sample ID: ARGWC-15

Lab Sample ID: 180-94593-10

Date Collected: 08/21/19 11:30

Matrix: Water

Date Received: 08/23/19 08:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			290138	09/04/19 15:06	CMR	TAL PIT
Instrument ID: CHICS2000										
Total Recoverable	Prep	3005A			50 mL	50 mL	289413	08/27/19 10:33	KAK	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			290864	09/10/19 18:48	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	289568	08/28/19 11:36	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A		1			289762	08/29/19 17:01	KAK	TAL PIT
Instrument ID: HGZ										

Lab Chronicle

Client: Southern Company
 Project/Site: CCR - Plant Arkwright Ash Pond 3

Job ID: 180-94593-1
 SDG: 1

Client Sample ID: ARGWC-16

Lab Sample ID: 180-94593-11

Date Collected: 08/20/19 16:59

Matrix: Water

Date Received: 08/23/19 08:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			290138	09/04/19 15:21	CMR	TAL PIT
Instrument ID: CHICS2000										
Total Recoverable	Prep	3005A			50 mL	50 mL	289413	08/27/19 10:33	KAK	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			290864	09/10/19 18:51	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	289568	08/28/19 11:36	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A		1			289762	08/29/19 17:01	KAK	TAL PIT
Instrument ID: HGZ										

Client Sample ID: ARGWC-17

Lab Sample ID: 180-94593-12

Date Collected: 08/21/19 13:55

Matrix: Water

Date Received: 08/23/19 08:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			290138	09/04/19 15:36	CMR	TAL PIT
Instrument ID: CHICS2000										
Total Recoverable	Prep	3005A			50 mL	50 mL	289413	08/27/19 10:33	KAK	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			290864	09/10/19 18:54	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	289568	08/28/19 11:36	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A		1			289762	08/29/19 17:02	KAK	TAL PIT
Instrument ID: HGZ										

Client Sample ID: ARGWC-18

Lab Sample ID: 180-94593-13

Date Collected: 08/21/19 10:18

Matrix: Water

Date Received: 08/23/19 08:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			290138	09/04/19 15:51	CMR	TAL PIT
Instrument ID: CHICS2000										
Total Recoverable	Prep	3005A			50 mL	50 mL	289413	08/27/19 10:33	KAK	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			290864	09/10/19 18:58	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	289568	08/28/19 11:36	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A		1			289762	08/29/19 17:06	KAK	TAL PIT
Instrument ID: HGZ										

Client Sample ID: EB-1-8-21-19

Lab Sample ID: 180-94593-14

Date Collected: 08/21/19 15:05

Matrix: Water

Date Received: 08/23/19 08:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			290138	09/04/19 16:05	CMR	TAL PIT
Instrument ID: CHICS2000										

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Arkwright Ash Pond 3

Job ID: 180-94593-1
SDG: 1

Client Sample ID: EB-1-8-21-19

Lab Sample ID: 180-94593-14

Date Collected: 08/21/19 15:05

Matrix: Water

Date Received: 08/23/19 08:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	289413	08/27/19 10:33	KAK	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			290864	09/10/19 19:01	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	289568	08/28/19 11:36	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A		1			289762	08/29/19 17:07	KAK	TAL PIT
Instrument ID: HGZ										

Client Sample ID: FB-1-8-21-19

Lab Sample ID: 180-94593-15

Date Collected: 08/21/19 10:35

Matrix: Water

Date Received: 08/23/19 08:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			290138	09/04/19 16:20	CMR	TAL PIT
Instrument ID: CHICS2000										
Total Recoverable	Prep	3005A			50 mL	50 mL	289413	08/27/19 10:33	KAK	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			290864	09/10/19 19:05	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	289568	08/28/19 11:36	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A		1			289762	08/29/19 17:08	KAK	TAL PIT
Instrument ID: HGZ										

Client Sample ID: DUP-1

Lab Sample ID: 180-94593-16

Date Collected: 08/20/19 00:00

Matrix: Water

Date Received: 08/23/19 08:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			290138	09/04/19 17:05	CMR	TAL PIT
Instrument ID: CHICS2000										
Total Recoverable	Prep	3005A			50 mL	50 mL	289413	08/27/19 10:33	KAK	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			290864	09/10/19 19:15	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	289568	08/28/19 11:36	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A		1			289762	08/29/19 17:09	KAK	TAL PIT
Instrument ID: HGZ										

Laboratory References:

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Analyst References:

Lab: TAL PIT

Batch Type: Prep

KAK = Kayla Kalamasz

MM1 = Mary Beth Miller

Batch Type: Analysis

CMR = Carl Reagle

KAK = Kayla Kalamasz

RSK = Robert Kurtz

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Arkwright Ash Pond 3

Job ID: 180-94593-1
SDG: 1

Client Sample ID: ARGWA-3

Lab Sample ID: 180-94593-1

Date Collected: 08/20/19 12:44

Matrix: Water

Date Received: 08/23/19 08:40

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.053	J	0.20	0.026	mg/L			09/04/19 11:52	1

Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00045	J	0.0010	0.00032	mg/L		08/27/19 10:33	09/10/19 18:00	1
Barium	0.020		0.010	0.0016	mg/L		08/27/19 10:33	09/10/19 18:00	1
Beryllium	0.00025	J	0.0010	0.00018	mg/L		08/27/19 10:33	09/10/19 18:00	1
Cadmium	0.00014	J	0.0010	0.00013	mg/L		08/27/19 10:33	09/10/19 18:00	1
Cobalt	0.00018	J	0.00050	0.000075	mg/L		08/27/19 10:33	09/10/19 18:00	1
Chromium	0.0039		0.0020	0.0015	mg/L		08/27/19 10:33	09/10/19 18:00	1
Molybdenum	<0.00061		0.0050	0.00061	mg/L		08/27/19 10:33	09/10/19 18:00	1
Lead	0.00014	J	0.0010	0.00013	mg/L		08/27/19 10:33	09/10/19 18:00	1
Antimony	<0.00038		0.0020	0.00038	mg/L		08/27/19 10:33	09/10/19 18:00	1
Selenium	<0.0015		0.0050	0.0015	mg/L		08/27/19 10:33	09/10/19 18:00	1
Thallium	0.00020	J	0.0010	0.00015	mg/L		08/27/19 10:33	09/10/19 18:00	1
Lithium	<0.0034		0.0050	0.0034	mg/L		08/27/19 10:33	09/10/19 18:00	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		08/28/19 11:33	08/29/19 17:37	1

Client Sample ID: ARGWA-5

Lab Sample ID: 180-94593-2

Date Collected: 08/20/19 16:49

Matrix: Water

Date Received: 08/23/19 08:40

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.047	J	0.20	0.026	mg/L			09/04/19 12:07	1

Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00058	J	0.0010	0.00032	mg/L		08/27/19 10:33	09/10/19 18:14	1
Barium	0.029		0.010	0.0016	mg/L		08/27/19 10:33	09/10/19 18:14	1
Beryllium	0.00035	J	0.0010	0.00018	mg/L		08/27/19 10:33	09/10/19 18:14	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		08/27/19 10:33	09/10/19 18:14	1
Cobalt	0.00012	J	0.00050	0.000075	mg/L		08/27/19 10:33	09/10/19 18:14	1
Chromium	0.0032		0.0020	0.0015	mg/L		08/27/19 10:33	09/10/19 18:14	1
Molybdenum	<0.00061		0.0050	0.00061	mg/L		08/27/19 10:33	09/10/19 18:14	1
Lead	0.00014	J	0.0010	0.00013	mg/L		08/27/19 10:33	09/10/19 18:14	1
Antimony	<0.00038		0.0020	0.00038	mg/L		08/27/19 10:33	09/10/19 18:14	1
Selenium	<0.0015		0.0050	0.0015	mg/L		08/27/19 10:33	09/10/19 18:14	1
Thallium	0.00023	J	0.0010	0.00015	mg/L		08/27/19 10:33	09/10/19 18:14	1
Lithium	<0.0034		0.0050	0.0034	mg/L		08/27/19 10:33	09/10/19 18:14	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		08/28/19 11:33	08/29/19 17:38	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Arkwright Ash Pond 3

Job ID: 180-94593-1
SDG: 1

Client Sample ID: ARGWA-12

Lab Sample ID: 180-94593-3

Date Collected: 08/20/19 14:02

Matrix: Ground Water

Date Received: 08/23/19 08:40

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.049	J	0.20	0.026	mg/L			09/04/19 12:22	1

Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00046	J	0.0010	0.00032	mg/L		08/27/19 10:33	09/10/19 18:17	1
Barium	0.075		0.010	0.0016	mg/L		08/27/19 10:33	09/10/19 18:17	1
Beryllium	<0.00018		0.0010	0.00018	mg/L		08/27/19 10:33	09/10/19 18:17	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		08/27/19 10:33	09/10/19 18:17	1
Cobalt	0.00019	J	0.00050	0.000075	mg/L		08/27/19 10:33	09/10/19 18:17	1
Chromium	0.0026		0.0020	0.0015	mg/L		08/27/19 10:33	09/10/19 18:17	1
Molybdenum	<0.00061		0.0050	0.00061	mg/L		08/27/19 10:33	09/10/19 18:17	1
Lead	<0.00013		0.0010	0.00013	mg/L		08/27/19 10:33	09/10/19 18:17	1
Antimony	<0.00038		0.0020	0.00038	mg/L		08/27/19 10:33	09/10/19 18:17	1
Selenium	<0.0015		0.0050	0.0015	mg/L		08/27/19 10:33	09/10/19 18:17	1
Thallium	<0.00015		0.0010	0.00015	mg/L		08/27/19 10:33	09/10/19 18:17	1
Lithium	0.0053		0.0050	0.0034	mg/L		08/27/19 10:33	09/10/19 18:17	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		08/28/19 11:33	08/29/19 17:39	1

Client Sample ID: ARGWA-13

Lab Sample ID: 180-94593-4

Date Collected: 08/19/19 16:59

Matrix: Water

Date Received: 08/23/19 08:40

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.026		0.20	0.026	mg/L			09/04/19 12:37	1

Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00045	J	0.0010	0.00032	mg/L		08/27/19 10:33	09/10/19 18:21	1
Barium	0.035		0.010	0.0016	mg/L		08/27/19 10:33	09/10/19 18:21	1
Beryllium	<0.00018		0.0010	0.00018	mg/L		08/27/19 10:33	09/10/19 18:21	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		08/27/19 10:33	09/10/19 18:21	1
Cobalt	0.00029	J	0.00050	0.000075	mg/L		08/27/19 10:33	09/10/19 18:21	1
Chromium	0.0016	J	0.0020	0.0015	mg/L		08/27/19 10:33	09/10/19 18:21	1
Molybdenum	<0.00061		0.0050	0.00061	mg/L		08/27/19 10:33	09/10/19 18:21	1
Lead	<0.00013		0.0010	0.00013	mg/L		08/27/19 10:33	09/10/19 18:21	1
Antimony	<0.00038		0.0020	0.00038	mg/L		08/27/19 10:33	09/10/19 18:21	1
Selenium	0.034		0.0050	0.0015	mg/L		08/27/19 10:33	09/10/19 18:21	1
Thallium	<0.00015		0.0010	0.00015	mg/L		08/27/19 10:33	09/10/19 18:21	1
Lithium	0.0058		0.0050	0.0034	mg/L		08/27/19 10:33	09/10/19 18:21	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		08/28/19 11:33	08/29/19 17:40	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Arkwright Ash Pond 3

Job ID: 180-94593-1
SDG: 1

Client Sample ID: ARGWA-14

Lab Sample ID: 180-94593-5

Date Collected: 08/21/19 09:10

Matrix: Water

Date Received: 08/23/19 08:40

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.35		0.20	0.026	mg/L			09/04/19 12:52	1

Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0013		0.0010	0.00032	mg/L		08/27/19 10:33	09/10/19 18:24	1
Barium	0.031		0.010	0.0016	mg/L		08/27/19 10:33	09/10/19 18:24	1
Beryllium	<0.00018		0.0010	0.00018	mg/L		08/27/19 10:33	09/10/19 18:24	1
Cadmium	0.00015	J	0.0010	0.00013	mg/L		08/27/19 10:33	09/10/19 18:24	1
Cobalt	0.00022	J	0.00050	0.000075	mg/L		08/27/19 10:33	09/10/19 18:24	1
Chromium	<0.00015		0.0020	0.0015	mg/L		08/27/19 10:33	09/10/19 18:24	1
Molybdenum	0.0020	J	0.0050	0.00061	mg/L		08/27/19 10:33	09/10/19 18:24	1
Lead	0.00019	J	0.0010	0.00013	mg/L		08/27/19 10:33	09/10/19 18:24	1
Antimony	0.00064	J	0.0020	0.00038	mg/L		08/27/19 10:33	09/10/19 18:24	1
Selenium	<0.00015		0.0050	0.0015	mg/L		08/27/19 10:33	09/10/19 18:24	1
Thallium	<0.00015		0.0010	0.00015	mg/L		08/27/19 10:33	09/10/19 18:24	1
Lithium	<0.0034		0.0050	0.0034	mg/L		08/27/19 10:33	09/10/19 18:24	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		08/28/19 11:33	08/29/19 17:44	1

Client Sample ID: ARGWC-7

Lab Sample ID: 180-94593-6

Date Collected: 08/21/19 09:40

Matrix: Water

Date Received: 08/23/19 08:40

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.026		0.20	0.026	mg/L			09/04/19 13:06	1

Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00032		0.0010	0.00032	mg/L		08/27/19 10:33	09/10/19 18:34	1
Barium	0.041		0.010	0.0016	mg/L		08/27/19 10:33	09/10/19 18:34	1
Beryllium	<0.00018		0.0010	0.00018	mg/L		08/27/19 10:33	09/10/19 18:34	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		08/27/19 10:33	09/10/19 18:34	1
Cobalt	0.000086	J	0.00050	0.000075	mg/L		08/27/19 10:33	09/10/19 18:34	1
Chromium	0.0046		0.0020	0.0015	mg/L		08/27/19 10:33	09/10/19 18:34	1
Molybdenum	<0.00061		0.0050	0.00061	mg/L		08/27/19 10:33	09/10/19 18:34	1
Lead	<0.00013		0.0010	0.00013	mg/L		08/27/19 10:33	09/10/19 18:34	1
Antimony	<0.00038		0.0020	0.00038	mg/L		08/27/19 10:33	09/10/19 18:34	1
Selenium	<0.00015		0.0050	0.0015	mg/L		08/27/19 10:33	09/10/19 18:34	1
Thallium	<0.00015		0.0010	0.00015	mg/L		08/27/19 10:33	09/10/19 18:34	1
Lithium	0.0034	J	0.0050	0.0034	mg/L		08/27/19 10:33	09/10/19 18:34	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		08/28/19 11:36	08/29/19 16:57	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Arkwright Ash Pond 3

Job ID: 180-94593-1
SDG: 1

Client Sample ID: ARGWC-8

Lab Sample ID: 180-94593-7

Date Collected: 08/21/19 13:22

Matrix: Water

Date Received: 08/23/19 08:40

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.12	J	0.20	0.026	mg/L			09/04/19 13:21	1

Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00036	J	0.0010	0.00032	mg/L		08/27/19 10:33	09/10/19 18:37	1
Barium	0.052		0.010	0.0016	mg/L		08/27/19 10:33	09/10/19 18:37	1
Beryllium	<0.00018		0.0010	0.00018	mg/L		08/27/19 10:33	09/10/19 18:37	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		08/27/19 10:33	09/10/19 18:37	1
Cobalt	0.00021	J	0.00050	0.000075	mg/L		08/27/19 10:33	09/10/19 18:37	1
Chromium	0.0015	J	0.0020	0.0015	mg/L		08/27/19 10:33	09/10/19 18:37	1
Molybdenum	0.051		0.0050	0.00061	mg/L		08/27/19 10:33	09/10/19 18:37	1
Lead	<0.00013		0.0010	0.00013	mg/L		08/27/19 10:33	09/10/19 18:37	1
Antimony	<0.00038		0.0020	0.00038	mg/L		08/27/19 10:33	09/10/19 18:37	1
Selenium	<0.0015		0.0050	0.0015	mg/L		08/27/19 10:33	09/10/19 18:37	1
Thallium	<0.00015		0.0010	0.00015	mg/L		08/27/19 10:33	09/10/19 18:37	1
Lithium	<0.0034		0.0050	0.0034	mg/L		08/27/19 10:33	09/10/19 18:37	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		08/28/19 11:36	08/29/19 16:58	1

Client Sample ID: ARGWC-9

Lab Sample ID: 180-94593-8

Date Collected: 08/21/19 11:33

Matrix: Water

Date Received: 08/23/19 08:40

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.030	J	0.20	0.026	mg/L			09/04/19 14:06	1

Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00032		0.0010	0.00032	mg/L		08/27/19 10:33	09/10/19 18:41	1
Barium	0.045		0.010	0.0016	mg/L		08/27/19 10:33	09/10/19 18:41	1
Beryllium	<0.00018		0.0010	0.00018	mg/L		08/27/19 10:33	09/10/19 18:41	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		08/27/19 10:33	09/10/19 18:41	1
Cobalt	<0.000075		0.00050	0.000075	mg/L		08/27/19 10:33	09/10/19 18:41	1
Chromium	0.0097		0.0020	0.0015	mg/L		08/27/19 10:33	09/10/19 18:41	1
Molybdenum	<0.00061		0.0050	0.00061	mg/L		08/27/19 10:33	09/10/19 18:41	1
Lead	<0.00013		0.0010	0.00013	mg/L		08/27/19 10:33	09/10/19 18:41	1
Antimony	<0.00038		0.0020	0.00038	mg/L		08/27/19 10:33	09/10/19 18:41	1
Selenium	<0.0015		0.0050	0.0015	mg/L		08/27/19 10:33	09/10/19 18:41	1
Thallium	<0.00015		0.0010	0.00015	mg/L		08/27/19 10:33	09/10/19 18:41	1
Lithium	<0.0034		0.0050	0.0034	mg/L		08/27/19 10:33	09/10/19 18:41	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		08/28/19 11:36	08/29/19 16:59	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Arkwright Ash Pond 3

Job ID: 180-94593-1
SDG: 1

Client Sample ID: ARGWC-10

Lab Sample ID: 180-94593-9

Date Collected: 08/21/19 14:45

Matrix: Water

Date Received: 08/23/19 08:40

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.047	J	0.20	0.026	mg/L			09/04/19 14:51	1

Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00040	J	0.0010	0.00032	mg/L		08/27/19 10:33	09/10/19 18:44	1
Barium	0.035		0.010	0.0016	mg/L		08/27/19 10:33	09/10/19 18:44	1
Beryllium	<0.00018		0.0010	0.00018	mg/L		08/27/19 10:33	09/10/19 18:44	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		08/27/19 10:33	09/10/19 18:44	1
Cobalt	0.00017	J	0.00050	0.000075	mg/L		08/27/19 10:33	09/10/19 18:44	1
Chromium	0.0073		0.0020	0.0015	mg/L		08/27/19 10:33	09/10/19 18:44	1
Molybdenum	<0.00061		0.0050	0.00061	mg/L		08/27/19 10:33	09/10/19 18:44	1
Lead	<0.00013		0.0010	0.00013	mg/L		08/27/19 10:33	09/10/19 18:44	1
Antimony	<0.00038		0.0020	0.00038	mg/L		08/27/19 10:33	09/10/19 18:44	1
Selenium	<0.0015		0.0050	0.0015	mg/L		08/27/19 10:33	09/10/19 18:44	1
Thallium	<0.00015		0.0010	0.00015	mg/L		08/27/19 10:33	09/10/19 18:44	1
Lithium	<0.0034		0.0050	0.0034	mg/L		08/27/19 10:33	09/10/19 18:44	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		08/28/19 11:36	08/29/19 17:00	1

Client Sample ID: ARGWC-15

Lab Sample ID: 180-94593-10

Date Collected: 08/21/19 11:30

Matrix: Water

Date Received: 08/23/19 08:40

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.10	J	0.20	0.026	mg/L			09/04/19 15:06	1

Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00036	J	0.0010	0.00032	mg/L		08/27/19 10:33	09/10/19 18:48	1
Barium	0.033		0.010	0.0016	mg/L		08/27/19 10:33	09/10/19 18:48	1
Beryllium	<0.00018		0.0010	0.00018	mg/L		08/27/19 10:33	09/10/19 18:48	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		08/27/19 10:33	09/10/19 18:48	1
Cobalt	0.00048	J	0.00050	0.000075	mg/L		08/27/19 10:33	09/10/19 18:48	1
Chromium	0.0017	J	0.0020	0.0015	mg/L		08/27/19 10:33	09/10/19 18:48	1
Molybdenum	0.0017	J	0.0050	0.00061	mg/L		08/27/19 10:33	09/10/19 18:48	1
Lead	<0.00013		0.0010	0.00013	mg/L		08/27/19 10:33	09/10/19 18:48	1
Antimony	<0.00038		0.0020	0.00038	mg/L		08/27/19 10:33	09/10/19 18:48	1
Selenium	<0.0015		0.0050	0.0015	mg/L		08/27/19 10:33	09/10/19 18:48	1
Thallium	<0.00015		0.0010	0.00015	mg/L		08/27/19 10:33	09/10/19 18:48	1
Lithium	<0.0034		0.0050	0.0034	mg/L		08/27/19 10:33	09/10/19 18:48	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		08/28/19 11:36	08/29/19 17:01	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Arkwright Ash Pond 3

Job ID: 180-94593-1
 SDG: 1

Client Sample ID: ARGWC-16

Lab Sample ID: 180-94593-11

Date Collected: 08/20/19 16:59

Matrix: Water

Date Received: 08/23/19 08:40

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.033	J	0.20	0.026	mg/L			09/04/19 15:21	1

Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00032		0.0010	0.00032	mg/L		08/27/19 10:33	09/10/19 18:51	1
Barium	0.046		0.010	0.0016	mg/L		08/27/19 10:33	09/10/19 18:51	1
Beryllium	<0.00018		0.0010	0.00018	mg/L		08/27/19 10:33	09/10/19 18:51	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		08/27/19 10:33	09/10/19 18:51	1
Cobalt	0.00016	J	0.00050	0.000075	mg/L		08/27/19 10:33	09/10/19 18:51	1
Chromium	0.0025		0.0020	0.0015	mg/L		08/27/19 10:33	09/10/19 18:51	1
Molybdenum	<0.00061		0.0050	0.00061	mg/L		08/27/19 10:33	09/10/19 18:51	1
Lead	<0.00013		0.0010	0.00013	mg/L		08/27/19 10:33	09/10/19 18:51	1
Antimony	<0.00038		0.0020	0.00038	mg/L		08/27/19 10:33	09/10/19 18:51	1
Selenium	<0.0015		0.0050	0.0015	mg/L		08/27/19 10:33	09/10/19 18:51	1
Thallium	<0.00015		0.0010	0.00015	mg/L		08/27/19 10:33	09/10/19 18:51	1
Lithium	<0.0034		0.0050	0.0034	mg/L		08/27/19 10:33	09/10/19 18:51	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		08/28/19 11:36	08/29/19 17:01	1

Client Sample ID: ARGWC-17

Lab Sample ID: 180-94593-12

Date Collected: 08/21/19 13:55

Matrix: Water

Date Received: 08/23/19 08:40

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.031	J	0.20	0.026	mg/L			09/04/19 15:36	1

Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00044	J	0.0010	0.00032	mg/L		08/27/19 10:33	09/10/19 18:54	1
Barium	0.050		0.010	0.0016	mg/L		08/27/19 10:33	09/10/19 18:54	1
Beryllium	0.00025	J	0.0010	0.00018	mg/L		08/27/19 10:33	09/10/19 18:54	1
Cadmium	0.00013	J	0.0010	0.00013	mg/L		08/27/19 10:33	09/10/19 18:54	1
Cobalt	0.018		0.00050	0.000075	mg/L		08/27/19 10:33	09/10/19 18:54	1
Chromium	<0.0015		0.0020	0.0015	mg/L		08/27/19 10:33	09/10/19 18:54	1
Molybdenum	<0.00061		0.0050	0.00061	mg/L		08/27/19 10:33	09/10/19 18:54	1
Lead	<0.00013		0.0010	0.00013	mg/L		08/27/19 10:33	09/10/19 18:54	1
Antimony	<0.00038		0.0020	0.00038	mg/L		08/27/19 10:33	09/10/19 18:54	1
Selenium	<0.0015		0.0050	0.0015	mg/L		08/27/19 10:33	09/10/19 18:54	1
Thallium	<0.00015		0.0010	0.00015	mg/L		08/27/19 10:33	09/10/19 18:54	1
Lithium	<0.0034		0.0050	0.0034	mg/L		08/27/19 10:33	09/10/19 18:54	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		08/28/19 11:36	08/29/19 17:02	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Arkwright Ash Pond 3

Job ID: 180-94593-1
SDG: 1

Client Sample ID: ARGWC-18

Lab Sample ID: 180-94593-13

Date Collected: 08/21/19 10:18

Matrix: Water

Date Received: 08/23/19 08:40

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.079	J	0.20	0.026	mg/L			09/04/19 15:51	1

Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00033	J	0.0010	0.00032	mg/L		08/27/19 10:33	09/10/19 18:58	1
Barium	0.036		0.010	0.0016	mg/L		08/27/19 10:33	09/10/19 18:58	1
Beryllium	<0.00018		0.0010	0.00018	mg/L		08/27/19 10:33	09/10/19 18:58	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		08/27/19 10:33	09/10/19 18:58	1
Cobalt	0.0012		0.00050	0.000075	mg/L		08/27/19 10:33	09/10/19 18:58	1
Chromium	<0.0015		0.0020	0.0015	mg/L		08/27/19 10:33	09/10/19 18:58	1
Molybdenum	<0.00061		0.0050	0.00061	mg/L		08/27/19 10:33	09/10/19 18:58	1
Lead	<0.00013		0.0010	0.00013	mg/L		08/27/19 10:33	09/10/19 18:58	1
Antimony	<0.00038		0.0020	0.00038	mg/L		08/27/19 10:33	09/10/19 18:58	1
Selenium	<0.0015		0.0050	0.0015	mg/L		08/27/19 10:33	09/10/19 18:58	1
Thallium	<0.00015		0.0010	0.00015	mg/L		08/27/19 10:33	09/10/19 18:58	1
Lithium	0.0036	J	0.0050	0.0034	mg/L		08/27/19 10:33	09/10/19 18:58	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		08/28/19 11:36	08/29/19 17:06	1

Client Sample ID: EB-1-8-21-19

Lab Sample ID: 180-94593-14

Date Collected: 08/21/19 15:05

Matrix: Water

Date Received: 08/23/19 08:40

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.026		0.20	0.026	mg/L			09/04/19 16:05	1

Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00036	J	0.0010	0.00032	mg/L		08/27/19 10:33	09/10/19 19:01	1
Barium	<0.0016		0.010	0.0016	mg/L		08/27/19 10:33	09/10/19 19:01	1
Beryllium	<0.00018		0.0010	0.00018	mg/L		08/27/19 10:33	09/10/19 19:01	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		08/27/19 10:33	09/10/19 19:01	1
Cobalt	<0.000075		0.00050	0.000075	mg/L		08/27/19 10:33	09/10/19 19:01	1
Chromium	<0.0015		0.0020	0.0015	mg/L		08/27/19 10:33	09/10/19 19:01	1
Molybdenum	<0.00061		0.0050	0.00061	mg/L		08/27/19 10:33	09/10/19 19:01	1
Lead	<0.00013		0.0010	0.00013	mg/L		08/27/19 10:33	09/10/19 19:01	1
Antimony	<0.00038		0.0020	0.00038	mg/L		08/27/19 10:33	09/10/19 19:01	1
Selenium	<0.0015		0.0050	0.0015	mg/L		08/27/19 10:33	09/10/19 19:01	1
Thallium	<0.00015		0.0010	0.00015	mg/L		08/27/19 10:33	09/10/19 19:01	1
Lithium	<0.0034		0.0050	0.0034	mg/L		08/27/19 10:33	09/10/19 19:01	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		08/28/19 11:36	08/29/19 17:07	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Arkwright Ash Pond 3

Job ID: 180-94593-1
SDG: 1

Client Sample ID: FB-1-8-21-19

Lab Sample ID: 180-94593-15

Date Collected: 08/21/19 10:35

Matrix: Water

Date Received: 08/23/19 08:40

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.026		0.20	0.026	mg/L			09/04/19 16:20	1

Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00032		0.0010	0.00032	mg/L		08/27/19 10:33	09/10/19 19:05	1
Barium	<0.0016		0.010	0.0016	mg/L		08/27/19 10:33	09/10/19 19:05	1
Beryllium	<0.00018		0.0010	0.00018	mg/L		08/27/19 10:33	09/10/19 19:05	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		08/27/19 10:33	09/10/19 19:05	1
Cobalt	<0.000075		0.00050	0.000075	mg/L		08/27/19 10:33	09/10/19 19:05	1
Chromium	<0.0015		0.0020	0.0015	mg/L		08/27/19 10:33	09/10/19 19:05	1
Molybdenum	<0.00061		0.0050	0.00061	mg/L		08/27/19 10:33	09/10/19 19:05	1
Lead	<0.00013		0.0010	0.00013	mg/L		08/27/19 10:33	09/10/19 19:05	1
Antimony	<0.00038		0.0020	0.00038	mg/L		08/27/19 10:33	09/10/19 19:05	1
Selenium	<0.0015		0.0050	0.0015	mg/L		08/27/19 10:33	09/10/19 19:05	1
Thallium	<0.00015		0.0010	0.00015	mg/L		08/27/19 10:33	09/10/19 19:05	1
Lithium	<0.0034		0.0050	0.0034	mg/L		08/27/19 10:33	09/10/19 19:05	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		08/28/19 11:36	08/29/19 17:08	1

Client Sample ID: DUP-1

Lab Sample ID: 180-94593-16

Date Collected: 08/20/19 00:00

Matrix: Water

Date Received: 08/23/19 08:40

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.065	J	0.20	0.026	mg/L			09/04/19 17:05	1

Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00039	J	0.0010	0.00032	mg/L		08/27/19 10:33	09/10/19 19:15	1
Barium	0.021		0.010	0.0016	mg/L		08/27/19 10:33	09/10/19 19:15	1
Beryllium	<0.00018		0.0010	0.00018	mg/L		08/27/19 10:33	09/10/19 19:15	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		08/27/19 10:33	09/10/19 19:15	1
Cobalt	0.00013	J	0.00050	0.000075	mg/L		08/27/19 10:33	09/10/19 19:15	1
Chromium	0.0046		0.0020	0.0015	mg/L		08/27/19 10:33	09/10/19 19:15	1
Molybdenum	<0.00061		0.0050	0.00061	mg/L		08/27/19 10:33	09/10/19 19:15	1
Lead	<0.00013		0.0010	0.00013	mg/L		08/27/19 10:33	09/10/19 19:15	1
Antimony	<0.00038		0.0020	0.00038	mg/L		08/27/19 10:33	09/10/19 19:15	1
Selenium	<0.0015		0.0050	0.0015	mg/L		08/27/19 10:33	09/10/19 19:15	1
Thallium	<0.00015		0.0010	0.00015	mg/L		08/27/19 10:33	09/10/19 19:15	1
Lithium	<0.0034		0.0050	0.0034	mg/L		08/27/19 10:33	09/10/19 19:15	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		08/28/19 11:36	08/29/19 17:09	1

Eurofins TestAmerica, Pittsburgh

QC Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Arkwright Ash Pond 3

Job ID: 180-94593-1
 SDG: 1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 180-290138/6
 Matrix: Water
 Analysis Batch: 290138

Client Sample ID: Method Blank
 Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.026		0.20	0.026	mg/L			09/04/19 11:07	1

Lab Sample ID: LCS 180-290138/5
 Matrix: Water
 Analysis Batch: 290138

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	1.25	1.18		mg/L		94	90 - 110

Lab Sample ID: 180-94593-8 MS
 Matrix: Water
 Analysis Batch: 290138

Client Sample ID: ARGWC-9
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	0.030	J	1.25	1.22		mg/L		96	80 - 120

Lab Sample ID: 180-94593-8 MSD
 Matrix: Water
 Analysis Batch: 290138

Client Sample ID: ARGWC-9
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	0.030	J	1.25	1.21		mg/L		95	80 - 120	1	20

Method: EPA 6020 - Metals (ICP/MS)

Lab Sample ID: MB 180-289413/1-A
 Matrix: Water
 Analysis Batch: 290864

Client Sample ID: Method Blank
 Prep Type: Total Recoverable
 Prep Batch: 289413

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00032		0.0010	0.00032	mg/L		08/27/19 10:33	09/10/19 17:54	1
Barium	<0.0016		0.010	0.0016	mg/L		08/27/19 10:33	09/10/19 17:54	1
Beryllium	<0.00018		0.0010	0.00018	mg/L		08/27/19 10:33	09/10/19 17:54	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		08/27/19 10:33	09/10/19 17:54	1
Cobalt	<0.000075		0.00050	0.000075	mg/L		08/27/19 10:33	09/10/19 17:54	1
Chromium	<0.0015		0.0020	0.0015	mg/L		08/27/19 10:33	09/10/19 17:54	1
Molybdenum	<0.00061		0.0050	0.00061	mg/L		08/27/19 10:33	09/10/19 17:54	1
Lead	<0.00013		0.0010	0.00013	mg/L		08/27/19 10:33	09/10/19 17:54	1
Antimony	<0.00038		0.0020	0.00038	mg/L		08/27/19 10:33	09/10/19 17:54	1
Selenium	<0.0015		0.0050	0.0015	mg/L		08/27/19 10:33	09/10/19 17:54	1
Thallium	<0.00015		0.0010	0.00015	mg/L		08/27/19 10:33	09/10/19 17:54	1
Lithium	<0.0034		0.0050	0.0034	mg/L		08/27/19 10:33	09/10/19 17:54	1

Lab Sample ID: LCS 180-289413/2-A
 Matrix: Water
 Analysis Batch: 290864

Client Sample ID: Lab Control Sample
 Prep Type: Total Recoverable
 Prep Batch: 289413

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1.00	1.08		mg/L		108	80 - 120
Barium	1.00	0.999		mg/L		100	80 - 120

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QC Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Arkwright Ash Pond 3

Job ID: 180-94593-1
 SDG: 1

Method: EPA 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 180-289413/2-A
Matrix: Water
Analysis Batch: 290864

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 289413

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Beryllium	0.500	0.480		mg/L		96	80 - 120
Cadmium	0.500	0.521		mg/L		104	80 - 120
Cobalt	0.500	0.533		mg/L		107	80 - 120
Chromium	0.500	0.530		mg/L		106	80 - 120
Molybdenum	0.500	0.506		mg/L		101	80 - 120
Lead	0.500	0.520		mg/L		104	80 - 120
Antimony	0.250	0.261		mg/L		105	80 - 120
Selenium	1.00	1.00		mg/L		100	80 - 120
Thallium	1.00	1.07		mg/L		107	80 - 120
Lithium	0.500	0.460		mg/L		92	80 - 120

Lab Sample ID: 180-94593-1 MS
Matrix: Water
Analysis Batch: 290864

Client Sample ID: ARGWA-3
Prep Type: Total Recoverable
Prep Batch: 289413

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.00045	J	1.00	1.09		mg/L		109	75 - 125
Barium	0.020		1.00	1.03		mg/L		101	75 - 125
Beryllium	0.00025	J	0.500	0.496		mg/L		99	75 - 125
Cadmium	0.00014	J	0.500	0.532		mg/L		106	75 - 125
Cobalt	0.00018	J	0.500	0.548		mg/L		110	75 - 125
Chromium	0.0039		0.500	0.547		mg/L		109	75 - 125
Molybdenum	<0.00061		0.500	0.514		mg/L		103	75 - 125
Lead	0.00014	J	0.500	0.529		mg/L		106	75 - 125
Antimony	<0.00038		0.250	0.269		mg/L		107	75 - 125
Selenium	<0.0015		1.00	1.03		mg/L		103	75 - 125
Thallium	0.00020	J	1.00	1.08		mg/L		108	75 - 125
Lithium	<0.0034		0.500	0.473		mg/L		95	75 - 125

Lab Sample ID: 180-94593-1 MSD
Matrix: Water
Analysis Batch: 290864

Client Sample ID: ARGWA-3
Prep Type: Total Recoverable
Prep Batch: 289413

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Arsenic	0.00045	J	1.00	1.12		mg/L		112	75 - 125	2	20
Barium	0.020		1.00	1.06		mg/L		104	75 - 125	2	20
Beryllium	0.00025	J	0.500	0.509		mg/L		102	75 - 125	2	20
Cadmium	0.00014	J	0.500	0.545		mg/L		109	75 - 125	2	20
Cobalt	0.00018	J	0.500	0.567		mg/L		113	75 - 125	3	20
Chromium	0.0039		0.500	0.557		mg/L		111	75 - 125	2	20
Molybdenum	<0.00061		0.500	0.527		mg/L		105	75 - 125	3	20
Lead	0.00014	J	0.500	0.531		mg/L		106	75 - 125	0	20
Antimony	<0.00038		0.250	0.271		mg/L		108	75 - 125	1	20
Selenium	<0.0015		1.00	1.04		mg/L		104	75 - 125	1	20
Thallium	0.00020	J	1.00	1.08		mg/L		108	75 - 125	0	20
Lithium	<0.0034		0.500	0.478		mg/L		96	75 - 125	1	20

QC Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Arkwright Ash Pond 3

Job ID: 180-94593-1
 SDG: 1

Method: EPA 7470A - Mercury (CVAA)

Lab Sample ID: MB 180-289565/1-A
Matrix: Water
Analysis Batch: 289762

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 289565

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		08/28/19 11:33	08/29/19 17:21	1

Lab Sample ID: LCS 180-289565/2-A
Matrix: Water
Analysis Batch: 289762

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 289565

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00250	0.00248		mg/L		99	80 - 120

Lab Sample ID: 180-94593-5 MS
Matrix: Water
Analysis Batch: 289762

Client Sample ID: ARGWA-14
Prep Type: Total/NA
Prep Batch: 289565

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	<0.00010		0.00100	0.00112		mg/L		112	75 - 125

Lab Sample ID: 180-94593-5 MSD
Matrix: Water
Analysis Batch: 289762

Client Sample ID: ARGWA-14
Prep Type: Total/NA
Prep Batch: 289565

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	<0.00010		0.00100	0.000944		mg/L		94	75 - 125	17	20

Lab Sample ID: MB 180-289568/1-A
Matrix: Water
Analysis Batch: 289762

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 289568

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		08/28/19 11:36	08/29/19 16:55	1

Lab Sample ID: LCS 180-289568/2-A
Matrix: Water
Analysis Batch: 289762

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 289568

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00250	0.00249		mg/L		100	80 - 120

QC Association Summary

Client: Southern Company
 Project/Site: CCR - Plant Arkwright Ash Pond 3

Job ID: 180-94593-1
 SDG: 1

HPLC/IC

Analysis Batch: 290138

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-94593-1	ARGWA-3	Total/NA	Water	300.0	
180-94593-2	ARGWA-5	Total/NA	Water	300.0	
180-94593-3	ARGWA-12	Total/NA	Ground Water	300.0	
180-94593-4	ARGWA-13	Total/NA	Water	300.0	
180-94593-5	ARGWA-14	Total/NA	Water	300.0	
180-94593-6	ARGWC-7	Total/NA	Water	300.0	
180-94593-7	ARGWC-8	Total/NA	Water	300.0	
180-94593-8	ARGWC-9	Total/NA	Water	300.0	
180-94593-9	ARGWC-10	Total/NA	Water	300.0	
180-94593-10	ARGWC-15	Total/NA	Water	300.0	
180-94593-11	ARGWC-16	Total/NA	Water	300.0	
180-94593-12	ARGWC-17	Total/NA	Water	300.0	
180-94593-13	ARGWC-18	Total/NA	Water	300.0	
180-94593-14	EB-1-8-21-19	Total/NA	Water	300.0	
180-94593-15	FB-1-8-21-19	Total/NA	Water	300.0	
180-94593-16	DUP-1	Total/NA	Water	300.0	
MB 180-290138/6	Method Blank	Total/NA	Water	300.0	
LCS 180-290138/5	Lab Control Sample	Total/NA	Water	300.0	
180-94593-8 MS	ARGWC-9	Total/NA	Water	300.0	
180-94593-8 MSD	ARGWC-9	Total/NA	Water	300.0	

Metals

Prep Batch: 289413

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-94593-1	ARGWA-3	Total Recoverable	Water	3005A	
180-94593-2	ARGWA-5	Total Recoverable	Water	3005A	
180-94593-3	ARGWA-12	Total Recoverable	Ground Water	3005A	
180-94593-4	ARGWA-13	Total Recoverable	Water	3005A	
180-94593-5	ARGWA-14	Total Recoverable	Water	3005A	
180-94593-6	ARGWC-7	Total Recoverable	Water	3005A	
180-94593-7	ARGWC-8	Total Recoverable	Water	3005A	
180-94593-8	ARGWC-9	Total Recoverable	Water	3005A	
180-94593-9	ARGWC-10	Total Recoverable	Water	3005A	
180-94593-10	ARGWC-15	Total Recoverable	Water	3005A	
180-94593-11	ARGWC-16	Total Recoverable	Water	3005A	
180-94593-12	ARGWC-17	Total Recoverable	Water	3005A	
180-94593-13	ARGWC-18	Total Recoverable	Water	3005A	
180-94593-14	EB-1-8-21-19	Total Recoverable	Water	3005A	
180-94593-15	FB-1-8-21-19	Total Recoverable	Water	3005A	
180-94593-16	DUP-1	Total Recoverable	Water	3005A	
MB 180-289413/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-289413/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
180-94593-1 MS	ARGWA-3	Total Recoverable	Water	3005A	
180-94593-1 MSD	ARGWA-3	Total Recoverable	Water	3005A	

Prep Batch: 289565

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-94593-1	ARGWA-3	Total/NA	Water	7470A	
180-94593-2	ARGWA-5	Total/NA	Water	7470A	
180-94593-3	ARGWA-12	Total/NA	Ground Water	7470A	

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QC Association Summary

Client: Southern Company
 Project/Site: CCR - Plant Arkwright Ash Pond 3

Job ID: 180-94593-1
 SDG: 1

Metals (Continued)

Prep Batch: 289565 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-94593-4	ARGWA-13	Total/NA	Water	7470A	
180-94593-5	ARGWA-14	Total/NA	Water	7470A	
MB 180-289565/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-289565/2-A	Lab Control Sample	Total/NA	Water	7470A	
180-94593-5 MS	ARGWA-14	Total/NA	Water	7470A	
180-94593-5 MSD	ARGWA-14	Total/NA	Water	7470A	

Prep Batch: 289568

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-94593-6	ARGWC-7	Total/NA	Water	7470A	
180-94593-7	ARGWC-8	Total/NA	Water	7470A	
180-94593-8	ARGWC-9	Total/NA	Water	7470A	
180-94593-9	ARGWC-10	Total/NA	Water	7470A	
180-94593-10	ARGWC-15	Total/NA	Water	7470A	
180-94593-11	ARGWC-16	Total/NA	Water	7470A	
180-94593-12	ARGWC-17	Total/NA	Water	7470A	
180-94593-13	ARGWC-18	Total/NA	Water	7470A	
180-94593-14	EB-1-8-21-19	Total/NA	Water	7470A	
180-94593-15	FB-1-8-21-19	Total/NA	Water	7470A	
180-94593-16	DUP-1	Total/NA	Water	7470A	
MB 180-289568/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-289568/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 289762

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-94593-1	ARGWA-3	Total/NA	Water	EPA 7470A	289565
180-94593-2	ARGWA-5	Total/NA	Water	EPA 7470A	289565
180-94593-3	ARGWA-12	Total/NA	Ground Water	EPA 7470A	289565
180-94593-4	ARGWA-13	Total/NA	Water	EPA 7470A	289565
180-94593-5	ARGWA-14	Total/NA	Water	EPA 7470A	289565
180-94593-6	ARGWC-7	Total/NA	Water	EPA 7470A	289568
180-94593-7	ARGWC-8	Total/NA	Water	EPA 7470A	289568
180-94593-8	ARGWC-9	Total/NA	Water	EPA 7470A	289568
180-94593-9	ARGWC-10	Total/NA	Water	EPA 7470A	289568
180-94593-10	ARGWC-15	Total/NA	Water	EPA 7470A	289568
180-94593-11	ARGWC-16	Total/NA	Water	EPA 7470A	289568
180-94593-12	ARGWC-17	Total/NA	Water	EPA 7470A	289568
180-94593-13	ARGWC-18	Total/NA	Water	EPA 7470A	289568
180-94593-14	EB-1-8-21-19	Total/NA	Water	EPA 7470A	289568
180-94593-15	FB-1-8-21-19	Total/NA	Water	EPA 7470A	289568
180-94593-16	DUP-1	Total/NA	Water	EPA 7470A	289568
MB 180-289565/1-A	Method Blank	Total/NA	Water	EPA 7470A	289565
MB 180-289568/1-A	Method Blank	Total/NA	Water	EPA 7470A	289568
LCS 180-289565/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	289565
LCS 180-289568/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	289568
180-94593-5 MS	ARGWA-14	Total/NA	Water	EPA 7470A	289565
180-94593-5 MSD	ARGWA-14	Total/NA	Water	EPA 7470A	289565

Analysis Batch: 290864

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-94593-1	ARGWA-3	Total Recoverable	Water	EPA 6020	289413

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QC Association Summary

Client: Southern Company
 Project/Site: CCR - Plant Arkwright Ash Pond 3

Job ID: 180-94593-1
 SDG: 1

Metals (Continued)

Analysis Batch: 290864 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-94593-2	ARGWA-5	Total Recoverable	Water	EPA 6020	289413
180-94593-3	ARGWA-12	Total Recoverable	Ground Water	EPA 6020	289413
180-94593-4	ARGWA-13	Total Recoverable	Water	EPA 6020	289413
180-94593-5	ARGWA-14	Total Recoverable	Water	EPA 6020	289413
180-94593-6	ARGWC-7	Total Recoverable	Water	EPA 6020	289413
180-94593-7	ARGWC-8	Total Recoverable	Water	EPA 6020	289413
180-94593-8	ARGWC-9	Total Recoverable	Water	EPA 6020	289413
180-94593-9	ARGWC-10	Total Recoverable	Water	EPA 6020	289413
180-94593-10	ARGWC-15	Total Recoverable	Water	EPA 6020	289413
180-94593-11	ARGWC-16	Total Recoverable	Water	EPA 6020	289413
180-94593-12	ARGWC-17	Total Recoverable	Water	EPA 6020	289413
180-94593-13	ARGWC-18	Total Recoverable	Water	EPA 6020	289413
180-94593-14	EB-1-8-21-19	Total Recoverable	Water	EPA 6020	289413
180-94593-15	FB-1-8-21-19	Total Recoverable	Water	EPA 6020	289413
180-94593-16	DUP-1	Total Recoverable	Water	EPA 6020	289413
MB 180-289413/1-A	Method Blank	Total Recoverable	Water	EPA 6020	289413
LCS 180-289413/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020	289413
180-94593-1 MS	ARGWA-3	Total Recoverable	Water	EPA 6020	289413
180-94593-1 MSD	ARGWA-3	Total Recoverable	Water	EPA 6020	289413

Chain of Custody Record

Client Information

Client Contact: *Rob Miller / T. Goble*

Address: PO BOX 2641 GSC8
Birmingham
AL, 35291

Phone: *770-594-5998*

Company: Southern Company

Project Name: CCR Plant Arkwright - Ash Pond 3

Site: Georgia

Lab PM: *Veronica Bortot*

E-Mail: *Veronica.Bortot@testamericainc.com*

Carrier Tracking No(s):

Due Date Requested:

TAT Requested (days):

PO #: *SCS10347656*

WO #:

Project #: *40007712*

SSOW#:

COC No: *400-73521-29028.1*

Page: _____

Job #: _____

Analysis Requested

Perform MS/MSD (Yes or No) Yes No

Field Filtered Sample (Yes or No) Yes No

Metals App. IV (EPA 6020/470) Yes No

Radium 226 & 228 (SW-846 9315/9320) Yes No

Fluoride Yes No

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=soil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)		Metals App. IV (EPA 6020/470)		Radium 226 & 228 (SW-846 9315/9320)		Total Number of Containers	Spec
					Perform MS/MSD	Field Filtered	Metals App. IV	Radium 226 & 228	Fluoride	Fluoride		
ARGWA-3	8-20-19	1244	G	Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	3	
ARGWA-5	8-20-19	1649	G	Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	3	
ARGWA-12	8-20-19	1402	G	Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	3	
ARGWA-13	8-19-19	1659	G	Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	3	
ARGWA-14	8-21-19	0910	G	Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	3	
ARGWC-7	8-21-19	0940	G	Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	3	
ARGWC-8	8-21-19	1322	G	Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	4	
ARGWC-9	8-21-19	1133	G	Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	3	
ARGWC-10	8-21-19	1445	G	Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	3	
				Water	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
				Water	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

Possible Hazard Identification

Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological

Deliverable Requested: I, II, III, IV, Other (specify)

Empty Kit Relinquished by: _____ Date: _____

Relinquished by: *Taylor Jolly* Date/Time: *8-22-19 / 1550* Company: *ACC*

Relinquished by: *[Signature]* Date/Time: *1536* Company: *STW*

Relinquished by: _____ Date/Time: _____ Company: _____

Custody Seals Intact: Custody Seal No.: _____

Cooler Temperature(s) °C and Other Remarks: _____

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For _____ Months

Special Instructions/QC Requirements: _____

Method of Shipment: _____

Received by: *[Signature]* Date/Time: *8/22/19 1522* Company: *EDM*

Received by: *[Signature]* Date/Time: *8-23-19* Company: *[Signature]*

Received by: *[Signature]* Date/Time: *8-23-19* Company: *[Signature]*

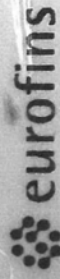
Ver: 08/04/2016





180-94593 Waybill

Part # 159469-434 R/T2 EXP 05/20



Environment Testing
TestAmerica

ORIGIN ID: MULA (678) 966-9991
GEORGE TAYLOR
EUROFINSTESTAMERICA, ATLANTA
6500 MCDONOUGH DRIVE
NORCROSS, GA 30093
UNITED STATES US

SHIP DATE: 22AUG19
ACTWGT: 59.60 LB
CAD: 859116/CAFE3211

BILL RECIPIENT

TO SAMPLE RECEIVING
TA PITTSBURGH
301 ALPHA DRIVE
RIDC PARK
PITTSBURGH PA 15238
(412) 963-7068
REF: ACC

edEX
Express



FRI - 23 AUG 3:00
STANDARD OVERNIGHT

1 of 5
TRK# 0201
4651 0083 4424
MASTER

NA AGCA

217
CF-13
#10
T.S.

SHIP ACTV CAD: TEL: 22AUG19
BILL RECIPIENT

70, 966 9991
ERICA, ATLANTA
DRIVE

30093
US

SAMPLE RECEIVING
TA PITTSBURGH

301 AL
RIDC PARK
PITTSBURGH PA 15238
(412) 963-7068
REF: ACC

FedEx
Express



FRI - 23 AUG 3:00
STANDARD OVERNIGHT

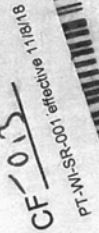
4 of 5
MPS# 4651 0083 4457
4651 0083 4424

NA AGCA

Mstr#

Uncorrected Temp
Thermometer ID
Initials

CF-013



RE

See copy

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- 13

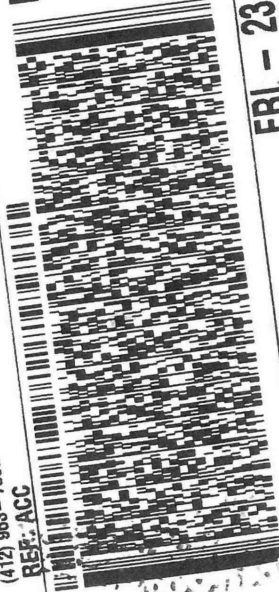


Environment Testing
TestAmerica

ORIGIN ID: MULA (678) 966-9991
GEORGE TAYLOR
EUROFINS TEST AMERICA, ATLANTA
6500 MCDONOUGH DRIVE
NORCROSS, GA 30093
UNITED STATES US

SHIP DATE: 22AUG19
ACTING: 59.60 LUB
CAD: 859116/CAFE3211
BILL RECIPIENT

TO **SAMPLE RECEIVING**
TA PITTSBURGH
301 ALPHA DRIVE
RIDC PARK
PITTSBURGH PA 15238
(412) 968-7068
REF: ACC



FRI - 23 AUG 3:00P
STANDARD OVERNIGHT

3 of 5
MPS# 4651 0083 4446
0263
Mstr# 4651 0083 4424

NA AGCA

15238
PIT

PA-US

Uncorrected temp
Thermometer ID

1.4 / 10

Initials

CF 10.3

PT-WI-SR-001 effective 11/8/18

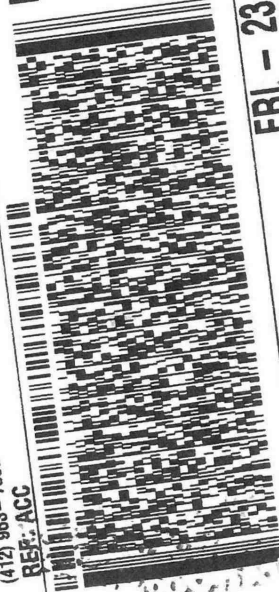
Body Seal

Environment Testing
TestAmerica

SHIP DATE: 22AUG19
ACTING: 59.60 LUB
CAD: 859116/CAFE3211
BILL RECIPIENT

ID: MULA (678) 966-9991
GEORGE TAYLOR
EUROFINS TEST AMERICA, ATLANTA
6500 MCDONOUGH DRIVE
NORCROSS, GA 30093
UNITED STATES US

TO **SAMPLE RECEIVING**
TA PITTSBURGH
301 ALPHA DRIVE
RIDC PARK
PITTSBURGH PA 15238
(412) 968-7068
REF: ACC



FRI - 23 AUG 3:00P
STANDARD OVERNIGHT

3 of 5
MPS# 4651 0083 4446
0263
Mstr# 4651 0083 4424

NA AGCA

15238
PIT

PA-US

Uncorrected temp
Thermometer ID

1.4 / 10

Initials

CF 10.3

PT-WI-SR-001 effective 11/8/18

Body Seal



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PT-VI-SR-001 effective 11/8/18

CF-013 Initials

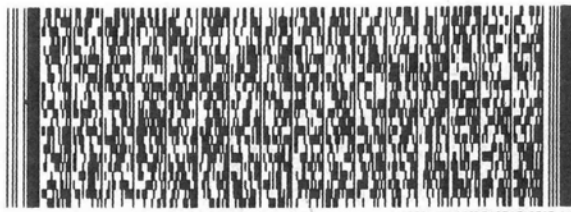
Uncorrected temp
Thermometer ID

PA-US PIT
15238

NA AGCA

MPS# 4651 0083 4435
MPS# 4651 0083 4424

FRI - 23 AUG 3:00P
STANDARD OVERNIGHT



PO: N

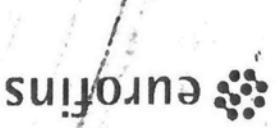
REF: ACC
(412) 968-7068
PITTSBURGH PA 15238

RO
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ATI
CHI

10
NORCR
US

BILL RECIPIENT
SHIP DATE: 22AUG19
ACTWGT: 59.60 LB
CAD: 859116/CAFE3211

ORIGIN ID: NULA (678) 966-9991
GEORGE TAYLOR
EUROFINS AMERICA, ATLANTA
5500 MCDONOUGH DRIVE
NORCROSS, GA 30093
UNITED STATES US



Enviro
TestAm

Eurofins TestAmerica, Pittsburgh
 301 Alpha Drive RIDC Park
 Pittsburgh, PA 15238
 Phone: 412-963-7058 Fax: 412-963-2468

Chain of Custody Record



eurofins Environment Testing
 TestAmerica

Client Information (Sub Contract Lab)
 Client Contact: Shipping/Receiving
 Company: TestAmerica Laboratories, Inc.
 Address: 13715 Rider Trail North.
 City: Earth City
 State, Zip: MO, 63045
 Phone: 314-298-8566(Tel) 314-298-8757(Fax)
 Email:

Sampler: Lab PM: Bortol, Veronica
 Phone: E-Mail: veronica.bortol@testamericainc.com
 Accreditations Required (See note):

Due Date Requested: 9/5/2019
 TAT Requested (days):
 Carrier Tracking No(s):
 State of Origin: Georgia
 Page: 180-371861.1
 Page 1 of 2
 Job #: 180-94593-1

Project Name: CCR - Plant Arkwright Ash Pond 3
 Project #: 18020201
 Site: Georgia Power Site Sampling Data (GW)
 SSONW#:
 Analysis Requested:
 Preservation Codes:
 A - HCL
 B - NaOH
 C - Zn Acetate
 D - Nitric Acid
 E - NaHSO4
 F - MeOH
 G - Amchlor
 H - Ascorbic Acid
 I - Ice
 J - DI Water
 K - EDTA
 L - EDTA
 M - Hexane
 N - None
 O - AsNaO2
 P - Na2O4S
 Q - Na2SO3
 R - Na2S2O3
 S - H2SO4
 T - TSP Dodecahydrate
 U - Acetone
 V - MCAA
 W - pH 4.5
 Z - other (Specify)
 Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Soil, Overstabil, BT=Issue, Ash)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Total Number of containers	Special Instructions/Note:
ARGWA-3 (180-94593-1)	8/20/19	12:44		Water	X	9315_Ra226/PrecSep_21 Standard Target List	1	
ARGWA-5 (180-94593-2)	8/20/19	16:49		Water	X	9320_Ra228/PrecSep_0 Standard Target List	1	
ARGWA-12 (180-94593-3)	8/20/19	14:02		Water	X	Ra226Ra228_GFPC	1	
ARGWA-13 (180-94593-4)	8/19/19	16:59		Water	X		1	
ARGWA-14 (180-94593-5)	8/21/19	09:10		Water	X		1	
ARGWC-7 (180-94593-6)	8/21/19	09:40		Water	X		1	
ARGWC-8 (180-94593-7)	8/21/19	13:22		Water	X		2	
ARGWC-9 (180-94593-8)	8/21/19	11:33		Water	X		1	
ARGWC-10 (180-94593-9)	8/21/19	14:45		Water	X		1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification
 Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2
 Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months
 Special Instructions/QC Requirements:

Empty Kit Relinquished by: _____ Date: _____ Time: _____
 Relinquished by: _____ Date/Time: 8/26/19 17:00
 Relinquished by: _____ Date/Time: _____ Company: _____
 Relinquished by: _____ Date/Time: _____ Company: _____

Received by: _____ Date/Time: 8-27-19 08:30
 Received by: _____ Date/Time: _____ Company: TA ST


Custody Seals Intact: Yes No
 Custody Seal No.: _____
 Cooler Temperature(s) °C and Other Remarks:

301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone: 412-963-7058 Fax: 412-963-2468

Chain of Custody Record

Client Information (Sub Contract Lab)		Sampler:	Lab PM:	Carrier Tracking No(s)	COC No:
Client Contact:	Phone:	Bortol, Veronica	State of Origin:	180-371961 2	180-371961 2
Shipping/Receiving:	E-Mail:	veronica.bortol@testamerica.com	Georgia	Page 2 of 2	Page 2 of 2
Company:	TestAmerica Laboratories, Inc.	Accreditations Required (See note):		Job #:	180-94593-1
Address:	13715 Rider Trail North,			Preservation Codes:	A - HCl B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4.5 Z - other (specify)
City:	Earth City	Due Date Requested:	9/5/2019	Analysis Requested	
State, Zip:	MO, 63045	TAT Requested (days):			
Phone:	314-298-8566 (Tel) 314-298-8757 (Fax)	PO #:			
Email:		W/O #:			
Project Name:	CCR - Plant Arkwright Ash Pond 3	Project #:	18020201		
Site:	Georgia Power Site Sampling Data (GW)	SSOW#:			

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=Water, S=Soil, O=Organic, M=Metalloid, BT=Trace, AA=As)	Preservation Code:	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9315_Ra226/PrecSep_21 Standard Target List	9320_Ra228/PrecSep_0 Standard Target List	Ra226Ra228_GFPC	Total Number of containers	Special Instructions/Note:
ARGWC-15 (180-94593-10)	8/21/19	11:30	Water	Water		X	X	X	X		1	
ARGWC-16 (180-94593-11)	8/20/19	16:59	Water	Water		X	X	X	X		1	
ARGWC-17 (180-94593-12)	8/21/19	13:55	Water	Water		X	X	X	X		1	
ARGWC-18 (180-94593-13)	8/21/19	10:18	Water	Water		X	X	X	X		1	
EB-1-8-21-19 (180-94593-14)	8/21/19	15:05	Water	Water		X	X	X	X		1	
FB-1-8-21-19 (180-94593-15)	8/21/19	10:35	Water	Water		X	X	X	X		1	
DUP-1 (180-94593-16)	8/20/19		Water	Water		X	X	X	X		1	



180-94593-01 Chain of Custody

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody.

Possible Hazard Identification
Unconfirmed

Deliverable Requested: I, II, III, IV, Other (specify) _____ Primary Deliverable Rank: 2

Empty Kit Relinquished by: _____ Date: _____

Relinquished by: _____ Date/Time: 8/21/19 1200

Relinquished by: _____ Date/Time: _____

Custody Seals Intact: Yes No Custody Seal No.: _____

Received by: _____ Date/Time: 8-27-19 09130

Cooler Temperature(s) °C and Other Remarks: _____

Special Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Special Instructions/Note: _____

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-94593-1

SDG Number: 1

Login Number: 94593

List Source: Eurofins TestAmerica, Pittsburgh

List Number: 1

Creator: Watson, Debbie

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ANALYTICAL REPORT

Eurofins TestAmerica, Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

Laboratory Job ID: 180-94593-2

Laboratory Sample Delivery Group: 1

Client Project/Site: CCR - Plant Arkwright Ash Pond 3

Sampling Event: PLANT ARKWRIGHT- AP-3

For:

Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Attn: Joju Abraham



Authorized for release by:

9/30/2019 4:42:45 PM

Veronica Bortot, Senior Project Manager

(412)963-2435

veronica.bortot@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

PA Lab ID: 02-00416



Table of Contents

Cover Page	1
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Case Narrative

Client: Southern Company
Project/Site: CCR - Plant Arkwright Ash Pond 3

Job ID: 180-94593-2
SDG: 1

Job ID: 180-94593-2

Laboratory: Eurofins TestAmerica, Pittsburgh

Narrative

Job Narrative 180-94593-2

Comments

No additional comments.

Receipt

The samples were received on 8/23/2019 8:40 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 5 coolers at receipt time were 1.0° C, 1.6° C, 1.9° C, 2.3° C and 2.4° C.

RAD

Method(s) 903.0, 9315: Radium-228 Prep Batch 160-441266

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative.

Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

ARGWA-3 (180-94593-1), ARGWA-5 (180-94593-2), ARGWA-12 (180-94593-3), ARGWA-13 (180-94593-4), ARGWA-14 (180-94593-5), ARGWC-7 (180-94593-6), ARGWC-8 (180-94593-7), ARGWC-9 (180-94593-8), ARGWC-10 (180-94593-9), ARGWC-15 (180-94593-10), ARGWC-16 (180-94593-11), ARGWC-17 (180-94593-12), ARGWC-18 (180-94593-13), EB-1-8-21-19 (180-94593-14), FB-1-8-21-19 (180-94593-15), DUP-1 (180-94593-16), (LCS 160-441266/1-A), (MB 160-441266/23-A), (160-35448-B-1-A) and (160-35448-A-1-A DU)

Method(s) 904.0, 9320: Radium-228 Prep Batch 160-441285

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative.

Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

ARGWA-3 (180-94593-1), ARGWA-5 (180-94593-2), ARGWA-12 (180-94593-3), ARGWA-13 (180-94593-4), ARGWA-14 (180-94593-5), ARGWC-7 (180-94593-6), ARGWC-8 (180-94593-7), ARGWC-9 (180-94593-8), ARGWC-10 (180-94593-9), ARGWC-15 (180-94593-10), ARGWC-16 (180-94593-11), ARGWC-17 (180-94593-12), ARGWC-18 (180-94593-13), EB-1-8-21-19 (180-94593-14), FB-1-8-21-19 (180-94593-15), DUP-1 (180-94593-16), (LCS 160-441285/1-A), (MB 160-441285/23-A), (160-35448-B-1-B) and (160-35448-A-1-B DU)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Definitions/Glossary

Client: Southern Company
Project/Site: CCR - Plant Arkwright Ash Pond 3

Job ID: 180-94593-2
SDG: 1

Qualifiers

Rad

Qualifier	Qualifier Description
U	Result is less than the sample detection limit.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: Southern Company
 Project/Site: CCR - Plant Arkwright Ash Pond 3

Job ID: 180-94593-2
 SDG: 1

Laboratory: Eurofins TestAmerica, Pittsburgh

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	19-033-0	06-27-20
Arkansas DEQ	State Program	88-0690	06-27-20
California	State	2891	04-30-20
California	State Program	2891	04-30-20
Connecticut	State	PH-0688	09-30-20
Connecticut	State Program	PH-0688	09-30-20
Florida	NELAP	E871008	06-30-20
Florida	NELAP	E871008	06-30-20
Illinois	NELAP	200005	06-30-20
Illinois	NELAP	004375	06-30-20
Kansas	NELAP	E-10350	01-31-20
Kansas	NELAP	E-10350	03-31-20
Kentucky (UST)	State	162013	04-30-20
Kentucky (UST)	State Program	162013	04-30-20
Kentucky (WW)	State	KY98043	12-31-19
Kentucky (WW)	State Program	KY98043	12-31-19
Louisiana	NELAP	04041	06-30-20
Louisiana	NELAP	04041	06-30-20
Minnesota	NELAP	042-999-482	12-31-19
Minnesota	NELAP	042-999-482	12-31-19
Nevada	State	PA00164	07-31-20
Nevada	State Program	PA00164	07-31-20
New Hampshire	NELAP	2030	04-04-20
New Jersey	NELAP	PA005	06-30-20
New Jersey	NELAP	PA005	06-30-20
New York	NELAP	11182	03-31-20
New York	NELAP	11182	04-01-20
North Carolina (WW/SW)	State Program	434	12-31-19
North Dakota	State	R-227	04-30-20
North Dakota	State Program	R-227	04-30-20
Oregon	NELAP	PA-2151	02-06-20
Oregon	NELAP	PA-2151	02-06-20
Pennsylvania	NELAP	02-00416	04-30-20
Pennsylvania	NELAP	02-00416	04-30-20
Rhode Island	State	LAO00362	12-30-19
Rhode Island	State Program	LAO00362	12-30-19
South Carolina	State Program	89014	04-30-20
Texas	NELAP	T104704528-15-2	03-31-20
Texas	NELAP	T104704528	03-31-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	Federal	P-Soil-01	06-26-22
USDA	US Federal Programs	P330-16-00211	06-26-22
Utah	NELAP	PA001462015-4	05-31-20
Utah	NELAP	PA001462019-8	05-31-20
Virginia	NELAP	460189	09-14-20
Virginia	NELAP	10043	09-15-20
West Virginia DEP	State	142	01-31-20
West Virginia DEP	State Program	142	01-31-20
Wisconsin	State	998027800	08-31-20
Wisconsin	State Program	998027800	08-31-20

Eurofins TestAmerica, Pittsburgh

Accreditation/Certification Summary

Client: Southern Company
 Project/Site: CCR - Plant Arkwright Ash Pond 3

Job ID: 180-94593-2
 SDG: 1

Laboratory: Eurofins TestAmerica, St. Louis

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2305	04-06-22
ANAB	Dept. of Energy	L2305.01	04-06-22
ANAB	DoD	L2305	04-06-22
ANAB	DOE	L2305.01	04-06-22
ANAB	ISO/IEC 17025	L2305	04-06-22
Arizona	State	AZ0813	12-08-19
Arizona	State Program	AZ0813	12-08-19 *
California	State	2886	06-30-20
California	State Program	2886	06-30-20
Connecticut	State	PH-0241	03-31-21
Connecticut	State Program	PH-0241	03-31-21
Florida	NELAP	E87689	06-30-20
Florida	NELAP	E87689	06-30-20
Hawaii	State Program	NA	06-30-20
HI - RadChem Recognition	State	n/a	06-30-20
Illinois	NELAP	200023	11-30-19
Illinois	NELAP	004553	11-30-19
Iowa	State Program	373	12-01-20
Kansas	NELAP	E-10236	10-31-19 *
Kentucky (DW)	State	KY90125	12-31-19
Kentucky (DW)	State Program	KY90125	12-31-19
Louisiana	NELAP	04080	06-30-20
Louisiana	NELAP	04080	06-30-20
Louisiana (DW)	NELAP	LA011	12-31-19
Louisiana (DW)	State	LA011	12-31-19
Maryland	State	310	09-30-20
Maryland	State Program	310	09-30-20
MI - RadChem Recognition	State	9005	06-30-20
Michigan	State Program	9005	06-30-20
Missouri	State	780	06-30-22
Missouri	State Program	780	06-30-20
Nevada	State	MO000542020-1	07-31-20
Nevada	State Program	MO000542018-1	07-31-20
New Jersey	NELAP	MO002	06-30-20
New Jersey	NELAP	MO002	06-30-20
New York	NELAP	11616	03-31-20
New York	NELAP	11616	04-01-20
North Dakota	State	R-207	06-30-20
North Dakota	State Program	R207	06-30-20
NRC	NRC	24-24817-01	12-31-22
Oklahoma	State	9997	08-31-20
Oklahoma	State Program	9997	08-31-20
Pennsylvania	NELAP	68-00540	02-28-20
Pennsylvania	NELAP	68-00540	02-28-20
South Carolina	State	85002001	06-30-20
South Carolina	State Program	85002001	06-30-20
Texas	NELAP	T104704193-19-14	07-31-20
Texas	NELAP	T104704193-19-13	07-31-20
US Fish & Wildlife	Federal	058448	07-31-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins TestAmerica, Pittsburgh

Accreditation/Certification Summary

Client: Southern Company
Project/Site: CCR - Plant Arkwright Ash Pond 3

Job ID: 180-94593-2
SDG: 1

Laboratory: Eurofins TestAmerica, St. Louis (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
USDA	Federal	P330-17-0028	02-02-20
USDA	US Federal Programs	P330-17-00028	02-02-20
Utah	NELAP	MO000542019-11	07-31-20
Utah	NELAP	MO000542019-11	07-31-20
Virginia	NELAP	460230	06-14-20
Virginia	NELAP	10310	06-14-20
Washington	State Program	C592	08-30-19 *
West Virginia DEP	State Program	381	10-31-19 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins TestAmerica, Pittsburgh

Sample Summary

Client: Southern Company
Project/Site: CCR - Plant Arkwright Ash Pond 3

Job ID: 180-94593-2
SDG: 1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
180-94593-1	ARGWA-3	Water	08/20/19 12:44	08/23/19 08:40	
180-94593-2	ARGWA-5	Water	08/20/19 16:49	08/23/19 08:40	
180-94593-3	ARGWA-12	Ground Water	08/20/19 14:02	08/23/19 08:40	
180-94593-4	ARGWA-13	Water	08/19/19 16:59	08/23/19 08:40	
180-94593-5	ARGWA-14	Water	08/21/19 09:10	08/23/19 08:40	
180-94593-6	ARGWC-7	Water	08/21/19 09:40	08/23/19 08:40	
180-94593-7	ARGWC-8	Water	08/21/19 13:22	08/23/19 08:40	
180-94593-8	ARGWC-9	Water	08/21/19 11:33	08/23/19 08:40	
180-94593-9	ARGWC-10	Water	08/21/19 14:45	08/23/19 08:40	
180-94593-10	ARGWC-15	Water	08/21/19 11:30	08/23/19 08:40	
180-94593-11	ARGWC-16	Water	08/20/19 16:59	08/23/19 08:40	
180-94593-12	ARGWC-17	Water	08/21/19 13:55	08/23/19 08:40	
180-94593-13	ARGWC-18	Water	08/21/19 10:18	08/23/19 08:40	
180-94593-14	EB-1-8-21-19	Water	08/21/19 15:05	08/23/19 08:40	
180-94593-15	FB-1-8-21-19	Water	08/21/19 10:35	08/23/19 08:40	
180-94593-16	DUP-1	Water	08/20/19 00:00	08/23/19 08:40	

Method Summary

Client: Southern Company
Project/Site: CCR - Plant Arkwright Ash Pond 3

Job ID: 180-94593-2
SDG: 1

Method	Method Description	Protocol	Laboratory
9315	Radium-226 (GFPC)	SW846	TAL SL
9320	Radium-228 (GFPC)	SW846	TAL SL
Ra226_Ra228	Combined Radium-226 and Radium-228	TAL-STL	TAL SL
PrecSep_0	Preparation, Precipitate Separation	None	TAL SL
PrecSep-21	Preparation, Precipitate Separation (21-Day In-Growth)	None	TAL SL

Protocol References:

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

Laboratory References:

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Lab Chronicle

Client: Southern Company
 Project/Site: CCR - Plant Arkwright Ash Pond 3

Job ID: 180-94593-2
 SDG: 1

Client Sample ID: ARGWA-3

Lab Sample ID: 180-94593-1

Date Collected: 08/20/19 12:44

Matrix: Water

Date Received: 08/23/19 08:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.82 mL	1.0 g	441266	08/29/19 09:07	KAW	TAL SL
Total/NA	Analysis	9315		1			443706	09/23/19 14:44	KLS	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.82 mL	1.0 g	441285	08/29/19 10:34	KAW	TAL SL
Total/NA	Analysis	9320		1			442963	09/16/19 09:47	JCB	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			444104	09/25/19 07:30	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: ARGWA-5

Lab Sample ID: 180-94593-2

Date Collected: 08/20/19 16:49

Matrix: Water

Date Received: 08/23/19 08:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.69 mL	1.0 g	441266	08/29/19 09:07	KAW	TAL SL
Total/NA	Analysis	9315		1			443706	09/23/19 14:44	KLS	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.69 mL	1.0 g	441285	08/29/19 10:34	KAW	TAL SL
Total/NA	Analysis	9320		1			442963	09/16/19 09:47	JCB	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			444104	09/25/19 07:30	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: ARGWA-12

Lab Sample ID: 180-94593-3

Date Collected: 08/20/19 14:02

Matrix: Ground Water

Date Received: 08/23/19 08:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.38 mL	1.0 g	441266	08/29/19 09:07	KAW	TAL SL
Total/NA	Analysis	9315		1			443706	09/23/19 14:44	KLS	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.38 mL	1.0 g	441285	08/29/19 10:34	KAW	TAL SL
Total/NA	Analysis	9320		1			442963	09/16/19 09:47	JCB	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			444104	09/25/19 07:30	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: ARGWA-13

Lab Sample ID: 180-94593-4

Date Collected: 08/19/19 16:59

Matrix: Water

Date Received: 08/23/19 08:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.20 mL	1.0 g	441266	08/29/19 09:07	KAW	TAL SL
Total/NA	Analysis	9315		1			443706	09/23/19 14:44	KLS	TAL SL
Instrument ID: GFPCBLUE										

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
 Project/Site: CCR - Plant Arkwright Ash Pond 3

Job ID: 180-94593-2
 SDG: 1

Client Sample ID: ARGWA-13

Lab Sample ID: 180-94593-4

Date Collected: 08/19/19 16:59

Matrix: Water

Date Received: 08/23/19 08:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep_0			1000.20 mL	1.0 g	441285	08/29/19 10:34	KAW	TAL SL
Total/NA	Analysis	9320		1			442963	09/16/19 09:47	JCB	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			444104	09/25/19 07:30	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: ARGWA-14

Lab Sample ID: 180-94593-5

Date Collected: 08/21/19 09:10

Matrix: Water

Date Received: 08/23/19 08:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.82 mL	1.0 g	441266	08/29/19 09:07	KAW	TAL SL
Total/NA	Analysis	9315		1			443706	09/23/19 14:47	KLS	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.82 mL	1.0 g	441285	08/29/19 10:34	KAW	TAL SL
Total/NA	Analysis	9320		1			442963	09/16/19 09:47	JCB	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			444104	09/25/19 07:30	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: ARGWC-7

Lab Sample ID: 180-94593-6

Date Collected: 08/21/19 09:40

Matrix: Water

Date Received: 08/23/19 08:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.11 mL	1.0 g	441266	08/29/19 09:07	KAW	TAL SL
Total/NA	Analysis	9315		1			443706	09/23/19 14:47	KLS	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.11 mL	1.0 g	441285	08/29/19 10:34	KAW	TAL SL
Total/NA	Analysis	9320		1			442963	09/16/19 09:47	JCB	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			444104	09/25/19 07:30	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: ARGWC-8

Lab Sample ID: 180-94593-7

Date Collected: 08/21/19 13:22

Matrix: Water

Date Received: 08/23/19 08:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.58 mL	1.0 g	441266	08/29/19 09:07	KAW	TAL SL
Total/NA	Analysis	9315		1			443706	09/23/19 14:47	KLS	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.58 mL	1.0 g	441285	08/29/19 10:34	KAW	TAL SL
Total/NA	Analysis	9320		1			442963	09/16/19 09:47	JCB	TAL SL
Instrument ID: GFPCPURPLE										

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Lab Chronicle

Client: Southern Company
 Project/Site: CCR - Plant Arkwright Ash Pond 3

Job ID: 180-94593-2
 SDG: 1

Client Sample ID: ARGWC-8

Lab Sample ID: 180-94593-7

Date Collected: 08/21/19 13:22

Matrix: Water

Date Received: 08/23/19 08:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Ra226_Ra228		1			444104	09/25/19 07:30	SMP	TAL SL

Client Sample ID: ARGWC-9

Lab Sample ID: 180-94593-8

Date Collected: 08/21/19 11:33

Matrix: Water

Date Received: 08/23/19 08:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.23 mL	1.0 g	441266	08/29/19 09:07	KAW	TAL SL
Total/NA	Analysis	9315		1			443706	09/23/19 14:47	KLS	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.23 mL	1.0 g	441285	08/29/19 10:34	KAW	TAL SL
Total/NA	Analysis	9320		1			442963	09/16/19 09:47	JCB	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			444104	09/25/19 07:30	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: ARGWC-10

Lab Sample ID: 180-94593-9

Date Collected: 08/21/19 14:45

Matrix: Water

Date Received: 08/23/19 08:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.61 mL	1.0 g	441266	08/29/19 09:07	KAW	TAL SL
Total/NA	Analysis	9315		1			443706	09/23/19 14:47	KLS	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.61 mL	1.0 g	441285	08/29/19 10:34	KAW	TAL SL
Total/NA	Analysis	9320		1			442963	09/16/19 09:47	JCB	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			444104	09/25/19 07:30	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: ARGWC-15

Lab Sample ID: 180-94593-10

Date Collected: 08/21/19 11:30

Matrix: Water

Date Received: 08/23/19 08:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.88 mL	1.0 g	441266	08/29/19 09:07	KAW	TAL SL
Total/NA	Analysis	9315		1			443706	09/23/19 14:48	KLS	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.88 mL	1.0 g	441285	08/29/19 10:34	KAW	TAL SL
Total/NA	Analysis	9320		1			442955	09/16/19 09:49	KLS	TAL SL
Instrument ID: GFPCPROTEAN										
Total/NA	Analysis	Ra226_Ra228		1			444104	09/25/19 07:30	SMP	TAL SL
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Southern Company
 Project/Site: CCR - Plant Arkwright Ash Pond 3

Job ID: 180-94593-2
 SDG: 1

Client Sample ID: ARGWC-16

Lab Sample ID: 180-94593-11

Date Collected: 08/20/19 16:59

Matrix: Water

Date Received: 08/23/19 08:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.07 mL	1.0 g	441266	08/29/19 09:07	KAW	TAL SL
Total/NA	Analysis	9315		1			443706	09/23/19 14:48	KLS	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.07 mL	1.0 g	441285	08/29/19 10:34	KAW	TAL SL
Total/NA	Analysis	9320		1			442955	09/16/19 09:49	KLS	TAL SL
Instrument ID: GFPCPROTEAN										
Total/NA	Analysis	Ra226_Ra228		1			444104	09/25/19 07:30	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: ARGWC-17

Lab Sample ID: 180-94593-12

Date Collected: 08/21/19 13:55

Matrix: Water

Date Received: 08/23/19 08:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.35 mL	1.0 g	441266	08/29/19 09:07	KAW	TAL SL
Total/NA	Analysis	9315		1			443706	09/23/19 17:01	KLS	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.35 mL	1.0 g	441285	08/29/19 10:34	KAW	TAL SL
Total/NA	Analysis	9320		1			442955	09/16/19 09:49	KLS	TAL SL
Instrument ID: GFPCPROTEAN										
Total/NA	Analysis	Ra226_Ra228		1			444104	09/25/19 07:30	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: ARGWC-18

Lab Sample ID: 180-94593-13

Date Collected: 08/21/19 10:18

Matrix: Water

Date Received: 08/23/19 08:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.27 mL	1.0 g	441266	08/29/19 09:07	KAW	TAL SL
Total/NA	Analysis	9315		1			443706	09/23/19 17:02	KLS	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.27 mL	1.0 g	441285	08/29/19 10:34	KAW	TAL SL
Total/NA	Analysis	9320		1			442955	09/16/19 09:50	KLS	TAL SL
Instrument ID: GFPCPROTEAN										
Total/NA	Analysis	Ra226_Ra228		1			444104	09/25/19 07:30	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: EB-1-8-21-19

Lab Sample ID: 180-94593-14

Date Collected: 08/21/19 15:05

Matrix: Water

Date Received: 08/23/19 08:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.17 mL	1.0 g	441266	08/29/19 09:07	KAW	TAL SL
Total/NA	Analysis	9315		1			443706	09/23/19 17:02	KLS	TAL SL
Instrument ID: GFPCBLUE										

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
 Project/Site: CCR - Plant Arkwright Ash Pond 3

Job ID: 180-94593-2
 SDG: 1

Client Sample ID: EB-1-8-21-19

Lab Sample ID: 180-94593-14

Date Collected: 08/21/19 15:05

Matrix: Water

Date Received: 08/23/19 08:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep_0			1000.17 mL	1.0 g	441285	08/29/19 10:34	KAW	TAL SL
Total/NA	Analysis	9320		1			442955	09/16/19 09:50	KLS	TAL SL
Instrument ID: GFPCPROTEAN										
Total/NA	Analysis	Ra226_Ra228		1			444104	09/25/19 07:30	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: FB-1-8-21-19

Lab Sample ID: 180-94593-15

Date Collected: 08/21/19 10:35

Matrix: Water

Date Received: 08/23/19 08:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.30 mL	1.0 g	441266	08/29/19 09:07	KAW	TAL SL
Total/NA	Analysis	9315		1			443706	09/23/19 17:02	KLS	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.30 mL	1.0 g	441285	08/29/19 10:34	KAW	TAL SL
Total/NA	Analysis	9320		1			442955	09/16/19 09:50	KLS	TAL SL
Instrument ID: GFPCPROTEAN										
Total/NA	Analysis	Ra226_Ra228		1			444104	09/25/19 07:30	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: DUP-1

Lab Sample ID: 180-94593-16

Date Collected: 08/20/19 00:00

Matrix: Water

Date Received: 08/23/19 08:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.64 mL	1.0 g	441266	08/29/19 09:07	KAW	TAL SL
Total/NA	Analysis	9315		1			443706	09/23/19 17:02	KLS	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.64 mL	1.0 g	441285	08/29/19 10:34	KAW	TAL SL
Total/NA	Analysis	9320		1			442955	09/16/19 09:50	KLS	TAL SL
Instrument ID: GFPCPROTEAN										
Total/NA	Analysis	Ra226_Ra228		1			444104	09/25/19 07:30	SMP	TAL SL
Instrument ID: NOEQUIP										

Laboratory References:

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Analyst References:

Lab: TAL SL

Batch Type: Prep

KAW = Kayla Walker

Batch Type: Analysis

JCB = Justin Banner

KLS = Kody Saulters

SMP = Siobhan Perry

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Arkwright Ash Pond 3

Job ID: 180-94593-2
 SDG: 1

Client Sample ID: ARGWA-3

Lab Sample ID: 180-94593-1

Date Collected: 08/20/19 12:44

Matrix: Water

Date Received: 08/23/19 08:40

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0449	U	0.0575	0.0576	1.00	0.136	pCi/L	08/29/19 09:07	09/23/19 14:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.2		40 - 110					08/29/19 09:07	09/23/19 14:44	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.397	U	0.267	0.270	1.00	0.414	pCi/L	08/29/19 10:34	09/16/19 09:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.2		40 - 110					08/29/19 10:34	09/16/19 09:47	1
Y Carrier	84.1		40 - 110					08/29/19 10:34	09/16/19 09:47	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.352	U	0.273	0.276	5.00	0.414	pCi/L		09/25/19 07:30	1

Client Sample ID: ARGWA-5

Lab Sample ID: 180-94593-2

Date Collected: 08/20/19 16:49

Matrix: Water

Date Received: 08/23/19 08:40

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.00746	U	0.0624	0.0624	1.00	0.122	pCi/L	08/29/19 09:07	09/23/19 14:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		40 - 110					08/29/19 09:07	09/23/19 14:44	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0999	U	0.200	0.200	1.00	0.375	pCi/L	08/29/19 10:34	09/16/19 09:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		40 - 110					08/29/19 10:34	09/16/19 09:47	1
Y Carrier	86.4		40 - 110					08/29/19 10:34	09/16/19 09:47	1

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Arkwright Ash Pond 3

Job ID: 180-94593-2
 SDG: 1

Client Sample ID: ARGWA-5

Lab Sample ID: 180-94593-2

Date Collected: 08/20/19 16:49

Matrix: Water

Date Received: 08/23/19 08:40

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.0925	U	0.210	0.210	5.00	0.375	pCi/L		09/25/19 07:30	1

Client Sample ID: ARGWA-12

Lab Sample ID: 180-94593-3

Date Collected: 08/20/19 14:02

Matrix: Ground Water

Date Received: 08/23/19 08:40

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0402	U	0.0702	0.0703	1.00	0.123	pCi/L	08/29/19 09:07	09/23/19 14:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.5		40 - 110					08/29/19 09:07	09/23/19 14:44	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.719		0.269	0.277	1.00	0.373	pCi/L	08/29/19 10:34	09/16/19 09:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.5		40 - 110					08/29/19 10:34	09/16/19 09:47	1
Y Carrier	88.6		40 - 110					08/29/19 10:34	09/16/19 09:47	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.759		0.278	0.286	5.00	0.373	pCi/L		09/25/19 07:30	1

Client Sample ID: ARGWA-13

Lab Sample ID: 180-94593-4

Date Collected: 08/19/19 16:59

Matrix: Water

Date Received: 08/23/19 08:40

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0463	U	0.0598	0.0600	1.00	0.138	pCi/L	08/29/19 09:07	09/23/19 14:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.3		40 - 110					08/29/19 09:07	09/23/19 14:44	1

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Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Arkwright Ash Pond 3

Job ID: 180-94593-2
SDG: 1

Client Sample ID: ARGWA-13

Lab Sample ID: 180-94593-4

Date Collected: 08/19/19 16:59

Matrix: Water

Date Received: 08/23/19 08:40

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.251	U	0.211	0.212	1.00	0.335	pCi/L	08/29/19 10:34	09/16/19 09:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.3		40 - 110					08/29/19 10:34	09/16/19 09:47	1
Y Carrier	86.0		40 - 110					08/29/19 10:34	09/16/19 09:47	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.204	U	0.219	0.220	5.00	0.335	pCi/L		09/25/19 07:30	1

Client Sample ID: ARGWA-14

Lab Sample ID: 180-94593-5

Date Collected: 08/21/19 09:10

Matrix: Water

Date Received: 08/23/19 08:40

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0125	U	0.0608	0.0608	1.00	0.131	pCi/L	08/29/19 09:07	09/23/19 14:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.3		40 - 110					08/29/19 09:07	09/23/19 14:47	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0788	U	0.247	0.247	1.00	0.429	pCi/L	08/29/19 10:34	09/16/19 09:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.3		40 - 110					08/29/19 10:34	09/16/19 09:47	1
Y Carrier	86.7		40 - 110					08/29/19 10:34	09/16/19 09:47	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.0663	U	0.254	0.254	5.00	0.429	pCi/L		09/25/19 07:30	1

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Arkwright Ash Pond 3

Job ID: 180-94593-2
 SDG: 1

Client Sample ID: ARGWC-7

Lab Sample ID: 180-94593-6

Date Collected: 08/21/19 09:40

Matrix: Water

Date Received: 08/23/19 08:40

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0173	U	0.0657	0.0657	1.00	0.125	pCi/L	08/29/19 09:07	09/23/19 14:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.4		40 - 110					08/29/19 09:07	09/23/19 14:47	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0631	U	0.234	0.234	1.00	0.407	pCi/L	08/29/19 10:34	09/16/19 09:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.4		40 - 110					08/29/19 10:34	09/16/19 09:47	1
Y Carrier	87.1		40 - 110					08/29/19 10:34	09/16/19 09:47	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.0805	U	0.243	0.243	5.00	0.407	pCi/L		09/25/19 07:30	1

Client Sample ID: ARGWC-8

Lab Sample ID: 180-94593-7

Date Collected: 08/21/19 13:22

Matrix: Water

Date Received: 08/23/19 08:40

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0195	U	0.0584	0.0585	1.00	0.111	pCi/L	08/29/19 09:07	09/23/19 14:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.2		40 - 110					08/29/19 09:07	09/23/19 14:47	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.105	U	0.206	0.206	1.00	0.353	pCi/L	08/29/19 10:34	09/16/19 09:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.2		40 - 110					08/29/19 10:34	09/16/19 09:47	1
Y Carrier	90.1		40 - 110					08/29/19 10:34	09/16/19 09:47	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Arkwright Ash Pond 3

Job ID: 180-94593-2
SDG: 1

Client Sample ID: ARGWC-8

Lab Sample ID: 180-94593-7

Date Collected: 08/21/19 13:22

Matrix: Water

Date Received: 08/23/19 08:40

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.125	U	0.214	0.214	5.00	0.353	pCi/L		09/25/19 07:30	1

Client Sample ID: ARGWC-9

Lab Sample ID: 180-94593-8

Date Collected: 08/21/19 11:33

Matrix: Water

Date Received: 08/23/19 08:40

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0224	U	0.0563	0.0563	1.00	0.126	pCi/L	08/29/19 09:07	09/23/19 14:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.3		40 - 110					08/29/19 09:07	09/23/19 14:47	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0778	U	0.206	0.206	1.00	0.356	pCi/L	08/29/19 10:34	09/16/19 09:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.3		40 - 110					08/29/19 10:34	09/16/19 09:47	1
Y Carrier	90.1		40 - 110					08/29/19 10:34	09/16/19 09:47	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.0554	U	0.214	0.214	5.00	0.356	pCi/L		09/25/19 07:30	1

Client Sample ID: ARGWC-10

Lab Sample ID: 180-94593-9

Date Collected: 08/21/19 14:45

Matrix: Water

Date Received: 08/23/19 08:40

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0177	U	0.0584	0.0584	1.00	0.125	pCi/L	08/29/19 09:07	09/23/19 14:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.6		40 - 110					08/29/19 09:07	09/23/19 14:47	1

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Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Arkwright Ash Pond 3

Job ID: 180-94593-2
 SDG: 1

Client Sample ID: ARGWC-10

Lab Sample ID: 180-94593-9

Date Collected: 08/21/19 14:45

Matrix: Water

Date Received: 08/23/19 08:40

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.370	U	0.250	0.252	1.00	0.389	pCi/L	08/29/19 10:34	09/16/19 09:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.6		40 - 110					08/29/19 10:34	09/16/19 09:47	1
Y Carrier	90.8		40 - 110					08/29/19 10:34	09/16/19 09:47	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.352	U	0.257	0.259	5.00	0.389	pCi/L		09/25/19 07:30	1

Client Sample ID: ARGWC-15

Lab Sample ID: 180-94593-10

Date Collected: 08/21/19 11:30

Matrix: Water

Date Received: 08/23/19 08:40

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0885	U	0.0766	0.0771	1.00	0.115	pCi/L	08/29/19 09:07	09/23/19 14:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.8		40 - 110					08/29/19 09:07	09/23/19 14:48	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.402	U	0.301	0.304	1.00	0.478	pCi/L	08/29/19 10:34	09/16/19 09:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.8		40 - 110					08/29/19 10:34	09/16/19 09:49	1
Y Carrier	86.4		40 - 110					08/29/19 10:34	09/16/19 09:49	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.491		0.311	0.314	5.00	0.478	pCi/L		09/25/19 07:30	1

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Arkwright Ash Pond 3

Job ID: 180-94593-2
 SDG: 1

Client Sample ID: ARGWC-16

Lab Sample ID: 180-94593-11

Date Collected: 08/20/19 16:59

Matrix: Water

Date Received: 08/23/19 08:40

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0487	U	0.0801	0.0802	1.00	0.138	pCi/L	08/29/19 09:07	09/23/19 14:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.7		40 - 110					08/29/19 09:07	09/23/19 14:48	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.179	U	0.272	0.272	1.00	0.455	pCi/L	08/29/19 10:34	09/16/19 09:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.7		40 - 110					08/29/19 10:34	09/16/19 09:49	1
Y Carrier	85.2		40 - 110					08/29/19 10:34	09/16/19 09:49	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.227	U	0.284	0.284	5.00	0.455	pCi/L		09/25/19 07:30	1

Client Sample ID: ARGWC-17

Lab Sample ID: 180-94593-12

Date Collected: 08/21/19 13:55

Matrix: Water

Date Received: 08/23/19 08:40

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0233	U	0.0759	0.0759	1.00	0.139	pCi/L	08/29/19 09:07	09/23/19 17:01	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.6		40 - 110					08/29/19 09:07	09/23/19 17:01	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0599	U	0.243	0.244	1.00	0.440	pCi/L	08/29/19 10:34	09/16/19 09:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.6		40 - 110					08/29/19 10:34	09/16/19 09:49	1
Y Carrier	87.5		40 - 110					08/29/19 10:34	09/16/19 09:49	1

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Arkwright Ash Pond 3

Job ID: 180-94593-2
 SDG: 1

Client Sample ID: ARGWC-17

Lab Sample ID: 180-94593-12

Date Collected: 08/21/19 13:55

Matrix: Water

Date Received: 08/23/19 08:40

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.0366	U	0.255	0.256	5.00	0.440	pCi/L		09/25/19 07:30	1

Client Sample ID: ARGWC-18

Lab Sample ID: 180-94593-13

Date Collected: 08/21/19 10:18

Matrix: Water

Date Received: 08/23/19 08:40

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0296	U	0.0619	0.0619	1.00	0.137	pCi/L	08/29/19 09:07	09/23/19 17:02	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.1		40 - 110					08/29/19 09:07	09/23/19 17:02	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.722		0.346	0.352	1.00	0.518	pCi/L	08/29/19 10:34	09/16/19 09:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.1		40 - 110					08/29/19 10:34	09/16/19 09:50	1
Y Carrier	83.7		40 - 110					08/29/19 10:34	09/16/19 09:50	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.693		0.351	0.357	5.00	0.518	pCi/L		09/25/19 07:30	1

Client Sample ID: EB-1-8-21-19

Lab Sample ID: 180-94593-14

Date Collected: 08/21/19 15:05

Matrix: Water

Date Received: 08/23/19 08:40

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0489	U	0.0528	0.0530	1.00	0.133	pCi/L	08/29/19 09:07	09/23/19 17:02	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.8		40 - 110					08/29/19 09:07	09/23/19 17:02	1

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Arkwright Ash Pond 3

Job ID: 180-94593-2
 SDG: 1

Client Sample ID: EB-1-8-21-19

Lab Sample ID: 180-94593-14

Date Collected: 08/21/19 15:05

Matrix: Water

Date Received: 08/23/19 08:40

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.395	U	0.275	0.278	1.00	0.429	pCi/L	08/29/19 10:34	09/16/19 09:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.8		40 - 110					08/29/19 10:34	09/16/19 09:50	1
Y Carrier	87.5		40 - 110					08/29/19 10:34	09/16/19 09:50	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.347	U	0.280	0.283	5.00	0.429	pCi/L		09/25/19 07:30	1

Client Sample ID: FB-1-8-21-19

Lab Sample ID: 180-94593-15

Date Collected: 08/21/19 10:35

Matrix: Water

Date Received: 08/23/19 08:40

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0328	U	0.0689	0.0690	1.00	0.124	pCi/L	08/29/19 09:07	09/23/19 17:02	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.3		40 - 110					08/29/19 09:07	09/23/19 17:02	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0229	U	0.223	0.223	1.00	0.401	pCi/L	08/29/19 10:34	09/16/19 09:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.3		40 - 110					08/29/19 10:34	09/16/19 09:50	1
Y Carrier	89.0		40 - 110					08/29/19 10:34	09/16/19 09:50	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.00986	U	0.233	0.233	5.00	0.401	pCi/L		09/25/19 07:30	1

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Arkwright Ash Pond 3

Job ID: 180-94593-2
 SDG: 1

Client Sample ID: DUP-1

Lab Sample ID: 180-94593-16

Date Collected: 08/20/19 00:00

Matrix: Water

Date Received: 08/23/19 08:40

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.00144	U	0.0678	0.0678	1.00	0.134	pCi/L	08/29/19 09:07	09/23/19 17:02	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	102		40 - 110					08/29/19 09:07	09/23/19 17:02	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.335	U	0.268	0.270	1.00	0.427	pCi/L	08/29/19 10:34	09/16/19 09:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	102		40 - 110					08/29/19 10:34	09/16/19 09:50	1
Y Carrier	84.5		40 - 110					08/29/19 10:34	09/16/19 09:50	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.334	U	0.276	0.278	5.00	0.427	pCi/L		09/25/19 07:30	1

QC Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Arkwright Ash Pond 3

Job ID: 180-94593-2
 SDG: 1

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-441266/23-A
Matrix: Water
Analysis Batch: 443706

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 441266

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	-0.03923	U	0.0426	0.0428	1.00	0.115	pCi/L	08/29/19 09:07	09/23/19 17:03	1
Carrier	MB %Yield	MB Qualifier	Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	94.9		40 - 110		08/29/19 09:07	09/23/19 17:03	1			

Lab Sample ID: LCS 160-441266/1-A
Matrix: Water
Analysis Batch: 443706

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 441266

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	11.4	9.942		1.06	1.00	0.154	pCi/L	88	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits						
Ba Carrier	87.3		40 - 110						

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-441285/23-A
Matrix: Water
Analysis Batch: 442955

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 441285

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.2001	U	0.257	0.257	1.00	0.426	pCi/L	08/29/19 10:34	09/16/19 09:51	1
Carrier	MB %Yield	MB Qualifier	Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	94.9		40 - 110		08/29/19 10:34	09/16/19 09:51	1			
Y Carrier	87.9		40 - 110		08/29/19 10:34	09/16/19 09:51	1			

Lab Sample ID: LCS 160-441285/1-A
Matrix: Water
Analysis Batch: 442963

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 441285

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-228	9.58	8.927		1.05	1.00	0.400	pCi/L	93	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits						
Ba Carrier	87.3		40 - 110						
Y Carrier	93.1		40 - 110						

QC Association Summary

Client: Southern Company
 Project/Site: CCR - Plant Arkwright Ash Pond 3

Job ID: 180-94593-2
 SDG: 1

Rad

Prep Batch: 441266

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-94593-1	ARGWA-3	Total/NA	Water	PrecSep-21	
180-94593-2	ARGWA-5	Total/NA	Water	PrecSep-21	
180-94593-3	ARGWA-12	Total/NA	Ground Water	PrecSep-21	
180-94593-4	ARGWA-13	Total/NA	Water	PrecSep-21	
180-94593-5	ARGWA-14	Total/NA	Water	PrecSep-21	
180-94593-6	ARGWC-7	Total/NA	Water	PrecSep-21	
180-94593-7	ARGWC-8	Total/NA	Water	PrecSep-21	
180-94593-8	ARGWC-9	Total/NA	Water	PrecSep-21	
180-94593-9	ARGWC-10	Total/NA	Water	PrecSep-21	
180-94593-10	ARGWC-15	Total/NA	Water	PrecSep-21	
180-94593-11	ARGWC-16	Total/NA	Water	PrecSep-21	
180-94593-12	ARGWC-17	Total/NA	Water	PrecSep-21	
180-94593-13	ARGWC-18	Total/NA	Water	PrecSep-21	
180-94593-14	EB-1-8-21-19	Total/NA	Water	PrecSep-21	
180-94593-15	FB-1-8-21-19	Total/NA	Water	PrecSep-21	
180-94593-16	DUP-1	Total/NA	Water	PrecSep-21	
MB 160-441266/23-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-441266/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 441285

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-94593-1	ARGWA-3	Total/NA	Water	PrecSep_0	
180-94593-2	ARGWA-5	Total/NA	Water	PrecSep_0	
180-94593-3	ARGWA-12	Total/NA	Ground Water	PrecSep_0	
180-94593-4	ARGWA-13	Total/NA	Water	PrecSep_0	
180-94593-5	ARGWA-14	Total/NA	Water	PrecSep_0	
180-94593-6	ARGWC-7	Total/NA	Water	PrecSep_0	
180-94593-7	ARGWC-8	Total/NA	Water	PrecSep_0	
180-94593-8	ARGWC-9	Total/NA	Water	PrecSep_0	
180-94593-9	ARGWC-10	Total/NA	Water	PrecSep_0	
180-94593-10	ARGWC-15	Total/NA	Water	PrecSep_0	
180-94593-11	ARGWC-16	Total/NA	Water	PrecSep_0	
180-94593-12	ARGWC-17	Total/NA	Water	PrecSep_0	
180-94593-13	ARGWC-18	Total/NA	Water	PrecSep_0	
180-94593-14	EB-1-8-21-19	Total/NA	Water	PrecSep_0	
180-94593-15	FB-1-8-21-19	Total/NA	Water	PrecSep_0	
180-94593-16	DUP-1	Total/NA	Water	PrecSep_0	
MB 160-441285/23-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-441285/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

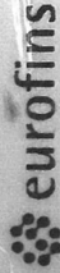
Chain of Custody Record

Client Information Client Contact: <u>Joju Abraham</u> Company: <u>Southern Company</u> Address: <u>PO BOX 2641 GSC8</u> City: <u>Birmingham</u> State, Zip: <u>AL, 35291</u> Phone: <u>SCS10347656</u> Email: <u>JAbraham@southernco.com</u> Project Name: <u>CCR Plant Arkwright - Ash Pond 3</u> Site: <u>Georgia</u>		Sampler: <u>Rubler / T. Goble</u> Lab PM: <u>Veronica Bortot</u> Phone: <u>770-594-5998</u> E-Mail: <u>Veronica.Bortot@testamericainc.com</u> Carrier Tracking No(s): _____ COC No: <u>400-73521-29028.1</u> Page: _____ Page: _____ Job #: _____	
Due Date Requested: _____ TAT Requested (days): _____ PO #: _____ SCS10347656 WO #: _____ Project #: <u>40007712</u> SSO#: _____		Analysis Requested Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> <input type="checkbox"/> Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> <input type="checkbox"/> Metals App. IV (EPA 6020/470) <input checked="" type="checkbox"/> <input type="checkbox"/> Fluoride (SW-846 9315/9320) <input checked="" type="checkbox"/> <input type="checkbox"/> N D Radium 226 & 228 <input checked="" type="checkbox"/> <input type="checkbox"/> Total Number of Containers <input checked="" type="checkbox"/> <input type="checkbox"/>	
Sample Identification <u>ARGWC-15</u> <u>ARGWC-16</u> <u>ARGWC-17</u> <u>ARGWC-18</u> <u>EB-1-8-21-19</u> <u>EB-1-8-21-19</u> <u>Dup-1</u>		Matrix (W=water, S=solid, O=water/soil, BT=Tissue, A=Air) Sample Type (C=comp, G=grab) Sample Date Sample Time Preservation Code: Water Water Water Water Water Water Water Water Water Water Water	
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested: I, II, III, IV, Other (specify) _____		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	
Empty Kit Relinquished by: _____ Relinquished by: <u>Veronica Bortot</u> Relinquished by: <u>ETN</u> Relinquished by: _____ Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal No.: _____		Special Instructions/QC Requirements: Method of Shipment: _____ Date: _____ Date/Time: <u>8-22-19 / 15:20</u> Date/Time: <u>8/22/19 / 16:30</u> Date/Time: _____ Received by: <u>ETN</u> Received by: <u>ETN</u> Received by: _____ Cooler Temperature(s) °C and Cooler Remarks: _____	





180-94593 Waybill



Environment Testing
TestAmerica

ORIGIN ID: MULA (678) 966-9991
GEORGE TAYLOR
EUROFINESTAMERICA, ATLANTA
6500 MCDONOUGH DRIVE
NORCROSS, GA 30093
UNITED STATES US

SHIP DATE: 22AUG19
ACTWGT: 59.60 LB
CAD: 859116/CAFE3211

BILL RECIPIENT

TO SAMPLE RECEIVING
TA PITTSBURGH
301 ALPHA DRIVE
RIDC PARK
PITTSBURGH PA 15238
(412) 963-7068
REF: ACC

edEX
Express



FRI - 23 AUG 3:00
STANDARD OVERNIGHT

1 of 5
TRK# 0201
4651 0083 4424
MASTER

NA AGCA

217
CF=13
#10
T.S.

SHIP DATE: 22AUG19
ACTWGT: 59.60 LB
CAD: 859116/CAFE3211
BILL RECIPIENT

30093
30093
US US

SAMPLE RECEIVING
TA PITTSBURGH

301 AL
RIDC PARK
PITTSBURGH PA 15238
(412) 963-7068
REF: ACC

FedEx
Express



FRI - 23 AUG 3:00
STANDARD OVERNIGHT

4 of 5
MPS# 4651 0083 4457
4651 0083 4424

PA-US

NA AGCA

Mstr#

Uncorrected temp
Thermometer ID

Initials

CF 0101

PT-M-SPC-100-EP-0600-11/18/11

See you

- 1
- 2
- 3
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- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

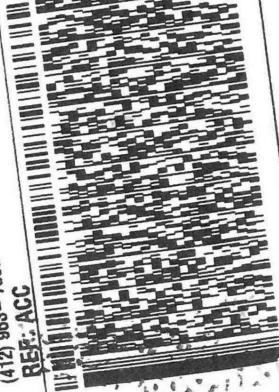


Environment Testing
TestAmerica

ORIGIN ID: MULA (678) 966-9991
GEORGE TAYLOR
EUROFINS TEST AMERICA, ATLANTA
6500 MCDONOUGH DRIVE
NORCROSS, GA 30093
UNITED STATES US

SHIP DATE: 22AUG19
ACTWT: 59.60 LB
CAD: 859116/CAFE3211
BILL RECIPIENT

TO **SAMPLE RECEIVING**
TA PITTSBURGH
301 ALPHA DRIVE
RIDC PARK
PITTSBURGH PA 15238
(412) 968-7068
REF: ACC



FRI - 23 AUG 3:00P
STANDARD OVERNIGHT

3 of 5
MPS# 4651 0083 4446
0263
Mstr# 4651 0083 4424

NA AGCA

15238
PIT

PA-US

Uncorrected temp
Thermometer ID

1.4 / 10

Initials

CF 10.3

PT-WI-SR-001 effective 11/8/18

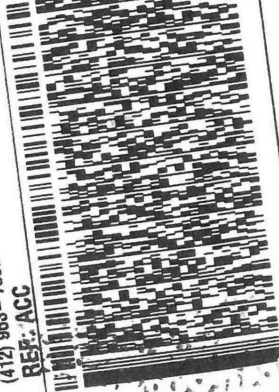
Body Seal

Environment Testing
TestAmerica

ORIGIN ID: MULA (678) 966-9991
GEORGE TAYLOR
EUROFINS TEST AMERICA, ATLANTA
6500 MCDONOUGH DRIVE
NORCROSS, GA 30093
UNITED STATES US

SHIP DATE: 22AUG19
ACTWT: 59.60 LB
CAD: 859116/CAFE3211
BILL RECIPIENT

TO **SAMPLE RECEIVING**
TA PITTSBURGH
301 ALPHA DRIVE
RIDC PARK
PITTSBURGH PA 15238
(412) 968-7068
REF: ACC



FRI - 23 AUG 3:00P
STANDARD OVERNIGHT

3 of 5
MPS# 4651 0083 4446
0263
Mstr# 4651 0083 4424

NA AGCA

15238
PIT

PA-US

Uncorrected temp
Thermometer ID

1.4 / 10

Initials

CF 10.3

PT-WI-SR-001 effective 11/8/18

Body Seal



- 1
- 2
- 3
- 4
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- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13



PT-VI-SR-001 effective 11/8/18

CF-013 Initials

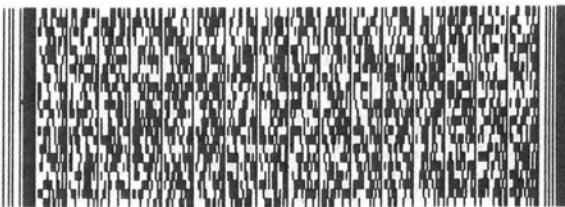
Uncorrected temp
Thermometer ID

15238 PA-US PIT

NA AGCA

MPS# 4651 0083 4435 Mstr# 4651 0083 4424 0201

FRI - 23 AUG 3:00P STANDARD OVERNIGHT



PO: N

REF: ACC

(412) 968-7068

PITTSBURGH PA 15238

RIDC PARK

301 ALPHA DRIVE

TA PITTSBURGH

SAMPLE RECEIVING

NORCR 10

US

550C

NORCROSS, GA 30093

FROM: GEORG

EURO

5500 MCDONOUGH DRIVE

ORIGIN ID: MULA (678) 966-9991

GEORGE TAYLOR

EUROFINSTESTAMERICA, ATLANTA

SHIP DATE: 22AUG19

ACTWGT: 59.60 LB

CAD: 859116/CAFE3211

BILL RECIPIENT

5511/7351/104C

TestAm

eurofins



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-94593-2

SDG Number: 1

Login Number: 94593

List Source: Eurofins TestAmerica, Pittsburgh

List Number: 1

Creator: Watson, Debbie

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-94593-2

SDG Number: 1

Login Number: 94593

List Number: 2

Creator: Hellm, Michael

List Source: Eurofins TestAmerica, St. Louis

List Creation: 08/27/19 03:53 PM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	22.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-94593-2

SDG Number: 1

Login Number: 94593

List Number: 3

Creator: Hellm, Michael

List Source: Eurofins TestAmerica, St. Louis

List Creation: 08/27/19 03:55 PM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	22.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



LEVEL 2A LABORATORY DATA VALIDATIONS

Plant Arkwright Ash Pond 3

Scan Event

August 2019

Georgia Power Company – Plant Arkwright Ash Pond 3 Quality Control Review of Analytical Data – August 2019

This narrative presents results of the Quality Control (QC) data review performed on analytical data submitted by Eurofins TestAmerica, Pittsburgh and St. Louis for groundwater samples collected at Plant Arkwright Ash Pond 3 between August 19, 2019 and August 21, 2019. The chemical data were reviewed to identify quality issues which could affect the use of the data for decision-making purposes.

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

In accordance with groundwater monitoring and corrective action procedures discussed in Title 40 CFR, Subpart D – Standards for the Disposal of Coal Combustion Residuals in Landfills and Surface Impoundments, the samples were analyzed for detected monitoring constituents listed in 40 CFR, Part 257, Appendix III and assessment monitoring constituents listed in 40 CFR, Part 257, Appendix IV. Test methods included Inductively Coupled Plasma – Mass Spectrometry (USEPA Method 6020B), Mercury in Liquid Wastes (USEPA Method 7470A), Determination of Inorganic Anions (USEPA Method 300.0), Solids in Water (Standard Methods 2540C), Radium-226 (USEPA 9315), and Radium-228 (USEPA Method 9320).

Data were reviewed in accordance with the US EPA Region IV Data Validation Standard Operating Procedures for Contract Laboratory Program Inorganic Data by Inductively Coupled Plasma – Atomic Emission Spectroscopy and Inductively Coupled Plasma – Mass Spectroscopy (September 2011, Rev. 2.0)¹ and the National Functional Guidelines for Inorganic Superfund Methods Data Review (January 2017)². The review included an assessment of the results for completeness, precision (laboratory duplicate recoveries and matrix spike/matrix spike duplicate recoveries), accuracy (laboratory control samples and matrix spike samples), and blank contamination (field, equipment, and laboratory blanks). Sample receipt conditions, holding times, and chains of custody (COCs) were reviewed. Where there was a discrepancy between the QC criteria in the guidelines and the QC criterion established in the analytical methodology, method-specific criteria or professional judgment were used.

DATA QUALITY OBJECTIVES

Laboratory Precision: Laboratory goals for precision were met.

Field Precision: Field goals for precision were met, with the exception of Cobalt on ARGWA-3 (180-94593-1) and DUP-1 (180-94593-16) as described in the qualifications section below.

Accuracy: Laboratory goals for accuracy were met.

Detection Limits: Project goals for detection limits were met.

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

Holding Times: Holding time requirements were met.

QUALIFICATIONS

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

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

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

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

- Samples ARGWA-3 (180-94593-1) and DUP-1 (180-94593-16) were qualified as estimated (J) for Cobalt as the field relative percent difference (RPD) exceeded QC criteria (32.2% above limit of 25).
- Certain radium results in SDG 94593 were qualified as non-detect (U) due to the analyte being detected at a similar concentration in an associated blank sample. As shown in

Table 2, the minimum detectable concentration (MDC) was raised to the sample result as part of the qualification process.

Atlantic Coast Consulting, Inc. reviewed the laboratory data from the Plant Arkwright Ash Pond 3 sampled between August 19, 2019 and August 21, 2019 in accordance with the analytical methods, the laboratory-specified QC criteria, and the guidelines. As described above, the results were acceptable for project use.

REFERENCES

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

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

TABLE 1

Georgia Power Company – Plant Arkwright Ash Pond 3

Sample Summary Table – August 2019

SDG	Field Identification	Collection Date	Lab Identification	Matrix	QC Samples	Analyses			
						Metals (6020B, 7470A)	Anions (300.0)	TDS (SM 2540C)	Radium-226/-228 (9315, 9320)
94593	ARGWA-3	8/20/2019	180-94593-1	GW		X	X	X	X
94593	ARGWA-5	8/20/2019	180-94593-2	GW		X	X	X	X
94593	ARGWA-12	8/20/2019	180-94593-3	GW		X	X	X	X
94593	ARGWA-13	8/19/2019	180-94593-4	GW		X	X	X	X
94593	ARGWA-14	8/21/2019	180-94593-5	GW		X	X	X	X
94593	ARGWC-7	8/21/2019	180-94593-6	GW		X	X	X	X
94593	ARGWC-8	8/21/2019	180-94593-7	GW		X	X	X	X
94593	ARGWC-9	8/21/2019	180-94593-8	GW		X	X	X	X
94593	ARGWC-10	8/21/2019	180-94593-9	GW		X	X	X	X
94593	ARGWC-15	8/21/2019	180-94593-10	GW		X	X	X	X
94593	ARGWC-16	8/20/2019	180-94593-11	GW		X	X	X	X
94593	ARGWC-17	8/21/2019	180-94593-12	GW		X	X	X	X
94593	ARGWC-18	8/21/2019	180-94593-13	GW		X	X	X	X
94593	EB-1-8-21-19	8/21/2019	180-94593-14	WQ	EB	X	X	X	X
94593	FB-1-8-21-19	8/21/2019	180-94593-15	WQ	FB	X	X	X	X
94593	DUP-1	8/20/2019	180-94593-16	GW	FD (ARGWA-3)	X	X	X	X

Abbreviations:

EB – Equipment Blank

FB – Field Blank

FD – Field Duplicate

GW – Groundwater

QC – Quality Control

TDS – Total Dissolved Solids

WQ – Water Quality Control

TABLE 2

Georgia Power Company – Plant Arkwright Ash Pond 3

Qualifier Summary Table – August 2019

SDG	Field Identification	Constituent	New RL	New MDL or MDC	Qualifier	Reason
94593	ARGWA-3	Cobalt			J	RPD exceeds field goal
94593	DUP-1	Cobalt			J	RPD exceeds field goal
94593	ARGWA-14	Radium-228		0.0788	U	Blank detection
94593	ARGWC-7	Radium-228		0.0631	U	Blank detection
94593	ARGWC-8	Radium-228		0.105	U	Blank detection
94593	ARGWC-9	Radium-228		0.0778	U	Blank detection
94593	ARGWC-16	Radium-228		0.179	U	Blank detection

Abbreviations:

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

Qualifiers:

J – Estimated Result
ND – Non-Detect Result

Product Name: Low-Flow System

Date: 2019-08-20 12:46:01

Project Information:

Operator Name Ryan Walker
Company Name ACC
Project Name Plant Arkwright
Site Name Plant Arkwright - Ash Pond 3
Latitude 32° 55' 56.6"
Longitude -83° -42' -27.25"
Sonde SN 369323
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type QED Bladder
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 42 ft

Pump placement from TOC 40 ft

Well Information:

Well ID ARGWA-3
Well diameter 2 in
Well Total Depth 42.29 ft
Screen Length 10 ft
Depth to Water 36.02 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.5774637 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 4 in
Total Volume Pumped 14 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 3%	+/- 10		+/- 0.3	+/- 10
Last 5	12:24:53	2400.01	20.46	5.83	80.04	3.87	36.30	5.82	72.12
Last 5	12:29:53	2700.00	20.52	5.83	80.01	2.55	36.30	5.81	71.49
Last 5	12:34:53	3000.01	20.55	5.83	79.90	3.06	36.30	5.83	72.66
Last 5	12:39:53	3300.00	20.66	5.83	79.98	2.63	36.30	5.82	72.34
Last 5	12:44:53	3600.00	20.67	5.83	79.94	2.82	36.30	5.81	72.69
Variance 0			0.03	-0.01	-0.11			0.02	1.17
Variance 1			0.11	-0.00	0.08			-0.01	-0.32
Variance 2			0.01	0.00	-0.04			-0.01	0.35

Notes

Sampled at 12:44. Sunny, 80's.

Grab Samples

Product Name: Low-Flow System

Date: 2019-08-20 16:49:51

Project Information:

Operator Name Ryan Walker
Company Name Atlantic Coast Consulting
Project Name Plant Arkwright
Site Name Plant Arkwright - Ash Pond 3
Latitude 32° 55' 47.11"
Longitude -83° -42' -19.61"
Sonde SN 369323
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type QED Bladder
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 33 ft

Pump placement from TOC 28 ft

Well Information:

Well ID ARGWA-5
Well diameter 2 in
Well Total Depth 33.11 ft
Screen Length 10 ft
Depth to Water 23.89 ft

Pumping Information:

Final Pumping Rate 280 mL/min
Total System Volume 0.537293 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 3 in
Total Volume Pumped 18.2 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 3%	+/- 10		+/- 0.3	+/- 10
Last 5	16:29:07	2700.01	19.53	5.76	78.77	1.41	24.10	5.45	57.40
Last 5	16:34:07	3000.01	19.48	5.80	78.05	1.39	24.10	5.37	57.93
Last 5	16:39:07	3300.00	19.42	5.79	77.72	1.12	24.10	5.39	58.80
Last 5	16:44:07	3600.00	19.45	5.76	78.37	0.92	24.10	5.48	56.67
Last 5	16:49:07	3900.00	19.45	5.80	77.71	1.37	24.10	5.36	56.93
Variance 0			-0.06	-0.01	-0.33			0.01	0.87
Variance 1			0.03	-0.03	0.66			0.09	-2.12
Variance 2			0.00	0.04	-0.67			-0.12	0.25

Notes

Sampled at 16:49. Sunny, 90's.

Grab Samples

Product Name: Low-Flow System

Date: 2019-08-20 14:03:14

Project Information:

Operator Name Ryan Walker
Company Name ACC
Project Name Plant Arkwright
Site Name Plant Arkwright - Ash Pond 3
Latitude 32° 55' 57.65"
Longitude -83° -42' -34.77"
Sonde SN 369323
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type QED Bladder
Tubing Type poly
Tubing Diameter .25 in
Tubing Length 32 ft

Pump placement from TOC 27 ft

Well Information:

Well ID ARGWA-12
Well diameter 2 in
Well Total Depth 32.35 ft
Screen Length 10 ft
Depth to Water 16.65 ft

Pumping Information:

Final Pumping Rate 220 mL/min
Total System Volume 0.6988875 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 9 in
Total Volume Pumped 8 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 3%	+/- 10		+/- 0.3	+/- 10
Last 5	13:42:16	900.02	20.41	5.90	172.29	5.27	17.40	3.49	64.49
Last 5	13:47:16	1200.02	20.46	5.89	171.60	4.67	17.40	3.62	64.37
Last 5	13:52:16	1500.02	20.55	5.84	172.12	4.89	17.40	3.58	65.49
Last 5	13:57:16	1800.02	20.59	5.89	172.13	3.37	17.40	3.39	63.65
Last 5	14:02:16	2100.01	20.34	5.89	171.79	3.41	17.40	3.32	63.57
Variance 0			0.09	-0.05	0.51			-0.05	1.13
Variance 1			0.04	0.05	0.01			-0.19	-1.84
Variance 2			-0.25	-0.01	-0.34			-0.06	-0.09

Notes

Sampled at 14:02. Sunny, 80's.

Grab Samples

Product Name: Low-Flow System

Date: 2019-08-19 17:02:13

Project Information:

Operator Name Taylor Goble
Company Name ACC
Project Name Plant Arkwright
Site Name Plant Arkwright - Ash Pond 3
Latitude 32° 55' 47.11"
Longitude -83° -42' -19.61"
Sonde SN 466058
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type QED Bladder
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 43 ft

Pump placement from TOC 38 ft

Well Information:

Well ID ARGWA-13
Well diameter 2 in
Well Total Depth 43.25 ft
Screen Length 10 ft
Depth to Water 24.97 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 0.5819272 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 3 in
Total Volume Pumped 6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 3%	+/- 10		+/- 0.3	+/- 10
Last 5	16:39:54	2106.01	20.66	5.62	1395.42	1.39	25.26	1.02	110.42
Last 5	16:44:57	2409.00	20.71	5.61	1394.79	1.25	25.27	0.97	110.72
Last 5	16:49:57	2708.98	20.62	5.60	1395.34	1.12	25.26	0.96	111.81
Last 5	16:54:57	3008.99	20.62	5.59	1391.35	1.15	25.26	0.90	111.57
Last 5	16:59:57	3308.98	20.64	5.59	1385.27	1.03	25.26	0.87	111.65
Variance 0			-0.09	-0.01	0.55			-0.01	1.10
Variance 1			0.01	-0.01	-3.99			-0.06	-0.25
Variance 2			0.02	-0.00	-6.08			-0.03	0.09

Notes

Sampled at 1659. Sunny 91 degrees

Grab Samples

Product Name: Low-Flow System

Date: 2019-08-21 11:26:47

Project Information:

Operator Name Ryan Walker
Company Name ACC
Project Name Plant Arkwright
Site Name Plant Arkwright - Ash Pond 3
Latitude 32° 55' 47.66"
Longitude -83° -42' -16.37"
Sonde SN 369323
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type QED Bladder
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 58 ft

Pump placement from TOC 53 ft

Well Information:

Well ID ARGWA-14
Well diameter 2 in
Well Total Depth 58.18 ft
Screen Length 10 ft
Depth to Water 43.13 ft

Pumping Information:

Final Pumping Rate 50 mL/min
Total System Volume 0.6488785 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 102 in
Total Volume Pumped 8.75 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 3%	+/- 10		+/- 0.3	+/- 10
Last 5	11:04:17	6904.94	21.08	6.47	366.54	0.88	50.40	2.87	26.50
Last 5	11:09:17	7204.98	21.13	6.52	394.06	0.67	50.70	3.03	23.11
Last 5	11:14:17	7504.94	20.95	6.58	435.85	0.68	51.00	2.90	19.03
Last 5	11:19:17	7804.93	21.17	6.68	492.09	0.55	51.40	2.09	-13.56
Last 5	11:24:17	8104.93	21.31	6.74	526.83	0.61	51.70	1.73	-71.25
Variance 0			-0.18	0.06	41.80			-0.13	-4.09
Variance 1			0.22	0.10	56.23			-0.81	-32.59
Variance 2			0.14	0.06	34.74			-0.36	-57.69

Notes

Well purged dry. Not sampled.

Grab Samples

Product Name: Low-Flow System

Date: 2019-08-21 09:12:10

Project Information:

Operator Name Ryan Walker
Company Name ACC
Project Name Plant Arkwright
Site Name Plant Arkwright - Ash Pond 3
Latitude 32° 55' 47.84"
Longitude -83° -42' -16.06"
Sonde SN 369323
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type QED Bladder
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 58 ft

Pump placement from TOC 53 ft

Well Information:

Well ID ARGWA-14
Well diameter 2 in
Well Total Depth 58.18 ft
Screen Length 10 ft
Depth to Water 53.0 ft

Pumping Information:

Final Pumping Rate 50 mL/min
Total System Volume 0.6488785 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 4 in
Total Volume Pumped 0.25 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 3%	+/- 10		+/- 0.3	+/- 10
Last 5	09:10:48	300.09	23.50	6.94	573.47	8.60	53.00	8.33	129.98
Last 5									
Last 5									
Last 5									
Last 5									
Variance 0			nan	nan	nan			nan	nan
Variance 1			0.00	0.00	0.00			0.00	0.00
Variance 2			0.00	0.00	0.00			0.00	0.00

Notes

Well purged dry 8/20/2019. Sampled at 09:10. WL below top of Pump.

Grab Samples

Product Name: Low-Flow System

Date: 2019-08-21 09:40:50

Project Information:

Operator Name Taylor Goble
Company Name Atlantic Coast Consulting
Project Name Plant Arkwright - Ash Pond 3
Site Name Plant Arkwright - Ash Pond 3
Latitude 32° 55' 47.11"
Longitude -83° -42' -19.61"
Sonde SN 573204
Turbidity Make/Model Hach 2100 Q

Pump Information:

Pump Model/Type QED Bladder
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 48 ft

Pump placement from TOC 43 ft

Well Information:

Well ID ARGWC-7
Well diameter 2 in
Well Total Depth 48.32 ft
Screen Length 10 ft
Depth to Water 24.94 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.6992443 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0 in
Total Volume Pumped 3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	09:20:02	600.03	23.69	5.83	158.50	2.29	24.99	4.89	165.23
Last 5	09:25:02	900.03	23.46	5.79	157.69	2.15	24.99	4.65	169.69
Last 5	09:30:02	1200.02	23.42	5.77	157.49	1.77	24.99	4.59	177.52
Last 5	09:35:02	1500.01	23.50	5.77	157.70	1.51	24.99	4.54	182.16
Last 5	09:40:02	1800.01	23.60	5.77	157.87	1.33	24.99	4.52	188.43
Variance 0			-0.05	-0.02	-0.20			-0.06	7.83
Variance 1			0.09	0.01	0.20			-0.04	4.64
Variance 2			0.10	-0.00	0.18			-0.03	6.27

Notes

Sampled at 0940. Sunny 79 degrees

Grab Samples

Product Name: Low-Flow System

Date: 2019-08-21 13:23:40

Project Information:

Operator Name Ryan Walker
Company Name ACC
Project Name Plant Arkwright
Site Name Plant Arkwright - Ash Pond 3
Latitude 32° 55' 32.98"
Longitude -83° -42' -25.66"
Sonde SN 369323
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type QED Bladder
Tubing Type poly
Tubing Diameter .25 in
Tubing Length 43 ft

Pump placement from TOC 38 ft

Well Information:

Well ID ARGWC-8
Well diameter 2 in
Well Total Depth 43.22 ft
Screen Length 10 ft
Depth to Water 25.93 ft

Pumping Information:

Final Pumping Rate 160 mL/min
Total System Volume 0.8050674 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 3 in
Total Volume Pumped 6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 3%	+/- 10		+/- 0.3	+/- 10
Last 5	13:02:09	600.07	21.71	6.34	440.02	1.94	26.20	0.55	49.42
Last 5	13:07:09	900.03	21.80	6.35	444.83	2.11	26.20	0.52	48.45
Last 5	13:12:09	1200.02	21.80	6.35	440.22	1.99	26.20	0.47	47.76
Last 5	13:17:09	1500.02	21.76	6.35	439.30	2.19	26.20	0.43	48.07
Last 5	13:22:09	1800.02	21.86	6.36	440.44	1.72	26.20	0.43	48.88
Variance 0			0.01	0.00	-4.61			-0.05	-0.70
Variance 1			-0.04	0.00	-0.93			-0.04	0.32
Variance 2			0.10	0.00	1.15			0.00	0.81

Notes

Sampled at 13:22. Sunny, 80's.

Grab Samples

Product Name: Low-Flow System

Date: 2019-08-21 11:34:31

Project Information:

Operator Name Ryan Walker
Company Name ACC
Project Name Plant Arkwright
Site Name Plant Arkwright - Ash Pond 3
Latitude 32° 55' 47.11"
Longitude -83° -42' -19.61"
Sonde SN 369323
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type QED Bladder
Tubing Type poly
Tubing Diameter .25 in
Tubing Length 38 ft

Pump placement from TOC 33 ft

Well Information:

Well ID ARGWC-9
Well diameter 2 in
Well Total Depth 38.07 ft
Screen Length 10 ft
Depth to Water 22.28 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.7568038 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 2 in
Total Volume Pumped 6.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 3%	+/- 10		+/- 0.3	+/- 10
Last 5	11:13:58	600.02	22.33	5.77	78.62	6.85	22.40	5.89	75.73
Last 5	11:18:58	900.02	22.43	5.76	78.30	5.08	22.40	5.82	75.17
Last 5	11:23:58	1200.02	22.15	5.76	78.37	3.99	22.40	5.80	74.96
Last 5	11:29:00	1502.01	22.19	5.76	78.81	2.80	22.40	5.85	74.31
Last 5	11:34:00	1802.00	22.13	5.76	78.26	2.57	22.40	5.77	73.82
Variance 0			-0.27	-0.01	0.07			-0.01	-0.20
Variance 1			0.04	-0.00	0.44			0.04	-0.65
Variance 2			-0.06	0.00	-0.55			-0.07	-0.49

Notes

Sampled at 11:33. Sunny, 80's.

Grab Samples

Product Name: Low-Flow System

Date: 2019-08-21 14:46:37

Project Information:

Operator Name Ryan Walker
Company Name ACC
Project Name Plant Arkwright
Site Name Plant Arkwright - Ash Pond 3
Latitude 32° 55' 41.8"
Longitude -83° -42' -30.18"
Sonde SN 369323
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type QED Bladder
Tubing Type poly
Tubing Diameter .25 in
Tubing Length 38 ft

Pump placement from TOC 33 ft

Well Information:

Well ID ARGWC-10
Well diameter 2 in
Well Total Depth 38.35 ft
Screen Length 10 ft
Depth to Water 22.78 ft

Pumping Information:

Final Pumping Rate 220 mL/min
Total System Volume 0.7568038 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 4 in
Total Volume Pumped 12.8 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 3%	+/- 10		+/- 0.3	+/- 10
Last 5	14:25:55	1501.03	20.64	5.81	96.99	8.35	23.10	4.36	67.56
Last 5	14:30:55	1801.03	20.45	5.83	96.55	9.07	23.10	4.18	65.43
Last 5	14:35:55	2101.02	20.46	5.82	96.31	7.55	23.10	4.21	64.38
Last 5	14:40:55	2401.02	20.48	5.82	96.38	8.54	23.10	4.05	63.03
Last 5	14:45:55	2701.02	20.46	5.82	96.06	4.92	23.10	4.15	63.07
Variance 0			0.00	-0.00	-0.24			0.02	-1.05
Variance 1			0.03	-0.00	0.07			-0.15	-1.36
Variance 2			-0.02	0.00	-0.32			0.10	0.04

Notes

Sampled at 14:45. Sunny, 90's.

Grab Samples

Product Name: Low-Flow System

Date: 2019-08-21 11:31:22

Project Information:

Operator Name Taylor Goble
Company Name Atlantic Coast Consulting
Project Name Plant Arkwright - Ash Pond 3
Site Name Plant Arkwright - Ash Pond 3
Latitude 32° 55' 47.11"
Longitude -83° -42' -19.61"
Sonde SN 466058
Turbidity Make/Model Hach 2100 Q

Pump Information:

Pump Model/Type QED Bladder
Tubing Type poly
Tubing Diameter 0.17 in
Tubing Length 43 ft

Pump placement from TOC 38 ft

Well Information:

Well ID ARGWC-15
Well diameter 2 in
Well Total Depth 42.35 ft
Screen Length 10 ft
Depth to Water 29.35 ft

Pumping Information:

Final Pumping Rate 50 mL/min
Total System Volume 0.6769272 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 12 in
Total Volume Pumped 2 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	11:10:21	600.03	24.71	6.33	230.25	2.29	30.11	1.70	100.52
Last 5	11:15:21	900.03	27.00	6.32	232.20	2.22	30.17	1.24	96.76
Last 5	11:20:21	1200.02	27.02	6.30	225.61	3.16	30.22	1.16	95.92
Last 5	11:25:21	1500.02	27.23	6.30	223.52	3.05	30.28	1.06	95.58
Last 5	11:30:23	1802.01	26.69	6.30	222.20	2.84	30.32	1.04	95.22
Variance 0			0.02	-0.02	-6.59			-0.08	-0.84
Variance 1			0.21	-0.00	-2.10			-0.11	-0.34
Variance 2			-0.54	0.00	-1.32			-0.02	-0.36

Notes

Sampled at 1130. Sunny 86 degrees

Grab Samples

Product Name: Low-Flow System

Date: 2019-08-20 16:59:51

Project Information:

Operator Name Taylor Goble
Company Name Atlantic Coast Consulting
Project Name Plant Arkwright
Site Name Plant Arkwright - Ash Pond 3
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 573204
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type QED Bladder
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 34 ft

Pump placement from TOC 29 ft

Well Information:

Well ID ARGWC-16
Well diameter 2 in
Well Total Depth 34.52 ft
Screen Length 10 ft
Depth to Water 21.38 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.2417564 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0 in
Total Volume Pumped 10 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 3%	+/- 10		+/- 0.3	+/- 10
Last 5	16:39:09	2101.01	21.89	5.36	362.24	1.22	21.45	3.63	276.47
Last 5	16:44:10	2402.01	22.24	5.36	361.25	1.35	21.47	3.42	285.57
Last 5	16:49:10	2702.00	22.41	5.35	360.98	1.20	21.46	3.41	305.31
Last 5	16:54:10	3001.99	22.45	5.35	361.31	1.02	21.46	3.22	321.57
Last 5	16:59:12	3303.99	22.45	5.35	360.49	1.10	21.46	3.16	339.09
Variance 0			0.17	-0.00	-0.27			-0.00	19.74
Variance 1			0.04	0.00	0.34			-0.20	16.26
Variance 2			-0.01	0.00	-0.83			-0.05	17.53

Notes

Sampled at 1659. Sunny 89 degrees

Grab Samples

Product Name: Low-Flow System

Date: 2019-08-21 13:56:44

Project Information:

Operator Name Taylor Goble
Company Name Atlantic Coast Consulting
Project Name Plant Arkwright - Ash Pond 3
Site Name Plant Arkwright - Ash Pond 3
Latitude 32° 55' 47.11"
Longitude -83° -42' -19.61"
Sonde SN 466058
Turbidity Make/Model Hach 2100 Q

Pump Information:

Pump Model/Type QED Bladder
Tubing Type poly
Tubing Diameter 0.17 in
Tubing Length 33 ft

Pump placement from TOC 28 ft

Well Information:

Well ID ARGWC-17
Well diameter 2 in
Well Total Depth 33.92 ft
Screen Length 10 ft
Depth to Water 22.7 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 0.632293 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0 in
Total Volume Pumped 5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	13:35:59	3906.98	25.69	5.08	153.48	2.28	22.93	1.18	112.80
Last 5	13:41:00	4207.96	25.51	5.07	153.66	1.79	22.93	1.14	113.54
Last 5	13:46:01	4508.96	25.74	5.07	153.29	1.53	22.94	1.03	114.08
Last 5	13:51:03	4810.96	26.02	5.07	153.56	1.72	22.94	0.98	115.60
Last 5	13:56:03	5110.95	25.73	5.07	152.98	1.80	22.94	0.90	115.81
Variance 0			0.23	0.00	-0.37			-0.10	0.54
Variance 1			0.27	0.00	0.27			-0.05	1.52
Variance 2			-0.29	-0.00	-0.58			-0.08	0.21

Notes

Sampled at 1355. Sunny 90 degrees

Grab Samples

Product Name: Low-Flow System

Date: 2019-08-21 10:18:55

Project Information:

Operator Name Ryan Walker
Company Name ACC
Project Name Plant Arkwright
Site Name Plant Arkwright - Ash Pond 3
Latitude 32° 55' 32.49"
Longitude -83° -42' -20.98"
Sonde SN 369323
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type QED Bladder
Tubing Type poly
Tubing Diameter .25 in
Tubing Length 50 ft

Pump placement from TOC 45 ft

Well Information:

Well ID ARGWC-18
Well diameter 2 in
Well Total Depth 50.65 ft
Screen Length 10 ft
Depth to Water 28.40 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.8726366 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 4 in
Total Volume Pumped 5.8 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 3%	+/- 10		+/- 0.3	+/- 10
Last 5	09:58:16	600.02	21.83	5.94	548.93	2.38	28.70	0.31	26.35
Last 5	10:03:16	900.01	21.54	5.93	547.41	2.24	28.70	0.26	26.51
Last 5	10:08:16	1200.00	21.52	5.93	546.99	2.41	28.70	0.24	26.62
Last 5	10:13:16	1500.01	21.47	5.94	548.43	2.02	28.70	0.24	28.23
Last 5	10:18:17	1801.00	21.40	5.94	546.76	2.45	28.70	0.23	29.14
Variance 0			-0.02	0.00	-0.42			-0.02	0.11
Variance 1			-0.05	0.00	1.44			0.00	1.61
Variance 2			-0.07	0.00	-1.67			-0.01	0.91

Notes

Sampled at 10:18. Sunny, 80's. FB-1 here.

Grab Samples

Georgia Power Site Sampling Data (GW)

Site Name : Plant Arkwright

Date : 8/19 - 8/21/19

Well ID	Sample Date	Sample Time	Additional Comments
ASH POND #3			
ARGWA-3	8-20-19	1244	Dup-1 here
ARGWA-5	8-20-19	1649	
ARGWA-12	8-20-19	1402	
ARGWA-13	8-19-19	1659	
ARGWA-14	8-21-19	0910	
ARGWC-7	8-21-19	0940	
ARGWC-8	8-21-19	1322	Extra sad here
ARGWC-9	8-21-19	1133	
ARGWC-10	8-21-19	1445	EB-1 here
ARGWC-15	8-21-19	1130	
ARGWC-16	8-20-19	1659	
ARGWC-17	8-21-19	1355	
ARGWC-18	8-21-19	1018	
EB-1-8-21-19	8-21-19	1505	Equipment type: WL
Dup-1	8-20-19	1244	Parent Sample: ARGWA-3
FB-1-8-21-19	8-21-19	1035	Poured at: ARGWC-18
ASH POND #2			
ARGWA-19	8-20-19	1326	
ARGWA-20	8-20-19	0954	
ARGWC-21	8-20-19	1512	
EB-2-8-20-19	8-20-19	1525	Equipment type: Gloves
Dup-2	8-20-19	0954	Parent Sample: ARGWA-20
FB-2-8-20-19	8-20-19	1345	Poured at: ARGWA-19
Additional comments :			
* Add date to EB and FB sample IDs.			



ATLANTIC COAST
CONSULTING, INC.

WELL CONDITION SUMMARY

Personnel: RW/TC

Site: Plant Arkwright

Date(s): 8/19-8/22/19

Page: 1 of 2

Well ID	Protective Casing	Well Casing	Label	Bollards	Lock	Well Pad	Weep Hole	Vent Hole	Notes
ARGWA-3	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
ARGWA-5	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
ARGWA-12	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
ARGWA-13	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
ARGWA-14	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Well pad undercut - causing "wobbling motion"
ARGWC-7	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
ARGWC-8	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	One bollard undercut
ARGWC-9	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
ARGWC-10	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
ARGWC-15	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	



ATLANTIC COAST
CONSULTING, INC.

WELL CONDITION SUMMARY

Site: Plant Arkwright

Personnel: Rw/TG

Date(s): 8/19-8/22/19

Page: 2 of 2

Well ID	Protective Casing	Well Casing	Label	Bollards	Lock	Well Pad	Weep Hole	Vent Hole	Notes
ARGWC-16	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
ARGWC-17	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
ARGWC-18	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
ARGWA-19	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
ARGWA-20	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
ARGWC-21	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
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ANALYTICAL REPORT

Eurofins TestAmerica, Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

Laboratory Job ID: 180-97054-1

Client Project/Site: CCR - Plant Arkwright
Sampling Event: PLANT ARKWRIGHT- AP-3
Revision: 1

For:

Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Attn: Joju Abraham



Authorized for release by:
11/29/2019 4:42:22 PM

Veronica Bortot, Senior Project Manager
(412)963-2435
veronica.bortot@testamericainc.com

LINKS

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results through
TotalAccess

Have a Question?



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www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

PA Lab ID: 02-00416



Table of Contents

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Case Narrative

Client: Southern Company
Project/Site: CCR - Plant Arkwright

Job ID: 180-97054-1

Job ID: 180-97054-1

Laboratory: Eurofins TestAmerica, Pittsburgh

Narrative

Job Narrative 180-97054-1

Comments

No additional comments.

Receipt

The samples were received on 10/10/2019 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 1.1° C, 2.1° C and 2.4° C.

GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

RAD

Method 9315: Radium-226 Prep Batch 160-446085

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative.

Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

DUP-1 (180-97054-1), ARGWA-14 (180-97054-2), ARGWA-5 (180-97054-3), ARGWA-3 (180-97054-4), ARGWC-15 (180-97054-5), ARGWA-12 (180-97054-6), ARGWA-13 (180-97054-7), (LCS 160-446085/1-A), (MB 160-446085/21-A), (310-167066-C-3-A), (310-167066-D-3-A MS) and (310-167066-D-3-B MSD)

Method 9320: Ra-228 Prep Batch 160-446088

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative.

Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

DUP-1 (180-97054-1), ARGWA-14 (180-97054-2), ARGWA-5 (180-97054-3), ARGWA-3 (180-97054-4), ARGWC-15 (180-97054-5), ARGWA-12 (180-97054-6), ARGWA-13 (180-97054-7), (LCS 160-446088/1-A), (MB 160-446088/21-A), (310-167066-C-3-B), (310-167066-D-3-C MS) and (310-167066-D-3-D MSD)

Method PrecSep_0: Radium 228 Prep Batch 160-446088:

The following samples had light yellow discoloration: DUP-1 (180-97054-1) and ARGWA-3 (180-97054-4).

Method PrecSep-21: Radium 226 Prep Batch 160-446085:

The following samples had light yellow discoloration: DUP-1 (180-97054-1) and ARGWA-3 (180-97054-4).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page

Definitions/Glossary

Client: Southern Company
Project/Site: CCR - Plant Arkwright

Job ID: 180-97054-1

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Rad

Qualifier	Qualifier Description
U	Result is less than the sample detection limit.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: Southern Company
 Project/Site: CCR - Plant Arkwright

Job ID: 180-97054-1

Laboratory: Eurofins TestAmerica, Pittsburgh

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	19-033-0	06-27-20
California	State	2891	04-30-20
Connecticut	State	PH-0688	09-30-20
Florida	NELAP	E871008	06-30-20
Georgia	State	PA 02-00416	04-30-20
Illinois	NELAP	004375	06-30-20
Kansas	NELAP	E-10350	03-31-20
Kentucky (UST)	State	162013	04-30-20
Kentucky (WW)	State	KY98043	12-31-19
Louisiana	NELAP	04041	06-30-20
Minnesota	NELAP	042-999-482	12-31-19
Nevada	State	PA00164	07-31-20
New Hampshire	NELAP	2030	04-04-20
New Jersey	NELAP	PA005	06-30-20
New York	NELAP	11182	04-01-20
North Carolina (WW/SW)	State	434	12-31-19
North Dakota	State	R-227	04-30-20
Oregon	NELAP	PA-2151	02-06-20
Pennsylvania	NELAP	02-00416	04-30-20
Rhode Island	State	LAO00362	12-30-19
South Carolina	State	89014	04-30-20
Texas	NELAP	T104704528	03-31-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	Federal	P-Soil-01	06-26-22
USDA	US Federal Programs	P330-16-00211	06-26-22
Utah	NELAP	PA001462019-8	05-31-20
Virginia	NELAP	10043	09-15-20
West Virginia DEP	State	142	01-31-20
Wisconsin	State	998027800	08-31-20

Accreditation/Certification Summary

Client: Southern Company
 Project/Site: CCR - Plant Arkwright

Job ID: 180-97054-1

Laboratory: Eurofins TestAmerica, St. Louis

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2305	04-06-22
ANAB	Dept. of Energy	L2305.01	04-06-22
ANAB	ISO/IEC 17025	L2305	04-06-22
Arizona	State	AZ0813	12-08-19
California	Los Angeles County Sanitation Districts	10259	06-30-20
California	State	2886	06-30-20
Connecticut	State	PH-0241	03-31-21
Florida	NELAP	E87689	06-30-20
HI - RadChem Recognition	State	n/a	06-30-20
Illinois	NELAP	004553	11-30-19
Iowa	State	373	09-17-20
Kansas	NELAP	E-10236	10-31-20
Kentucky (DW)	State	KY90125	12-31-19
Louisiana	NELAP	04080	06-30-20
Louisiana (DW)	State	LA011	12-31-19
Maryland	State	310	09-30-20
MI - RadChem Recognition	State	9005	06-30-20
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	07-31-20
New Jersey	NELAP	MO002	06-30-20
New York	NELAP	11616	04-01-20
North Dakota	State	R-207	06-30-20
NRC	NRC	24-24817-01	12-31-22
Oklahoma	State	9997	08-31-20
Pennsylvania	NELAP	68-00540	02-28-20
South Carolina	State	85002001	06-30-20
Texas	NELAP	T104704193-19-13	07-31-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	US Federal Programs	P330-17-00028	02-02-20
Utah	NELAP	MO000542019-11	07-31-20
Virginia	NELAP	10310	06-14-20
Washington	State	C592	08-30-20
West Virginia DEP	State	381	12-01-19

Sample Summary

Client: Southern Company
Project/Site: CCR - Plant Arkwright

Job ID: 180-97054-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
180-97054-1	DUP-1	Water	10/07/19 00:00	10/10/19 09:00	
180-97054-2	ARGWA-14	Water	10/07/19 16:25	10/10/19 09:00	
180-97054-3	ARGWA-5	Water	10/08/19 09:40	10/10/19 09:00	
180-97054-4	ARGWA-3	Water	10/08/19 12:20	10/10/19 09:00	
180-97054-5	ARGWC-15	Water	10/08/19 14:10	10/10/19 09:00	
180-97054-6	ARGWA-12	Ground Water	10/08/19 11:00	10/10/19 09:00	
180-97054-7	ARGWA-13	Water	10/08/19 14:05	10/10/19 09:00	

- 1
- 2
- 3
- 4
- 5
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- 10
- 11
- 12
- 13

Method Summary

Client: Southern Company
Project/Site: CCR - Plant Arkwright

Job ID: 180-97054-1

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	TAL PIT
EPA 6020	Metals (ICP/MS)	SW846	TAL PIT
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL PIT
9315	Radium-226 (GFPC)	SW846	TAL SL
9320	Radium-228 (GFPC)	SW846	TAL SL
Ra226_Ra228	Combined Radium-226 and Radium-228	TAL-STL	TAL SL
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PIT
PrecSep_0	Preparation, Precipitate Separation	None	TAL SL
PrecSep-21	Preparation, Precipitate Separation (21-Day In-Growth)	None	TAL SL

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

Laboratory References:

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Arkwright

Job ID: 180-97054-1

Client Sample ID: DUP-1

Lab Sample ID: 180-97054-1

Date Collected: 10/07/19 00:00

Matrix: Water

Date Received: 10/10/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			296903	11/03/19 03:10	MJH	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	294901	10/15/19 12:22	MWW	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			295911	10/23/19 14:45	WTR	TAL PIT
Instrument ID: NEMO										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	294600	10/11/19 12:06	AGP	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Prep	PrecSep-21			1000.30 mL	1.0 g	446085	10/14/19 15:32	ORM	TAL SL
Total/NA	Analysis	9315		1			449238	11/06/19 09:31	AJD	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.30 mL	1.0 g	446088	10/14/19 16:21	ORM	TAL SL
Total/NA	Analysis	9320		1			448159	10/29/19 17:41	AJD	TAL SL
Instrument ID: GFPCPROTEAN										
Total/NA	Analysis	Ra226_Ra228		1			449547	11/08/19 07:24	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: ARGWA-14

Lab Sample ID: 180-97054-2

Date Collected: 10/07/19 16:25

Matrix: Water

Date Received: 10/10/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			296903	11/03/19 03:25	MJH	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	294901	10/15/19 12:22	MWW	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			295911	10/23/19 14:47	WTR	TAL PIT
Instrument ID: NEMO										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	294600	10/11/19 12:06	AGP	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Prep	PrecSep-21			1000.10 mL	1.0 g	446085	10/14/19 15:32	ORM	TAL SL
Total/NA	Analysis	9315		1			449238	11/06/19 09:31	AJD	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.10 mL	1.0 g	446088	10/14/19 16:21	ORM	TAL SL
Total/NA	Analysis	9320		1			448159	10/29/19 17:41	AJD	TAL SL
Instrument ID: GFPCPROTEAN										
Total/NA	Analysis	Ra226_Ra228		1			449547	11/08/19 07:24	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: ARGWA-5

Lab Sample ID: 180-97054-3

Date Collected: 10/08/19 09:40

Matrix: Water

Date Received: 10/10/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			296903	11/03/19 04:13	MJH	TAL PIT
Instrument ID: CHICS2100B										

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Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Arkwright

Job ID: 180-97054-1

Client Sample ID: ARGWA-5

Lab Sample ID: 180-97054-3

Date Collected: 10/08/19 09:40

Matrix: Water

Date Received: 10/10/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	294901	10/15/19 12:22	MWW	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			295911	10/23/19 14:54	WTR	TAL PIT
Instrument ID: NEMO										
Total Recoverable	Prep	3005A			50 mL	50 mL	294901	10/15/19 12:22	MWW	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			296162	10/24/19 15:49	WTR	TAL PIT
Instrument ID: NEMO										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	294600	10/11/19 12:06	AGP	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Prep	PrecSep-21			1000.13 mL	1.0 g	446085	10/14/19 15:32	ORM	TAL SL
Total/NA	Analysis	9315		1			449238	11/06/19 09:31	AJD	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.13 mL	1.0 g	446088	10/14/19 16:21	ORM	TAL SL
Total/NA	Analysis	9320		1			448159	10/29/19 17:41	AJD	TAL SL
Instrument ID: GFPCPROTEAN										
Total/NA	Analysis	Ra226_Ra228		1			449547	11/08/19 07:24	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: ARGWA-3

Lab Sample ID: 180-97054-4

Date Collected: 10/08/19 12:20

Matrix: Water

Date Received: 10/10/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			296903	11/03/19 04:29	MJH	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	294901	10/15/19 12:22	MWW	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			295911	10/23/19 14:57	WTR	TAL PIT
Instrument ID: NEMO										
Total Recoverable	Prep	3005A			50 mL	50 mL	294901	10/15/19 12:22	MWW	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			296162	10/24/19 15:51	WTR	TAL PIT
Instrument ID: NEMO										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	294600	10/11/19 12:06	AGP	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Prep	PrecSep-21			1000.62 mL	1.0 g	446085	10/14/19 15:32	ORM	TAL SL
Total/NA	Analysis	9315		1			449238	11/06/19 09:31	AJD	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.62 mL	1.0 g	446088	10/14/19 16:21	ORM	TAL SL
Total/NA	Analysis	9320		1			448159	10/29/19 17:41	AJD	TAL SL
Instrument ID: GFPCPROTEAN										
Total/NA	Analysis	Ra226_Ra228		1			449547	11/08/19 07:24	SMP	TAL SL
Instrument ID: NOEQUIP										

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Arkwright

Job ID: 180-97054-1

Client Sample ID: ARGWC-15

Lab Sample ID: 180-97054-5

Date Collected: 10/08/19 14:10

Matrix: Water

Date Received: 10/10/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		5			296903	11/03/19 04:45	MJH	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	294901	10/15/19 12:22	MWW	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			295911	10/23/19 14:59	WTR	TAL PIT
Instrument ID: NEMO										
Total Recoverable	Prep	3005A			50 mL	50 mL	294901	10/15/19 12:22	MWW	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			296162	10/24/19 15:53	WTR	TAL PIT
Instrument ID: NEMO										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	294600	10/11/19 12:06	AGP	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Prep	PrecSep-21			1000.46 mL	1.0 g	446085	10/14/19 15:32	ORM	TAL SL
Total/NA	Analysis	9315		1			449238	11/06/19 09:31	AJD	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.46 mL	1.0 g	446088	10/14/19 16:21	ORM	TAL SL
Total/NA	Analysis	9320		1			448159	10/29/19 17:41	AJD	TAL SL
Instrument ID: GFPCPROTEAN										
Total/NA	Analysis	Ra226_Ra228		1			449547	11/08/19 07:24	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: ARGWA-12

Lab Sample ID: 180-97054-6

Date Collected: 10/08/19 11:00

Matrix: Ground Water

Date Received: 10/10/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		5			296903	11/03/19 05:00	MJH	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	294901	10/15/19 12:22	MWW	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			295911	10/23/19 15:01	WTR	TAL PIT
Instrument ID: NEMO										
Total Recoverable	Prep	3005A			50 mL	50 mL	294901	10/15/19 12:22	MWW	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			296162	10/24/19 15:56	WTR	TAL PIT
Instrument ID: NEMO										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	294600	10/11/19 12:06	AGP	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Prep	PrecSep-21			1000.12 mL	1.0 g	446085	10/14/19 15:32	ORM	TAL SL
Total/NA	Analysis	9315		1			449238	11/06/19 09:32	AJD	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.12 mL	1.0 g	446088	10/14/19 16:21	ORM	TAL SL
Total/NA	Analysis	9320		1			448159	10/29/19 17:41	AJD	TAL SL
Instrument ID: GFPCPROTEAN										
Total/NA	Analysis	Ra226_Ra228		1			449547	11/08/19 07:24	SMP	TAL SL
Instrument ID: NOEQUIP										

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
 Project/Site: CCR - Plant Arkwright

Job ID: 180-97054-1

Client Sample ID: ARGWA-13

Lab Sample ID: 180-97054-7

Date Collected: 10/08/19 14:05

Matrix: Water

Date Received: 10/10/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			296903	11/03/19 05:16	MJH	TAL PIT
	Instrument ID: CHICS2100B									
Total/NA	Analysis	300.0		10			296903	11/03/19 05:32	MJH	TAL PIT
	Instrument ID: CHICS2100B									
Total Recoverable	Prep	3005A			50 mL	50 mL	294901	10/15/19 12:22	MWW	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			295911	10/23/19 15:03	WTR	TAL PIT
	Instrument ID: NEMO									
Total Recoverable	Prep	3005A			50 mL	50 mL	294901	10/15/19 12:22	MWW	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			296162	10/24/19 15:58	WTR	TAL PIT
	Instrument ID: NEMO									
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	294600	10/11/19 12:06	AGP	TAL PIT
	Instrument ID: NOEQUIP									
Total/NA	Prep	PrecSep-21			1000.27 mL	1.0 g	446085	10/14/19 15:32	ORM	TAL SL
Total/NA	Analysis	9315		1			449238	11/06/19 09:32	AJD	TAL SL
	Instrument ID: GFPCBLUE									
Total/NA	Prep	PrecSep_0			1000.27 mL	1.0 g	446088	10/14/19 16:21	ORM	TAL SL
Total/NA	Analysis	9320		1			448159	10/29/19 17:41	AJD	TAL SL
	Instrument ID: GFPCPROTEAN									
Total/NA	Analysis	Ra226_Ra228		1			449547	11/08/19 07:24	SMP	TAL SL
	Instrument ID: NOEQUIP									

Laboratory References:

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Analyst References:

Lab: TAL PIT

Batch Type: Prep

MWW = Margaret Wanyoike

Batch Type: Analysis

AGP = Angela Partridge

MJH = Matthew Hartman

WTR = Bill Reinheimer

Lab: TAL SL

Batch Type: Prep

ORM = Octavia Moore

Batch Type: Analysis

AJD = Audra DeMariano

SMP = Siobhan Perry

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Arkwright

Job ID: 180-97054-1

Client Sample ID: DUP-1

Lab Sample ID: 180-97054-1

Date Collected: 10/07/19 00:00

Matrix: Water

Date Received: 10/10/19 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.7		1.0	0.32	mg/L			11/03/19 03:10	1
Fluoride	0.060	J	0.20	0.026	mg/L			11/03/19 03:10	1
Sulfate	0.81	J	1.0	0.38	mg/L			11/03/19 03:10	1

Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.32		1.0	0.32	ug/L		10/15/19 12:22	10/23/19 14:45	1
Barium	19		10	1.6	ug/L		10/15/19 12:22	10/23/19 14:45	1
Beryllium	<0.18		1.0	0.18	ug/L		10/15/19 12:22	10/23/19 14:45	1
Cadmium	<0.13		1.0	0.13	ug/L		10/15/19 12:22	10/23/19 14:45	1
Cobalt	<0.075		0.50	0.075	ug/L		10/15/19 12:22	10/23/19 14:45	1
Chromium	3.0		2.0	1.5	ug/L		10/15/19 12:22	10/23/19 14:45	1
Molybdenum	<0.61		5.0	0.61	ug/L		10/15/19 12:22	10/23/19 14:45	1
Lead	0.30	J B	1.0	0.13	ug/L		10/15/19 12:22	10/23/19 14:45	1
Antimony	<0.38		2.0	0.38	ug/L		10/15/19 12:22	10/23/19 14:45	1
Selenium	<1.5		5.0	1.5	ug/L		10/15/19 12:22	10/23/19 14:45	1
Silver	0.29	J	1.0	0.18	ug/L		10/15/19 12:22	10/23/19 14:45	1
Thallium	<0.15		1.0	0.15	ug/L		10/15/19 12:22	10/23/19 14:45	1
Lithium	6.3	B	5.0	3.4	ug/L		10/15/19 12:22	10/23/19 14:45	1
Calcium	5.5		0.50	0.13	mg/L		10/15/19 12:22	10/23/19 14:45	1
Boron	<0.039		0.080	0.039	mg/L		10/15/19 12:22	10/23/19 14:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	70		10	10	mg/L			10/11/19 12:06	1

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.184		0.105	0.106	1.00	0.143	pCi/L	10/14/19 15:32	11/06/19 09:31	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.1		40 - 110					10/14/19 15:32	11/06/19 09:31	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.231	U	0.283	0.283	1.00	0.537	pCi/L	10/14/19 16:21	10/29/19 17:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.1		40 - 110					10/14/19 16:21	10/29/19 17:41	1
Y Carrier	81.1		40 - 110					10/14/19 16:21	10/29/19 17:41	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.0467	U	0.302	0.302	5.00	0.537	pCi/L		11/08/19 07:24	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Arkwright

Job ID: 180-97054-1

Client Sample ID: ARGWA-14

Lab Sample ID: 180-97054-2

Date Collected: 10/07/19 16:25

Matrix: Water

Date Received: 10/10/19 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.0		1.0	0.32	mg/L			11/03/19 03:25	1
Fluoride	0.12	J	0.20	0.026	mg/L			11/03/19 03:25	1
Sulfate	12		1.0	0.38	mg/L			11/03/19 03:25	1

Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.45	J B	1.0	0.32	ug/L		10/15/19 12:22	10/23/19 14:47	1
Barium	33		10	1.6	ug/L		10/15/19 12:22	10/23/19 14:47	1
Beryllium	<0.18		1.0	0.18	ug/L		10/15/19 12:22	10/23/19 14:47	1
Cadmium	<0.13		1.0	0.13	ug/L		10/15/19 12:22	10/23/19 14:47	1
Cobalt	<0.075		0.50	0.075	ug/L		10/15/19 12:22	10/23/19 14:47	1
Chromium	<1.5		2.0	1.5	ug/L		10/15/19 12:22	10/23/19 14:47	1
Molybdenum	0.67	J	5.0	0.61	ug/L		10/15/19 12:22	10/23/19 14:47	1
Lead	<0.13		1.0	0.13	ug/L		10/15/19 12:22	10/23/19 14:47	1
Antimony	<0.38		2.0	0.38	ug/L		10/15/19 12:22	10/23/19 14:47	1
Selenium	<1.5		5.0	1.5	ug/L		10/15/19 12:22	10/23/19 14:47	1
Silver	0.22	J	1.0	0.18	ug/L		10/15/19 12:22	10/23/19 14:47	1
Thallium	<0.15		1.0	0.15	ug/L		10/15/19 12:22	10/23/19 14:47	1
Lithium	7.0	B	5.0	3.4	ug/L		10/15/19 12:22	10/23/19 14:47	1
Calcium	36		0.50	0.13	mg/L		10/15/19 12:22	10/23/19 14:47	1
Boron	<0.039		0.080	0.039	mg/L		10/15/19 12:22	10/23/19 14:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	230		10	10	mg/L			10/11/19 12:06	1

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.101	U	0.0955	0.0959	1.00	0.150	pCi/L	10/14/19 15:32	11/06/19 09:31	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.2		40 - 110					10/14/19 15:32	11/06/19 09:31	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.346	U	0.331	0.332	1.00	0.536	pCi/L	10/14/19 16:21	10/29/19 17:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.2		40 - 110					10/14/19 16:21	10/29/19 17:41	1
Y Carrier	86.7		40 - 110					10/14/19 16:21	10/29/19 17:41	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.447	U	0.345	0.346	5.00	0.536	pCi/L		11/08/19 07:24	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Arkwright

Job ID: 180-97054-1

Client Sample ID: ARGWA-5

Lab Sample ID: 180-97054-3

Date Collected: 10/08/19 09:40

Matrix: Water

Date Received: 10/10/19 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.7		1.0	0.32	mg/L			11/03/19 04:13	1
Fluoride	0.050	J	0.20	0.026	mg/L			11/03/19 04:13	1
Sulfate	0.70	J	1.0	0.38	mg/L			11/03/19 04:13	1

Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.32		1.0	0.32	ug/L		10/15/19 12:22	10/23/19 14:54	1
Barium	30		10	1.6	ug/L		10/15/19 12:22	10/23/19 14:54	1
Beryllium	0.41	J	1.0	0.18	ug/L		10/15/19 12:22	10/24/19 15:49	1
Cadmium	<0.13		1.0	0.13	ug/L		10/15/19 12:22	10/23/19 14:54	1
Cobalt	<0.075		0.50	0.075	ug/L		10/15/19 12:22	10/23/19 14:54	1
Chromium	<1.5		2.0	1.5	ug/L		10/15/19 12:22	10/23/19 14:54	1
Molybdenum	<0.61		5.0	0.61	ug/L		10/15/19 12:22	10/23/19 14:54	1
Lead	0.16	J B	1.0	0.13	ug/L		10/15/19 12:22	10/23/19 14:54	1
Antimony	<0.38		2.0	0.38	ug/L		10/15/19 12:22	10/23/19 14:54	1
Selenium	<1.5		5.0	1.5	ug/L		10/15/19 12:22	10/23/19 14:54	1
Silver	0.30	J B	1.0	0.18	ug/L		10/15/19 12:22	10/24/19 15:49	1
Thallium	<0.15		1.0	0.15	ug/L		10/15/19 12:22	10/23/19 14:54	1
Lithium	5.5	B	5.0	3.4	ug/L		10/15/19 12:22	10/24/19 15:49	1
Calcium	5.9		0.50	0.13	mg/L		10/15/19 12:22	10/23/19 14:54	1
Boron	<0.039		0.080	0.039	mg/L		10/15/19 12:22	10/24/19 15:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	68		10	10	mg/L			10/11/19 12:06	1

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.151		0.0976	0.0986	1.00	0.136	pCi/L	10/14/19 15:32	11/06/19 09:31	1
<i>Carrier</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>					<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>Ba Carrier</i>	<i>84.7</i>		<i>40 - 110</i>					<i>10/14/19 15:32</i>	<i>11/06/19 09:31</i>	<i>1</i>

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.198	U	0.365	0.365	1.00	0.616	pCi/L	10/14/19 16:21	10/29/19 17:41	1
<i>Carrier</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>					<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>Ba Carrier</i>	<i>84.7</i>		<i>40 - 110</i>					<i>10/14/19 16:21</i>	<i>10/29/19 17:41</i>	<i>1</i>
<i>Y Carrier</i>	<i>83.0</i>		<i>40 - 110</i>					<i>10/14/19 16:21</i>	<i>10/29/19 17:41</i>	<i>1</i>

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.348	U	0.378	0.378	5.00	0.616	pCi/L		11/08/19 07:24	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Arkwright

Job ID: 180-97054-1

Client Sample ID: ARGWA-3

Lab Sample ID: 180-97054-4

Date Collected: 10/08/19 12:20

Matrix: Water

Date Received: 10/10/19 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.6		1.0	0.32	mg/L			11/03/19 04:29	1
Fluoride	0.056	J	0.20	0.026	mg/L			11/03/19 04:29	1
Sulfate	0.70	J	1.0	0.38	mg/L			11/03/19 04:29	1

Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.32		1.0	0.32	ug/L		10/15/19 12:22	10/23/19 14:57	1
Barium	20		10	1.6	ug/L		10/15/19 12:22	10/23/19 14:57	1
Beryllium	<0.18		1.0	0.18	ug/L		10/15/19 12:22	10/24/19 15:51	1
Cadmium	<0.13		1.0	0.13	ug/L		10/15/19 12:22	10/23/19 14:57	1
Cobalt	<0.075		0.50	0.075	ug/L		10/15/19 12:22	10/23/19 14:57	1
Chromium	3.1		2.0	1.5	ug/L		10/15/19 12:22	10/23/19 14:57	1
Molybdenum	<0.61		5.0	0.61	ug/L		10/15/19 12:22	10/23/19 14:57	1
Lead	1.0	B	1.0	0.13	ug/L		10/15/19 12:22	10/23/19 14:57	1
Antimony	<0.38		2.0	0.38	ug/L		10/15/19 12:22	10/23/19 14:57	1
Selenium	<1.5		5.0	1.5	ug/L		10/15/19 12:22	10/23/19 14:57	1
Silver	0.19	J B	1.0	0.18	ug/L		10/15/19 12:22	10/24/19 15:51	1
Thallium	<0.15		1.0	0.15	ug/L		10/15/19 12:22	10/23/19 14:57	1
Lithium	4.7	J B	5.0	3.4	ug/L		10/15/19 12:22	10/24/19 15:51	1
Calcium	6.0		0.50	0.13	mg/L		10/15/19 12:22	10/23/19 14:57	1
Boron	<0.039		0.080	0.039	mg/L		10/15/19 12:22	10/24/19 15:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	66		10	10	mg/L			10/11/19 12:06	1

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.166		0.0924	0.0936	1.00	0.119	pCi/L	10/14/19 15:32	11/06/19 09:31	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.2		40 - 110					10/14/19 15:32	11/06/19 09:31	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.253	U	0.285	0.286	1.00	0.468	pCi/L	10/14/19 16:21	10/29/19 17:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.2		40 - 110					10/14/19 16:21	10/29/19 17:41	1
Y Carrier	88.2		40 - 110					10/14/19 16:21	10/29/19 17:41	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.419	U	0.300	0.301	5.00	0.468	pCi/L		11/08/19 07:24	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Arkwright

Job ID: 180-97054-1

Client Sample ID: ARGWC-15

Lab Sample ID: 180-97054-5

Date Collected: 10/08/19 14:10

Matrix: Water

Date Received: 10/10/19 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.4		5.0	1.6	mg/L			11/03/19 04:45	5
Fluoride	0.33	J	1.0	0.13	mg/L			11/03/19 04:45	5
Sulfate	31		5.0	1.9	mg/L			11/03/19 04:45	5

Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.32		1.0	0.32	ug/L		10/15/19 12:22	10/23/19 14:59	1
Barium	31		10	1.6	ug/L		10/15/19 12:22	10/23/19 14:59	1
Beryllium	<0.18		1.0	0.18	ug/L		10/15/19 12:22	10/24/19 15:53	1
Cadmium	<0.13		1.0	0.13	ug/L		10/15/19 12:22	10/23/19 14:59	1
Cobalt	0.19	J	0.50	0.075	ug/L		10/15/19 12:22	10/23/19 14:59	1
Chromium	<1.5		2.0	1.5	ug/L		10/15/19 12:22	10/23/19 14:59	1
Molybdenum	1.1	J	5.0	0.61	ug/L		10/15/19 12:22	10/23/19 14:59	1
Lead	<0.13		1.0	0.13	ug/L		10/15/19 12:22	10/23/19 14:59	1
Antimony	<0.38		2.0	0.38	ug/L		10/15/19 12:22	10/23/19 14:59	1
Selenium	<1.5		5.0	1.5	ug/L		10/15/19 12:22	10/23/19 14:59	1
Silver	0.18	J B	1.0	0.18	ug/L		10/15/19 12:22	10/24/19 15:53	1
Thallium	<0.15		1.0	0.15	ug/L		10/15/19 12:22	10/23/19 14:59	1
Lithium	4.0	J B	5.0	3.4	ug/L		10/15/19 12:22	10/24/19 15:53	1
Calcium	24		0.50	0.13	mg/L		10/15/19 12:22	10/23/19 14:59	1
Boron	<0.039		0.080	0.039	mg/L		10/15/19 12:22	10/24/19 15:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	130		10	10	mg/L			10/11/19 12:06	1

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.286		0.127	0.130	1.00	0.153	pCi/L	10/14/19 15:32	11/06/19 09:31	1
<i>Carrier</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>					<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>Ba Carrier</i>	74.6		40 - 110					10/14/19 15:32	11/06/19 09:31	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.136	U	0.355	0.355	1.00	0.610	pCi/L	10/14/19 16:21	10/29/19 17:41	1
<i>Carrier</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>					<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>Ba Carrier</i>	74.6		40 - 110					10/14/19 16:21	10/29/19 17:41	1
<i>Y Carrier</i>	85.2		40 - 110					10/14/19 16:21	10/29/19 17:41	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.421	U	0.377	0.378	5.00	0.610	pCi/L		11/08/19 07:24	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Arkwright

Job ID: 180-97054-1

Client Sample ID: ARGWA-12

Lab Sample ID: 180-97054-6

Date Collected: 10/08/19 11:00

Matrix: Ground Water

Date Received: 10/10/19 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	64		5.0	1.6	mg/L			11/03/19 05:00	5
Fluoride	0.27	J	1.0	0.13	mg/L			11/03/19 05:00	5
Sulfate	55		5.0	1.9	mg/L			11/03/19 05:00	5

Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.32		1.0	0.32	ug/L		10/15/19 12:22	10/23/19 15:01	1
Barium	78		10	1.6	ug/L		10/15/19 12:22	10/23/19 15:01	1
Beryllium	<0.18		1.0	0.18	ug/L		10/15/19 12:22	10/24/19 15:56	1
Cadmium	<0.13		1.0	0.13	ug/L		10/15/19 12:22	10/23/19 15:01	1
Cobalt	<0.075		0.50	0.075	ug/L		10/15/19 12:22	10/23/19 15:01	1
Chromium	<1.5		2.0	1.5	ug/L		10/15/19 12:22	10/23/19 15:01	1
Molybdenum	<0.61		5.0	0.61	ug/L		10/15/19 12:22	10/23/19 15:01	1
Lead	<0.13		1.0	0.13	ug/L		10/15/19 12:22	10/23/19 15:01	1
Antimony	<0.38		2.0	0.38	ug/L		10/15/19 12:22	10/23/19 15:01	1
Selenium	<1.5		5.0	1.5	ug/L		10/15/19 12:22	10/23/19 15:01	1
Silver	<0.18		1.0	0.18	ug/L		10/15/19 12:22	10/24/19 15:56	1
Thallium	<0.15		1.0	0.15	ug/L		10/15/19 12:22	10/23/19 15:01	1
Lithium	7.8	B	5.0	3.4	ug/L		10/15/19 12:22	10/24/19 15:56	1
Calcium	13		0.50	0.13	mg/L		10/15/19 12:22	10/23/19 15:01	1
Boron	<0.039		0.080	0.039	mg/L		10/15/19 12:22	10/24/19 15:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	130		10	10	mg/L			10/11/19 12:06	1

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.202		0.0970	0.0987	1.00	0.111	pCi/L	10/14/19 15:32	11/06/19 09:32	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.7		40 - 110					10/14/19 15:32	11/06/19 09:32	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.558	U	0.372	0.376	1.00	0.581	pCi/L	10/14/19 16:21	10/29/19 17:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.7		40 - 110					10/14/19 16:21	10/29/19 17:41	1
Y Carrier	81.9		40 - 110					10/14/19 16:21	10/29/19 17:41	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.760		0.384	0.389	5.00	0.581	pCi/L		11/08/19 07:24	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Arkwright

Job ID: 180-97054-1

Client Sample ID: ARGWA-13

Lab Sample ID: 180-97054-7

Date Collected: 10/08/19 14:05

Matrix: Water

Date Received: 10/10/19 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.7		1.0	0.32	mg/L			11/03/19 05:16	1
Fluoride	0.033	J	0.20	0.026	mg/L			11/03/19 05:16	1
Sulfate	950		10	3.8	mg/L			11/03/19 05:32	10

Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.32		1.0	0.32	ug/L		10/15/19 12:22	10/23/19 15:03	1
Barium	42		10	1.6	ug/L		10/15/19 12:22	10/23/19 15:03	1
Beryllium	<0.18		1.0	0.18	ug/L		10/15/19 12:22	10/24/19 15:58	1
Cadmium	<0.13		1.0	0.13	ug/L		10/15/19 12:22	10/23/19 15:03	1
Cobalt	0.11	J	0.50	0.075	ug/L		10/15/19 12:22	10/23/19 15:03	1
Chromium	<1.5		2.0	1.5	ug/L		10/15/19 12:22	10/23/19 15:03	1
Molybdenum	<0.61		5.0	0.61	ug/L		10/15/19 12:22	10/23/19 15:03	1
Lead	0.13	J B	1.0	0.13	ug/L		10/15/19 12:22	10/23/19 15:03	1
Antimony	<0.38		2.0	0.38	ug/L		10/15/19 12:22	10/23/19 15:03	1
Selenium	30	B	5.0	1.5	ug/L		10/15/19 12:22	10/23/19 15:03	1
Silver	0.47	J B	1.0	0.18	ug/L		10/15/19 12:22	10/24/19 15:58	1
Thallium	<0.15		1.0	0.15	ug/L		10/15/19 12:22	10/23/19 15:03	1
Lithium	9.9	B	5.0	3.4	ug/L		10/15/19 12:22	10/24/19 15:58	1
Calcium	190		0.50	0.13	mg/L		10/15/19 12:22	10/23/19 15:03	1
Boron	0.68		0.080	0.039	mg/L		10/15/19 12:22	10/24/19 15:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1500		10	10	mg/L			10/11/19 12:06	1

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.215		0.108	0.110	1.00	0.140	pCi/L	10/14/19 15:32	11/06/19 09:32	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.6		40 - 110					10/14/19 15:32	11/06/19 09:32	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.183	U	0.325	0.326	1.00	0.549	pCi/L	10/14/19 16:21	10/29/19 17:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.6		40 - 110					10/14/19 16:21	10/29/19 17:41	1
Y Carrier	91.2		40 - 110					10/14/19 16:21	10/29/19 17:41	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.398	U	0.342	0.344	5.00	0.549	pCi/L		11/08/19 07:24	1

Eurofins TestAmerica, Pittsburgh

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Arkwright

Job ID: 180-97054-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 180-296903/81
Matrix: Water
Analysis Batch: 296903

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.32		1.0	0.32	mg/L			11/03/19 01:51	1
Fluoride	<0.026		0.20	0.026	mg/L			11/03/19 01:51	1
Sulfate	<0.38		1.0	0.38	mg/L			11/03/19 01:51	1

Lab Sample ID: LCS 180-296903/80
Matrix: Water
Analysis Batch: 296903

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.0	48.5		mg/L		97	90 - 110
Fluoride	2.50	2.43		mg/L		97	90 - 110
Sulfate	50.0	49.1		mg/L		98	90 - 110

Method: EPA 6020 - Metals (ICP/MS)

Lab Sample ID: MB 180-294901/1-A
Matrix: Water
Analysis Batch: 295911

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 294901

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.358	J	1.0	0.32	ug/L		10/15/19 12:22	10/23/19 14:27	1
Barium	<1.6		10	1.6	ug/L		10/15/19 12:22	10/23/19 14:27	1
Beryllium	<0.18		1.0	0.18	ug/L		10/15/19 12:22	10/23/19 14:27	1
Cadmium	0.268	J	1.0	0.13	ug/L		10/15/19 12:22	10/23/19 14:27	1
Cobalt	<0.075		0.50	0.075	ug/L		10/15/19 12:22	10/23/19 14:27	1
Chromium	<1.5		2.0	1.5	ug/L		10/15/19 12:22	10/23/19 14:27	1
Molybdenum	<0.61		5.0	0.61	ug/L		10/15/19 12:22	10/23/19 14:27	1
Lead	0.420	J	1.0	0.13	ug/L		10/15/19 12:22	10/23/19 14:27	1
Antimony	<0.38		2.0	0.38	ug/L		10/15/19 12:22	10/23/19 14:27	1
Selenium	1.51	J	5.0	1.5	ug/L		10/15/19 12:22	10/23/19 14:27	1
Thallium	0.281	J	1.0	0.15	ug/L		10/15/19 12:22	10/23/19 14:27	1
Calcium	<130		500	130	ug/L		10/15/19 12:22	10/23/19 14:27	1
Boron	<39		80	39	ug/L		10/15/19 12:22	10/23/19 14:27	1

Lab Sample ID: MB 180-294901/1-A
Matrix: Water
Analysis Batch: 296378

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 294901

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.18		1.0	0.18	ug/L		10/15/19 12:22	10/28/19 17:12	1
Lithium	<3.4		5.0	3.4	ug/L		10/15/19 12:22	10/28/19 17:12	1

Lab Sample ID: MB 180-294901/1-A
Matrix: Water
Analysis Batch: 297456

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 294901

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<3.4		5.0	3.4	ug/L		10/15/19 12:22	11/07/19 06:01	1

Eurofins TestAmerica, Pittsburgh

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Arkwright

Job ID: 180-97054-1

Method: EPA 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 180-294901/2-A
Matrix: Water
Analysis Batch: 295911

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 294901

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Arsenic	1000	926		ug/L		93	80 - 120
Barium	1000	984		ug/L		98	80 - 120
Beryllium	500	521		ug/L		104	80 - 120
Cadmium	500	499		ug/L		100	80 - 120
Cobalt	500	462		ug/L		92	80 - 120
Chromium	500	495		ug/L		99	80 - 120
Molybdenum	500	490		ug/L		98	80 - 120
Lead	500	461		ug/L		92	80 - 120
Antimony	250	257		ug/L		103	80 - 120
Selenium	1000	925		ug/L		92	80 - 120
Silver	250	215		ug/L		86	80 - 120
Thallium	1000	942		ug/L		94	80 - 120
Lithium	500	474		ug/L		95	80 - 120
Calcium	25000	25400		ug/L		102	80 - 120
Boron	1250	1130		ug/L		91	80 - 120

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 180-294600/2
Matrix: Water
Analysis Batch: 294600

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			10/11/19 12:06	1

Lab Sample ID: LCS 180-294600/1
Matrix: Water
Analysis Batch: 294600

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Total Dissolved Solids	633	628		mg/L		99	80 - 120

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-446085/21-A
Matrix: Water
Analysis Batch: 449238

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 446085

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.07641	U	0.0764	0.0767	1.00	0.121	pCi/L	10/14/19 15:32	11/06/19 12:16	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.3		40 - 110					10/14/19 15:32	11/06/19 12:16	1

Eurofins TestAmerica, Pittsburgh

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Arkwright

Job ID: 180-97054-1

Method: 9315 - Radium-226 (GFPC) (Continued)

Lab Sample ID: LCS 160-446085/1-A
Matrix: Water
Analysis Batch: 449238

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 446085

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	
Radium-226	11.4	10.05		1.09	1.00	0.155	pCi/L	89	75 - 125	
Carrier	LCS %Yield	LCS Qualifier	Limits							
Ba Carrier	74.9		40 - 110							

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-446088/21-A
Matrix: Water
Analysis Batch: 448150

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 446088

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.2521	U	0.242	0.243	1.00	0.390	pCi/L	10/14/19 16:21	10/29/19 17:44	1
Carrier	MB %Yield	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac		
Ba Carrier	98.3		40 - 110			10/14/19 16:21	10/29/19 17:44	1		
Y Carrier	86.0		40 - 110			10/14/19 16:21	10/29/19 17:44	1		

Lab Sample ID: LCS 160-446088/1-A
Matrix: Water
Analysis Batch: 448159

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 446088

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	
Radium-228	9.45	10.31		1.28	1.00	0.646	pCi/L	109	75 - 125	
Carrier	LCS %Yield	LCS Qualifier	Limits							
Ba Carrier	74.9		40 - 110							
Y Carrier	87.1		40 - 110							

QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Arkwright

Job ID: 180-97054-1

HPLC/IC

Analysis Batch: 296903

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-97054-1	DUP-1	Total/NA	Water	300.0	
180-97054-2	ARGWA-14	Total/NA	Water	300.0	
180-97054-3	ARGWA-5	Total/NA	Water	300.0	
180-97054-4	ARGWA-3	Total/NA	Water	300.0	
180-97054-5	ARGWC-15	Total/NA	Water	300.0	
180-97054-6	ARGWA-12	Total/NA	Ground Water	300.0	
180-97054-7	ARGWA-13	Total/NA	Water	300.0	
180-97054-7	ARGWA-13	Total/NA	Water	300.0	
MB 180-296903/81	Method Blank	Total/NA	Water	300.0	
LCS 180-296903/80	Lab Control Sample	Total/NA	Water	300.0	

Metals

Prep Batch: 294901

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-97054-1	DUP-1	Total Recoverable	Water	3005A	
180-97054-2	ARGWA-14	Total Recoverable	Water	3005A	
180-97054-3	ARGWA-5	Total Recoverable	Water	3005A	
180-97054-4	ARGWA-3	Total Recoverable	Water	3005A	
180-97054-5	ARGWC-15	Total Recoverable	Water	3005A	
180-97054-6	ARGWA-12	Total Recoverable	Ground Water	3005A	
180-97054-7	ARGWA-13	Total Recoverable	Water	3005A	
MB 180-294901/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-294901/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 295911

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-97054-1	DUP-1	Total Recoverable	Water	EPA 6020	294901
180-97054-2	ARGWA-14	Total Recoverable	Water	EPA 6020	294901
180-97054-3	ARGWA-5	Total Recoverable	Water	EPA 6020	294901
180-97054-4	ARGWA-3	Total Recoverable	Water	EPA 6020	294901
180-97054-5	ARGWC-15	Total Recoverable	Water	EPA 6020	294901
180-97054-6	ARGWA-12	Total Recoverable	Ground Water	EPA 6020	294901
180-97054-7	ARGWA-13	Total Recoverable	Water	EPA 6020	294901
MB 180-294901/1-A	Method Blank	Total Recoverable	Water	EPA 6020	294901
LCS 180-294901/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020	294901

Analysis Batch: 296162

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-97054-3	ARGWA-5	Total Recoverable	Water	EPA 6020	294901
180-97054-4	ARGWA-3	Total Recoverable	Water	EPA 6020	294901
180-97054-5	ARGWC-15	Total Recoverable	Water	EPA 6020	294901
180-97054-6	ARGWA-12	Total Recoverable	Ground Water	EPA 6020	294901
180-97054-7	ARGWA-13	Total Recoverable	Water	EPA 6020	294901

Analysis Batch: 296378

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 180-294901/1-A	Method Blank	Total Recoverable	Water	EPA 6020	294901

Eurofins TestAmerica, Pittsburgh

QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Arkwright

Job ID: 180-97054-1

Metals

Analysis Batch: 297456

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 180-294901/1-A	Method Blank	Total Recoverable	Water	EPA 6020	294901

General Chemistry

Analysis Batch: 294600

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-97054-1	DUP-1	Total/NA	Water	SM 2540C	
180-97054-2	ARGWA-14	Total/NA	Water	SM 2540C	
180-97054-3	ARGWA-5	Total/NA	Water	SM 2540C	
180-97054-4	ARGWA-3	Total/NA	Water	SM 2540C	
180-97054-5	ARGWC-15	Total/NA	Water	SM 2540C	
180-97054-6	ARGWA-12	Total/NA	Ground Water	SM 2540C	
180-97054-7	ARGWA-13	Total/NA	Water	SM 2540C	
MB 180-294600/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-294600/1	Lab Control Sample	Total/NA	Water	SM 2540C	

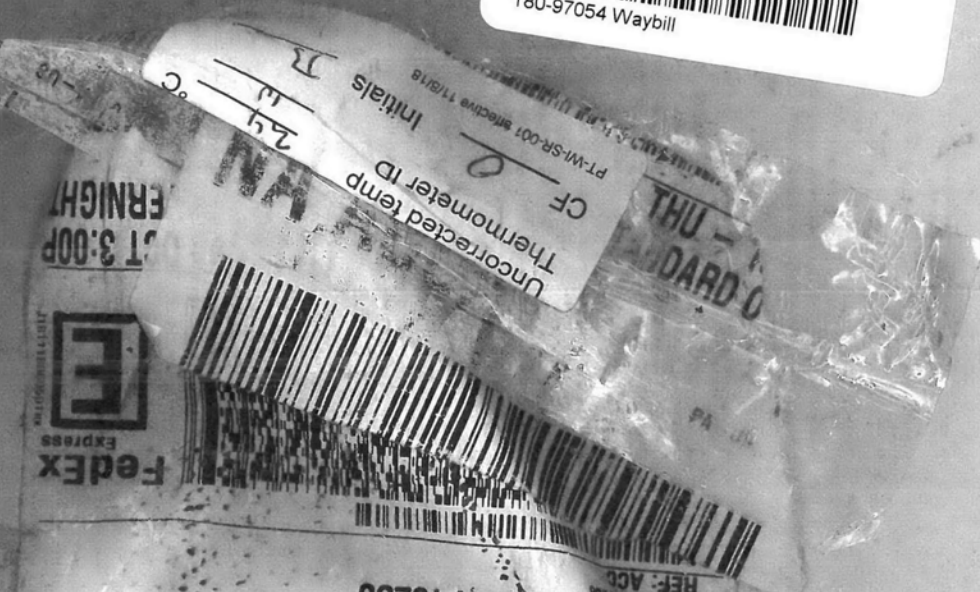
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Prep Batch: 446085

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-97054-1	DUP-1	Total/NA	Water	PrecSep-21	
180-97054-2	ARGWA-14	Total/NA	Water	PrecSep-21	
180-97054-3	ARGWA-5	Total/NA	Water	PrecSep-21	
180-97054-4	ARGWA-3	Total/NA	Water	PrecSep-21	
180-97054-5	ARGWC-15	Total/NA	Water	PrecSep-21	
180-97054-6	ARGWA-12	Total/NA	Ground Water	PrecSep-21	
180-97054-7	ARGWA-13	Total/NA	Water	PrecSep-21	
MB 160-446085/21-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-446085/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 446088

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-97054-1	DUP-1	Total/NA	Water	PrecSep_0	
180-97054-2	ARGWA-14	Total/NA	Water	PrecSep_0	
180-97054-3	ARGWA-5	Total/NA	Water	PrecSep_0	
180-97054-4	ARGWA-3	Total/NA	Water	PrecSep_0	
180-97054-5	ARGWC-15	Total/NA	Water	PrecSep_0	
180-97054-6	ARGWA-12	Total/NA	Ground Water	PrecSep_0	
180-97054-7	ARGWA-13	Total/NA	Water	PrecSep_0	
MB 160-446088/21-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-446088/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	



REF: ACP
 (412) 888-7888
 PITTSBURGH PA 15238
 RIDG PARK
 30 ALPHA DRIVE
 EUROFINS TESTAMERICA PITTSBURGH
 SAMPLE RECEIVING
 GEORGE TAYLOR
 EUROFINS TESTAMERICA
 5560 WOODBURN DRIVE
 ATLANTA
 (678) 986-5991

Environment Testing
 TestAmerica
 Part # 155840-034 RIT2 Exp 0920

1129386
 Environment Testing
 TestAmerica
 eurofins
 Custody Seal
 DATE: 11/29
 SIGNATURE: [Signature]

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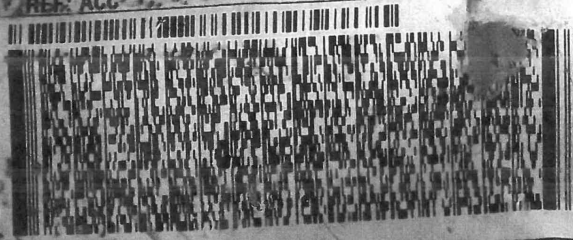
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366-9991
ATLANTA

SHIP ACTING
CADD 116/CAFE3211
B-REL IPIENT

TO SAMPLE RECEIVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DRIVE
RIDC PARK
PITTSBURGH PA 15238

(412) 983-7068
REF: ACC



FedEx
Express



THU - 10 OCT 3:00P
STANDARD OVERNIGHT

TRK# 4651 0084 1470
0201

MASTER ##

NA AGCA

15238
PA-US PIT



Uncalibrated temp
thermometer ID

CF 0

Initials D

PT-WI-SR-001 effective 11/3/18

BILL RECIPIENT

NOV 23, 2018 10:51 AM
PITTSBURGH, PA 15238

TO SAMPLE RECEIVING

EUROFIM TESTAMERICA PITTSBURGH

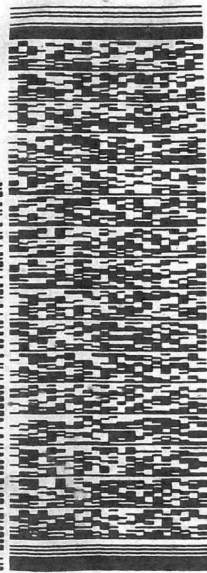
301 ALPHA DRIVE

RIDC PARK

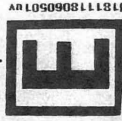
PITTSBURGH PA 15238

(412) 868-7058

REF: ACC



FedEx
Express



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2 of 3

MPS# 4651 0084 1481

0263

Metri# 4651 0084 1470

0201

NA AGCA

THU - 10 OCT 3:00P
STANDARD OVERNIGHT

15238

PA-US PIT



Uncorrected temp
Thermometer ID

CF

D

Initials

PT-WI-SR-001 effective 1/18/18

24.0 °C

10



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Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler: Lab PM	Carrier Tracking No(s):								
Client Contact: Bortot, Veronica		Phone: E-Mail: veronica.bortot@testamericainc.com	State of Origin: Georgia								
Shipping/Receiving: TestAmerica Laboratories, Inc.		Accreditations Required (See note):									
Address: 13715 Rider Trail North,		Due Date Requested: 10/22/2019									
City: Earth City		TAT Requested (days):									
State, Zip: MO, 63045		PO #:									
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		WO #:									
Email:		Project #: 18020201									
Site: Georgia Power Site Sampling Data (GW)		SSQW#:									
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=washoil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Form MS/MSD (Yes or No)	9315_Ra226/PreSep_21 Radium 226	9320_Ra228/PreSep_0 Radium 228	Ra226Ra228 GFPC	Total Number of Containers	Special Instructions/Note:
DUP-1 (180-97054-1)	10/7/19	Eastern		Water	X	X	X	X		1	
ARGWA-14 (180-97054-2)	10/7/19	16:25 Eastern		Water	X	X	X	X		1	
ARGWA-5 (180-97054-3)	10/8/19	09:40 Eastern		Water	X	X	X	X		1	
ARGWA-3 (180-97054-4)	10/8/19	12:20 Eastern		Water	X	X	X	X		1	
ARGWC-15 (180-97054-5)	10/8/19	14:10 Eastern		Water	X	X	X	X		1	
ARGWA-12 (180-97054-6)	10/8/19	11:00 Eastern		Water	X	X	X	X		1	
ARGWA-13 (180-97054-7)	10/8/19	14:05 Eastern		Water	X	X	X	X		1	
<p>Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.</p>											
<p>Possible Hazard Identification <input type="checkbox"/> Unconfirmed <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For Months</p>											
<p>Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2</p>											
<p>Empty Kit Relinquished by: _____ Date: _____ Time: _____ Method of Shipment: _____</p>											
<p>Relinquished by: _____ Date/Time: 10/10/19 12:00 Company: _____ Received by: _____ Date/Time: 10-19 09:10 Company: Test Company</p>											
<p>Relinquished by: _____ Date/Time: _____ Company: _____ Received by: _____ Date/Time: _____ Company: _____</p>											
<p>Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Cooler Temperature(s) °C and Other Remarks:</p>											



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-97054-1

Login Number: 97054

List Source: Eurofins TestAmerica, Pittsburgh

List Number: 1

Creator: Watson, Debbie

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-97054-1

Login Number: 97054
List Number: 2
Creator: Hellm, Michael

List Source: Eurofins TestAmerica, St. Louis
List Creation: 10/11/19 01:51 PM

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	18.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

Eurofins TestAmerica, Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

Laboratory Job ID: 180-97145-1

Laboratory Sample Delivery Group: Ash Pond 3
Client Project/Site: CCR - Plant Arkwright
Revision: 1

For:

Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Attn: Joju Abraham



Authorized for release by:
12/16/2019 11:06:34 PM

Veronica Bortot, Senior Project Manager
(412)963-2435
veronica.bortot@testamericainc.com

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www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

PA Lab ID: 02-00416



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Case Narrative

Client: Southern Company
Project/Site: CCR - Plant Arkwright

Job ID: 180-97145-1
SDG: Ash Pond 3

Job ID: 180-97145-1

Laboratory: Eurofins TestAmerica, Pittsburgh

Narrative

Job Narrative 180-97145-1

Revised: to delete duplicate analytes that were reported

Comments

No additional comments.

Receipt

The samples were received on 10/11/2019 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.1° C.

GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

RAD

Method 9315: Radium-226 Prep Batch 160-447420

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative.

Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

ARGWC-18 (180-97145-1), FB-1-10-9-19 (180-97145-2), ARGWC-16 (180-97145-3), ARGWC-7 (180-97145-4), ARGWC-8 (180-97145-5), ARGWC-9 (180-97145-6), ARGWC-10 (180-97145-7), EB-1-10-9-19 (180-97145-8), ARGWC-17 (180-97145-9), (LCS 160-447420/1-A), (MB 160-447420/20-A), (180-97385-A-2-A) and (180-97385-B-2-A DU)

Method 9320: Radium-228 Prep Batch 160-447441

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative.

Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

ARGWC-18 (180-97145-1), FB-1-10-9-19 (180-97145-2), ARGWC-16 (180-97145-3), ARGWC-7 (180-97145-4), ARGWC-8 (180-97145-5), ARGWC-9 (180-97145-6), ARGWC-10 (180-97145-7), EB-1-10-9-19 (180-97145-8), ARGWC-17 (180-97145-9), (LCS 160-447441/1-A), (MB 160-447441/20-A), (180-97385-A-2-B) and (180-97385-B-2-B DU)

Method 9320: Radium-228 Prep Batch: 160-447441

The detection goal was not met for the following sample due to insufficient sample available for analysis: ARGWC-17 (180-97145-9). See Prep NCM 160-181214. Analytical results are reported with the detection limit achieved.

Method PrecSep_0: Radium 228 Prep Batch 160-447441:

The following samples were prepared at a reduced aliquot due to discoloration and heavy sediment levels: ARGWC-17 (180-97145-9). This sample has a yellow discoloration and is cloudy due to sediment.

Method PrecSep-21: Radium 226 Prep Batch 160-447420:

The following samples were prepared at a reduced aliquot due to discoloration and heavy sediment levels: ARGWC-17 (180-97145-9). This sample has a yellow discoloration and is cloudy due to sediment.

Case Narrative

Client: Southern Company
Project/Site: CCR - Plant Arkwright

Job ID: 180-97145-1
SDG: Ash Pond 3

Job ID: 180-97145-1 (Continued)

Laboratory: Eurofins TestAmerica, Pittsburgh (Continued)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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Definitions/Glossary

Client: Southern Company
Project/Site: CCR - Plant Arkwright

Job ID: 180-97145-1
SDG: Ash Pond 3

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Rad

Qualifier	Qualifier Description
G	The Sample MDC is greater than the requested RL.
U	Result is less than the sample detection limit.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: Southern Company
 Project/Site: CCR - Plant Arkwright

Job ID: 180-97145-1
 SDG: Ash Pond 3

Laboratory: Eurofins TestAmerica, Pittsburgh

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	19-033-0	06-27-20
California	State	2891	04-30-20
Connecticut	State	PH-0688	09-30-20
Florida	NELAP	E871008	06-30-20
Georgia	State	PA 02-00416	04-30-20
Illinois	NELAP	004375	06-30-20
Kansas	NELAP	E-10350	03-31-20
Kentucky (UST)	State	162013	04-30-20
Kentucky (WW)	State	KY98043	12-31-19
Louisiana	NELAP	04041	06-30-20
Minnesota	NELAP	042-999-482	12-31-19
Nevada	State	PA00164	07-31-20
New Hampshire	NELAP	2030	04-04-20
New Jersey	NELAP	PA005	06-30-20
New York	NELAP	11182	04-01-20
North Carolina (WW/SW)	State	434	12-31-19
North Dakota	State	R-227	04-30-20
Oregon	NELAP	PA-2151	02-06-20
Pennsylvania	NELAP	02-00416	04-30-20
Rhode Island	State	LAO00362	12-30-19
South Carolina	State	89014	04-30-20
Texas	NELAP	T104704528	03-31-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	Federal	P-Soil-01	06-26-22
USDA	US Federal Programs	P330-16-00211	06-26-22
Utah	NELAP	PA001462019-8	05-31-20
Virginia	NELAP	10043	09-15-20
West Virginia DEP	State	142	01-31-20
Wisconsin	State	998027800	08-31-20

Accreditation/Certification Summary

Client: Southern Company
 Project/Site: CCR - Plant Arkwright

Job ID: 180-97145-1
 SDG: Ash Pond 3

Laboratory: Eurofins TestAmerica, St. Louis

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2305	04-06-22
ANAB	Dept. of Energy	L2305.01	04-06-22
ANAB	ISO/IEC 17025	L2305	04-06-22
Arizona	State	AZ0813	12-08-19
California	Los Angeles County Sanitation Districts	10259	06-30-20
California	State	2886	06-30-20
Connecticut	State	PH-0241	03-31-21
Florida	NELAP	E87689	06-30-20
HI - RadChem Recognition	State	n/a	06-30-20
Illinois	NELAP	004553	11-30-19
Iowa	State	373	09-17-20
Kansas	NELAP	E-10236	10-31-20
Kentucky (DW)	State	KY90125	12-31-19
Louisiana	NELAP	04080	06-30-20
Louisiana (DW)	State	LA011	12-31-19
Maryland	State	310	09-30-20
MI - RadChem Recognition	State	9005	06-30-20
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	07-31-20
New Jersey	NELAP	MO002	06-30-20
New York	NELAP	11616	04-01-20
North Dakota	State	R-207	06-30-20
NRC	NRC	24-24817-01	12-31-22
Oklahoma	State	9997	08-31-20
Pennsylvania	NELAP	68-00540	02-28-20
South Carolina	State	85002001	06-30-20
Texas	NELAP	T104704193-19-13	07-31-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	US Federal Programs	P330-17-00028	02-02-20
Utah	NELAP	MO000542019-11	07-31-20
Virginia	NELAP	10310	06-14-20
Washington	State	C592	08-30-20
West Virginia DEP	State	381	12-31-19

Sample Summary

Client: Southern Company
Project/Site: CCR - Plant Arkwright

Job ID: 180-97145-1
SDG: Ash Pond 3

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
180-97145-1	ARGWC-18	Water	10/09/19 10:05	10/11/19 09:00	
180-97145-2	FB-1-10-9-19	Water	10/09/19 09:30	10/11/19 09:00	
180-97145-3	ARGWC-16	Water	10/09/19 09:55	10/11/19 09:00	
180-97145-4	ARGWC-7	Water	10/09/19 11:15	10/11/19 09:00	
180-97145-5	ARGWC-8	Water	10/09/19 13:15	10/11/19 09:00	
180-97145-6	ARGWC-9	Water	10/09/19 12:50	10/11/19 09:00	
180-97145-7	ARGWC-10	Water	10/09/19 14:05	10/11/19 09:00	
180-97145-8	EB-1-10-9-19	Water	10/09/19 14:30	10/11/19 09:00	
180-97145-9	ARGWC-17	Water	10/09/19 15:40	10/11/19 09:00	

Method Summary

Client: Southern Company
Project/Site: CCR - Plant Arkwright

Job ID: 180-97145-1
SDG: Ash Pond 3

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	TAL PIT
EPA 6020	Metals (ICP/MS)	SW846	TAL PIT
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL PIT
9315	Radium-226 (GFPC)	SW846	TAL SL
9320	Radium-228 (GFPC)	SW846	TAL SL
Ra226_Ra228	Combined Radium-226 and Radium-228	TAL-STL	TAL SL
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PIT
PrecSep_0	Preparation, Precipitate Separation	None	TAL SL
PrecSep-21	Preparation, Precipitate Separation (21-Day In-Growth)	None	TAL SL

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

Laboratory References:

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Arkwright

Job ID: 180-97145-1
SDG: Ash Pond 3

Client Sample ID: ARGWC-18

Lab Sample ID: 180-97145-1

Date Collected: 10/09/19 10:05

Matrix: Water

Date Received: 10/11/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			296964	11/04/19 07:53	MJH	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	295402	10/18/19 14:02	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1	1.0 mL	1.0 mL	296270	10/25/19 18:29	WTR	TAL PIT
Instrument ID: M										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	294718	10/12/19 13:57	AGP	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Prep	PrecSep-21			999.87 mL	1.0 g	447420	10/23/19 09:13	EJQ	TAL SL
Total/NA	Analysis	9315		1			450354	11/14/19 13:09	CJQ	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			999.87 mL	1.0 g	447441	10/23/19 11:46	EJQ	TAL SL
Total/NA	Analysis	9320		1			449088	11/05/19 17:57	AJD	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			450875	11/18/19 08:43	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: FB-1-10-9-19

Lab Sample ID: 180-97145-2

Date Collected: 10/09/19 09:30

Matrix: Water

Date Received: 10/11/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			296964	11/04/19 07:21	MJH	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	295402	10/18/19 14:02	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1	1.0 mL	1.0 mL	296270	10/25/19 18:34	WTR	TAL PIT
Instrument ID: M										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	294718	10/12/19 13:57	AGP	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Prep	PrecSep-21			1000.22 mL	1.0 g	447420	10/23/19 09:13	EJQ	TAL SL
Total/NA	Analysis	9315		1			450354	11/14/19 13:09	CJQ	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.22 mL	1.0 g	447441	10/23/19 11:46	EJQ	TAL SL
Total/NA	Analysis	9320		1			449089	11/05/19 18:00	AJD	TAL SL
Instrument ID: GFPCPROTEAN										
Total/NA	Analysis	Ra226_Ra228		1			450875	11/18/19 08:43	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: ARGWC-16

Lab Sample ID: 180-97145-3

Date Collected: 10/09/19 09:55

Matrix: Water

Date Received: 10/11/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			296903	11/03/19 08:42	MJH	TAL PIT
Instrument ID: CHICS2100B										

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Arkwright

Job ID: 180-97145-1
SDG: Ash Pond 3

Client Sample ID: ARGWC-16

Lab Sample ID: 180-97145-3

Date Collected: 10/09/19 09:55

Matrix: Water

Date Received: 10/11/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		5			296964	11/04/19 06:18	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	295402	10/18/19 14:02	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1	1.0 mL	1.0 mL	296270	10/25/19 18:39	WTR	TAL PIT
		Instrument ID: M								
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	294718	10/12/19 13:57	AGP	TAL PIT
		Instrument ID: NOEQUIP								
Total/NA	Prep	PrecSep-21			1000.78 mL	1.0 g	447420	10/23/19 09:13	EJQ	TAL SL
Total/NA	Analysis	9315		1			450354	11/14/19 13:09	CJQ	TAL SL
		Instrument ID: GFPCBLUE								
Total/NA	Prep	PrecSep_0			1000.78 mL	1.0 g	447441	10/23/19 11:46	EJQ	TAL SL
Total/NA	Analysis	9320		1			449089	11/05/19 18:00	AJD	TAL SL
		Instrument ID: GFPCPROTEAN								
Total/NA	Analysis	Ra226_Ra228		1			450875	11/18/19 08:43	SMP	TAL SL
		Instrument ID: NOEQUIP								

Client Sample ID: ARGWC-7

Lab Sample ID: 180-97145-4

Date Collected: 10/09/19 11:15

Matrix: Water

Date Received: 10/11/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			296903	11/03/19 08:58	MJH	TAL PIT
		Instrument ID: CHICS2100B								
Total Recoverable	Prep	3005A			50 mL	50 mL	295402	10/18/19 14:02	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1	1.0 mL	1.0 mL	296270	10/25/19 18:44	WTR	TAL PIT
		Instrument ID: M								
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	294718	10/12/19 13:57	AGP	TAL PIT
		Instrument ID: NOEQUIP								
Total/NA	Prep	PrecSep-21			1000.14 mL	1.0 g	447420	10/23/19 09:13	EJQ	TAL SL
Total/NA	Analysis	9315		1			450354	11/14/19 13:09	CJQ	TAL SL
		Instrument ID: GFPCBLUE								
Total/NA	Prep	PrecSep_0			1000.14 mL	1.0 g	447441	10/23/19 11:46	EJQ	TAL SL
Total/NA	Analysis	9320		1			449089	11/05/19 18:00	AJD	TAL SL
		Instrument ID: GFPCPROTEAN								
Total/NA	Analysis	Ra226_Ra228		1			450875	11/18/19 08:43	SMP	TAL SL
		Instrument ID: NOEQUIP								

Client Sample ID: ARGWC-8

Lab Sample ID: 180-97145-5

Date Collected: 10/09/19 13:15

Matrix: Water

Date Received: 10/11/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			296903	11/03/19 09:13	MJH	TAL PIT
		Instrument ID: CHICS2100B								

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Arkwright

Job ID: 180-97145-1
SDG: Ash Pond 3

Client Sample ID: ARGWC-8

Lab Sample ID: 180-97145-5

Date Collected: 10/09/19 13:15

Matrix: Water

Date Received: 10/11/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	295402	10/18/19 14:02	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1	1.0 mL	1.0 mL	296270	10/25/19 18:49	WTR	TAL PIT
		Instrument ID: M								
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	294718	10/12/19 13:57	AGP	TAL PIT
		Instrument ID: NOEQUIP								
Total/NA	Prep	PrecSep-21			1000.52 mL	1.0 g	447420	10/23/19 09:13	EJQ	TAL SL
Total/NA	Analysis	9315		1			450354	11/14/19 13:09	CJQ	TAL SL
		Instrument ID: GFPCBLUE								
Total/NA	Prep	PrecSep_0			1000.52 mL	1.0 g	447441	10/23/19 11:46	EJQ	TAL SL
Total/NA	Analysis	9320		1			449089	11/05/19 18:00	AJD	TAL SL
		Instrument ID: GFPCPROTEAN								
Total/NA	Analysis	Ra226_Ra228		1			450875	11/18/19 08:43	SMP	TAL SL
		Instrument ID: NOEQUIP								

Client Sample ID: ARGWC-9

Lab Sample ID: 180-97145-6

Date Collected: 10/09/19 12:50

Matrix: Water

Date Received: 10/11/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			296903	11/03/19 09:29	MJH	TAL PIT
		Instrument ID: CHICS2100B								
Total Recoverable	Prep	3005A			50 mL	50 mL	295402	10/18/19 14:02	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1	1.0 mL	1.0 mL	296270	10/25/19 18:54	WTR	TAL PIT
		Instrument ID: M								
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	294718	10/12/19 13:57	AGP	TAL PIT
		Instrument ID: NOEQUIP								
Total/NA	Prep	PrecSep-21			1000.91 mL	1.0 g	447420	10/23/19 09:13	EJQ	TAL SL
Total/NA	Analysis	9315		1			450354	11/14/19 13:09	CJQ	TAL SL
		Instrument ID: GFPCBLUE								
Total/NA	Prep	PrecSep_0			1000.91 mL	1.0 g	447441	10/23/19 11:46	EJQ	TAL SL
Total/NA	Analysis	9320		1			449089	11/05/19 18:01	AJD	TAL SL
		Instrument ID: GFPCPROTEAN								
Total/NA	Analysis	Ra226_Ra228		1			450875	11/18/19 08:43	SMP	TAL SL
		Instrument ID: NOEQUIP								

Client Sample ID: ARGWC-10

Lab Sample ID: 180-97145-7

Date Collected: 10/09/19 14:05

Matrix: Water

Date Received: 10/11/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			296964	11/04/19 08:09	MJH	TAL PIT
		Instrument ID: CHICS2100B								
Total Recoverable	Prep	3005A			50 mL	50 mL	295402	10/18/19 14:02	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1	1.0 mL	1.0 mL	296270	10/25/19 18:59	WTR	TAL PIT
		Instrument ID: M								

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Arkwright

Job ID: 180-97145-1
SDG: Ash Pond 3

Client Sample ID: ARGWC-10

Lab Sample ID: 180-97145-7

Date Collected: 10/09/19 14:05

Matrix: Water

Date Received: 10/11/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	294718	10/12/19 13:57	AGP	TAL PIT
Total/NA	Prep	PrecSep-21			999.45 mL	1.0 g	447420	10/23/19 09:13	EJQ	TAL SL
Total/NA	Analysis	9315		1			450354	11/14/19 13:09	CJQ	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			999.45 mL	1.0 g	447441	10/23/19 11:46	EJQ	TAL SL
Total/NA	Analysis	9320		1			449089	11/05/19 18:01	AJD	TAL SL
Instrument ID: GFPCPROTEAN										
Total/NA	Analysis	Ra226_Ra228		1			450875	11/18/19 08:43	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: EB-1-10-9-19

Lab Sample ID: 180-97145-8

Date Collected: 10/09/19 14:30

Matrix: Water

Date Received: 10/11/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			296964	11/04/19 07:37	MJH	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	295402	10/18/19 14:02	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1	1.0 mL	1.0 mL	296270	10/25/19 19:14	WTR	TAL PIT
Instrument ID: M										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	294718	10/12/19 13:57	AGP	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Prep	PrecSep-21			1000.27 mL	1.0 g	447420	10/23/19 09:13	EJQ	TAL SL
Total/NA	Analysis	9315		1			450354	11/14/19 13:09	CJQ	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.27 mL	1.0 g	447441	10/23/19 11:46	EJQ	TAL SL
Total/NA	Analysis	9320		1			449089	11/05/19 18:01	AJD	TAL SL
Instrument ID: GFPCPROTEAN										
Total/NA	Analysis	Ra226_Ra228		1			450875	11/18/19 08:43	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: ARGWC-17

Lab Sample ID: 180-97145-9

Date Collected: 10/09/19 15:40

Matrix: Water

Date Received: 10/11/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			296903	11/03/19 09:45	MJH	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	295402	10/18/19 14:02	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1	1.0 mL	1.0 mL	296270	10/25/19 19:19	WTR	TAL PIT
Instrument ID: M										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	294718	10/12/19 13:57	AGP	TAL PIT
Instrument ID: NOEQUIP										

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
 Project/Site: CCR - Plant Arkwright

Job ID: 180-97145-1
 SDG: Ash Pond 3

Client Sample ID: ARGWC-17

Lab Sample ID: 180-97145-9

Date Collected: 10/09/19 15:40

Matrix: Water

Date Received: 10/11/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			750.08 mL	1.0 g	447420	10/23/19 09:13	EJQ	TAL SL
Total/NA	Analysis	9315		1			450354	11/14/19 13:09	CJQ	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			750.08 mL	1.0 g	447441	10/23/19 11:46	EJQ	TAL SL
Total/NA	Analysis	9320		1			449089	11/05/19 18:01	AJD	TAL SL
Instrument ID: GFPCPROTEAN										
Total/NA	Analysis	Ra226_Ra228		1			450875	11/18/19 08:43	SMP	TAL SL
Instrument ID: NOEQUIP										

Laboratory References:

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058
 TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Analyst References:

Lab: TAL PIT

Batch Type: Prep

KEM = Kimberly Mahoney

Batch Type: Analysis

AGP = Angela Partridge

MJH = Matthew Hartman

WTR = Bill Reinheimer

Lab: TAL SL

Batch Type: Prep

EJQ = Erin Quinn

Batch Type: Analysis

AJD = Audra DeMariano

CJQ = Caleb Quinn

SMP = Siobhan Perry

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Arkwright

Job ID: 180-97145-1
SDG: Ash Pond 3

Client Sample ID: ARGWC-18

Lab Sample ID: 180-97145-1

Date Collected: 10/09/19 10:05

Matrix: Water

Date Received: 10/11/19 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.7		1.0	0.32	mg/L			11/04/19 07:53	1
Fluoride	0.068	J B	0.20	0.026	mg/L			11/04/19 07:53	1
Sulfate	180		1.0	0.38	mg/L			11/04/19 07:53	1

Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0016		0.0010	0.00032	mg/L		10/18/19 14:02	10/25/19 18:29	1
Silver	<0.00018		0.0013	0.00018	mg/L		10/18/19 14:02	10/25/19 18:29	1
Barium	0.039		0.010	0.0016	mg/L		10/18/19 14:02	10/25/19 18:29	1
Beryllium	0.00034	J	0.0010	0.00018	mg/L		10/18/19 14:02	10/25/19 18:29	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		10/18/19 14:02	10/25/19 18:29	1
Cobalt	0.00099		0.00050	0.000075	mg/L		10/18/19 14:02	10/25/19 18:29	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/18/19 14:02	10/25/19 18:29	1
Molybdenum	<0.00061		0.0050	0.00061	mg/L		10/18/19 14:02	10/25/19 18:29	1
Lead	<0.00013		0.0010	0.00013	mg/L		10/18/19 14:02	10/25/19 18:29	1
Antimony	<0.00038		0.0020	0.00038	mg/L		10/18/19 14:02	10/25/19 18:29	1
Selenium	<0.0015		0.0050	0.0015	mg/L		10/18/19 14:02	10/25/19 18:29	1
Thallium	<0.00015		0.0010	0.00015	mg/L		10/18/19 14:02	10/25/19 18:29	1
Lithium	0.013		0.0050	0.0034	mg/L		10/18/19 14:02	10/25/19 18:29	1
Calcium	49		0.50	0.13	mg/L		10/18/19 14:02	10/25/19 18:29	1
Boron	2.1		0.080	0.039	mg/L		10/18/19 14:02	10/25/19 18:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	420		10	10	mg/L			10/12/19 13:57	1

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0781	U	0.103	0.103	1.00	0.172	pCi/L	10/23/19 09:13	11/14/19 13:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	71.5		40 - 110					10/23/19 09:13	11/14/19 13:09	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.00969	U	0.359	0.359	1.00	0.641	pCi/L	10/23/19 11:46	11/05/19 17:57	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	71.5		40 - 110					10/23/19 11:46	11/05/19 17:57	1
Y Carrier	78.9		40 - 110					10/23/19 11:46	11/05/19 17:57	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.0684	U	0.373	0.373	5.00	0.641	pCi/L		11/18/19 08:43	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Arkwright

Job ID: 180-97145-1
SDG: Ash Pond 3

Client Sample ID: FB-1-10-9-19

Lab Sample ID: 180-97145-2

Date Collected: 10/09/19 09:30

Matrix: Water

Date Received: 10/11/19 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.32		1.0	0.32	mg/L			11/04/19 07:21	1
Fluoride	0.031	J B	0.20	0.026	mg/L			11/04/19 07:21	1
Sulfate	<0.38		1.0	0.38	mg/L			11/04/19 07:21	1

Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0013		0.0010	0.00032	mg/L		10/18/19 14:02	10/25/19 18:34	1
Silver	<0.00018		0.0013	0.00018	mg/L		10/18/19 14:02	10/25/19 18:34	1
Barium	0.0024	J	0.010	0.0016	mg/L		10/18/19 14:02	10/25/19 18:34	1
Beryllium	0.00054	J	0.0010	0.00018	mg/L		10/18/19 14:02	10/25/19 18:34	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		10/18/19 14:02	10/25/19 18:34	1
Cobalt	0.00029	J	0.00050	0.000075	mg/L		10/18/19 14:02	10/25/19 18:34	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/18/19 14:02	10/25/19 18:34	1
Molybdenum	<0.00061		0.0050	0.00061	mg/L		10/18/19 14:02	10/25/19 18:34	1
Lead	<0.00013		0.0010	0.00013	mg/L		10/18/19 14:02	10/25/19 18:34	1
Antimony	<0.00038		0.0020	0.00038	mg/L		10/18/19 14:02	10/25/19 18:34	1
Selenium	<0.0015		0.0050	0.0015	mg/L		10/18/19 14:02	10/25/19 18:34	1
Thallium	<0.00015		0.0010	0.00015	mg/L		10/18/19 14:02	10/25/19 18:34	1
Lithium	0.0059		0.0050	0.0034	mg/L		10/18/19 14:02	10/25/19 18:34	1
Calcium	<0.13		0.50	0.13	mg/L		10/18/19 14:02	10/25/19 18:34	1
Boron	<0.039		0.080	0.039	mg/L		10/18/19 14:02	10/25/19 18:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			10/12/19 13:57	1

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.157	U	0.0435	0.0457	1.00	0.177	pCi/L	10/23/19 09:13	11/14/19 13:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	65.3		40 - 110					10/23/19 09:13	11/14/19 13:09	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.357	U	0.403	0.405	1.00	0.765	pCi/L	10/23/19 11:46	11/05/19 18:00	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	65.3		40 - 110					10/23/19 11:46	11/05/19 18:00	1
Y Carrier	81.9		40 - 110					10/23/19 11:46	11/05/19 18:00	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.515	U	0.405	0.408	5.00	0.765	pCi/L		11/18/19 08:43	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Arkwright

Job ID: 180-97145-1
SDG: Ash Pond 3

Client Sample ID: ARGWC-16

Lab Sample ID: 180-97145-3

Date Collected: 10/09/19 09:55

Matrix: Water

Date Received: 10/11/19 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.7		1.0	0.32	mg/L			11/03/19 08:42	1
Fluoride	0.031	J	0.20	0.026	mg/L			11/03/19 08:42	1
Sulfate	210		5.0	1.9	mg/L			11/04/19 06:18	5

Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0010		0.0010	0.00032	mg/L		10/18/19 14:02	10/25/19 18:39	1
Silver	<0.00018		0.0013	0.00018	mg/L		10/18/19 14:02	10/25/19 18:39	1
Barium	0.057		0.010	0.0016	mg/L		10/18/19 14:02	10/25/19 18:39	1
Beryllium	0.00027	J	0.0010	0.00018	mg/L		10/18/19 14:02	10/25/19 18:39	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		10/18/19 14:02	10/25/19 18:39	1
Cobalt	0.00026	J	0.00050	0.000075	mg/L		10/18/19 14:02	10/25/19 18:39	1
Chromium	0.0027		0.0020	0.0015	mg/L		10/18/19 14:02	10/25/19 18:39	1
Molybdenum	<0.00061		0.0050	0.00061	mg/L		10/18/19 14:02	10/25/19 18:39	1
Lead	<0.00013		0.0010	0.00013	mg/L		10/18/19 14:02	10/25/19 18:39	1
Antimony	<0.00038		0.0020	0.00038	mg/L		10/18/19 14:02	10/25/19 18:39	1
Selenium	0.0018	J	0.0050	0.0015	mg/L		10/18/19 14:02	10/25/19 18:39	1
Thallium	<0.00015		0.0010	0.00015	mg/L		10/18/19 14:02	10/25/19 18:39	1
Lithium	0.0076		0.0050	0.0034	mg/L		10/18/19 14:02	10/25/19 18:39	1
Calcium	39		0.50	0.13	mg/L		10/18/19 14:02	10/25/19 18:39	1
Boron	0.065	J	0.080	0.039	mg/L		10/18/19 14:02	10/25/19 18:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	350		10	10	mg/L			10/12/19 13:57	1

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0463	U	0.105	0.105	1.00	0.187	pCi/L	10/23/19 09:13	11/14/19 13:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	64.1		40 - 110					10/23/19 09:13	11/14/19 13:09	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0708	U	0.412	0.412	1.00	0.740	pCi/L	10/23/19 11:46	11/05/19 18:00	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	64.1		40 - 110					10/23/19 11:46	11/05/19 18:00	1
Y Carrier	82.2		40 - 110					10/23/19 11:46	11/05/19 18:00	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.0245	U	0.425	0.425	5.00	0.740	pCi/L		11/18/19 08:43	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Arkwright

Job ID: 180-97145-1
SDG: Ash Pond 3

Client Sample ID: ARGWC-7

Lab Sample ID: 180-97145-4

Date Collected: 10/09/19 11:15

Matrix: Water

Date Received: 10/11/19 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.6		1.0	0.32	mg/L			11/03/19 08:58	1
Fluoride	0.032	J	0.20	0.026	mg/L			11/03/19 08:58	1
Sulfate	42		1.0	0.38	mg/L			11/03/19 08:58	1

Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0015		0.0010	0.00032	mg/L		10/18/19 14:02	10/25/19 18:44	1
Silver	<0.00018		0.0013	0.00018	mg/L		10/18/19 14:02	10/25/19 18:44	1
Barium	0.046		0.010	0.0016	mg/L		10/18/19 14:02	10/25/19 18:44	1
Beryllium	0.00041	J	0.0010	0.00018	mg/L		10/18/19 14:02	10/25/19 18:44	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		10/18/19 14:02	10/25/19 18:44	1
Cobalt	0.00034	J	0.00050	0.000075	mg/L		10/18/19 14:02	10/25/19 18:44	1
Chromium	0.0042		0.0020	0.0015	mg/L		10/18/19 14:02	10/25/19 18:44	1
Molybdenum	<0.00061		0.0050	0.00061	mg/L		10/18/19 14:02	10/25/19 18:44	1
Lead	<0.00013		0.0010	0.00013	mg/L		10/18/19 14:02	10/25/19 18:44	1
Antimony	<0.00038		0.0020	0.00038	mg/L		10/18/19 14:02	10/25/19 18:44	1
Selenium	<0.0015		0.0050	0.0015	mg/L		10/18/19 14:02	10/25/19 18:44	1
Thallium	<0.00015		0.0010	0.00015	mg/L		10/18/19 14:02	10/25/19 18:44	1
Lithium	0.0083		0.0050	0.0034	mg/L		10/18/19 14:02	10/25/19 18:44	1
Calcium	11		0.50	0.13	mg/L		10/18/19 14:02	10/25/19 18:44	1
Boron	0.076	J	0.080	0.039	mg/L		10/18/19 14:02	10/25/19 18:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	130		10	10	mg/L			10/12/19 13:57	1

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0770	U	0.0678	0.0682	1.00	0.101	pCi/L	10/23/19 09:13	11/14/19 13:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.8		40 - 110					10/23/19 09:13	11/14/19 13:09	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.475	U	0.333	0.335	1.00	0.522	pCi/L	10/23/19 11:46	11/05/19 18:00	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.8		40 - 110					10/23/19 11:46	11/05/19 18:00	1
Y Carrier	83.0		40 - 110					10/23/19 11:46	11/05/19 18:00	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.552		0.340	0.342	5.00	0.522	pCi/L		11/18/19 08:43	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Arkwright

Job ID: 180-97145-1
SDG: Ash Pond 3

Client Sample ID: ARGWC-8

Lab Sample ID: 180-97145-5

Date Collected: 10/09/19 13:15

Matrix: Water

Date Received: 10/11/19 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.7		1.0	0.32	mg/L			11/03/19 09:13	1
Fluoride	0.085	J	0.20	0.026	mg/L			11/03/19 09:13	1
Sulfate	63		1.0	0.38	mg/L			11/03/19 09:13	1

Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0014		0.0010	0.00032	mg/L		10/18/19 14:02	10/25/19 18:49	1
Silver	<0.00018		0.0013	0.00018	mg/L		10/18/19 14:02	10/25/19 18:49	1
Barium	0.049		0.010	0.0016	mg/L		10/18/19 14:02	10/25/19 18:49	1
Beryllium	0.00047	J	0.0010	0.00018	mg/L		10/18/19 14:02	10/25/19 18:49	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		10/18/19 14:02	10/25/19 18:49	1
Cobalt	0.00041	J	0.00050	0.000075	mg/L		10/18/19 14:02	10/25/19 18:49	1
Chromium	0.0017	J	0.0020	0.0015	mg/L		10/18/19 14:02	10/25/19 18:49	1
Molybdenum	0.049		0.0050	0.00061	mg/L		10/18/19 14:02	10/25/19 18:49	1
Lead	0.00019	J	0.0010	0.00013	mg/L		10/18/19 14:02	10/25/19 18:49	1
Antimony	<0.00038		0.0020	0.00038	mg/L		10/18/19 14:02	10/25/19 18:49	1
Selenium	<0.0015		0.0050	0.0015	mg/L		10/18/19 14:02	10/25/19 18:49	1
Thallium	<0.00015		0.0010	0.00015	mg/L		10/18/19 14:02	10/25/19 18:49	1
Lithium	0.0077		0.0050	0.0034	mg/L		10/18/19 14:02	10/25/19 18:49	1
Calcium	53		0.50	0.13	mg/L		10/18/19 14:02	10/25/19 18:49	1
Boron	1.2		0.080	0.039	mg/L		10/18/19 14:02	10/25/19 18:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	290		10	10	mg/L			10/12/19 13:57	1

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0373	U	0.0563	0.0564	1.00	0.132	pCi/L	10/23/19 09:13	11/14/19 13:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.9		40 - 110					10/23/19 09:13	11/14/19 13:09	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.127	U	0.339	0.339	1.00	0.614	pCi/L	10/23/19 11:46	11/05/19 18:00	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.9		40 - 110					10/23/19 11:46	11/05/19 18:00	1
Y Carrier	81.9		40 - 110					10/23/19 11:46	11/05/19 18:00	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.164	U	0.344	0.344	5.00	0.614	pCi/L		11/18/19 08:43	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Arkwright

Job ID: 180-97145-1
SDG: Ash Pond 3

Client Sample ID: ARGWC-9

Lab Sample ID: 180-97145-6

Date Collected: 10/09/19 12:50

Matrix: Water

Date Received: 10/11/19 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.2		1.0	0.32	mg/L			11/03/19 09:29	1
Fluoride	0.038	J	0.20	0.026	mg/L			11/03/19 09:29	1
Sulfate	1.5		1.0	0.38	mg/L			11/03/19 09:29	1

Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0011		0.0010	0.00032	mg/L		10/18/19 14:02	10/25/19 18:54	1
Silver	<0.00018		0.0013	0.00018	mg/L		10/18/19 14:02	10/25/19 18:54	1
Barium	0.041		0.010	0.0016	mg/L		10/18/19 14:02	10/25/19 18:54	1
Beryllium	0.00037	J	0.0010	0.00018	mg/L		10/18/19 14:02	10/25/19 18:54	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		10/18/19 14:02	10/25/19 18:54	1
Cobalt	0.00021	J	0.00050	0.000075	mg/L		10/18/19 14:02	10/25/19 18:54	1
Chromium	0.0084		0.0020	0.0015	mg/L		10/18/19 14:02	10/25/19 18:54	1
Molybdenum	<0.00061		0.0050	0.00061	mg/L		10/18/19 14:02	10/25/19 18:54	1
Lead	0.00016	J	0.0010	0.00013	mg/L		10/18/19 14:02	10/25/19 18:54	1
Antimony	0.00048	J	0.0020	0.00038	mg/L		10/18/19 14:02	10/25/19 18:54	1
Selenium	<0.0015		0.0050	0.0015	mg/L		10/18/19 14:02	10/25/19 18:54	1
Thallium	<0.00015		0.0010	0.00015	mg/L		10/18/19 14:02	10/25/19 18:54	1
Lithium	0.0061		0.0050	0.0034	mg/L		10/18/19 14:02	10/25/19 18:54	1
Calcium	5.7		0.50	0.13	mg/L		10/18/19 14:02	10/25/19 18:54	1
Boron	<0.039		0.080	0.039	mg/L		10/18/19 14:02	10/25/19 18:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	75		10	10	mg/L			10/12/19 13:57	1

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0360	U	0.0618	0.0618	1.00	0.138	pCi/L	10/23/19 09:13	11/14/19 13:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.9		40 - 110					10/23/19 09:13	11/14/19 13:09	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.203	U	0.263	0.264	1.00	0.502	pCi/L	10/23/19 11:46	11/05/19 18:01	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.9		40 - 110					10/23/19 11:46	11/05/19 18:01	1
Y Carrier	84.9		40 - 110					10/23/19 11:46	11/05/19 18:01	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.238	U	0.270	0.271	5.00	0.502	pCi/L		11/18/19 08:43	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Arkwright

Job ID: 180-97145-1
SDG: Ash Pond 3

Client Sample ID: ARGWC-10

Lab Sample ID: 180-97145-7

Date Collected: 10/09/19 14:05

Matrix: Water

Date Received: 10/11/19 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.8		1.0	0.32	mg/L			11/04/19 08:09	1
Fluoride	0.053	J B	0.20	0.026	mg/L			11/04/19 08:09	1
Sulfate	0.59	J	1.0	0.38	mg/L			11/04/19 08:09	1

Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0019		0.0010	0.00032	mg/L		10/18/19 14:02	10/25/19 18:59	1
Silver	<0.00018		0.0013	0.00018	mg/L		10/18/19 14:02	10/25/19 18:59	1
Barium	0.031		0.010	0.0016	mg/L		10/18/19 14:02	10/25/19 18:59	1
Beryllium	<0.00018		0.0010	0.00018	mg/L		10/18/19 14:02	10/25/19 18:59	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		10/18/19 14:02	10/25/19 18:59	1
Cobalt	0.00019	J	0.00050	0.000075	mg/L		10/18/19 14:02	10/25/19 18:59	1
Chromium	0.0060		0.0020	0.0015	mg/L		10/18/19 14:02	10/25/19 18:59	1
Molybdenum	<0.00061		0.0050	0.00061	mg/L		10/18/19 14:02	10/25/19 18:59	1
Lead	<0.00013		0.0010	0.00013	mg/L		10/18/19 14:02	10/25/19 18:59	1
Antimony	<0.00038		0.0020	0.00038	mg/L		10/18/19 14:02	10/25/19 18:59	1
Selenium	<0.0015		0.0050	0.0015	mg/L		10/18/19 14:02	10/25/19 18:59	1
Thallium	<0.00015		0.0010	0.00015	mg/L		10/18/19 14:02	10/25/19 18:59	1
Lithium	0.0055		0.0050	0.0034	mg/L		10/18/19 14:02	10/25/19 18:59	1
Calcium	7.7		0.50	0.13	mg/L		10/18/19 14:02	10/25/19 18:59	1
Boron	<0.039		0.080	0.039	mg/L		10/18/19 14:02	10/25/19 18:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	92		10	10	mg/L			10/12/19 13:57	1

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0688	U	0.0693	0.0696	1.00	0.167	pCi/L	10/23/19 09:13	11/14/19 13:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.1		40 - 110					10/23/19 09:13	11/14/19 13:09	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.311	U	0.294	0.295	1.00	0.573	pCi/L	10/23/19 11:46	11/05/19 18:01	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.1		40 - 110					10/23/19 11:46	11/05/19 18:01	1
Y Carrier	83.4		40 - 110					10/23/19 11:46	11/05/19 18:01	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.380	U	0.302	0.303	5.00	0.573	pCi/L		11/18/19 08:43	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Arkwright

Job ID: 180-97145-1
SDG: Ash Pond 3

Client Sample ID: EB-1-10-9-19

Lab Sample ID: 180-97145-8

Date Collected: 10/09/19 14:30

Matrix: Water

Date Received: 10/11/19 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.32		1.0	0.32	mg/L			11/04/19 07:37	1
Fluoride	<0.026		0.20	0.026	mg/L			11/04/19 07:37	1
Sulfate	<0.38		1.0	0.38	mg/L			11/04/19 07:37	1

Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0011		0.0010	0.00032	mg/L		10/18/19 14:02	10/25/19 19:14	1
Silver	<0.00018		0.0013	0.00018	mg/L		10/18/19 14:02	10/25/19 19:14	1
Barium	<0.0016		0.010	0.0016	mg/L		10/18/19 14:02	10/25/19 19:14	1
Beryllium	0.00045 J		0.0010	0.00018	mg/L		10/18/19 14:02	10/25/19 19:14	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		10/18/19 14:02	10/25/19 19:14	1
Cobalt	0.00016 J		0.00050	0.000075	mg/L		10/18/19 14:02	10/25/19 19:14	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/18/19 14:02	10/25/19 19:14	1
Molybdenum	<0.00061		0.0050	0.00061	mg/L		10/18/19 14:02	10/25/19 19:14	1
Lead	<0.00013		0.0010	0.00013	mg/L		10/18/19 14:02	10/25/19 19:14	1
Antimony	0.00073 J		0.0020	0.00038	mg/L		10/18/19 14:02	10/25/19 19:14	1
Selenium	<0.0015		0.0050	0.0015	mg/L		10/18/19 14:02	10/25/19 19:14	1
Thallium	<0.00015		0.0010	0.00015	mg/L		10/18/19 14:02	10/25/19 19:14	1
Lithium	0.010		0.0050	0.0034	mg/L		10/18/19 14:02	10/25/19 19:14	1
Calcium	0.14 J		0.50	0.13	mg/L		10/18/19 14:02	10/25/19 19:14	1
Boron	<0.039		0.080	0.039	mg/L		10/18/19 14:02	10/25/19 19:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			10/12/19 13:57	1

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.107	U	0.0778	0.0784	1.00	0.202	pCi/L	10/23/19 09:13	11/14/19 13:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	62.1		40 - 110					10/23/19 09:13	11/14/19 13:09	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.247	U	0.435	0.436	1.00	0.735	pCi/L	10/23/19 11:46	11/05/19 18:01	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	62.1		40 - 110					10/23/19 11:46	11/05/19 18:01	1
Y Carrier	86.0		40 - 110					10/23/19 11:46	11/05/19 18:01	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.140	U	0.442	0.443	5.00	0.735	pCi/L		11/18/19 08:43	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Arkwright

Job ID: 180-97145-1
SDG: Ash Pond 3

Client Sample ID: ARGWC-17

Lab Sample ID: 180-97145-9

Date Collected: 10/09/19 15:40

Matrix: Water

Date Received: 10/11/19 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.3		1.0	0.32	mg/L			11/03/19 09:45	1
Fluoride	0.030	J	0.20	0.026	mg/L			11/03/19 09:45	1
Sulfate	57		1.0	0.38	mg/L			11/03/19 09:45	1

Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0015		0.0010	0.00032	mg/L		10/18/19 14:02	10/25/19 19:19	1
Silver	<0.00018		0.0013	0.00018	mg/L		10/18/19 14:02	10/25/19 19:19	1
Barium	0.049		0.010	0.0016	mg/L		10/18/19 14:02	10/25/19 19:19	1
Beryllium	0.00076	J	0.0010	0.00018	mg/L		10/18/19 14:02	10/25/19 19:19	1
Cadmium	0.00018	J	0.0010	0.00013	mg/L		10/18/19 14:02	10/25/19 19:19	1
Cobalt	0.017		0.00050	0.000075	mg/L		10/18/19 14:02	10/25/19 19:19	1
Chromium	0.0021		0.0020	0.0015	mg/L		10/18/19 14:02	10/25/19 19:19	1
Molybdenum	<0.00061		0.0050	0.00061	mg/L		10/18/19 14:02	10/25/19 19:19	1
Lead	<0.00013		0.0010	0.00013	mg/L		10/18/19 14:02	10/25/19 19:19	1
Antimony	<0.00038		0.0020	0.00038	mg/L		10/18/19 14:02	10/25/19 19:19	1
Selenium	<0.0015		0.0050	0.0015	mg/L		10/18/19 14:02	10/25/19 19:19	1
Thallium	<0.00015		0.0010	0.00015	mg/L		10/18/19 14:02	10/25/19 19:19	1
Lithium	0.0071		0.0050	0.0034	mg/L		10/18/19 14:02	10/25/19 19:19	1
Calcium	10		0.50	0.13	mg/L		10/18/19 14:02	10/25/19 19:19	1
Boron	<0.039		0.080	0.039	mg/L		10/18/19 14:02	10/25/19 19:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	120		10	10	mg/L			10/12/19 13:57	1

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.132	U	0.149	0.149	1.00	0.242	pCi/L	10/23/19 09:13	11/14/19 13:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	66.7		40 - 110					10/23/19 09:13	11/14/19 13:09	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0144	U G	0.588	0.588	1.00	1.04	pCi/L	10/23/19 11:46	11/05/19 18:01	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	66.7		40 - 110					10/23/19 11:46	11/05/19 18:01	1
Y Carrier	80.0		40 - 110					10/23/19 11:46	11/05/19 18:01	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.118	U	0.607	0.607	5.00	1.04	pCi/L		11/18/19 08:43	1

Eurofins TestAmerica, Pittsburgh

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Arkwright

Job ID: 180-97145-1
SDG: Ash Pond 3

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 180-296903/81
Matrix: Water
Analysis Batch: 296903

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.32		1.0	0.32	mg/L			11/03/19 01:51	1
Fluoride	<0.026		0.20	0.026	mg/L			11/03/19 01:51	1
Sulfate	<0.38		1.0	0.38	mg/L			11/03/19 01:51	1

Lab Sample ID: LCS 180-296903/80
Matrix: Water
Analysis Batch: 296903

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	48.5		mg/L		97	90 - 110
Fluoride	2.50	2.43		mg/L		97	90 - 110
Sulfate	50.0	49.1		mg/L		98	90 - 110

Lab Sample ID: MB 180-296964/6
Matrix: Water
Analysis Batch: 296964

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.32		1.0	0.32	mg/L			11/04/19 04:06	1
Fluoride	0.0260	J	0.20	0.026	mg/L			11/04/19 04:06	1
Sulfate	<0.38		1.0	0.38	mg/L			11/04/19 04:06	1

Lab Sample ID: LCS 180-296964/5
Matrix: Water
Analysis Batch: 296964

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	49.0		mg/L		98	90 - 110
Fluoride	2.50	2.42		mg/L		97	90 - 110
Sulfate	50.0	49.4		mg/L		99	90 - 110

Lab Sample ID: 180-97145-7 MS
Matrix: Water
Analysis Batch: 296964

Client Sample ID: ARGWC-10
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	3.8		50.0	50.6		mg/L		94	80 - 120
Fluoride	0.053	J B	2.50	2.42		mg/L		95	80 - 120
Sulfate	0.59	J	50.0	48.1		mg/L		95	80 - 120

Lab Sample ID: 180-97145-7 MSD
Matrix: Water
Analysis Batch: 296964

Client Sample ID: ARGWC-10
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	3.8		50.0	50.7		mg/L		94	80 - 120	0	20
Fluoride	0.053	J B	2.50	2.44		mg/L		95	80 - 120	1	20
Sulfate	0.59	J	50.0	47.9		mg/L		95	80 - 120	0	20

Eurofins TestAmerica, Pittsburgh

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Arkwright

Job ID: 180-97145-1
SDG: Ash Pond 3

Method: EPA 6020 - Metals (ICP/MS)

Lab Sample ID: MB 180-295402/1-A
Matrix: Water
Analysis Batch: 296270

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 295402

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00018		0.0013	0.00018	mg/L		10/18/19 14:02	10/25/19 17:16	1
Arsenic	<0.00032		0.0013	0.00032	mg/L		10/18/19 14:02	10/25/19 17:16	1
Barium	<0.0016		0.0025	0.0016	mg/L		10/18/19 14:02	10/25/19 17:16	1
Beryllium	<0.00018		0.0010	0.00018	mg/L		10/18/19 14:02	10/25/19 17:16	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		10/18/19 14:02	10/25/19 17:16	1
Cobalt	<0.000075		0.00050	0.000075	mg/L		10/18/19 14:02	10/25/19 17:16	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/18/19 14:02	10/25/19 17:16	1
Molybdenum	<0.00061		0.0050	0.00061	mg/L		10/18/19 14:02	10/25/19 17:16	1
Lead	<0.00013		0.0013	0.00013	mg/L		10/18/19 14:02	10/25/19 17:16	1
Antimony	<0.00038		0.0020	0.00038	mg/L		10/18/19 14:02	10/25/19 17:16	1
Selenium	<0.0015		0.0015	0.0015	mg/L		10/18/19 14:02	10/25/19 17:16	1
Thallium	<0.00015		0.0010	0.00015	mg/L		10/18/19 14:02	10/25/19 17:16	1
Lithium	<0.0034		0.0050	0.0034	mg/L		10/18/19 14:02	10/25/19 17:16	1
Calcium	<0.13		0.50	0.13	mg/L		10/18/19 14:02	10/25/19 17:16	1
Boron	<0.039		0.080	0.039	mg/L		10/18/19 14:02	10/25/19 17:16	1

Lab Sample ID: LCS 180-295402/2-A
Matrix: Water
Analysis Batch: 296270

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 295402

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Silver	0.250	0.255		mg/L		102	80 - 120
Arsenic	1.00	0.961		mg/L		96	80 - 120
Barium	1.00	0.990		mg/L		99	80 - 120
Beryllium	0.500	0.505		mg/L		101	80 - 120
Cadmium	0.500	0.561		mg/L		112	80 - 120
Cobalt	0.500	0.481		mg/L		96	80 - 120
Chromium	0.500	0.489		mg/L		98	80 - 120
Molybdenum	0.500	0.539		mg/L		108	80 - 120
Lead	0.500	0.497		mg/L		99	80 - 120
Antimony	0.250	0.273		mg/L		109	80 - 120
Selenium	1.00	0.935		mg/L		93	80 - 120
Thallium	1.00	0.996		mg/L		100	80 - 120
Lithium	0.500	0.584		mg/L		117	80 - 120
Calcium	25.0	25.2		mg/L		101	80 - 120
Boron	1.25	1.05		mg/L		84	80 - 120

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 180-294718/2
Matrix: Water
Analysis Batch: 294718

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			10/12/19 13:57	1

Eurofins TestAmerica, Pittsburgh

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Arkwright

Job ID: 180-97145-1
SDG: Ash Pond 3

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: LCS 180-294718/1
Matrix: Water
Analysis Batch: 294718

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	633	632		mg/L		100	80 - 120

Lab Sample ID: 180-97145-1 DU
Matrix: Water
Analysis Batch: 294718

Client Sample ID: ARGWC-18
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	420		421		mg/L		0.5	10

Lab Sample ID: 180-97145-3 DU
Matrix: Water
Analysis Batch: 294718

Client Sample ID: ARGWC-16
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	350		359		mg/L		3	10

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-447420/20-A
Matrix: Water
Analysis Batch: 450354

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 447420

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.1264	U	0.0844	0.0851	1.00	0.226	pCi/L	10/23/19 09:13	11/14/19 16:49	1
Carrier	MB %Yield	MB Qualifier	Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	68.9		40 - 110		10/23/19 09:13	11/14/19 16:49	1			

Lab Sample ID: LCS 160-447420/1-A
Matrix: Water
Analysis Batch: 450354

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 447420

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-226	11.4	8.667		0.936	1.00	0.142	pCi/L	76	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits						
Ba Carrier	89.8		40 - 110						

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-447441/20-A
Matrix: Water
Analysis Batch: 449088

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 447441

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.5451		0.352	0.356	1.00	0.538	pCi/L	10/23/19 11:46	11/05/19 17:58	1

Eurofins TestAmerica, Pittsburgh

QC Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Arkwright

Job ID: 180-97145-1
 SDG: Ash Pond 3

Method: 9320 - Radium-228 (GFPC) (Continued)

Lab Sample ID: MB 160-447441/20-A
Matrix: Water
Analysis Batch: 449088

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 447441

Carrier	MB MB		Limits
	%Yield	Qualifier	
Ba Carrier	68.9		40 - 110
Y Carrier	81.1		40 - 110

Prepared	Analyzed	Dil Fac
10/23/19 11:46	11/05/19 17:58	1
10/23/19 11:46	11/05/19 17:58	1

Lab Sample ID: LCS 160-447441/1-A
Matrix: Water
Analysis Batch: 449088

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 447441

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec.
									Limits
Radium-228	9.42	9.822		1.20	1.00	0.462	pCi/L	104	75 - 125

Carrier	LCS LCS		Limits
	%Yield	Qualifier	
Ba Carrier	89.8		40 - 110
Y Carrier	71.4		40 - 110

QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Arkwright

Job ID: 180-97145-1
SDG: Ash Pond 3

HPLC/IC

Analysis Batch: 296903

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-97145-3	ARGWC-16	Total/NA	Water	300.0	
180-97145-4	ARGWC-7	Total/NA	Water	300.0	
180-97145-5	ARGWC-8	Total/NA	Water	300.0	
180-97145-6	ARGWC-9	Total/NA	Water	300.0	
180-97145-9	ARGWC-17	Total/NA	Water	300.0	
MB 180-296903/81	Method Blank	Total/NA	Water	300.0	
LCS 180-296903/80	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 296964

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-97145-1	ARGWC-18	Total/NA	Water	300.0	
180-97145-2	FB-1-10-9-19	Total/NA	Water	300.0	
180-97145-3	ARGWC-16	Total/NA	Water	300.0	
180-97145-7	ARGWC-10	Total/NA	Water	300.0	
180-97145-8	EB-1-10-9-19	Total/NA	Water	300.0	
MB 180-296964/6	Method Blank	Total/NA	Water	300.0	
LCS 180-296964/5	Lab Control Sample	Total/NA	Water	300.0	
180-97145-7 MS	ARGWC-10	Total/NA	Water	300.0	
180-97145-7 MSD	ARGWC-10	Total/NA	Water	300.0	

Metals

Prep Batch: 295402

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-97145-1	ARGWC-18	Total Recoverable	Water	3005A	
180-97145-2	FB-1-10-9-19	Total Recoverable	Water	3005A	
180-97145-3	ARGWC-16	Total Recoverable	Water	3005A	
180-97145-4	ARGWC-7	Total Recoverable	Water	3005A	
180-97145-5	ARGWC-8	Total Recoverable	Water	3005A	
180-97145-6	ARGWC-9	Total Recoverable	Water	3005A	
180-97145-7	ARGWC-10	Total Recoverable	Water	3005A	
180-97145-8	EB-1-10-9-19	Total Recoverable	Water	3005A	
180-97145-9	ARGWC-17	Total Recoverable	Water	3005A	
MB 180-295402/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-295402/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 296270

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-97145-1	ARGWC-18	Total Recoverable	Water	EPA 6020	295402
180-97145-2	FB-1-10-9-19	Total Recoverable	Water	EPA 6020	295402
180-97145-3	ARGWC-16	Total Recoverable	Water	EPA 6020	295402
180-97145-4	ARGWC-7	Total Recoverable	Water	EPA 6020	295402
180-97145-5	ARGWC-8	Total Recoverable	Water	EPA 6020	295402
180-97145-6	ARGWC-9	Total Recoverable	Water	EPA 6020	295402
180-97145-7	ARGWC-10	Total Recoverable	Water	EPA 6020	295402
180-97145-8	EB-1-10-9-19	Total Recoverable	Water	EPA 6020	295402
180-97145-9	ARGWC-17	Total Recoverable	Water	EPA 6020	295402
MB 180-295402/1-A	Method Blank	Total Recoverable	Water	EPA 6020	295402
LCS 180-295402/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020	295402

Eurofins TestAmerica, Pittsburgh

QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Arkwright

Job ID: 180-97145-1
SDG: Ash Pond 3

General Chemistry

Analysis Batch: 294718

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-97145-1	ARGWC-18	Total/NA	Water	SM 2540C	
180-97145-2	FB-1-10-9-19	Total/NA	Water	SM 2540C	
180-97145-3	ARGWC-16	Total/NA	Water	SM 2540C	
180-97145-4	ARGWC-7	Total/NA	Water	SM 2540C	
180-97145-5	ARGWC-8	Total/NA	Water	SM 2540C	
180-97145-6	ARGWC-9	Total/NA	Water	SM 2540C	
180-97145-7	ARGWC-10	Total/NA	Water	SM 2540C	
180-97145-8	EB-1-10-9-19	Total/NA	Water	SM 2540C	
180-97145-9	ARGWC-17	Total/NA	Water	SM 2540C	
MB 180-294718/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-294718/1	Lab Control Sample	Total/NA	Water	SM 2540C	
180-97145-1 DU	ARGWC-18	Total/NA	Water	SM 2540C	
180-97145-3 DU	ARGWC-16	Total/NA	Water	SM 2540C	

Rad

Prep Batch: 447420

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-97145-1	ARGWC-18	Total/NA	Water	PrecSep-21	
180-97145-2	FB-1-10-9-19	Total/NA	Water	PrecSep-21	
180-97145-3	ARGWC-16	Total/NA	Water	PrecSep-21	
180-97145-4	ARGWC-7	Total/NA	Water	PrecSep-21	
180-97145-5	ARGWC-8	Total/NA	Water	PrecSep-21	
180-97145-6	ARGWC-9	Total/NA	Water	PrecSep-21	
180-97145-7	ARGWC-10	Total/NA	Water	PrecSep-21	
180-97145-8	EB-1-10-9-19	Total/NA	Water	PrecSep-21	
180-97145-9	ARGWC-17	Total/NA	Water	PrecSep-21	
MB 160-447420/20-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-447420/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 447441

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-97145-1	ARGWC-18	Total/NA	Water	PrecSep_0	
180-97145-2	FB-1-10-9-19	Total/NA	Water	PrecSep_0	
180-97145-3	ARGWC-16	Total/NA	Water	PrecSep_0	
180-97145-4	ARGWC-7	Total/NA	Water	PrecSep_0	
180-97145-5	ARGWC-8	Total/NA	Water	PrecSep_0	
180-97145-6	ARGWC-9	Total/NA	Water	PrecSep_0	
180-97145-7	ARGWC-10	Total/NA	Water	PrecSep_0	
180-97145-8	EB-1-10-9-19	Total/NA	Water	PrecSep_0	
180-97145-9	ARGWC-17	Total/NA	Water	PrecSep_0	
MB 160-447441/20-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-447441/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

- 1
- 2
- 3
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- 12
- 13

180-97145 Waybill



FedEx
 TRK# 1194 6303 5365
 0221

WED - 09 OCT 10:30A
PRIORITY OVERNIGHT AT
HT



PA-US 15238
 PIT 18

EXP 06/20

NA AGCA

Uncorrected temp
 Thermometer ID
 CF 0 Initials R

PT-WI-SR-001 effective 11/8/18

#938347 10/08 56713/243C/05A2

EXP 06/20

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-97145-1

SDG Number: Ash Pond 3

Login Number: 97145

List Source: Eurofins TestAmerica, Pittsburgh

List Number: 1

Creator: Watson, Debbie

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-97145-1

SDG Number: Ash Pond 3

Login Number: 97145

List Number: 2

Creator: Hellm, Michael

List Source: Eurofins TestAmerica, St. Louis

List Creation: 10/18/19 01:02 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	22.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

LEVEL 2A LABORATORY DATA VALIDATIONS

Plant Arkwright Ash Pond 3

2nd Semi-Annual Event

October 2019

Georgia Power Company – Plant Arkwright Ash Pond 3

Quality Control Review of Analytical Data – October 2019

This narrative presents results of the Quality Control (QC) data review performed on analytical data submitted by Eurofins TestAmerica, Pittsburgh and St. Louis for groundwater samples collected at Plant Arkwright Ash Pond 3 between October 7, 2019 and October 9, 2019. The chemical data were reviewed to identify quality issues which could affect the use of the data for decision-making purposes.

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

In accordance with groundwater monitoring and corrective action procedures discussed in Title 40 CFR, Subpart D – Standards for the Disposal of Coal Combustion Residuals in Landfills and Surface Impoundments, the samples were analyzed for detected monitoring constituents listed in 40 CFR, Part 257, Appendix III and assessment monitoring constituents listed in 40 CFR, Part 257, Appendix IV. Test methods included Inductively Coupled Plasma – Mass Spectrometry (USEPA Method 6020B), Mercury in Liquid Wastes (USEPA Method 7470A), Determination of Inorganic Anions (USEPA Method 300.0), Solids in Water (Standard Methods 2540C), Radium-226 (USEPA 9315), and Radium-228 (USEPA Method 9320).

Data were reviewed in accordance with the US EPA Region IV Data Validation Standard Operating Procedures for Contract Laboratory Program Inorganic Data by Inductively Coupled Plasma – Atomic Emission Spectroscopy and Inductively Coupled Plasma – Mass Spectroscopy (September 2011, Rev. 2.0)¹ and the National Functional Guidelines for Inorganic Superfund Methods Data Review (January 2017)². The review included an assessment of the results for completeness, precision (laboratory duplicate recoveries and matrix spike/matrix spike duplicate recoveries), accuracy (laboratory control samples and matrix spike samples), and blank contamination (field, equipment, and laboratory blanks). Sample receipt conditions, holding times, and chains of custody (COCs) were reviewed. Where there was a discrepancy between the QC criteria in the guidelines and the QC criterion established in the analytical methodology, method-specific criteria or professional judgment were used.

DATA QUALITY OBJECTIVES

Laboratory Precision: Laboratory goals for precision were met.

Field Precision: Field goals for precision were met, with the exceptions of Lead, Silver, and Lithium on ARGWA-3 (180-97054-4) and DUP-1 (180-97054-1) as described in the qualifications section below.

Accuracy: Laboratory goals for accuracy were met.

Detection Limits: Project goals for detection limits were met.

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

Holding Times: Holding time requirements were met.

QUALIFICATIONS

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

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

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

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

- Samples ARGWA-3 (180-97054-4) and DUP-1 (180-97054-1) were qualified as estimated (J) for Lead, Silver, and Lithium as the respective field relative percent differences (RPDs) exceeded QC criteria (107.7%, 41.7%, and 29.1%, respectively, above limit of 25).
- Certain metals analyte results in SDG 97054 were qualified as non-detect (U) due to the analyte being detected at a similar concentration in an associated blank sample. As shown in Table 2, when the original sample result was above the reporting limit (RL),

both the RL and method detection limit (MDL) were raised to the sample result as part of the qualification process. When the original sample result was between the RL and MDL, only the MDL was raised to the sample result as part of the qualification process.

- Fluoride results for ARGWC-18 (180-97145-1), ARGWC-16 (180-97145-3), and ARGWC-10 (180-97145-7) were qualified as non-detect (U) due to the analyte being detected at a similar concentration in an associated blank sample. As shown in Table 2, the MDL was raised to the sample result as part of the qualification process.
- Certain radium results in SDGs 97054 and 97145 were qualified as non-detect (U) due to the analyte being detected at a similar concentration in an associated blank sample. As shown in Table 2, the minimum detectable concentration (MDC) was raised to the sample result as part of the qualification process.

Atlantic Coast Consulting, Inc. reviewed the laboratory data from the Plant Arkwright Ash Pond 3 sampled between October 7, 2019 and October 9, 2019 in accordance with the analytical methods, the laboratory-specified QC criteria, and the guidelines. As described above, the results were acceptable for project use.

REFERENCES

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

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

TABLE 1

Georgia Power Company – Plant Arkwright Ash Pond 3

Sample Summary Table – October 2019

SDG	Field Identification	Collection Date	Lab Identification	Matrix	QC Samples	Analyses			
						Metals (6020B, 7470A)	Anions (300.0)	TDS (SM 2540C)	Radium-226/-228 (9315, 9320)
97054	DUP-1	10/7/2019	180-97054-1	GW	FD (ARGWA-3)	X	X	X	X
97054	ARGWA-14	10/7/2019	180-97054-2	GW		X	X	X	X
97054	ARGWA-5	10/8/2019	180-97054-3	GW		X	X	X	X
97054	ARGWA-3	10/8/2019	180-97054-4	GW		X	X	X	X
97054	ARGWC-15	10/8/2019	180-97054-5	GW		X	X	X	X
97054	ARGWA-12	10/8/2019	180-97054-6	GW		X	X	X	X
97054	ARGWA-13	10/8/2019	180-97054-7	GW		X	X	X	X
97145	ARGWC-18	10/9/2019	180-97145-1	GW		X	X	X	X
97145	FB-1-10-9-19	10/9/2019	180-97145-2	WQ	FB	X	X	X	X
97145	ARGWC-16	10/9/2019	180-97145-3	GW		X	X	X	X
97145	ARGWC-7	10/9/2019	180-97145-4	GW		X	X	X	X
97145	ARGWC-8	10/9/2019	180-97145-5	GW		X	X	X	X
97145	ARGWC-9	10/9/2019	180-97145-6	GW		X	X	X	X
97145	ARGWC-10	10/9/2019	180-97145-7	GW		X	X	X	X
97145	EB-1-10-9-19	10/9/2019	180-97057-8	WQ	EB	X	X	X	X
97145	ARGWC-17	10/9/2019	180-97145-9	GW		X	X	X	X

Abbreviations:

EB – Equipment Blank

FB – Field Blank

FD – Field Duplicate

GW – Groundwater

QC – Quality Control

TDS – Total Dissolved Solids

WQ – Water Quality Control

TABLE 2

Georgia Power Company – Plant Arkwright Ash Pond 3

Qualifier Summary Table – October 2019

SDG	Field Identification	Constituent	New RL	New MDL or MDC	Qualifier	Reason
97054	ARGWA-14	Arsenic		0.00045	U	Blank detection
97054	ARGWA-5	Lead		0.00016	U	Blank detection
97054	ARGWA-5	Radium-228		0.198	U	Blank detection
97054	ARGWA-3	Lead			J	RPD exceeds field goal
97054	ARGWA-3	Silver			J	RPD exceeds field goal
97054	ARGWA-3	Lithium			J	RPD exceeds field goal
97054	DUP-1	Lead			J	RPD exceeds field goal
97054	DUP-1	Silver			J	RPD exceeds field goal
97054	DUP-1	Lithium			J	RPD exceeds field goal
97054	ARGWC-15	Radium-228		0.136	U	Blank detection
97054	ARGWA-13	Lead		0.00013	U	Blank detection
97054	ARGWA-13	Selenium	0.03	0.003	U	Blank detection
97054	ARGWA-13	Radium-228		0.183	U	Blank detection
97145	ARGWC-18	Fluoride		0.068	U	Blank detection
97145	ARGWC-16	Fluoride		0.031	U	Blank detection
97145	ARGWC-7	Radium-228		0.475	U	Blank detection
97145	ARGWC-10	Fluoride		0.053	U	Blank detection

Abbreviations:

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

Qualifiers:

J – Estimated Result
ND – Non-Detect Result

Product Name: Low-Flow System

Date: 2019-10-08 12:22:52

Project Information:

Operator Name Jordan Berisford
Company Name Atlantic Coast Consulting
Project Name Plant Arkwright - Ash Pond 3
Site Name Plant Arkwright
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 588863
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type QED Bladder Pump
Tubing Type poly
Tubing Diameter 0.17 in
Tubing Length 42 ft

Pump placement from TOC 37 ft

Well Information:

Well ID ARGWA-3
Well diameter 2 in
Well Total Depth 42.29 ft
Screen Length 10 ft
Depth to Water 37.08 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.6724638 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 2.6 in
Total Volume Pumped 10 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 100	+/- 0.1	+/- 5%	+/- 100		+/- 10%	+/- 100
Last 5	12:00:05	1800.00	19.53	5.96	88.96	2.18	37.30	6.34	95.47
Last 5	12:05:05	2100.00	19.68	5.96	89.40	2.82	37.30	6.35	100.19
Last 5	12:10:05	2400.00	19.98	5.96	89.06	2.84	37.30	6.32	104.60
Last 5	12:15:05	2699.98	20.19	5.96	88.90	3.31	37.30	6.31	109.75
Last 5	12:20:05	2999.99	20.12	5.96	89.11	3.29	37.30	6.32	115.74
Variance 0			0.31	0.00	-0.34			-0.03	4.41
Variance 1			0.20	0.00	-0.16			-0.01	5.14
Variance 2			-0.07	-0.00	0.21			0.00	5.99

Notes

Sunny, 70s, sample Time-1220, DUP-1 here

Grab Samples

Product Name: Low-Flow System

Date: 2019-10-08 09:42:34

Project Information:

Operator Name Jordan Berisford
Company Name Atlantic Coast Consulting
Project Name Plant Arkwright - Ash Pond 3
Site Name Plant Arkwright
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 588863
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type QED Bladder Pump
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 33 ft

Pump placement from TOC 28 ft

Well Information:

Well ID ARGWA-5
Well diameter 2 in
Well Total Depth 33.11 ft
Screen Length 10 ft
Depth to Water 24.80 ft

Pumping Information:

Final Pumping Rate 275 mL/min
Total System Volume 0.632293 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 3.6 in
Total Volume Pumped 15.13 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 100	+/- 0.1	+/- 5%	+/- 100		+/- 10%	+/- 100
Last 5	09:20:16	2100.00	17.58	5.95	89.28	0.90	25.10	5.84	70.11
Last 5	09:25:16	2400.00	17.58	5.95	88.93	0.93	25.10	5.84	70.79
Last 5	09:30:16	2700.00	17.59	5.94	88.54	0.80	25.10	5.84	71.59
Last 5	09:35:16	2999.99	17.61	5.94	88.71	0.73	25.10	5.87	71.99
Last 5	09:40:16	3299.99	17.66	5.93	88.35	0.89	25.10	5.90	72.78
Variance 0			0.02	-0.01	-0.39			0.00	0.80
Variance 1			0.02	0.00	0.17			0.03	0.41
Variance 2			0.05	-0.00	-0.36			0.03	0.78

Notes

Sunny, 70, Sample time: 9:40

Grab Samples

Product Name: Low-Flow System

Date: 2019-10-08 11:03:35

Project Information:

Operator Name Anna Schnittker
Company Name Atlantic Coast Consulting
Project Name Plant Arkwright - Ash Pond 3
Site Name Plant Arkwright
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 647057
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type QED Bladder Pump
Tubing Type poly
Tubing Diameter .25 in
Tubing Length 32 ft

Pump placement from TOC 27 ft

Well Information:

Well ID ARGWA-12
Well diameter 2 in
Well Total Depth 32.35 ft
Screen Length 10 ft
Depth to Water 17.05 ft

Pumping Information:

Final Pumping Rate 210 mL/min
Total System Volume 0.7938874 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 8 in
Total Volume Pumped 6.3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 100	+/- 0.1	+/- 5%	+/- 100		+/- 10%	+/- 100
Last 5	10:40:29	600.02	20.06	5.95	199.65	2.22	17.72	2.79	109.81
Last 5	10:45:29	900.02	20.01	5.93	195.29	2.14	17.71	2.75	108.00
Last 5	10:50:29	1200.02	20.02	5.93	194.87	2.50	17.72	2.73	107.33
Last 5	10:55:31	1502.02	20.04	5.93	194.77	2.50	17.72	2.72	107.19
Last 5	11:00:32	1803.02	20.09	5.93	194.70	2.50	17.72	2.70	107.14
Variance 0			0.01	-0.00	-0.42			-0.02	-0.67
Variance 1			0.03	0.00	-0.10			-0.01	-0.14
Variance 2			0.04	0.00	-0.07			-0.02	-0.05

Notes

Sunny, 74. Sample time: 11:00

Grab Samples

Product Name: Low-Flow System

Date: 2019-10-08 14:09:02

Project Information:

Operator Name Anna Schnittker
Company Name Atlantic Coast Consulting
Project Name Plant Arkwright - Ash Pond 3
Site Name Plant Arkwright
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 647057
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type QED Bladder Pump
Tubing Type poly
Tubing Diameter .25 in
Tubing Length 43 ft

Pump placement from TOC 38 ft

Well Information:

Well ID ARGWA-13
Well diameter 2 in
Well Total Depth 43.25 ft
Screen Length 10 ft
Depth to Water 25.69 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.9000674 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 6 in
Total Volume Pumped 29 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 100	+/- 0.1	+/- 5%	+/- 100		+/- 10%	+/- 100
Last 5	13:45:17	7514.81	19.70	5.73	1680.51	0.36	26.19	0.90	123.20
Last 5	13:50:17	7814.81	19.59	5.73	1679.49	0.43	26.19	0.97	123.19
Last 5	13:55:17	8114.81	19.63	5.73	1694.73	0.33	26.19	0.73	123.37
Last 5	14:00:22	8419.81	19.53	5.73	1703.50	0.42	26.19	0.83	123.43
Last 5	14:05:22	8719.81	19.60	5.74	1696.75	0.27	26.19	0.89	123.12
Variance 0			0.04	-0.00	15.24			-0.24	0.18
Variance 1			-0.10	-0.00	8.77			0.10	0.06
Variance 2			0.07	0.01	-6.75			0.06	-0.30

Notes

Sunny, 84. Sample time: 14:05

Grab Samples

Product Name: Low-Flow System

Date: 2019-10-07 16:27:27

Project Information:

Operator Name Jordan Berisford
Company Name Atlantic Coast Consulting
Project Name Plant Arkwright - Ash Pond 3
Site Name Plant Arkwright
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 588863
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type QED Bladder Pump
Tubing Type poly
Tubing Diameter 0.25 in
Tubing Length 58 ft

Pump placement from TOC 53 ft

Well Information:

Well ID ARGWA-14
Well diameter 2 in
Well Total Depth 58.18 ft
Screen Length 10 ft
Depth to Water 44.21 ft

Pumping Information:

Final Pumping Rate 50 mL/min
Total System Volume 1.044858 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 31.1 in
Total Volume Pumped 2.75 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 100	+/- 0.1	+/- 5%	+/- 100		+/- 10%	+/- 100
Last 5	16:05:05	2102.00	26.73	6.72	411.28	0.85	46.30	4.08	38.99
Last 5	16:10:05	2402.00	26.58	6.72	400.08	1.02	46.50	4.78	40.11
Last 5	16:15:05	2701.99	25.63	6.71	401.97	0.46	46.60	5.26	44.00
Last 5	16:20:05	3001.99	25.73	6.70	409.28	0.69	46.70	5.44	46.54
Last 5	16:25:05	3301.99	26.16	6.69	411.95	0.63	46.70	5.46	48.50
Variance 0			-0.95	-0.01	1.89			0.48	3.89
Variance 1			0.10	-0.01	7.31			0.18	2.54
Variance 2			0.43	-0.00	2.67			0.03	1.96

Notes

Cloudy, 80s, sample Time-1625

Grab Samples

Product Name: Low-Flow System

Date: 2019-10-09 11:19:37

Project Information:

Operator Name Anna Schnittker
Company Name Atlantic Coast Consulting
Project Name Plant Arkwright - Ash Pond 3
Site Name Plant Arkwright
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 647057
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type QED Bladder Pump
Tubing Type poly
Tubing Diameter .25 in
Tubing Length 48 ft

Pump placement from TOC 43 ft

Well Information:

Well ID ARGWC-7
Well diameter 2 in
Well Total Depth 48.32 ft
Screen Length 10 ft
Depth to Water 26.85 ft

Pumping Information:

Final Pumping Rate 150 mL/min
Total System Volume 0.9483311 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 3 in
Total Volume Pumped 5.2 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 100	+/- 0.1	+/- 5%	+/- 100		+/- 10%	+/- 100
Last 5	10:56:17	900.02	19.75	5.78	172.03	4.11	27.09	3.79	121.53
Last 5	11:01:17	1200.02	19.66	5.78	171.90	2.87	27.09	3.70	121.25
Last 5	11:06:17	1500.02	19.63	5.76	171.93	2.26	27.09	3.49	121.73
Last 5	11:11:17	1800.02	19.64	5.76	172.00	2.03	27.09	3.42	121.52
Last 5	11:16:17	2100.02	19.66	5.76	171.93	1.58	27.09	3.40	121.71
Variance 0			-0.03	-0.02	0.03			-0.20	0.48
Variance 1			0.02	0.00	0.07			-0.07	-0.22
Variance 2			0.01	-0.00	-0.07			-0.02	0.20

Notes

Cloudy, 70. Sample time: 11:15

Grab Samples

Product Name: Low-Flow System

Date: 2019-10-09 13:16:43

Project Information:

Operator Name Jordan Berisford
Company Name Atlantic Coast Consulting
Project Name Plant Arkwright - Ash Pond 3
Site Name Plant Arkwright
Latitude 32° 55' 31.61"
Longitude -83° -42' -31.39"
Sonde SN 588863
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type QED Bladder Pump
Tubing Type poly
Tubing Diameter 0.25 in
Tubing Length 43 ft

Pump placement from TOC 38 ft

Well Information:

Well ID ARGWC-8
Well diameter 2 in
Well Total Depth 43.22 ft
Screen Length 10 ft
Depth to Water 26.64 ft

Pumping Information:

Final Pumping Rate 150 mL/min
Total System Volume 0.9000674 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 2 in
Total Volume Pumped 8.25 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 100	+/- 0.1	+/- 5%	+/- 100		+/- 10%	+/- 100
Last 5	12:55:04	2100.00	19.39	6.47	498.71	8.02	26.80	0.29	96.73
Last 5	13:00:04	2400.00	19.41	6.47	499.00	7.09	26.80	0.28	98.49
Last 5	13:05:04	2700.00	19.50	6.47	499.09	6.72	26.80	0.27	100.13
Last 5	13:10:04	3000.00	19.64	6.47	498.92	5.21	26.80	0.26	101.87
Last 5	13:15:05	3300.99	19.73	6.47	498.96	3.83	26.80	0.25	103.74
Variance 0			0.09	0.00	0.10			-0.01	1.63
Variance 1			0.14	-0.00	-0.18			-0.00	1.75
Variance 2			0.09	-0.00	0.04			-0.01	1.87

Notes

Cloudy, 60s, sample Time -1315

Grab Samples

Product Name: Low-Flow System

Date: 2019-10-09 12:53:47

Project Information:

Operator Name Anna Schnittker
Company Name Atlantic Coast Consulting
Project Name Plant Arkwright - Ash Pond 3
Site Name Plant Arkwright
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 647057
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type QED Bladder Pump
Tubing Type poly
Tubing Diameter .25 in
Tubing Length 38 ft

Pump placement from TOC 33 ft

Well Information:

Well ID ARGWC-9
Well diameter 2 in
Well Total Depth 38.07 ft
Screen Length 10 ft
Depth to Water 23.72 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.8518038 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 2 in
Total Volume Pumped 11 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 100	+/- 0.1	+/- 5%	+/- 100		+/- 10%	+/- 100
Last 5	12:25:12	1801.02	20.28	5.89	86.31	11.00	23.93	5.48	133.48
Last 5	12:30:12	2101.02	20.28	5.89	86.28	12.30	23.93	5.45	133.12
Last 5	12:35:12	2401.09	20.25	5.90	86.35	8.52	23.93	5.45	132.54
Last 5	12:45:12	3001.05	20.28	5.90	86.38	5.47	23.93	5.39	132.66
Last 5	12:50:12	3301.02	20.28	5.90	86.43	3.41	23.93	5.37	132.61
Variance 0			-0.03	0.01	0.07			0.00	-0.59
Variance 1			0.04	-0.00	0.03			-0.06	0.12
Variance 2			0.00	-0.00	0.05			-0.02	-0.05

Notes

Cloudy, 70. Sample time: 12:50

Grab Samples

Product Name: Low-Flow System

Date: 2019-10-09 14:07:37

Project Information:

Operator Name Anna Schnittker
Company Name Atlantic Coast Consulting
Project Name Plant Arkwright - Ash Pond 3
Site Name Plant Arkwright
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 647057
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type QED Bladder Pump
Tubing Type poly
Tubing Diameter .25 in
Tubing Length 38 ft

Pump placement from TOC 33 ft

Well Information:

Well ID ARGWC-10
Well diameter 2 in
Well Total Depth 38.35 ft
Screen Length 10 ft
Depth to Water 24.22 ft

Pumping Information:

Final Pumping Rate 220 mL/min
Total System Volume 0.8518038 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 7 in
Total Volume Pumped 7.7 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 100	+/- 0.1	+/- 5%	+/- 100		+/- 10%	+/- 100
Last 5	13:45:12	900.02	20.04	5.94	108.13	3.28	24.48	4.05	124.17
Last 5	13:50:12	1200.02	19.97	5.95	107.62	4.01	24.48	3.94	123.70
Last 5	13:55:12	1500.02	19.88	5.94	106.97	3.16	24.48	3.91	123.35
Last 5	14:00:12	1800.02	19.84	5.94	106.30	3.31	24.48	3.91	122.87
Last 5	14:05:13	2101.02	19.80	5.94	105.87	3.04	24.48	3.85	122.57
Variance 0			-0.09	-0.00	-0.64			-0.03	-0.36
Variance 1			-0.05	-0.00	-0.67			-0.01	-0.48
Variance 2			-0.03	-0.00	-0.44			-0.05	-0.29

Notes

Cloudy, 70. Sample time: 1405

Grab Samples

Product Name: Low-Flow System

Date: 2019-10-08 14:12:19

Project Information:

Operator Name Jordan Berisford
Company Name Atlantic Coast Consulting
Project Name Plant Arkwright - Ash Pond 3
Site Name Plant Arkwright
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 588863
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type QED Bladder Pump
Tubing Type poly
Tubing Diameter 0.25 in
Tubing Length 42 ft

Pump placement from TOC 37 ft

Well Information:

Well ID ARGWC-15
Well diameter 2 in
Well Total Depth 42.35 ft
Screen Length 10 ft
Depth to Water 30.41 ft

Pumping Information:

Final Pumping Rate 50 mL/min
Total System Volume 0.8904147 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 17.9 in
Total Volume Pumped 3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 100	+/- 0.1	+/- 5%	+/- 100		+/- 10%	+/- 100
Last 5	13:50:02	2400.00	24.99	6.40	234.28	1.77	31.60	1.97	138.67
Last 5	13:55:02	2699.99	25.85	6.39	236.36	1.91	31.70	1.88	139.27
Last 5	14:00:02	2999.99	26.67	6.38	236.80	1.11	31.80	1.71	139.47
Last 5	14:05:02	3299.99	27.22	6.38	236.44	1.72	31.80	1.68	139.73
Last 5	14:10:02	3599.99	27.33	6.38	235.25	1.60	31.90	1.64	140.08
Variance 0			0.83	-0.01	0.44			-0.16	0.20
Variance 1			0.54	-0.00	-0.36			-0.03	0.27
Variance 2			0.12	0.00	-1.18			-0.04	0.34

Notes

Cloudy, 70s, sample Time-1410

Grab Samples

Product Name: Low-Flow System

Date: 2019-10-09 09:58:41

Project Information:

Operator Name Anna Schnittker
Company Name Atlantic Coast Consulting
Project Name Plant Arkwright - Ash Pond 3
Site Name Plant Arkwright
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 647057
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type QED Bladder Pump
Tubing Type poly
Tubing Diameter .25 in
Tubing Length 35 ft

Pump placement from TOC 30 ft

Well Information:

Well ID ARGWC-16
Well diameter 2 in
Well Total Depth 34.52 ft
Screen Length 10 ft
Depth to Water 23.09 ft

Pumping Information:

Final Pumping Rate 220 mL/min
Total System Volume 0.8228456 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 1 in
Total Volume Pumped 8.8 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 100	+/- 0.1	+/- 5%	+/- 100		+/- 10%	+/- 100
Last 5	09:35:47	1200.02	20.11	5.21	515.26	0.60	23.18	1.35	134.22
Last 5	09:40:47	1500.02	20.09	5.23	514.86	0.68	23.18	1.35	134.15
Last 5	09:45:47	1800.49	20.06	5.23	515.33	0.33	23.18	1.33	134.92
Last 5	09:50:47	2100.49	20.11	5.22	512.11	0.40	23.18	1.26	136.58
Last 5	09:55:47	2400.49	20.11	5.22	510.21	0.30	23.18	1.20	136.10
Variance 0			-0.03	-0.00	0.47			-0.02	0.77
Variance 1			0.04	-0.00	-3.22			-0.07	1.66
Variance 2			0.00	-0.00	-1.91			-0.06	-0.48

Notes

Cloudy, 68. Sample time: 0955

Grab Samples

Product Name: Low-Flow System

Date: 2019-10-09 15:42:04

Project Information:

Operator Name Jordan Berisford
Company Name Atlantic Coast Consulting
Project Name Plant Arkwright - Ash Pond 3
Site Name Plant Arkwright
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 588863
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type QED Bladder Pump
Tubing Type poly
Tubing Diameter 0.25 in
Tubing Length 33 ft

Pump placement from TOC 27 ft

Well Information:

Well ID ARGWC-17
Well diameter 2 in
Well Total Depth 33.92 ft
Screen Length 10 ft
Depth to Water 23.30 ft

Pumping Information:

Final Pumping Rate 175 mL/min
Total System Volume 0.8035402 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 8.4 in
Total Volume Pumped 20.1 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 100	+/- 0.1	+/- 5%	+/- 100		+/- 10%	+/- 100
Last 5	15:20:50	5700.97	18.92	5.27	184.28	3.05	24.00	0.27	177.33
Last 5	15:25:50	6000.97	18.89	5.27	185.57	2.99	24.00	0.27	177.96
Last 5	15:30:50	6300.96	18.92	5.27	185.91	3.16	24.00	0.26	178.66
Last 5	15:35:50	6600.96	18.88	5.27	187.09	3.11	24.00	0.26	178.93
Last 5	15:40:50	6900.96	18.93	5.27	187.61	3.64	24.00	0.26	179.73
Variance 0			0.03	-0.00	0.33			-0.00	0.69
Variance 1			-0.04	0.01	1.18			0.00	0.27
Variance 2			0.05	-0.01	0.52			0.00	0.80

Notes

Sunny, sample Time -1540, 70s, EB-1-10-9-19 here at 1430

Grab Samples

Product Name: Low-Flow System

Date: 2019-10-09 10:07:13

Project Information:

Operator Name Jordan Berisford
Company Name Atlantic Coast Consulting
Project Name Plant Arkwright - Ash Pond 3
Site Name Plant Arkwright
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 588863
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type QED Bladder Pump
Tubing Type poly
Tubing Diameter 0.25 in
Tubing Length 50 ft

Pump placement from TOC 45 ft

Well Information:

Well ID ARGWC-18
Well diameter 2 in
Well Total Depth 50.65 ft
Screen Length 10 ft
Depth to Water 29.17 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.9676365 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 4 in
Total Volume Pumped 10 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 100	+/- 0.1	+/- 5%	+/- 100		+/- 10%	+/- 100
Last 5	09:45:59	1800.01	19.23	6.03	612.83	1.73	29.50	0.24	73.06
Last 5	09:50:59	2100.06	19.23	6.03	613.98	2.05	29.50	0.24	74.91
Last 5	09:55:59	2400.00	19.23	6.02	615.13	2.89	29.50	0.23	76.46
Last 5	10:00:59	2700.00	19.25	6.02	615.68	2.74	29.50	0.23	77.79
Last 5	10:05:59	2999.99	19.25	6.01	616.38	2.69	29.50	0.23	78.97
Variance 0			0.00	-0.00	1.15			-0.00	1.55
Variance 1			0.02	-0.00	0.55			-0.00	1.33
Variance 2			0.01	-0.01	0.70			0.00	1.18

Notes

Cloudy, 60s, sample Time-1005, FB-1-10-9-19 here at 0930

Grab Samples

Georgia Power Site Sampling Data (GW)

Site Name : Plant Arkwright

Date :

Well ID	Sample Date	Sample Time	Additional Comments
ASH POND #3			
ARGWA-3	10-8-19	1220	pH check: good
ARGWA-5	10-8-19	0940	
ARGWA-12	10-8-19	1100	
ARGWA-13	10-8-19	1405	
ARGWA-14	10-7-19	1625	
ARGWC-7	10-9-19	1115	
ARGWC-8	10-9-19	1315	pH check: good
ARGWC-9	10-9-19	1250	
ARGWC-10	10-9-19	1405	
ARGWC-15	10-8-19	1410	
ARGWC-16	10-9-19	0955	
ARGWC-17	10-9-19	1540	
ARGWC-18	10-9-19	1005	
EB-1-10-9-19	10-9-19	1430	Equipment type: Water level
Dup-1	10-8-10	1220	Parent Sample: ARGWA-3
FB-1-10-9-19	10-9-19	0930	Poured at: ARGWC-18
ASH POND #2			
ARGWA-19	10-7-19	1325	pH check: good
ARGWA-20	10-7-19	1440	
ARGWC-21	10-8-19	1530	
EB-2-10-8-19	10-8-19	1915	Equipment type: Gloves
Dup-2	10-7-19	1440	Parent Sample: ARGWA-20
FB-2-10-7-19	10-7-19	1320	Poured at: ARGWA-19
Additional comments :			
* Add date to EB and FB sample IDs.			

WELL CONDITION SUMMARY



Site: Plant Arkwright

Personnel: AS/SB

Date(s): 10/7/19

Page: 1 of 2

Well ID	Protective Casing	Well Casing	Label	Bollards	Lock	Well Pad	Weep Hole	Vent Hole	Notes
ARGWA-3	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
ARGWA-5	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
ARGWA-12	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
ARGWA-13	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
ARGWA-14	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<i>well pad loose</i>
ARGWC-7	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
ARGWC-8	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<i>one of the Bollards is loose well pad loose</i>
ARGWC-9	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
ARGWC-10	<input type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
ARGWC-15	<input type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

WELL CONDITION SUMMARY



Site: Plant Arkwright

Personell: AS/SB

Date(s): 10/7/19

Page: 2 of 2

Well ID	Protective Casing	Well Casing	Label	Bollards	Lock	Well Pad	Weep Hole	Vent Hole	Notes
ARGWC-16	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
ARGWC-17	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
ARGWC-18	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
ARGWA-19	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
ARGWA-20	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
ARGWC-21	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
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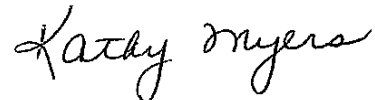
ANALYTICAL REPORT

Eurofins TestAmerica, Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

Laboratory Job ID: 180-101058-1
Client Project/Site: CCR - Plant Arkwright

For:
Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Attn: Joju Abraham



Authorized for release by:
1/20/2020 2:13:00 PM
Kathy Myers, Project Management Assistant I
(412)963-2447
kathy.myers@testamericainc.com

Designee for
Veronica Bortot, Senior Project Manager
(412)963-2435
veronica.bortot@testamericainc.com

LINKS

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results through
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www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

PA Lab ID: 02-00416



Table of Contents

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Case Narrative

Client: Southern Company
Project/Site: CCR - Plant Arkwright

Job ID: 180-101058-1

Job ID: 180-101058-1

Laboratory: Eurofins TestAmerica, Pittsburgh

Narrative

Job Narrative
180-101058-1

Comments

No additional comments.

Receipt

The samples were received on 1/16/2020 8:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.0° C.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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Definitions/Glossary

Client: Southern Company
Project/Site: CCR - Plant Arkwright

Job ID: 180-101058-1

Qualifiers

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: Southern Company
 Project/Site: CCR - Plant Arkwright

Job ID: 180-101058-1

Laboratory: Eurofins TestAmerica, Pittsburgh

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	19-033-0	06-27-20
California	State	2891	04-30-20
Connecticut	State	PH-0688	09-30-20
Florida	NELAP	E871008	06-30-20
Georgia	State	PA 02-00416	04-30-20
Illinois	NELAP	004375	06-30-20
Kansas	NELAP	E-10350	03-31-20
Kentucky (UST)	State	162013	04-30-20
Kentucky (WW)	State	KY98043	12-31-20
Louisiana	NELAP	04041	06-30-20
Minnesota	NELAP	042-999-482	12-31-20
Nevada	State	PA00164	07-31-20
New Hampshire	NELAP	2030	04-04-20
New Jersey	NELAP	PA005	06-30-20
New York	NELAP	11182	04-01-20
North Carolina (WW/SW)	State	434	01-01-21
North Dakota	State	R-227	04-30-20
Oregon	NELAP	PA-2151	02-06-20
Pennsylvania	NELAP	02-00416	04-30-20
Rhode Island	State	LAO00362	12-31-20
South Carolina	State	89014	04-30-20
Texas	NELAP	T104704528	03-31-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	Federal	P-Soil-01	06-26-22
USDA	US Federal Programs	P330-16-00211	06-26-22
Utah	NELAP	PA001462019-8	05-31-20
Virginia	NELAP	10043	09-15-20
West Virginia DEP	State	142	01-31-20
Wisconsin	State	998027800	08-31-20

Sample Summary

Client: Southern Company
Project/Site: CCR - Plant Arkwright

Job ID: 180-101058-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
180-101058-1	ARAMW-3	Water	01/15/20 11:13	01/16/20 08:30	
180-101058-2	ARAMW-6	Water	01/15/20 12:45	01/16/20 08:30	
180-101058-3	ARAMW-4	Water	01/15/20 10:20	01/16/20 08:30	

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Method Summary

Client: Southern Company
Project/Site: CCR - Plant Arkwright

Job ID: 180-101058-1

Method	Method Description	Protocol	Laboratory
EPA 6020B	Metals (ICP/MS)	SW846	TAL PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PIT

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058



Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Arkwright

Job ID: 180-101058-1

Client Sample ID: ARAMW-3

Date Collected: 01/15/20 11:13

Date Received: 01/16/20 08:30

Lab Sample ID: 180-101058-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	304164	01/16/20 11:43	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1	1.0 mL	1.0 mL	304363	01/18/20 01:16	WTR	TAL PIT
Instrument ID: M										

Client Sample ID: ARAMW-6

Date Collected: 01/15/20 12:45

Date Received: 01/16/20 08:30

Lab Sample ID: 180-101058-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	304164	01/16/20 11:43	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1	1.0 mL	1.0 mL	304363	01/18/20 01:21	WTR	TAL PIT
Instrument ID: M										

Client Sample ID: ARAMW-4

Date Collected: 01/15/20 10:20

Date Received: 01/16/20 08:30

Lab Sample ID: 180-101058-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	304164	01/16/20 11:43	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1	1.0 mL	1.0 mL	304363	01/18/20 01:36	WTR	TAL PIT
Instrument ID: M										

Laboratory References:

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Analyst References:

Lab: TAL PIT

Batch Type: Prep

RJR = Ron Rosenbaum

Batch Type: Analysis

WTR = Bill Reinheimer

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Arkwright

Job ID: 180-101058-1

Client Sample ID: ARAMW-3

Date Collected: 01/15/20 11:13

Date Received: 01/16/20 08:30

Lab Sample ID: 180-101058-1

Matrix: Water

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Molybdenum	0.0053		0.0050	0.00061	mg/L		01/16/20 11:43	01/18/20 01:16	1
Boron	1.0		0.080	0.039	mg/L		01/16/20 11:43	01/18/20 01:16	1

Client Sample ID: ARAMW-6

Date Collected: 01/15/20 12:45

Date Received: 01/16/20 08:30

Lab Sample ID: 180-101058-2

Matrix: Water

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Molybdenum	0.00065	J	0.0050	0.00061	mg/L		01/16/20 11:43	01/18/20 01:21	1
Boron	0.96		0.080	0.039	mg/L		01/16/20 11:43	01/18/20 01:21	1

Client Sample ID: ARAMW-4

Date Collected: 01/15/20 10:20

Date Received: 01/16/20 08:30

Lab Sample ID: 180-101058-3

Matrix: Water

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	0.0064		0.00050	0.00013	mg/L		01/16/20 11:43	01/18/20 01:36	1
Boron	0.32		0.080	0.039	mg/L		01/16/20 11:43	01/18/20 01:36	1

QC Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Arkwright

Job ID: 180-101058-1

Method: EPA 6020B - Metals (ICP/MS)

Lab Sample ID: MB 180-304164/1-A
Matrix: Water
Analysis Batch: 304363

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 304164

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.00013		0.00050	0.00013	mg/L		01/16/20 11:43	01/18/20 00:36	1
Molybdenum	<0.00061		0.0050	0.00061	mg/L		01/16/20 11:43	01/18/20 00:36	1
Boron	<0.039		0.080	0.039	mg/L		01/16/20 11:43	01/18/20 00:36	1

Lab Sample ID: LCS 180-304164/2-A
Matrix: Water
Analysis Batch: 304363

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 304164

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Cobalt	0.500	0.478		mg/L		96	80 - 120
Molybdenum	0.500	0.496		mg/L		99	80 - 120
Boron	1.25	1.11		mg/L		89	80 - 120

QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Arkwright

Job ID: 180-101058-1

Metals

Prep Batch: 304164

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-101058-1	ARAMW-3	Total Recoverable	Water	3005A	
180-101058-2	ARAMW-6	Total Recoverable	Water	3005A	
180-101058-3	ARAMW-4	Total Recoverable	Water	3005A	
MB 180-304164/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-304164/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 304363

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-101058-1	ARAMW-3	Total Recoverable	Water	EPA 6020B	304164
180-101058-2	ARAMW-6	Total Recoverable	Water	EPA 6020B	304164
180-101058-3	ARAMW-4	Total Recoverable	Water	EPA 6020B	304164
MB 180-304164/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	304164
LCS 180-304164/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	304164

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-101058-1

Login Number: 101058

List Source: Eurofins TestAmerica, Pittsburgh

List Number: 1

Creator: Say, Thomas C

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.		
The cooler's custody seal, if present, is intact.		
Sample custody seals, if present, are intact.		
The cooler or samples do not appear to have been compromised or tampered with.		
Samples were received on ice.		
Cooler Temperature is acceptable.		
Cooler Temperature is recorded.		
COC is present.		
COC is filled out in ink and legible.		
COC is filled out with all pertinent information.		
Is the Field Sampler's name present on COC?		
There are no discrepancies between the containers received and the COC.		
Samples are received within Holding Time (excluding tests with immediate HTs)		
Sample containers have legible labels.		
Containers are not broken or leaking.		
Sample collection date/times are provided.		
Appropriate sample containers are used.		
Sample bottles are completely filled.		
Sample Preservation Verified.		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs		
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").		
Multiphasic samples are not present.		
Samples do not require splitting or compositing.		
Residual Chlorine Checked.		

Product Name: Low-Flow System

Date: 2020-01-15 11:14:21

Project Information:

Operator Name Ryan Walker
Company Name Atlantic Coast Consulting
Project Name Plant Arkwright - Ash Pond 3
Site Name Plant Arkwright
Latitude 32° 55' 33.2"
Longitude -83° -42' -25.82"
Sonde SN 369557
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type Peristaltic pump
Tubing Type poly
Tubing Diameter 0.17 in
Tubing Length 68 ft

Pump placement from TOC 63 ft

Well Information:

Well ID ARAMW-3
Well diameter 2 in
Well Total Depth 68.90 ft
Screen Length 10 ft
Depth to Water 24.55 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.3935128 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 19 in
Total Volume Pumped 4.2 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 0.3	+/- 10
Last 5	10:53:45	600.01	19.54	6.77	436.98	2.17	25.90	0.44	-116.75
Last 5	10:58:45	900.01	19.54	6.77	437.40	5.88	26.00	0.31	-117.97
Last 5	11:03:45	1200.00	19.54	6.77	435.24	5.57	26.10	0.28	-118.85
Last 5	11:08:45	1500.00	19.58	6.77	435.54	2.21	26.10	0.28	-120.32
Last 5	11:13:45	1799.99	19.67	6.77	436.58	2.74	26.10	0.25	-121.51
Variance 0			-0.00	0.00	-2.16			-0.03	-0.88
Variance 1			0.04	0.00	0.31			-0.00	-1.47
Variance 2			0.09	-0.00	1.04			-0.03	-1.20

Notes

Sampled at 11:13. Cloudy, 60's.

Grab Samples

Product Name: Low-Flow System

Date: 2020-01-15 10:18:58

Project Information:

Operator Name Ryan Walker
Company Name Atlantic Coast Consulting
Project Name Plant Arkwright - Ash Pond 3
Site Name Plant Arkwright
Latitude 32° 55' 42.2"
Longitude -83° -42' -20.78"
Sonde SN 369557
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type Peristaltic pump
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 57 ft

Pump placement from TOC 52 ft

Well Information:

Well ID ARAMW-4
Well diameter 2 in
Well Total Depth 57.70 ft
Screen Length 10 ft
Depth to Water 21.07 ft

Pumping Information:

Final Pumping Rate 150 mL/min
Total System Volume 0.3444151 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 3 in
Total Volume Pumped 3.75 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 0.3	+/- 10
Last 5	09:58:09	300.04	18.76	6.21	1425.61	4.35	21.30	0.25	-68.07
Last 5	10:03:09	600.01	18.83	6.15	1415.40	4.00	21.30	0.26	-61.26
Last 5	10:08:09	900.01	18.87	6.17	1412.85	4.10	21.30	0.24	-65.63
Last 5	10:13:09	1200.00	18.91	6.10	1404.73	3.73	21.30	0.22	-58.14
Last 5	10:18:09	1499.99	18.95	6.09	1410.57	3.50	21.30	0.21	-57.82
Variance 0			0.04	0.02	-2.55			-0.02	-4.37
Variance 1			0.03	-0.07	-8.13			-0.02	7.49
Variance 2			0.05	-0.02	5.84			-0.01	0.33

Notes

Sampled at 10:20. Cloudy, 60's.

Grab Samples

Product Name: Low-Flow System

Date: 2020-01-15 12:46:15

Project Information:

Operator Name Ryan Walker
Company Name Atlantic Coast Consulting
Project Name Plant Arkwright - Ash Pond 3
Site Name Plant Arkwright
Latitude 32° 55' 32.27"
Longitude -83° -42' -25.34"
Sonde SN 369557
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type Peristaltic pump
Tubing Type poly
Tubing Diameter 0.17 in
Tubing Length 32 ft

Pump placement from TOC 27 ft

Well Information:

Well ID ARAMW-6
Well diameter 2 in
Well Total Depth 32.37 ft
Screen Length 10 ft
Depth to Water 12.73 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.2328295 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 8 in
Total Volume Pumped 10 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 0.3	+/- 10
Last 5	12:25:35	2999.98	20.67	6.38	368.19	8.69	13.30	0.61	-20.75
Last 5	12:30:35	3299.97	20.65	6.37	367.42	4.87	13.30	0.41	-19.83
Last 5	12:35:35	3600.01	20.61	6.36	367.74	4.81	13.40	0.33	-19.49
Last 5	12:40:35	3899.99	20.56	6.36	367.09	3.77	13.40	0.30	-20.14
Last 5	12:45:35	4199.96	20.48	6.36	367.56	2.38	13.40	0.30	-20.22
Variance 0			-0.04	-0.01	0.32			-0.07	0.34
Variance 1			-0.04	0.00	-0.64			-0.03	-0.65
Variance 2			-0.08	0.00	0.46			0.00	-0.08

Notes

Sampled at 12:45. Sunny, 70's.

Grab Samples

ANALYTICAL REPORT

Eurofins TestAmerica, Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

Laboratory Job ID: 180-102294-1
Client Project/Site: CCR - Plant Arkwright

For:
Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Attn: Joju Abraham



Authorized for release by:
2/17/2020 3:07:48 PM
Jill Colussy, Project Manager I
(412)963-2444
jill.colussy@testamericainc.com

Designee for
Veronica Bortot, Senior Project Manager
(412)963-2435
veronica.bortot@testamericainc.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

PA Lab ID: 02-00416



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Case Narrative

Client: Southern Company
Project/Site: CCR - Plant Arkwright

Job ID: 180-102294-1

Job ID: 180-102294-1

Laboratory: Eurofins TestAmerica, Pittsburgh

Narrative

Job Narrative
180-102294-1

Receipt

The sample was received on 2/13/2020 9:00 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.4° C.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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Definitions/Glossary

Client: Southern Company
Project/Site: CCR - Plant Arkwright

Job ID: 180-102294-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: Southern Company
 Project/Site: CCR - Plant Arkwright

Job ID: 180-102294-1

Laboratory: Eurofins TestAmerica, Pittsburgh

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	19-033-0	06-27-20
California	State	2891	04-30-20
Connecticut	State	PH-0688	09-30-20
Florida	NELAP	E871008	06-30-20
Georgia	State	PA 02-00416	04-30-20
Illinois	NELAP	004375	06-30-20
Kansas	NELAP	E-10350	03-31-20
Kentucky (UST)	State	162013	04-30-20
Kentucky (WW)	State	KY98043	12-31-20
Louisiana	NELAP	04041	06-30-20
Minnesota	NELAP	042-999-482	12-31-20
Nevada	State	PA00164	07-31-20
New Hampshire	NELAP	2030	04-04-20
New Jersey	NELAP	PA005	06-30-20
New York	NELAP	11182	04-01-20
North Carolina (WW/SW)	State	434	01-01-21
North Dakota	State	R-227	04-30-20
Oregon	NELAP	PA-2151	02-06-20 *
Pennsylvania	NELAP	02-00416	04-30-20
Rhode Island	State	LAO00362	12-31-20
South Carolina	State	89014	04-30-20
Texas	NELAP	T104704528	03-31-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	Federal	P-Soil-01	06-26-22
USDA	US Federal Programs	P330-16-00211	06-26-22
Utah	NELAP	PA001462019-8	05-31-20
Virginia	NELAP	10043	09-15-20
West Virginia DEP	State	142	02-01-21
Wisconsin	State	998027800	08-31-20

* Accreditation/Certification renewal pending - accreditation/certification considered valid.



Sample Summary

Client: Southern Company
Project/Site: CCR - Plant Arkwright

Job ID: 180-102294-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
180-102294-1	ARAMW-4	Water	02/11/20 17:10	02/13/20 09:00	

- 1
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Method Summary

Client: Southern Company
Project/Site: CCR - Plant Arkwright

Job ID: 180-102294-1

Method	Method Description	Protocol	Laboratory
EPA 6020B	Metals (ICP/MS)	SW846	TAL PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PIT

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058



Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Arkwright

Job ID: 180-102294-1

Client Sample ID: ARAMW-4

Lab Sample ID: 180-102294-1

Date Collected: 02/11/20 17:10

Matrix: Water

Date Received: 02/13/20 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	307077	02/14/20 10:06	JL	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1	1.0 mL	1.0 mL	307216	02/15/20 19:39	WTR	TAL PIT

Instrument ID: M

Laboratory References:

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Analyst References:

Lab: TAL PIT

Batch Type: Prep

JL = James Lyu

Batch Type: Analysis

WTR = Bill Reinheimer

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Arkwright

Job ID: 180-102294-1

Client Sample ID: ARAMW-4

Lab Sample ID: 180-102294-1

Date Collected: 02/11/20 17:10

Matrix: Water

Date Received: 02/13/20 09:00

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	0.0042		0.00050	0.00013	mg/L		02/14/20 10:06	02/15/20 19:39	1

- 1
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- 12
- 13

QC Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Arkwright

Job ID: 180-102294-1

Method: EPA 6020B - Metals (ICP/MS)

Lab Sample ID: MB 180-307077/1-A
Matrix: Water
Analysis Batch: 307216

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 307077

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.00013		0.00050	0.00013	mg/L		02/14/20 10:06	02/15/20 18:34	1

Lab Sample ID: LCS 180-307077/2-A
Matrix: Water
Analysis Batch: 307216

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 307077

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Cobalt	0.500	0.482		mg/L		96	80 - 120



QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Arkwright

Job ID: 180-102294-1

Metals

Prep Batch: 307077

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-102294-1	ARAMW-4	Total Recoverable	Water	3005A	
MB 180-307077/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-307077/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 307216

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-102294-1	ARAMW-4	Total Recoverable	Water	EPA 6020B	307077
MB 180-307077/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	307077
LCS 180-307077/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	307077

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-102294-1

Login Number: 102294

List Number: 1

Creator: Say, Thomas C

List Source: Eurofins TestAmerica, Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Product Name: Low-Flow System

Date: 2020-02-11 17:08:56

Project Information:

Operator Name C Parker
Company Name ACC
Project Name Plant Arkwright
Site Name Plant Arkwright
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 445707
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type Peri Pump
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 57 ft

Pump placement from TOC 52 ft

Well Information:

Well ID ARAMW-4
Well diameter 2 in
Well Total Depth 57.70 ft
Screen Length 10 ft
Depth to Water 20.78 ft

Pumping Information:

Final Pumping Rate 130 mL/min
Total System Volume 0.34444151 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 3 in
Total Volume Pumped 17 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 2	+/- 0.1	+/- 5%	+/- 0		+/- 10%	+/- 100
Last 5	16:47:31	6313.90	21.37	6.13	1560.16	5.99	20.90	0.12	-96.93
Last 5	16:52:31	6613.90	21.20	6.00	1559.29	5.76	20.90	0.15	-84.05
Last 5	16:57:34	6916.89	21.19	5.95	1557.48	5.19	20.90	0.13	-77.84
Last 5	17:02:38	7220.87	21.10	6.00	1564.07	5.32	20.90	0.15	-74.27
Last 5	17:07:39	7521.88	21.37	5.98	1551.89	4.88	20.90	0.14	-72.29
Variance 0			-0.01	-0.05	-1.80			-0.02	6.21
Variance 1			-0.09	0.05	6.58			0.02	3.58
Variance 2			0.27	-0.02	-12.17			-0.01	1.97

Notes

Sampled at 17:10. Cloudy 70s

Grab Samples

ANALYTICAL REPORT

Eurofins TestAmerica, Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

Laboratory Job ID: 180-104498-1

Client Project/Site: CCR - Plant Arkwright Ash Pond 3

For:

Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Attn: Joju Abraham



Authorized for release by:
4/30/2020 7:43:54 AM

Veronica Bortot, Senior Project Manager
(412)963-2435
veronica.bortot@testamericainc.com

Designee for

Shali Brown, Project Manager II
(615)301-5031
shali.brown@testamericainc.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

PA Lab ID: 02-00416



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Case Narrative

Client: Southern Company
Project/Site: CCR - Plant Arkwright Ash Pond 3

Job ID: 180-104498-1

Job ID: 180-104498-1

Laboratory: Eurofins TestAmerica, Pittsburgh

Narrative

**Job Narrative
180-104498-1**

Comments

No additional comments.

Receipt

The samples were received on 4/10/2020 8:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 1.2° C, 1.3° C, 2.3° C and 3.3° C.

GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Field Service

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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Definitions/Glossary

Client: Southern Company
Project/Site: CCR - Plant Arkwright Ash Pond 3

Job ID: 180-104498-1

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: Southern Company
Project/Site: CCR - Plant Arkwright Ash Pond 3

Job ID: 180-104498-1

Laboratory: Eurofins TestAmerica, Pittsburgh

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	19-033-0	06-27-20
California	State	2891	04-30-20
Connecticut	State	PH-0688	09-30-20
Florida	NELAP	E871008	06-30-20
Georgia	State	PA 02-00416	04-30-20
Illinois	NELAP	004375	06-30-20
Kansas	NELAP	E-10350	01-31-21
Kentucky (UST)	State	162013	04-30-20
Kentucky (WW)	State	KY98043	12-31-20
Louisiana	NELAP	04041	06-30-20
Maine	State	PA00164	03-06-22
Minnesota	NELAP	042-999-482	12-31-20
Nevada	State	PA00164	07-31-20
New Hampshire	NELAP	2030	04-05-21
New Jersey	NELAP	PA005	06-30-20
New York	NELAP	11182	04-01-21
North Carolina (WW/SW)	State	434	01-01-21
North Dakota	State	R-227	04-30-20
Oregon	NELAP	PA-2151	02-06-21
Pennsylvania	NELAP	02-00416	04-30-20
Rhode Island	State	LAO00362	12-31-20
South Carolina	State	89014	04-30-20
Texas	NELAP	T104704528	03-31-21
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	Federal	P-Soil-01	06-26-22
USDA	US Federal Programs	P330-16-00211	06-26-22
Utah	NELAP	PA001462019-8	05-31-20
Virginia	NELAP	10043	09-15-20
West Virginia DEP	State	142	02-01-21
Wisconsin	State	998027800	08-31-20

Sample Summary

Client: Southern Company
Project/Site: CCR - Plant Arkwright Ash Pond 3

Job ID: 180-104498-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
180-104498-1	ARGWA-3	Water	04/07/20 10:45	04/10/20 08:15	
180-104498-2	ARGWA-5	Water	04/07/20 11:46	04/10/20 08:15	
180-104498-3	ARGWA-12	Ground Water	04/07/20 13:46	04/10/20 08:15	
180-104498-4	ARGWA-13	Water	04/07/20 15:32	04/10/20 08:15	
180-104498-5	ARGWA-14	Water	04/06/20 15:57	04/10/20 08:15	
180-104498-6	ARGWC-7	Water	04/08/20 09:55	04/10/20 08:15	
180-104498-7	ARGWC-8	Water	04/09/20 12:35	04/10/20 08:15	
180-104498-8	ARGWC-9	Water	04/09/20 10:25	04/10/20 08:15	
180-104498-9	ARGWC-10	Water	04/08/20 17:09	04/10/20 08:15	
180-104498-10	ARGWC-15	Water	04/08/20 16:15	04/10/20 08:15	
180-104498-11	ARGWC-16	Water	04/08/20 11:15	04/10/20 08:15	
180-104498-12	ARGWC-17	Water	04/08/20 14:30	04/10/20 08:15	
180-104498-13	ARGWC-18	Water	04/09/20 09:40	04/10/20 08:15	
180-104498-14	EB-1-4-9-20	Water	04/09/20 10:40	04/10/20 08:15	
180-104498-15	FB-1-4-7-20	Water	04/07/20 16:00	04/10/20 08:15	
180-104498-16	DUP-1	Water	04/08/20 00:00	04/10/20 08:15	

Method Summary

Client: Southern Company
Project/Site: CCR - Plant Arkwright Ash Pond 3

Job ID: 180-104498-1

Method	Method Description	Protocol	Laboratory
EPA 300.0 R2.1	Anions, Ion Chromatography	EPA	TAL PIT
EPA 6020B	Metals (ICP/MS)	SW846	TAL PIT
EPA 7470A	Mercury (CVAA)	SW846	TAL PIT
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL PIT
Field Sampling	Field Sampling	EPA	TAL PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PIT
7470A	Preparation, Mercury	SW846	TAL PIT

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Arkwright Ash Pond 3

Job ID: 180-104498-1

Client Sample ID: ARGWA-3

Date Collected: 04/07/20 10:45

Date Received: 04/10/20 08:15

Lab Sample ID: 180-104498-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			313212	04/19/20 02:11	SAC	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	312798	04/14/20 09:33	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			313608	04/22/20 11:37	RSK	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	312737	04/13/20 16:43	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			312866	04/14/20 17:53	NAM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	312644	04/11/20 08:52	AVS	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			313430	04/07/20 10:45	FDS	TAL PIT

Client Sample ID: ARGWA-5

Date Collected: 04/07/20 11:46

Date Received: 04/10/20 08:15

Lab Sample ID: 180-104498-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			313212	04/19/20 02:26	SAC	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	312798	04/14/20 09:33	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			313608	04/22/20 11:54	RSK	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	312737	04/13/20 16:43	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			312866	04/14/20 17:54	NAM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	312644	04/11/20 08:52	AVS	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			313430	04/07/20 11:46	FDS	TAL PIT

Client Sample ID: ARGWA-12

Date Collected: 04/07/20 13:46

Date Received: 04/10/20 08:15

Lab Sample ID: 180-104498-3

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			313212	04/19/20 03:58	SAC	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	312798	04/14/20 09:33	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			313608	04/22/20 11:57	RSK	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	312737	04/13/20 16:43	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			312866	04/14/20 17:55	NAM	TAL PIT

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Arkwright Ash Pond 3

Job ID: 180-104498-1

Client Sample ID: ARGWA-12

Lab Sample ID: 180-104498-3

Date Collected: 04/07/20 13:46

Matrix: Ground Water

Date Received: 04/10/20 08:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	312644	04/11/20 08:52	AVS	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			313430	04/07/20 13:46	FDS	TAL PIT

Client Sample ID: ARGWA-13

Lab Sample ID: 180-104498-4

Date Collected: 04/07/20 15:32

Matrix: Water

Date Received: 04/10/20 08:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			313212	04/19/20 04:13	SAC	TAL PIT
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		5			313212	04/19/20 04:28	SAC	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	312798	04/14/20 09:33	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			313608	04/22/20 12:08	RSK	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	312737	04/13/20 16:43	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			312866	04/14/20 17:56	NAM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	312644	04/11/20 08:52	AVS	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			313430	04/07/20 15:32	FDS	TAL PIT

Client Sample ID: ARGWA-14

Lab Sample ID: 180-104498-5

Date Collected: 04/06/20 15:57

Matrix: Water

Date Received: 04/10/20 08:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			313212	04/19/20 04:44	SAC	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	312798	04/14/20 09:33	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			313608	04/22/20 12:11	RSK	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	312736	04/13/20 16:39	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			312866	04/14/20 17:27	NAM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	312644	04/11/20 08:52	AVS	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			313430	04/06/20 15:57	FDS	TAL PIT

Lab Chronicle

Client: Southern Company
 Project/Site: CCR - Plant Arkwright Ash Pond 3

Job ID: 180-104498-1

Client Sample ID: ARGWC-7

Date Collected: 04/08/20 09:55

Date Received: 04/10/20 08:15

Lab Sample ID: 180-104498-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			313212	04/19/20 04:59	SAC	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	312798	04/14/20 09:33	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			313608	04/22/20 12:15	RSK	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	312968	04/15/20 15:19	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			313001	04/15/20 19:05	NAM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	312644	04/11/20 08:52	AVS	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			313430	04/08/20 09:55	FDS	TAL PIT

Client Sample ID: ARGWC-8

Date Collected: 04/09/20 12:35

Date Received: 04/10/20 08:15

Lab Sample ID: 180-104498-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			313212	04/19/20 05:14	SAC	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	312798	04/14/20 09:33	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			313608	04/22/20 12:18	RSK	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	312968	04/15/20 15:19	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			313001	04/15/20 19:06	NAM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	312644	04/11/20 08:52	AVS	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			313430	04/09/20 12:35	FDS	TAL PIT

Client Sample ID: ARGWC-9

Date Collected: 04/09/20 10:25

Date Received: 04/10/20 08:15

Lab Sample ID: 180-104498-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			313354	04/21/20 13:31	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	312798	04/14/20 09:33	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			313608	04/22/20 12:22	RSK	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	312737	04/13/20 16:43	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			312866	04/14/20 17:57	NAM	TAL PIT

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Lab Chronicle

Client: Southern Company
 Project/Site: CCR - Plant Arkwright Ash Pond 3

Job ID: 180-104498-1

Client Sample ID: ARGWC-9

Lab Sample ID: 180-104498-8

Date Collected: 04/09/20 10:25

Matrix: Water

Date Received: 04/10/20 08:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	312644	04/11/20 08:52	AVS	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			313430	04/09/20 10:25	FDS	TAL PIT

Client Sample ID: ARGWC-10

Lab Sample ID: 180-104498-9

Date Collected: 04/08/20 17:09

Matrix: Water

Date Received: 04/10/20 08:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			313354	04/21/20 18:37	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	312798	04/14/20 09:33	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			313608	04/22/20 12:25	RSK	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	312737	04/13/20 16:43	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			312866	04/14/20 18:00	NAM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	312644	04/11/20 08:52	AVS	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			313430	04/08/20 17:09	FDS	TAL PIT

Client Sample ID: ARGWC-15

Lab Sample ID: 180-104498-10

Date Collected: 04/08/20 16:15

Matrix: Water

Date Received: 04/10/20 08:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			313354	04/21/20 18:52	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	312798	04/14/20 09:33	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			313608	04/22/20 12:29	RSK	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	312737	04/13/20 16:43	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			312866	04/14/20 18:01	NAM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	312644	04/11/20 08:52	AVS	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			313430	04/08/20 16:15	FDS	TAL PIT

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Arkwright Ash Pond 3

Job ID: 180-104498-1

Client Sample ID: ARGWC-16

Date Collected: 04/08/20 11:15

Date Received: 04/10/20 08:15

Lab Sample ID: 180-104498-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			313354	04/21/20 19:07	MJH	TAL PIT
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		5			313534	04/22/20 17:39	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	312798	04/14/20 09:33	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			313608	04/22/20 12:32	RSK	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	312737	04/13/20 16:43	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			312866	04/14/20 18:02	NAM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	312644	04/11/20 08:52	AVS	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			313430	04/08/20 11:15	FDS	TAL PIT

Client Sample ID: ARGWC-17

Date Collected: 04/08/20 14:30

Date Received: 04/10/20 08:15

Lab Sample ID: 180-104498-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			313354	04/21/20 19:23	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	312798	04/14/20 09:33	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			313608	04/22/20 12:36	RSK	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	312737	04/13/20 16:43	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			312866	04/14/20 18:03	NAM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	312644	04/11/20 08:52	AVS	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			313430	04/08/20 14:30	FDS	TAL PIT

Client Sample ID: ARGWC-18

Date Collected: 04/09/20 09:40

Date Received: 04/10/20 08:15

Lab Sample ID: 180-104498-13

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			313354	04/21/20 19:38	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	312798	04/14/20 09:33	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			313608	04/22/20 12:39	RSK	TAL PIT

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Arkwright Ash Pond 3

Job ID: 180-104498-1

Client Sample ID: ARGWC-18

Date Collected: 04/09/20 09:40

Date Received: 04/10/20 08:15

Lab Sample ID: 180-104498-13

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			50 mL	50 mL	312968	04/15/20 15:19	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			313001	04/15/20 19:09	NAM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	312644	04/11/20 08:52	AVS	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			313430	04/09/20 09:40	FDS	TAL PIT

Client Sample ID: EB-1-4-9-20

Date Collected: 04/09/20 10:40

Date Received: 04/10/20 08:15

Lab Sample ID: 180-104498-14

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			313354	04/21/20 17:20	MJH	TAL PIT
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		1			313536	04/22/20 19:30	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	312798	04/14/20 09:33	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			313608	04/22/20 12:49	RSK	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	312968	04/15/20 15:19	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			313001	04/15/20 19:10	NAM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	312644	04/11/20 08:52	AVS	TAL PIT

Client Sample ID: FB-1-4-7-20

Date Collected: 04/07/20 16:00

Date Received: 04/10/20 08:15

Lab Sample ID: 180-104498-15

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			313354	04/21/20 17:36	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	312798	04/14/20 09:33	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			313608	04/22/20 12:53	RSK	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	312737	04/13/20 16:43	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			312866	04/14/20 18:04	NAM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	312644	04/11/20 08:52	AVS	TAL PIT

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
 Project/Site: CCR - Plant Arkwright Ash Pond 3

Job ID: 180-104498-1

Client Sample ID: DUP-1

Lab Sample ID: 180-104498-16

Date Collected: 04/08/20 00:00

Matrix: Water

Date Received: 04/10/20 08:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			313354	04/21/20 20:24	MJH	TAL PIT
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		5			313534	04/22/20 18:25	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	312798	04/14/20 09:33	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			313608	04/22/20 12:56	RSK	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	312737	04/13/20 16:43	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			312866	04/14/20 18:04	NAM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	312644	04/11/20 08:52	AVS	TAL PIT

Laboratory References:

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Analyst References:

Lab: TAL PIT

Batch Type: Prep

KEM = Kimberly Mahoney

NAM = Nicole Marfisi

Batch Type: Analysis

AVS = Abbey Smith

FDS = Sampler Field

MJH = Matthew Hartman

NAM = Nicole Marfisi

RSK = Robert Kurtz

SAC = Shawn Clemente

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Arkwright Ash Pond 3

Job ID: 180-104498-1

Client Sample ID: ARGWA-3

Lab Sample ID: 180-104498-1

Date Collected: 04/07/20 10:45

Matrix: Water

Date Received: 04/10/20 08:15

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.9		1.0	0.32	mg/L			04/19/20 02:11	1
Fluoride	0.098	J	0.10	0.026	mg/L			04/19/20 02:11	1
Sulfate	0.67	J	1.0	0.38	mg/L			04/19/20 02:11	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		04/14/20 09:33	04/22/20 11:37	1
Barium	0.018		0.010	0.0016	mg/L		04/14/20 09:33	04/22/20 11:37	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		04/14/20 09:33	04/22/20 11:37	1
Boron	<0.039	^	0.080	0.039	mg/L		04/14/20 09:33	04/22/20 11:37	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		04/14/20 09:33	04/22/20 11:37	1
Calcium	5.5		0.50	0.13	mg/L		04/14/20 09:33	04/22/20 11:37	1
Chromium	0.0023		0.0020	0.0015	mg/L		04/14/20 09:33	04/22/20 11:37	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		04/14/20 09:33	04/22/20 11:37	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		04/14/20 09:33	04/22/20 11:37	1
Lead	<0.00013		0.0010	0.00013	mg/L		04/14/20 09:33	04/22/20 11:37	1
Antimony	<0.00038		0.0020	0.00038	mg/L		04/14/20 09:33	04/22/20 11:37	1
Selenium	<0.0015		0.0050	0.0015	mg/L		04/14/20 09:33	04/22/20 11:37	1
Thallium	<0.00015		0.0010	0.00015	mg/L		04/14/20 09:33	04/22/20 11:37	1
Lithium	<0.0034		0.0050	0.0034	mg/L		04/14/20 09:33	04/22/20 11:37	1
Silver	<0.00018		0.0010	0.00018	mg/L		04/14/20 09:33	04/22/20 11:37	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00016	J	0.00020	0.00010	mg/L		04/13/20 16:43	04/14/20 17:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	64		10	10	mg/L			04/11/20 08:52	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.90				SU			04/07/20 10:45	1

Client Sample ID: ARGWA-5

Lab Sample ID: 180-104498-2

Date Collected: 04/07/20 11:46

Matrix: Water

Date Received: 04/10/20 08:15

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.7		1.0	0.32	mg/L			04/19/20 02:26	1
Fluoride	0.072	J	0.10	0.026	mg/L			04/19/20 02:26	1
Sulfate	<0.38		1.0	0.38	mg/L			04/19/20 02:26	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		04/14/20 09:33	04/22/20 11:54	1
Barium	0.020		0.010	0.0016	mg/L		04/14/20 09:33	04/22/20 11:54	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		04/14/20 09:33	04/22/20 11:54	1
Boron	<0.039	^	0.080	0.039	mg/L		04/14/20 09:33	04/22/20 11:54	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		04/14/20 09:33	04/22/20 11:54	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Arkwright Ash Pond 3

Job ID: 180-104498-1

Client Sample ID: ARGWA-5

Lab Sample ID: 180-104498-2

Date Collected: 04/07/20 11:46

Matrix: Water

Date Received: 04/10/20 08:15

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	4.0		0.50	0.13	mg/L		04/14/20 09:33	04/22/20 11:54	1
Chromium	<0.0015		0.0020	0.0015	mg/L		04/14/20 09:33	04/22/20 11:54	1
Cobalt	0.00014	J	0.0025	0.00013	mg/L		04/14/20 09:33	04/22/20 11:54	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		04/14/20 09:33	04/22/20 11:54	1
Lead	<0.00013		0.0010	0.00013	mg/L		04/14/20 09:33	04/22/20 11:54	1
Antimony	<0.00038		0.0020	0.00038	mg/L		04/14/20 09:33	04/22/20 11:54	1
Selenium	<0.0015		0.0050	0.0015	mg/L		04/14/20 09:33	04/22/20 11:54	1
Thallium	0.00015	J	0.0010	0.00015	mg/L		04/14/20 09:33	04/22/20 11:54	1
Lithium	<0.0034		0.0050	0.0034	mg/L		04/14/20 09:33	04/22/20 11:54	1
Silver	<0.00018		0.0010	0.00018	mg/L		04/14/20 09:33	04/22/20 11:54	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		04/13/20 16:43	04/14/20 17:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	65		10	10	mg/L			04/11/20 08:52	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.86				SU			04/07/20 11:46	1

Client Sample ID: ARGWA-12

Lab Sample ID: 180-104498-3

Date Collected: 04/07/20 13:46

Matrix: Ground Water

Date Received: 04/10/20 08:15

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11		1.0	0.32	mg/L			04/19/20 03:58	1
Fluoride	0.082	J	0.10	0.026	mg/L			04/19/20 03:58	1
Sulfate	8.0		1.0	0.38	mg/L			04/19/20 03:58	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		04/14/20 09:33	04/22/20 11:57	1
Barium	0.066		0.010	0.0016	mg/L		04/14/20 09:33	04/22/20 11:57	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		04/14/20 09:33	04/22/20 11:57	1
Boron	<0.039	^	0.080	0.039	mg/L		04/14/20 09:33	04/22/20 11:57	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		04/14/20 09:33	04/22/20 11:57	1
Calcium	12		0.50	0.13	mg/L		04/14/20 09:33	04/22/20 11:57	1
Chromium	0.0015	J	0.0020	0.0015	mg/L		04/14/20 09:33	04/22/20 11:57	1
Cobalt	0.00029	J	0.0025	0.00013	mg/L		04/14/20 09:33	04/22/20 11:57	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		04/14/20 09:33	04/22/20 11:57	1
Lead	<0.00013		0.0010	0.00013	mg/L		04/14/20 09:33	04/22/20 11:57	1
Antimony	<0.00038		0.0020	0.00038	mg/L		04/14/20 09:33	04/22/20 11:57	1
Selenium	<0.0015		0.0050	0.0015	mg/L		04/14/20 09:33	04/22/20 11:57	1
Thallium	<0.00015		0.0010	0.00015	mg/L		04/14/20 09:33	04/22/20 11:57	1
Lithium	0.0036	J	0.0050	0.0034	mg/L		04/14/20 09:33	04/22/20 11:57	1
Silver	<0.00018		0.0010	0.00018	mg/L		04/14/20 09:33	04/22/20 11:57	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Arkwright Ash Pond 3

Job ID: 180-104498-1

Client Sample ID: ARGWA-12

Lab Sample ID: 180-104498-3

Date Collected: 04/07/20 13:46

Matrix: Ground Water

Date Received: 04/10/20 08:15

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		04/13/20 16:43	04/14/20 17:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	120		10	10	mg/L			04/11/20 08:52	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.91				SU			04/07/20 13:46	1

Client Sample ID: ARGWA-13

Lab Sample ID: 180-104498-4

Date Collected: 04/07/20 15:32

Matrix: Water

Date Received: 04/10/20 08:15

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.8		1.0	0.32	mg/L			04/19/20 04:13	1
Fluoride	0.086	J	0.10	0.026	mg/L			04/19/20 04:13	1
Sulfate	270		5.0	1.9	mg/L			04/19/20 04:28	5

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		04/14/20 09:33	04/22/20 12:08	1
Barium	0.021		0.010	0.0016	mg/L		04/14/20 09:33	04/22/20 12:08	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		04/14/20 09:33	04/22/20 12:08	1
Boron	0.23	^	0.080	0.039	mg/L		04/14/20 09:33	04/22/20 12:08	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		04/14/20 09:33	04/22/20 12:08	1
Calcium	61		0.50	0.13	mg/L		04/14/20 09:33	04/22/20 12:08	1
Chromium	<0.0015		0.0020	0.0015	mg/L		04/14/20 09:33	04/22/20 12:08	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		04/14/20 09:33	04/22/20 12:08	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		04/14/20 09:33	04/22/20 12:08	1
Lead	<0.00013		0.0010	0.00013	mg/L		04/14/20 09:33	04/22/20 12:08	1
Antimony	<0.00038		0.0020	0.00038	mg/L		04/14/20 09:33	04/22/20 12:08	1
Selenium	0.0094		0.0050	0.0015	mg/L		04/14/20 09:33	04/22/20 12:08	1
Thallium	<0.00015		0.0010	0.00015	mg/L		04/14/20 09:33	04/22/20 12:08	1
Lithium	0.0036	J	0.0050	0.0034	mg/L		04/14/20 09:33	04/22/20 12:08	1
Silver	<0.00018		0.0010	0.00018	mg/L		04/14/20 09:33	04/22/20 12:08	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		04/13/20 16:43	04/14/20 17:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	480		10	10	mg/L			04/11/20 08:52	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.84				SU			04/07/20 15:32	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Arkwright Ash Pond 3

Job ID: 180-104498-1

Client Sample ID: ARGWA-14

Lab Sample ID: 180-104498-5

Date Collected: 04/06/20 15:57

Matrix: Water

Date Received: 04/10/20 08:15

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.2		1.0	0.32	mg/L			04/19/20 04:44	1
Fluoride	0.28		0.10	0.026	mg/L			04/19/20 04:44	1
Sulfate	10		1.0	0.38	mg/L			04/19/20 04:44	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		04/14/20 09:33	04/22/20 12:11	1
Barium	0.051		0.010	0.0016	mg/L		04/14/20 09:33	04/22/20 12:11	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		04/14/20 09:33	04/22/20 12:11	1
Boron	0.041	J ^	0.080	0.039	mg/L		04/14/20 09:33	04/22/20 12:11	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		04/14/20 09:33	04/22/20 12:11	1
Calcium	43		0.50	0.13	mg/L		04/14/20 09:33	04/22/20 12:11	1
Chromium	<0.0015		0.0020	0.0015	mg/L		04/14/20 09:33	04/22/20 12:11	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		04/14/20 09:33	04/22/20 12:11	1
Molybdenum	0.00084	J	0.015	0.00061	mg/L		04/14/20 09:33	04/22/20 12:11	1
Lead	<0.00013		0.0010	0.00013	mg/L		04/14/20 09:33	04/22/20 12:11	1
Antimony	<0.00038		0.0020	0.00038	mg/L		04/14/20 09:33	04/22/20 12:11	1
Selenium	<0.0015		0.0050	0.0015	mg/L		04/14/20 09:33	04/22/20 12:11	1
Thallium	<0.00015		0.0010	0.00015	mg/L		04/14/20 09:33	04/22/20 12:11	1
Lithium	<0.0034		0.0050	0.0034	mg/L		04/14/20 09:33	04/22/20 12:11	1
Silver	<0.00018		0.0010	0.00018	mg/L		04/14/20 09:33	04/22/20 12:11	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		04/13/20 16:39	04/14/20 17:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	280		10	10	mg/L			04/11/20 08:52	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.90				SU			04/06/20 15:57	1

Client Sample ID: ARGWC-7

Lab Sample ID: 180-104498-6

Date Collected: 04/08/20 09:55

Matrix: Water

Date Received: 04/10/20 08:15

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.4		1.0	0.32	mg/L			04/19/20 04:59	1
Fluoride	0.062	J	0.10	0.026	mg/L			04/19/20 04:59	1
Sulfate	39		1.0	0.38	mg/L			04/19/20 04:59	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		04/14/20 09:33	04/22/20 12:15	1
Barium	0.039		0.010	0.0016	mg/L		04/14/20 09:33	04/22/20 12:15	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		04/14/20 09:33	04/22/20 12:15	1
Boron	0.086	^	0.080	0.039	mg/L		04/14/20 09:33	04/22/20 12:15	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		04/14/20 09:33	04/22/20 12:15	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Arkwright Ash Pond 3

Job ID: 180-104498-1

Client Sample ID: ARGWC-7

Lab Sample ID: 180-104498-6

Date Collected: 04/08/20 09:55

Matrix: Water

Date Received: 04/10/20 08:15

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	11		0.50	0.13	mg/L		04/14/20 09:33	04/22/20 12:15	1
Chromium	0.0027		0.0020	0.0015	mg/L		04/14/20 09:33	04/22/20 12:15	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		04/14/20 09:33	04/22/20 12:15	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		04/14/20 09:33	04/22/20 12:15	1
Lead	<0.00013		0.0010	0.00013	mg/L		04/14/20 09:33	04/22/20 12:15	1
Antimony	<0.00038		0.0020	0.00038	mg/L		04/14/20 09:33	04/22/20 12:15	1
Selenium	<0.0015		0.0050	0.0015	mg/L		04/14/20 09:33	04/22/20 12:15	1
Thallium	<0.00015		0.0010	0.00015	mg/L		04/14/20 09:33	04/22/20 12:15	1
Lithium	<0.0034		0.0050	0.0034	mg/L		04/14/20 09:33	04/22/20 12:15	1
Silver	<0.00018		0.0010	0.00018	mg/L		04/14/20 09:33	04/22/20 12:15	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		04/15/20 15:19	04/15/20 19:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	130		10	10	mg/L			04/11/20 08:52	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.75				SU			04/08/20 09:55	1

Client Sample ID: ARGWC-8

Lab Sample ID: 180-104498-7

Date Collected: 04/09/20 12:35

Matrix: Water

Date Received: 04/10/20 08:15

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.7		1.0	0.32	mg/L			04/19/20 05:14	1
Fluoride	0.16		0.10	0.026	mg/L			04/19/20 05:14	1
Sulfate	59		1.0	0.38	mg/L			04/19/20 05:14	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		04/14/20 09:33	04/22/20 12:18	1
Barium	0.045		0.010	0.0016	mg/L		04/14/20 09:33	04/22/20 12:18	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		04/14/20 09:33	04/22/20 12:18	1
Boron	1.1	^	0.080	0.039	mg/L		04/14/20 09:33	04/22/20 12:18	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		04/14/20 09:33	04/22/20 12:18	1
Calcium	47		0.50	0.13	mg/L		04/14/20 09:33	04/22/20 12:18	1
Chromium	<0.0015		0.0020	0.0015	mg/L		04/14/20 09:33	04/22/20 12:18	1
Cobalt	0.00013	J	0.0025	0.00013	mg/L		04/14/20 09:33	04/22/20 12:18	1
Molybdenum	0.039		0.015	0.00061	mg/L		04/14/20 09:33	04/22/20 12:18	1
Lead	<0.00013		0.0010	0.00013	mg/L		04/14/20 09:33	04/22/20 12:18	1
Antimony	<0.00038		0.0020	0.00038	mg/L		04/14/20 09:33	04/22/20 12:18	1
Selenium	<0.0015		0.0050	0.0015	mg/L		04/14/20 09:33	04/22/20 12:18	1
Thallium	<0.00015		0.0010	0.00015	mg/L		04/14/20 09:33	04/22/20 12:18	1
Lithium	<0.0034		0.0050	0.0034	mg/L		04/14/20 09:33	04/22/20 12:18	1
Silver	<0.00018		0.0010	0.00018	mg/L		04/14/20 09:33	04/22/20 12:18	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Arkwright Ash Pond 3

Job ID: 180-104498-1

Client Sample ID: ARGWC-8

Lab Sample ID: 180-104498-7

Date Collected: 04/09/20 12:35

Matrix: Water

Date Received: 04/10/20 08:15

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		04/15/20 15:19	04/15/20 19:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	270		10	10	mg/L			04/11/20 08:52	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.42				SU			04/09/20 12:35	1

Client Sample ID: ARGWC-9

Lab Sample ID: 180-104498-8

Date Collected: 04/09/20 10:25

Matrix: Water

Date Received: 04/10/20 08:15

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.6		1.0	0.32	mg/L			04/21/20 13:31	1
Fluoride	0.066	J	0.10	0.026	mg/L			04/21/20 13:31	1
Sulfate	1.1		1.0	0.38	mg/L			04/21/20 13:31	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		04/14/20 09:33	04/22/20 12:22	1
Barium	0.044		0.010	0.0016	mg/L		04/14/20 09:33	04/22/20 12:22	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		04/14/20 09:33	04/22/20 12:22	1
Boron	<0.039	^	0.080	0.039	mg/L		04/14/20 09:33	04/22/20 12:22	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		04/14/20 09:33	04/22/20 12:22	1
Calcium	5.3		0.50	0.13	mg/L		04/14/20 09:33	04/22/20 12:22	1
Chromium	0.0069		0.0020	0.0015	mg/L		04/14/20 09:33	04/22/20 12:22	1
Cobalt	0.00015	J	0.0025	0.00013	mg/L		04/14/20 09:33	04/22/20 12:22	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		04/14/20 09:33	04/22/20 12:22	1
Lead	<0.00013		0.0010	0.00013	mg/L		04/14/20 09:33	04/22/20 12:22	1
Antimony	<0.00038		0.0020	0.00038	mg/L		04/14/20 09:33	04/22/20 12:22	1
Selenium	<0.0015		0.0050	0.0015	mg/L		04/14/20 09:33	04/22/20 12:22	1
Thallium	<0.00015		0.0010	0.00015	mg/L		04/14/20 09:33	04/22/20 12:22	1
Lithium	<0.0034		0.0050	0.0034	mg/L		04/14/20 09:33	04/22/20 12:22	1
Silver	<0.00018		0.0010	0.00018	mg/L		04/14/20 09:33	04/22/20 12:22	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		04/13/20 16:43	04/14/20 17:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	70		10	10	mg/L			04/11/20 08:52	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.90				SU			04/09/20 10:25	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Arkwright Ash Pond 3

Job ID: 180-104498-1

Client Sample ID: ARGWC-10

Lab Sample ID: 180-104498-9

Date Collected: 04/08/20 17:09

Matrix: Water

Date Received: 04/10/20 08:15

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.9		1.0	0.32	mg/L			04/21/20 18:37	1
Fluoride	0.071	J	0.10	0.026	mg/L			04/21/20 18:37	1
Sulfate	<0.38		1.0	0.38	mg/L			04/21/20 18:37	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		04/14/20 09:33	04/22/20 12:25	1
Barium	0.031		0.010	0.0016	mg/L		04/14/20 09:33	04/22/20 12:25	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		04/14/20 09:33	04/22/20 12:25	1
Boron	<0.039	^	0.080	0.039	mg/L		04/14/20 09:33	04/22/20 12:25	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		04/14/20 09:33	04/22/20 12:25	1
Calcium	7.5		0.50	0.13	mg/L		04/14/20 09:33	04/22/20 12:25	1
Chromium	0.0046		0.0020	0.0015	mg/L		04/14/20 09:33	04/22/20 12:25	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		04/14/20 09:33	04/22/20 12:25	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		04/14/20 09:33	04/22/20 12:25	1
Lead	0.031		0.0010	0.00013	mg/L		04/14/20 09:33	04/22/20 12:25	1
Antimony	0.00094	J	0.0020	0.00038	mg/L		04/14/20 09:33	04/22/20 12:25	1
Selenium	<0.0015		0.0050	0.0015	mg/L		04/14/20 09:33	04/22/20 12:25	1
Thallium	<0.00015		0.0010	0.00015	mg/L		04/14/20 09:33	04/22/20 12:25	1
Lithium	<0.0034		0.0050	0.0034	mg/L		04/14/20 09:33	04/22/20 12:25	1
Silver	<0.00018		0.0010	0.00018	mg/L		04/14/20 09:33	04/22/20 12:25	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		04/13/20 16:43	04/14/20 18:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	82		10	10	mg/L			04/11/20 08:52	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.95				SU			04/08/20 17:09	1

Client Sample ID: ARGWC-15

Lab Sample ID: 180-104498-10

Date Collected: 04/08/20 16:15

Matrix: Water

Date Received: 04/10/20 08:15

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.9		1.0	0.32	mg/L			04/21/20 18:52	1
Fluoride	0.12		0.10	0.026	mg/L			04/21/20 18:52	1
Sulfate	5.9		1.0	0.38	mg/L			04/21/20 18:52	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		04/14/20 09:33	04/22/20 12:29	1
Barium	0.030		0.010	0.0016	mg/L		04/14/20 09:33	04/22/20 12:29	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		04/14/20 09:33	04/22/20 12:29	1
Boron	<0.039	^	0.080	0.039	mg/L		04/14/20 09:33	04/22/20 12:29	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		04/14/20 09:33	04/22/20 12:29	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Arkwright Ash Pond 3

Job ID: 180-104498-1

Client Sample ID: ARGWC-15

Lab Sample ID: 180-104498-10

Date Collected: 04/08/20 16:15

Matrix: Water

Date Received: 04/10/20 08:15

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	21		0.50	0.13	mg/L		04/14/20 09:33	04/22/20 12:29	1
Chromium	<0.0015		0.0020	0.0015	mg/L		04/14/20 09:33	04/22/20 12:29	1
Cobalt	0.00026	J	0.0025	0.00013	mg/L		04/14/20 09:33	04/22/20 12:29	1
Molybdenum	0.00075	J	0.015	0.00061	mg/L		04/14/20 09:33	04/22/20 12:29	1
Lead	<0.00013		0.0010	0.00013	mg/L		04/14/20 09:33	04/22/20 12:29	1
Antimony	<0.00038		0.0020	0.00038	mg/L		04/14/20 09:33	04/22/20 12:29	1
Selenium	<0.0015		0.0050	0.0015	mg/L		04/14/20 09:33	04/22/20 12:29	1
Thallium	<0.00015		0.0010	0.00015	mg/L		04/14/20 09:33	04/22/20 12:29	1
Lithium	<0.0034		0.0050	0.0034	mg/L		04/14/20 09:33	04/22/20 12:29	1
Silver	<0.00018		0.0010	0.00018	mg/L		04/14/20 09:33	04/22/20 12:29	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		04/13/20 16:43	04/14/20 18:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	130		10	10	mg/L			04/11/20 08:52	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.26				SU			04/08/20 16:15	1

Client Sample ID: ARGWC-16

Lab Sample ID: 180-104498-11

Date Collected: 04/08/20 11:15

Matrix: Water

Date Received: 04/10/20 08:15

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.1		1.0	0.32	mg/L			04/21/20 19:07	1
Fluoride	0.051	J	0.10	0.026	mg/L			04/21/20 19:07	1
Sulfate	200		5.0	1.9	mg/L			04/22/20 17:39	5

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		04/14/20 09:33	04/22/20 12:32	1
Barium	0.042		0.010	0.0016	mg/L		04/14/20 09:33	04/22/20 12:32	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		04/14/20 09:33	04/22/20 12:32	1
Boron	0.059	J ^	0.080	0.039	mg/L		04/14/20 09:33	04/22/20 12:32	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		04/14/20 09:33	04/22/20 12:32	1
Calcium	40		0.50	0.13	mg/L		04/14/20 09:33	04/22/20 12:32	1
Chromium	0.0021		0.0020	0.0015	mg/L		04/14/20 09:33	04/22/20 12:32	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		04/14/20 09:33	04/22/20 12:32	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		04/14/20 09:33	04/22/20 12:32	1
Lead	<0.00013		0.0010	0.00013	mg/L		04/14/20 09:33	04/22/20 12:32	1
Antimony	<0.00038		0.0020	0.00038	mg/L		04/14/20 09:33	04/22/20 12:32	1
Selenium	0.0022	J	0.0050	0.0015	mg/L		04/14/20 09:33	04/22/20 12:32	1
Thallium	<0.00015		0.0010	0.00015	mg/L		04/14/20 09:33	04/22/20 12:32	1
Lithium	<0.0034		0.0050	0.0034	mg/L		04/14/20 09:33	04/22/20 12:32	1
Silver	<0.00018		0.0010	0.00018	mg/L		04/14/20 09:33	04/22/20 12:32	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Arkwright Ash Pond 3

Job ID: 180-104498-1

Client Sample ID: ARGWC-16

Lab Sample ID: 180-104498-11

Date Collected: 04/08/20 11:15

Matrix: Water

Date Received: 04/10/20 08:15

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		04/13/20 16:43	04/14/20 18:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	350		10	10	mg/L			04/11/20 08:52	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.07				SU			04/08/20 11:15	1

Client Sample ID: ARGWC-17

Lab Sample ID: 180-104498-12

Date Collected: 04/08/20 14:30

Matrix: Water

Date Received: 04/10/20 08:15

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.7		1.0	0.32	mg/L			04/21/20 19:23	1
Fluoride	0.053	J	0.10	0.026	mg/L			04/21/20 19:23	1
Sulfate	47		1.0	0.38	mg/L			04/21/20 19:23	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		04/14/20 09:33	04/22/20 12:36	1
Barium	0.045		0.010	0.0016	mg/L		04/14/20 09:33	04/22/20 12:36	1
Beryllium	0.00025	J	0.0025	0.00018	mg/L		04/14/20 09:33	04/22/20 12:36	1
Boron	<0.039	^	0.080	0.039	mg/L		04/14/20 09:33	04/22/20 12:36	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		04/14/20 09:33	04/22/20 12:36	1
Calcium	8.3		0.50	0.13	mg/L		04/14/20 09:33	04/22/20 12:36	1
Chromium	<0.0015		0.0020	0.0015	mg/L		04/14/20 09:33	04/22/20 12:36	1
Cobalt	0.016		0.0025	0.00013	mg/L		04/14/20 09:33	04/22/20 12:36	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		04/14/20 09:33	04/22/20 12:36	1
Lead	<0.00013		0.0010	0.00013	mg/L		04/14/20 09:33	04/22/20 12:36	1
Antimony	<0.00038		0.0020	0.00038	mg/L		04/14/20 09:33	04/22/20 12:36	1
Selenium	<0.0015		0.0050	0.0015	mg/L		04/14/20 09:33	04/22/20 12:36	1
Thallium	<0.00015		0.0010	0.00015	mg/L		04/14/20 09:33	04/22/20 12:36	1
Lithium	<0.0034		0.0050	0.0034	mg/L		04/14/20 09:33	04/22/20 12:36	1
Silver	<0.00018		0.0010	0.00018	mg/L		04/14/20 09:33	04/22/20 12:36	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		04/13/20 16:43	04/14/20 18:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	91		10	10	mg/L			04/11/20 08:52	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.02				SU			04/08/20 14:30	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Arkwright Ash Pond 3

Job ID: 180-104498-1

Client Sample ID: ARGWC-18

Lab Sample ID: 180-104498-13

Date Collected: 04/09/20 09:40

Matrix: Water

Date Received: 04/10/20 08:15

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.3		1.0	0.32	mg/L			04/21/20 19:38	1
Fluoride	0.11		0.10	0.026	mg/L			04/21/20 19:38	1
Sulfate	190		1.0	0.38	mg/L			04/21/20 19:38	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		04/14/20 09:33	04/22/20 12:39	1
Barium	0.041		0.010	0.0016	mg/L		04/14/20 09:33	04/22/20 12:39	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		04/14/20 09:33	04/22/20 12:39	1
Boron	2.3	^	0.080	0.039	mg/L		04/14/20 09:33	04/22/20 12:39	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		04/14/20 09:33	04/22/20 12:39	1
Calcium	46		0.50	0.13	mg/L		04/14/20 09:33	04/22/20 12:39	1
Chromium	<0.0015		0.0020	0.0015	mg/L		04/14/20 09:33	04/22/20 12:39	1
Cobalt	0.00091	J	0.0025	0.00013	mg/L		04/14/20 09:33	04/22/20 12:39	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		04/14/20 09:33	04/22/20 12:39	1
Lead	<0.00013		0.0010	0.00013	mg/L		04/14/20 09:33	04/22/20 12:39	1
Antimony	<0.00038		0.0020	0.00038	mg/L		04/14/20 09:33	04/22/20 12:39	1
Selenium	<0.0015		0.0050	0.0015	mg/L		04/14/20 09:33	04/22/20 12:39	1
Thallium	<0.00015		0.0010	0.00015	mg/L		04/14/20 09:33	04/22/20 12:39	1
Lithium	<0.0034		0.0050	0.0034	mg/L		04/14/20 09:33	04/22/20 12:39	1
Silver	<0.00018		0.0010	0.00018	mg/L		04/14/20 09:33	04/22/20 12:39	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		04/15/20 15:19	04/15/20 19:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	440		10	10	mg/L			04/11/20 08:52	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.98				SU			04/09/20 09:40	1

Client Sample ID: EB-1-4-9-20

Lab Sample ID: 180-104498-14

Date Collected: 04/09/20 10:40

Matrix: Water

Date Received: 04/10/20 08:15

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.32		1.0	0.32	mg/L			04/21/20 17:20	1
Fluoride	0.069	J	0.10	0.026	mg/L			04/22/20 19:30	1
Sulfate	<0.38		1.0	0.38	mg/L			04/21/20 17:20	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		04/14/20 09:33	04/22/20 12:49	1
Barium	<0.0016		0.010	0.0016	mg/L		04/14/20 09:33	04/22/20 12:49	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		04/14/20 09:33	04/22/20 12:49	1
Boron	<0.039	^	0.080	0.039	mg/L		04/14/20 09:33	04/22/20 12:49	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		04/14/20 09:33	04/22/20 12:49	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Arkwright Ash Pond 3

Job ID: 180-104498-1

Client Sample ID: EB-1-4-9-20

Lab Sample ID: 180-104498-14

Date Collected: 04/09/20 10:40

Matrix: Water

Date Received: 04/10/20 08:15

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	<0.13		0.50	0.13	mg/L		04/14/20 09:33	04/22/20 12:49	1
Chromium	<0.0015		0.0020	0.0015	mg/L		04/14/20 09:33	04/22/20 12:49	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		04/14/20 09:33	04/22/20 12:49	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		04/14/20 09:33	04/22/20 12:49	1
Lead	<0.00013		0.0010	0.00013	mg/L		04/14/20 09:33	04/22/20 12:49	1
Antimony	<0.00038		0.0020	0.00038	mg/L		04/14/20 09:33	04/22/20 12:49	1
Selenium	<0.0015		0.0050	0.0015	mg/L		04/14/20 09:33	04/22/20 12:49	1
Thallium	<0.00015		0.0010	0.00015	mg/L		04/14/20 09:33	04/22/20 12:49	1
Lithium	<0.0034		0.0050	0.0034	mg/L		04/14/20 09:33	04/22/20 12:49	1
Silver	<0.00018		0.0010	0.00018	mg/L		04/14/20 09:33	04/22/20 12:49	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		04/15/20 15:19	04/15/20 19:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			04/11/20 08:52	1

Client Sample ID: FB-1-4-7-20

Lab Sample ID: 180-104498-15

Date Collected: 04/07/20 16:00

Matrix: Water

Date Received: 04/10/20 08:15

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.32		1.0	0.32	mg/L			04/21/20 17:36	1
Fluoride	0.049	J	0.10	0.026	mg/L			04/21/20 17:36	1
Sulfate	<0.38		1.0	0.38	mg/L			04/21/20 17:36	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		04/14/20 09:33	04/22/20 12:53	1
Barium	<0.0016		0.010	0.0016	mg/L		04/14/20 09:33	04/22/20 12:53	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		04/14/20 09:33	04/22/20 12:53	1
Boron	<0.039	^	0.080	0.039	mg/L		04/14/20 09:33	04/22/20 12:53	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		04/14/20 09:33	04/22/20 12:53	1
Calcium	<0.13		0.50	0.13	mg/L		04/14/20 09:33	04/22/20 12:53	1
Chromium	<0.0015		0.0020	0.0015	mg/L		04/14/20 09:33	04/22/20 12:53	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		04/14/20 09:33	04/22/20 12:53	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		04/14/20 09:33	04/22/20 12:53	1
Lead	<0.00013		0.0010	0.00013	mg/L		04/14/20 09:33	04/22/20 12:53	1
Antimony	<0.00038		0.0020	0.00038	mg/L		04/14/20 09:33	04/22/20 12:53	1
Selenium	<0.0015		0.0050	0.0015	mg/L		04/14/20 09:33	04/22/20 12:53	1
Thallium	<0.00015		0.0010	0.00015	mg/L		04/14/20 09:33	04/22/20 12:53	1
Lithium	<0.0034		0.0050	0.0034	mg/L		04/14/20 09:33	04/22/20 12:53	1
Silver	<0.00018		0.0010	0.00018	mg/L		04/14/20 09:33	04/22/20 12:53	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		04/13/20 16:43	04/14/20 18:04	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Arkwright Ash Pond 3

Job ID: 180-104498-1

Client Sample ID: FB-1-4-7-20

Lab Sample ID: 180-104498-15

Date Collected: 04/07/20 16:00

Matrix: Water

Date Received: 04/10/20 08:15

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			04/11/20 08:52	1

Client Sample ID: DUP-1

Lab Sample ID: 180-104498-16

Date Collected: 04/08/20 00:00

Matrix: Water

Date Received: 04/10/20 08:15

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.3		1.0	0.32	mg/L			04/21/20 20:24	1
Fluoride	0.072	J	0.10	0.026	mg/L			04/21/20 20:24	1
Sulfate	210		5.0	1.9	mg/L			04/22/20 18:25	5

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		04/14/20 09:33	04/22/20 12:56	1
Barium	0.044		0.010	0.0016	mg/L		04/14/20 09:33	04/22/20 12:56	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		04/14/20 09:33	04/22/20 12:56	1
Boron	0.061	J ^	0.080	0.039	mg/L		04/14/20 09:33	04/22/20 12:56	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		04/14/20 09:33	04/22/20 12:56	1
Calcium	41		0.50	0.13	mg/L		04/14/20 09:33	04/22/20 12:56	1
Chromium	0.0019	J	0.0020	0.0015	mg/L		04/14/20 09:33	04/22/20 12:56	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		04/14/20 09:33	04/22/20 12:56	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		04/14/20 09:33	04/22/20 12:56	1
Lead	<0.00013		0.0010	0.00013	mg/L		04/14/20 09:33	04/22/20 12:56	1
Antimony	<0.00038		0.0020	0.00038	mg/L		04/14/20 09:33	04/22/20 12:56	1
Selenium	0.0024	J	0.0050	0.0015	mg/L		04/14/20 09:33	04/22/20 12:56	1
Thallium	<0.00015		0.0010	0.00015	mg/L		04/14/20 09:33	04/22/20 12:56	1
Lithium	<0.0034		0.0050	0.0034	mg/L		04/14/20 09:33	04/22/20 12:56	1
Silver	<0.00018		0.0010	0.00018	mg/L		04/14/20 09:33	04/22/20 12:56	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		04/13/20 16:43	04/14/20 18:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	340		10	10	mg/L			04/11/20 08:52	1

QC Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Arkwright Ash Pond 3

Job ID: 180-104498-1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 180-313212/44
Matrix: Water
Analysis Batch: 313212

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.32		1.0	0.32	mg/L			04/18/20 23:23	1
Fluoride	<0.026		0.10	0.026	mg/L			04/18/20 23:23	1
Sulfate	<0.38		1.0	0.38	mg/L			04/18/20 23:23	1

Lab Sample ID: LCS 180-313212/43
Matrix: Water
Analysis Batch: 313212

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	50.6		mg/L		101	90 - 110
Fluoride	2.50	2.61		mg/L		105	90 - 110
Sulfate	50.0	51.4		mg/L		103	90 - 110

Lab Sample ID: MB 180-313354/39
Matrix: Water
Analysis Batch: 313354

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.32		1.0	0.32	mg/L			04/21/20 16:35	1
Fluoride	<0.026		0.10	0.026	mg/L			04/21/20 16:35	1
Sulfate	<0.38		1.0	0.38	mg/L			04/21/20 16:35	1

Lab Sample ID: LCS 180-313354/38
Matrix: Water
Analysis Batch: 313354

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	51.0		mg/L		102	90 - 110
Fluoride	2.50	2.66		mg/L		107	90 - 110
Sulfate	50.0	51.1		mg/L		102	90 - 110

Lab Sample ID: MB 180-313534/6
Matrix: Water
Analysis Batch: 313534

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<0.38		1.0	0.38	mg/L			04/22/20 15:22	1

Lab Sample ID: LCS 180-313534/5
Matrix: Water
Analysis Batch: 313534

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	50.0	49.7		mg/L		99	90 - 110

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Arkwright Ash Pond 3

Job ID: 180-104498-1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 180-313536/6
Matrix: Water
Analysis Batch: 313536

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.026		0.10	0.026	mg/L			04/22/20 16:10	1

Lab Sample ID: LCS 180-313536/5
Matrix: Water
Analysis Batch: 313536

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	2.50	2.40		mg/L		96	90 - 110

Method: EPA 6020B - Metals (ICP/MS)

Lab Sample ID: MB 180-312798/1-A
Matrix: Water
Analysis Batch: 313608

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 312798

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		04/14/20 09:33	04/22/20 10:51	1
Barium	<0.0016		0.010	0.0016	mg/L		04/14/20 09:33	04/22/20 10:51	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		04/14/20 09:33	04/22/20 10:51	1
Boron	<0.039		0.080	0.039	mg/L		04/14/20 09:33	04/22/20 10:51	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		04/14/20 09:33	04/22/20 10:51	1
Calcium	<0.13		0.50	0.13	mg/L		04/14/20 09:33	04/22/20 10:51	1
Chromium	<0.0015		0.0020	0.0015	mg/L		04/14/20 09:33	04/22/20 10:51	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		04/14/20 09:33	04/22/20 10:51	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		04/14/20 09:33	04/22/20 10:51	1
Lead	<0.00013		0.0010	0.00013	mg/L		04/14/20 09:33	04/22/20 10:51	1
Antimony	<0.00038		0.0020	0.00038	mg/L		04/14/20 09:33	04/22/20 10:51	1
Selenium	<0.0015		0.0050	0.0015	mg/L		04/14/20 09:33	04/22/20 10:51	1
Thallium	<0.00015		0.0010	0.00015	mg/L		04/14/20 09:33	04/22/20 10:51	1
Lithium	<0.0034		0.0050	0.0034	mg/L		04/14/20 09:33	04/22/20 10:51	1
Silver	<0.00018		0.0010	0.00018	mg/L		04/14/20 09:33	04/22/20 10:51	1

Lab Sample ID: LCS 180-312798/2-A
Matrix: Water
Analysis Batch: 313608

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 312798

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1.00	0.918		mg/L		92	80 - 120
Barium	1.00	0.891		mg/L		89	80 - 120
Beryllium	0.500	0.448		mg/L		90	80 - 120
Boron	1.25	1.16		mg/L		93	80 - 120
Cadmium	0.500	0.446		mg/L		89	80 - 120
Calcium	25.0	25.5		mg/L		102	80 - 120
Chromium	0.500	0.444		mg/L		89	80 - 120
Cobalt	0.500	0.445		mg/L		89	80 - 120
Molybdenum	0.500	0.453		mg/L		91	80 - 120
Lead	0.500	0.455		mg/L		91	80 - 120
Antimony	0.250	0.214		mg/L		86	80 - 120
Selenium	1.00	0.883		mg/L		88	80 - 120

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QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Arkwright Ash Pond 3

Job ID: 180-104498-1

Method: EPA 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 180-312798/2-A
Matrix: Water
Analysis Batch: 313608

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 312798

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Thallium	1.00	0.992		mg/L		99	80 - 120
Lithium	0.500	0.446		mg/L		89	80 - 120
Silver	0.250	0.219		mg/L		88	80 - 120

Lab Sample ID: 180-104498-1 MS
Matrix: Water
Analysis Batch: 313608

Client Sample ID: ARGWA-3
Prep Type: Total Recoverable
Prep Batch: 312798

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	<0.00031		1.00	0.907		mg/L		91	75 - 125
Barium	0.018		1.00	0.923		mg/L		90	75 - 125
Beryllium	<0.00018		0.500	0.449		mg/L		90	75 - 125
Boron	<0.039	^	1.25	1.14	^	mg/L		91	75 - 125
Cadmium	<0.00022		0.500	0.445		mg/L		89	75 - 125
Calcium	5.5		25.0	30.6		mg/L		100	75 - 125
Chromium	0.0023		0.500	0.439		mg/L		87	75 - 125
Cobalt	<0.00013		0.500	0.442		mg/L		88	75 - 125
Molybdenum	<0.00061		0.500	0.453		mg/L		91	75 - 125
Lead	<0.00013		0.500	0.453		mg/L		91	75 - 125
Antimony	<0.00038		0.250	0.215		mg/L		86	75 - 125
Selenium	<0.0015		1.00	0.880		mg/L		88	75 - 125
Thallium	<0.00015		1.00	0.987		mg/L		99	75 - 125
Lithium	<0.0034		0.500	0.435		mg/L		87	75 - 125
Silver	<0.00018		0.250	0.220		mg/L		88	75 - 125

Lab Sample ID: 180-104498-1 MSD
Matrix: Water
Analysis Batch: 313608

Client Sample ID: ARGWA-3
Prep Type: Total Recoverable
Prep Batch: 312798

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Arsenic	<0.00031		1.00	0.931		mg/L		93	75 - 125	3	20
Barium	0.018		1.00	0.944		mg/L		93	75 - 125	2	20
Beryllium	<0.00018		0.500	0.458		mg/L		92	75 - 125	2	20
Boron	<0.039	^	1.25	1.18	^	mg/L		95	75 - 125	4	20
Cadmium	<0.00022		0.500	0.456		mg/L		91	75 - 125	3	20
Calcium	5.5		25.0	31.4		mg/L		104	75 - 125	3	20
Chromium	0.0023		0.500	0.457		mg/L		91	75 - 125	4	20
Cobalt	<0.00013		0.500	0.453		mg/L		91	75 - 125	2	20
Molybdenum	<0.00061		0.500	0.465		mg/L		93	75 - 125	2	20
Lead	<0.00013		0.500	0.462		mg/L		92	75 - 125	2	20
Antimony	<0.00038		0.250	0.219		mg/L		88	75 - 125	2	20
Selenium	<0.0015		1.00	0.907		mg/L		91	75 - 125	3	20
Thallium	<0.00015		1.00	1.01		mg/L		101	75 - 125	2	20
Lithium	<0.0034		0.500	0.445		mg/L		89	75 - 125	2	20
Silver	<0.00018		0.250	0.225		mg/L		90	75 - 125	2	20

QC Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Arkwright Ash Pond 3

Job ID: 180-104498-1

Method: EPA 7470A - Mercury (CVAA)

Lab Sample ID: MB 180-312736/1-A
Matrix: Water
Analysis Batch: 312866

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 312736

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		04/13/20 16:39	04/14/20 17:25	1

Lab Sample ID: LCS 180-312736/2-A
Matrix: Water
Analysis Batch: 312866

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 312736
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00250	0.00243		mg/L		97	80 - 120

Lab Sample ID: MB 180-312737/1-A
Matrix: Water
Analysis Batch: 312866

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 312737

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		04/13/20 16:43	04/14/20 17:51	1

Lab Sample ID: LCS 180-312737/2-A
Matrix: Water
Analysis Batch: 312866

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 312737
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00250	0.00243		mg/L		97	80 - 120

Lab Sample ID: MB 180-312968/1-A
Matrix: Water
Analysis Batch: 313001

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 312968

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		04/15/20 15:19	04/15/20 18:47	1

Lab Sample ID: LCS 180-312968/2-A
Matrix: Water
Analysis Batch: 313001

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 312968
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00250	0.00250		mg/L		100	80 - 120

Lab Sample ID: 180-104498-14 MS
Matrix: Water
Analysis Batch: 313001

Client Sample ID: EB-1-4-9-20
Prep Type: Total/NA
Prep Batch: 312968
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	<0.00010		0.00100	0.000962		mg/L		96	75 - 125

Lab Sample ID: 180-104498-14 MSD
Matrix: Water
Analysis Batch: 313001

Client Sample ID: EB-1-4-9-20
Prep Type: Total/NA
Prep Batch: 312968
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	RPD Limit
Mercury	<0.00010		0.00100	0.000978		mg/L		98	75 - 125	2	20

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QC Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Arkwright Ash Pond 3

Job ID: 180-104498-1

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 180-312644/2
Matrix: Water
Analysis Batch: 312644

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L	-		04/11/20 08:52	1

Lab Sample ID: LCS 180-312644/1
Matrix: Water
Analysis Batch: 312644

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	242	234		mg/L	-	97	80 - 120

Lab Sample ID: 180-104498-7 DU
Matrix: Water
Analysis Batch: 312644

Client Sample ID: ARGWC-8
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	270		280		mg/L	-	3	10

Lab Sample ID: 180-104498-16 DU
Matrix: Water
Analysis Batch: 312644

Client Sample ID: DUP-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	340		363		mg/L	-	5	10

QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Arkwright Ash Pond 3

Job ID: 180-104498-1

HPLC/IC

Analysis Batch: 313212

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-104498-1	ARGWA-3	Total/NA	Water	EPA 300.0 R2.1	
180-104498-2	ARGWA-5	Total/NA	Water	EPA 300.0 R2.1	
180-104498-3	ARGWA-12	Total/NA	Ground Water	EPA 300.0 R2.1	
180-104498-4	ARGWA-13	Total/NA	Water	EPA 300.0 R2.1	
180-104498-4	ARGWA-13	Total/NA	Water	EPA 300.0 R2.1	
180-104498-5	ARGWA-14	Total/NA	Water	EPA 300.0 R2.1	
180-104498-6	ARGWC-7	Total/NA	Water	EPA 300.0 R2.1	
180-104498-7	ARGWC-8	Total/NA	Water	EPA 300.0 R2.1	
MB 180-313212/44	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-313212/43	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	

Analysis Batch: 313354

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-104498-8	ARGWC-9	Total/NA	Water	EPA 300.0 R2.1	
180-104498-9	ARGWC-10	Total/NA	Water	EPA 300.0 R2.1	
180-104498-10	ARGWC-15	Total/NA	Water	EPA 300.0 R2.1	
180-104498-11	ARGWC-16	Total/NA	Water	EPA 300.0 R2.1	
180-104498-12	ARGWC-17	Total/NA	Water	EPA 300.0 R2.1	
180-104498-13	ARGWC-18	Total/NA	Water	EPA 300.0 R2.1	
180-104498-14	EB-1-4-9-20	Total/NA	Water	EPA 300.0 R2.1	
180-104498-15	FB-1-4-7-20	Total/NA	Water	EPA 300.0 R2.1	
180-104498-16	DUP-1	Total/NA	Water	EPA 300.0 R2.1	
MB 180-313354/39	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-313354/38	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	

Analysis Batch: 313534

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-104498-11	ARGWC-16	Total/NA	Water	EPA 300.0 R2.1	
180-104498-16	DUP-1	Total/NA	Water	EPA 300.0 R2.1	
MB 180-313534/6	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-313534/5	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	

Analysis Batch: 313536

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-104498-14	EB-1-4-9-20	Total/NA	Water	EPA 300.0 R2.1	
MB 180-313536/6	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-313536/5	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	

Metals

Prep Batch: 312736

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-104498-5	ARGWA-14	Total/NA	Water	7470A	
MB 180-312736/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-312736/2-A	Lab Control Sample	Total/NA	Water	7470A	

Prep Batch: 312737

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-104498-1	ARGWA-3	Total/NA	Water	7470A	
180-104498-2	ARGWA-5	Total/NA	Water	7470A	
180-104498-3	ARGWA-12	Total/NA	Ground Water	7470A	

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QC Association Summary

Client: Southern Company
 Project/Site: CCR - Plant Arkwright Ash Pond 3

Job ID: 180-104498-1

Metals (Continued)

Prep Batch: 312737 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-104498-4	ARGWA-13	Total/NA	Water	7470A	
180-104498-8	ARGWC-9	Total/NA	Water	7470A	
180-104498-9	ARGWC-10	Total/NA	Water	7470A	
180-104498-10	ARGWC-15	Total/NA	Water	7470A	
180-104498-11	ARGWC-16	Total/NA	Water	7470A	
180-104498-12	ARGWC-17	Total/NA	Water	7470A	
180-104498-15	FB-1-4-7-20	Total/NA	Water	7470A	
180-104498-16	DUP-1	Total/NA	Water	7470A	
MB 180-312737/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-312737/2-A	Lab Control Sample	Total/NA	Water	7470A	

Prep Batch: 312798

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-104498-1	ARGWA-3	Total Recoverable	Water	3005A	
180-104498-2	ARGWA-5	Total Recoverable	Water	3005A	
180-104498-3	ARGWA-12	Total Recoverable	Ground Water	3005A	
180-104498-4	ARGWA-13	Total Recoverable	Water	3005A	
180-104498-5	ARGWA-14	Total Recoverable	Water	3005A	
180-104498-6	ARGWC-7	Total Recoverable	Water	3005A	
180-104498-7	ARGWC-8	Total Recoverable	Water	3005A	
180-104498-8	ARGWC-9	Total Recoverable	Water	3005A	
180-104498-9	ARGWC-10	Total Recoverable	Water	3005A	
180-104498-10	ARGWC-15	Total Recoverable	Water	3005A	
180-104498-11	ARGWC-16	Total Recoverable	Water	3005A	
180-104498-12	ARGWC-17	Total Recoverable	Water	3005A	
180-104498-13	ARGWC-18	Total Recoverable	Water	3005A	
180-104498-14	EB-1-4-9-20	Total Recoverable	Water	3005A	
180-104498-15	FB-1-4-7-20	Total Recoverable	Water	3005A	
180-104498-16	DUP-1	Total Recoverable	Water	3005A	
MB 180-312798/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-312798/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
180-104498-1 MS	ARGWA-3	Total Recoverable	Water	3005A	
180-104498-1 MSD	ARGWA-3	Total Recoverable	Water	3005A	

Analysis Batch: 312866

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-104498-1	ARGWA-3	Total/NA	Water	EPA 7470A	312737
180-104498-2	ARGWA-5	Total/NA	Water	EPA 7470A	312737
180-104498-3	ARGWA-12	Total/NA	Ground Water	EPA 7470A	312737
180-104498-4	ARGWA-13	Total/NA	Water	EPA 7470A	312737
180-104498-5	ARGWA-14	Total/NA	Water	EPA 7470A	312736
180-104498-8	ARGWC-9	Total/NA	Water	EPA 7470A	312737
180-104498-9	ARGWC-10	Total/NA	Water	EPA 7470A	312737
180-104498-10	ARGWC-15	Total/NA	Water	EPA 7470A	312737
180-104498-11	ARGWC-16	Total/NA	Water	EPA 7470A	312737
180-104498-12	ARGWC-17	Total/NA	Water	EPA 7470A	312737
180-104498-15	FB-1-4-7-20	Total/NA	Water	EPA 7470A	312737
180-104498-16	DUP-1	Total/NA	Water	EPA 7470A	312737
MB 180-312736/1-A	Method Blank	Total/NA	Water	EPA 7470A	312736
MB 180-312737/1-A	Method Blank	Total/NA	Water	EPA 7470A	312737
LCS 180-312736/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	312736

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QC Association Summary

Client: Southern Company
 Project/Site: CCR - Plant Arkwright Ash Pond 3

Job ID: 180-104498-1

Metals (Continued)

Analysis Batch: 312866 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 180-312737/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	312737

Prep Batch: 312968

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-104498-6	ARGWC-7	Total/NA	Water	7470A	
180-104498-7	ARGWC-8	Total/NA	Water	7470A	
180-104498-13	ARGWC-18	Total/NA	Water	7470A	
180-104498-14	EB-1-4-9-20	Total/NA	Water	7470A	
MB 180-312968/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-312968/2-A	Lab Control Sample	Total/NA	Water	7470A	
180-104498-14 MS	EB-1-4-9-20	Total/NA	Water	7470A	
180-104498-14 MSD	EB-1-4-9-20	Total/NA	Water	7470A	

Analysis Batch: 313001

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-104498-6	ARGWC-7	Total/NA	Water	EPA 7470A	312968
180-104498-7	ARGWC-8	Total/NA	Water	EPA 7470A	312968
180-104498-13	ARGWC-18	Total/NA	Water	EPA 7470A	312968
180-104498-14	EB-1-4-9-20	Total/NA	Water	EPA 7470A	312968
MB 180-312968/1-A	Method Blank	Total/NA	Water	EPA 7470A	312968
LCS 180-312968/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	312968
180-104498-14 MS	EB-1-4-9-20	Total/NA	Water	EPA 7470A	312968
180-104498-14 MSD	EB-1-4-9-20	Total/NA	Water	EPA 7470A	312968

Analysis Batch: 313608

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-104498-1	ARGWA-3	Total Recoverable	Water	EPA 6020B	312798
180-104498-2	ARGWA-5	Total Recoverable	Water	EPA 6020B	312798
180-104498-3	ARGWA-12	Total Recoverable	Ground Water	EPA 6020B	312798
180-104498-4	ARGWA-13	Total Recoverable	Water	EPA 6020B	312798
180-104498-5	ARGWA-14	Total Recoverable	Water	EPA 6020B	312798
180-104498-6	ARGWC-7	Total Recoverable	Water	EPA 6020B	312798
180-104498-7	ARGWC-8	Total Recoverable	Water	EPA 6020B	312798
180-104498-8	ARGWC-9	Total Recoverable	Water	EPA 6020B	312798
180-104498-9	ARGWC-10	Total Recoverable	Water	EPA 6020B	312798
180-104498-10	ARGWC-15	Total Recoverable	Water	EPA 6020B	312798
180-104498-11	ARGWC-16	Total Recoverable	Water	EPA 6020B	312798
180-104498-12	ARGWC-17	Total Recoverable	Water	EPA 6020B	312798
180-104498-13	ARGWC-18	Total Recoverable	Water	EPA 6020B	312798
180-104498-14	EB-1-4-9-20	Total Recoverable	Water	EPA 6020B	312798
180-104498-15	FB-1-4-7-20	Total Recoverable	Water	EPA 6020B	312798
180-104498-16	DUP-1	Total Recoverable	Water	EPA 6020B	312798
MB 180-312798/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	312798
LCS 180-312798/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	312798
180-104498-1 MS	ARGWA-3	Total Recoverable	Water	EPA 6020B	312798
180-104498-1 MSD	ARGWA-3	Total Recoverable	Water	EPA 6020B	312798

QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Arkwright Ash Pond 3

Job ID: 180-104498-1

General Chemistry

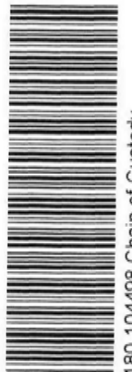
Analysis Batch: 312644

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-104498-1	ARGWA-3	Total/NA	Water	SM 2540C	
180-104498-2	ARGWA-5	Total/NA	Water	SM 2540C	
180-104498-3	ARGWA-12	Total/NA	Ground Water	SM 2540C	
180-104498-4	ARGWA-13	Total/NA	Water	SM 2540C	
180-104498-5	ARGWA-14	Total/NA	Water	SM 2540C	
180-104498-6	ARGWC-7	Total/NA	Water	SM 2540C	
180-104498-7	ARGWC-8	Total/NA	Water	SM 2540C	
180-104498-8	ARGWC-9	Total/NA	Water	SM 2540C	
180-104498-9	ARGWC-10	Total/NA	Water	SM 2540C	
180-104498-10	ARGWC-15	Total/NA	Water	SM 2540C	
180-104498-11	ARGWC-16	Total/NA	Water	SM 2540C	
180-104498-12	ARGWC-17	Total/NA	Water	SM 2540C	
180-104498-13	ARGWC-18	Total/NA	Water	SM 2540C	
180-104498-14	EB-1-4-9-20	Total/NA	Water	SM 2540C	
180-104498-15	FB-1-4-7-20	Total/NA	Water	SM 2540C	
180-104498-16	DUP-1	Total/NA	Water	SM 2540C	
MB 180-312644/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-312644/1	Lab Control Sample	Total/NA	Water	SM 2540C	
180-104498-7 DU	ARGWC-8	Total/NA	Water	SM 2540C	
180-104498-16 DU	DUP-1	Total/NA	Water	SM 2540C	

Field Service / Mobile Lab

Analysis Batch: 313430

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-104498-1	ARGWA-3	Total/NA	Water	Field Sampling	
180-104498-2	ARGWA-5	Total/NA	Water	Field Sampling	
180-104498-3	ARGWA-12	Total/NA	Ground Water	Field Sampling	
180-104498-4	ARGWA-13	Total/NA	Water	Field Sampling	
180-104498-5	ARGWA-14	Total/NA	Water	Field Sampling	
180-104498-6	ARGWC-7	Total/NA	Water	Field Sampling	
180-104498-7	ARGWC-8	Total/NA	Water	Field Sampling	
180-104498-8	ARGWC-9	Total/NA	Water	Field Sampling	
180-104498-9	ARGWC-10	Total/NA	Water	Field Sampling	
180-104498-10	ARGWC-15	Total/NA	Water	Field Sampling	
180-104498-11	ARGWC-16	Total/NA	Water	Field Sampling	
180-104498-12	ARGWC-17	Total/NA	Water	Field Sampling	
180-104498-13	ARGWC-18	Total/NA	Water	Field Sampling	

Client Information Client Contact: Joiu Abraham Company: Southern Company Address: PO BOX 2641 GSC8 City: Birmingham State, Zip: AL, 35291 Phone: _____ Email: JAbraham@southernco.com Project Name: CCR Plant Arkwright - Ash Pond 3 - 1st 2020 SA GWM Site: Georgia		Lab PM: Veronica Bortot E-Mail: Veronica.Bortot@testamerica.com Carrier Tracking No(s): _____ Preservation Codes: _____ Barcode:  180-104498 Chain of Custody										
Due Date Requested: _____ TAT Requested (days): _____ PO #: SCS10347656 WO #: _____ Project #: 40007712 SSOW#: _____		Analysis Requested Metals - App III (Boron, Calcium) <input checked="" type="checkbox"/> 300_ORGFM_28D - Chloride, Fluoride & Sulfate, 2540C - Selenium State Metals (Arsenic, Barium, Cadmium, Lead, Silver, and Molybdenum, Selenium, Thallium) <input checked="" type="checkbox"/> Detected A4: Metals (Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Lead, Lithium, Molybdenum, Selenium, Thallium) <input checked="" type="checkbox"/> Detected A4: Radium 226 & 228 (SW-846 9315/9320) <input checked="" type="checkbox"/>										
Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=wastewater, BT=tissue, A=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Metals - App III (Boron, Calcium)	300_ORGFM_28D - Chloride, Fluoride & Sulfate, 2540C - Selenium	Detected A4: Radium 226 & 228 (SW-846 9315/9320)	Detected A4: Metals (Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Lead, Lithium, Molybdenum, Selenium, Thallium)	Total Number of containers	Special Instructions/Note:
ARGWA-3	4-7-20	1045	G	Water	N	N	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	3	pH = 5.90
ARGWA-5	4-7-20	1146	G	Water	N	N	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	3	pH = 5.86
ARGWA-12	4-7-20	1346	G	Water	N	N	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	3	pH = 5.91
ARGWA-13	4-7-20	1532	G	Water	N	N	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	3	pH = 5.84
ARGWA-14	4-6-20	1557	G	Water	N	N	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	3	pH = 5.90
ARGWC-7	4-8-20	0955	G	Water	N	N	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	4	pH = 5.75 Extra Red
ARGWC-8	4-9-20	1235	G	Water	N	N	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	3	pH = 6.42
ARGWC-9	4-9-20	1025	G	Water	N	N	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	3	pH = 5.90
ARGWC-10	4-8-20	1709	G	Water	N	N	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	3	pH = 5.95
ARGWC-15	4-8-20	1615	G	Water	N	N	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	3	pH = 6.26
ARGWC-16	4-8-20	1115	G	Water	N	N	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	3	pH = 5.07

Special Hazard Identification: Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological

Deliverable Requested: I, II, III, IV, Other (specify) _____

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): Return To Client Disposal By Lab Archive For _____ Months

Special Instructions/QC Requirements: _____

Empty Kit Relinquished by: _____ Date: _____ Time: _____ Method of Shipment: _____

Relinquished by: *Joiu Abraham* Date/Time: **4-9-20 1503** Company: **ACC**

Relinquished by: *Joiu Abraham* Date/Time: **4-9-20 1504** Company: _____

Relinquished by: _____ Date/Time: _____ Company: _____

Custody Seal Intact: Yes No Custody Seal No.: _____

Cooler Temperature(s) °C and Other Remarks: _____



Client Information Client Contact: Joju Abraham Company: Southern Company Address: PO BOX 2641 GSC8 City: Birmingham State, Zip: AL, 35291 Phone: [Redacted] Email: JAbraham@southernco.com Project Name: CCR Plant Arkwright - Ash Pond 3 - 1st 2020 SA GWM Site: Georgia		Lab PM: Veronica Bofet E-Mail: Veronica.Bofet@testamerica.com Carrier Tracking No(s): COC No: 400-73521-29028.1 Page: [Redacted] Job #: [Redacted]	
Due Date Requested: TAT Requested (days): PO #: SCS10347656 WO #: Project #: 40007712 SSOW #:		Analysis Requested Detected A4: Metals (Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Lead, Lithium, Molybdenum, Selenium, Thallium) Detected A4: Radium 226 & 228 (SW-846 9315/9320) State Metals (Arsenic, Barium, Cadmium, Lead, Silver, and Selenium) 300_ORGFM_28D - Chloride, Fluoride & Sulfate, 2540C - TDS Metals - App III (Boron, Calcium) Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/>	
Sample Identification Sample Date Sample Time Sample Type (C=Comp, G=grab) Matrix (W=water, S=solid, O=wastefoil, BT=tissue, A=air) Preservation Code		Total Number of containers Special Instructions/Note: pH = 5.02 pH = 5.93 pH = pH = pH = pH = pH = pH = pH = pH = pH =	
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested: I, II, III, IV, Other (specify)		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months Special Instructions/QC Requirements:	
Empty Kit Relinquished by: Relinquished by: [Signature] Relinquished by: [Signature] Relinquished by: [Signature]		Method of Shipment: Date/Time: 4-9-20 1503 Date/Time: 4-9-20 1509 Date/Time:	
Custody Seals Intact: Δ Yes Δ No		Cooler Temperature(s) °C and Other Remarks:	

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



TestAmerica

SHIP DATE: 09APR20
ACTWGT: 61.75 LB
CAD: 859116/CAFE3313

15.00

BILL RECIPIENT

ORIGIN ID: LIYA (678) 966-9991

GEORGE TAYLOR
EUROFINS TESTAMERICA
6500 McDONOUGH DRIVE
SUITE C-10
NORCROSS, GA 30093
UNITED STATES US

TO SAMPLE RECEIVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238

(412) 963-7068
REF: ACC



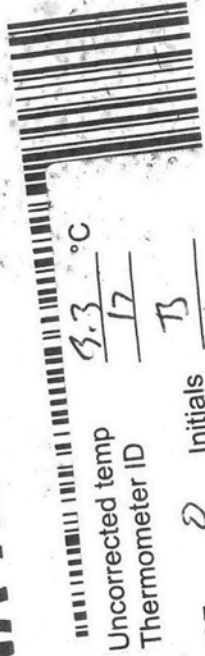
FRI - 10 APR 3:00P
STANDARD OVERNIGHT

2 of 4

MPS# 1516 9323 3439
Mstr# 1516 9323 3428

NA AGCA

15238
PA-US
PIT



3.3 °C

Uncorrected temp
Thermometer ID

CF 0 Initials BS

PT-WI-SR-001 effective 7/26/13

TestAmerica

SHIP DA
ACTWGT: 85
CAD: 85

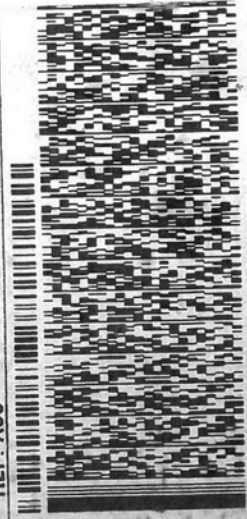
BILL REC

ORIGIN ID: LIYA (678) 966-9991

GEORGE TAYLOR
EUROFINS TESTAMERICA
6500 McDONOUGH DRIVE
SUITE C-10
NORCROSS, GA 30093
UNITED STATES US

TO SAMPLE RECEIVING
EUROFINS TESTAMERICA PITTSB
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238

(412) 963-7068
REF: ACC



FRI -
STANDAF

4 of 4

MPS# 1516 9323 3450
Mstr# 1516 9323 3428

NA AGCA

1.2 °C

Uncorrected temp
Thermometer ID

CF 0 Initials BS

PT-WI-SR-001 effective 7/26/13



180-104498 Waybill

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eurofins

15:00
3428
04/10
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ORIGIN ID: LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTAMERICA
6500 McDONOUGH DRIVE
SUITE C-10
NORCROSS, GA 30093
UNITED STATES US

SHIP DATE: 09APR20
ACT WT: 61.75 LB
CAD: 859116/CAFE3313

BILL RECIPIENT

TO SAMPLE RECEIVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238
(412) 963-7068
REF: ACC

FedEx
Express
E



1 of 4
TRK# 1516 9323 3428
0201
MASTER ##
FRI - 10 APR 3:00P
STANDARD OVERNIGHT

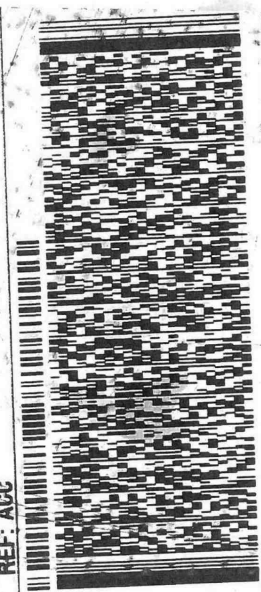
NA AGCA

15238
PA-US
PIT

Uncorrected temp 23 °C
Thermometer ID 17

ORIGIN ID: LIYA
GEORGE TAYLOR
EUROFINS TESTAMERICA
6500 McDONOUGH DRIVE
SUITE C-10
NORCROSS, GA 30093
UNITED STATES US

TO SAMPLE RECEIVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238
(412) 963-7068
REF: ACC



3 of 4
MPS# 1516 9323 3440
0263
Mstr# 1516 9323 3428
FRI - 10
STANDARD C

NA AGCA

Uncorrected temp 23 °C
Thermometer ID 17
CF Initials JS



PT-WI-SR-001 effective 7/26/13

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- 10
- 11
- 12
- 13

Chain of Custody Record



Client Information (Sub Contract Lab)		Lab PM:	Carrier Tracking No(s):	COC No:								
Client Contact: Shipping/Receiving		Bortol, Veronica		180-390690-1								
Company: TestAmerica Laboratories, Inc.		E-Mail: veronica.bortol@testamericainc.com	State of Origin: Georgia	Page: Page 1 of 2								
Address: 13715 Rider Trail North,		Accreditations Required (See note): 180-104498-1										
City: Earth City	Due Date Requested: 4/22/2020	Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Ascelone V - MCAA W - pH 4-5 L - EDTA Z - other (specify)										
State/Zip: MO, 63045	TAT Requested (days):	Analysis Requested										
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:	Total Number of Containers										
Email:	WO #:	Field Filtered Sample (Yes or No)										
Project Name: CCR - Plant Arkwright Ash Pond 3	Project #: 18020201	Perform M/MSD (Yes or No)										
Site: Arkwright	SOW#:	9320_Ra228/PreSep_0 Radium 228										
		9315_Ra226/PreSep_21 Radium 226										
		Ra226Ra228_GFPc										
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=wastewater, BT=tissue, A=air)	Preservation Code:	Field Filtered Sample (Yes or No)	Perform M/MSD (Yes or No)	9320_Ra228/PreSep_0 Radium 228	9315_Ra226/PreSep_21 Radium 226	Ra226Ra228_GFPc	Total Number of Containers	Special Instructions/Note:
ARGWA-3 (180-104498-1)	4/7/20	10:45 Eastern	Water	Water		X	X	X	X		1	
ARGWA-5 (180-104498-2)	4/7/20	11:46 Eastern	Water	Water		X	X	X	X		1	
ARGWA-12 (180-104498-3)	4/7/20	13:46 Eastern	Water	Water		X	X	X	X		1	
ARGWA-13 (180-104498-4)	4/7/20	15:32 Eastern	Water	Water		X	X	X	X		1	
ARGWA-14 (180-104498-5)	4/6/20	15:57 Eastern	Water	Water		X	X	X	X		1	
ARGWC-7 (180-104498-6)	4/8/20	09:55 Eastern	Water	Water		X	X	X	X		2	
ARGWC-8 (180-104498-7)	4/9/20	12:35 Eastern	Water	Water		X	X	X	X		1	
ARGWC-9 (180-104498-8)	4/9/20	10:25 Eastern	Water	Water		X	X	X	X		1	
ARGWC-10 (180-104498-9)	4/8/20	17:09 Eastern	Water	Water		X	X	X	X		1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

Possible Hazard Identification
 Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2
 Empty Kit Relinquished by: _____ Date: _____
 Relinquished by: _____ Date: 4/13/20 12:00
 Relinquished by: FED EX Date: 4/13/20 12:00
 Relinquished by: _____ Date: _____
 Custody Seals Intact: _____ Custody Seal No.: _____
 Δ Yes Δ No

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months
 Special Instructions/QC Requirements:

Received by: _____ Date: _____
 Received by: _____ Date: 4/14/20 09:19
 Received by: _____ Date: _____
 Company: _____
 Company: ETA
 Company: _____
 Cooler Temperature(s) °C and Other Remarks:

Chain of Custody Record



Client Information (Sub Contract Lab)		Lab PM: Bortol, Veronica	Carrier Tracking No(s): 180-390690.2								
Client Contact: Shipping/Receiving		E-Mail: veronica.bortol@testamericainc.com	State of Origin: Georgia								
Company: TestAmerica Laboratories, Inc.		Page: Page 2 of 2									
Address: 13715 Rider Trail North,		Job #: 180-104498-1									
City: Earth City	Due Date Requested: 4/22/2020	Preservation Codes:									
State, Zip: MO, 63045	TAT Requested (days):	A - HCL M - Hexane B - NaOH N - None O - AsNaO2 C - Zn Acetate P - Nitric Acid D - Nitric Acid E - NaHSO4 Q - Na2SO3 F - MeOH R - H2SO4 G - Amchlor S - H2SO4 H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA V - MCAA W - pH 4.5 Z - other (specify)									
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:	Other:									
Email:	WO #:										
Project Name: CCR - Plant Arkwright Ash Pond 3	Project #: 18020201										
Site: Arkwright	SSOW#:										
Sample Identification - Client ID (Lab ID)											
ARGWC-15 (180-104498-10)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastefoil, BT=tissue, A=AU)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9320_Ra228/PreSep_0 Radium 228	9315_Ra226/PreSep_21 Radium 226	Ra226Ra228_GFPc	Total Number of containers	Special Instructions/Note:
	4/8/20	16:15 Eastern	Water	Water	X	X	X	X		1	
	4/8/20	11:15 Eastern	Water	Water	X	X	X	X		1	
	4/8/20	14:30 Eastern	Water	Water	X	X	X	X		1	
	4/9/20	09:40 Eastern	Water	Water	X	X	X	X		1	
	4/9/20	10:40 Eastern	Water	Water	X	X	X	X		1	
	4/7/20	16:00 Eastern	Water	Water	X	X	X	X		1	
	4/8/20	Eastern	Water	Water	X	X	X	X		1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the labo

Possible Hazard Identification
 Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2

Empty Kit Relinquished by: [Signature] Date: 4/13/20 17:00
 Relinquished by: [Signature] Date/Time: 4/13/20 17:00
 Relinquished by: [Signature] Date/Time: 4/13/20 17:00
 Relinquished by: [Signature] Date/Time: 4/13/20 17:00

Received by: [Signature] Date/Time: 4/13/20 09:11
 Received by: [Signature] Date/Time: 4/13/20 09:11
 Received by: [Signature] Date/Time: 4/13/20 09:11

Company: [Signature] Company: [Signature] Company: [Signature]

Special Instructions/OC Requirements:
 Return To Client Disposal By Lab Archive For _____ Months

Cooler Temperature(s) °C and Other Remarks:

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-104498-1

Login Number: 104498

List Source: Eurofins TestAmerica, Pittsburgh

List Number: 1

Creator: Say, Thomas C

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

Eurofins TestAmerica, Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

Laboratory Job ID: 180-104498-2

Client Project/Site: CCR - Plant Arkwright Ash Pond 3

For:

Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Attn: Joju Abraham



Authorized for release by:
5/11/2020 1:53:40 PM

Shali Brown, Project Manager II
(615)301-5031
shali.brown@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:

www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

PA Lab ID: 02-00416



Table of Contents

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Case Narrative

Client: Southern Company
Project/Site: CCR - Plant Arkwright Ash Pond 3

Job ID: 180-104498-2

Job ID: 180-104498-2

Laboratory: Eurofins TestAmerica, Pittsburgh

Narrative

Job Narrative 180-104498-2

Receipt

The samples were received on 4/10/2020 8:15 AM; the samples arrived in good condition, properly preserved, and where required, on ice. The temperatures of the 4 coolers at receipt time were 1.2°C, 1.3°C, 2.3°C and 3.3°C

Department Gas Flow Proportional Counter

Method 9315_Ra226: Radium 226 Prep Batch 160-467819:

Insufficient sample volume was available to perform a sample duplicate for the following samples: ARGWA-3 (180-104498-1), ARGWA-5 (180-104498-2), ARGWA-12 (180-104498-3), ARGWA-13 (180-104498-4), ARGWA-14 (180-104498-5), ARGWC-7 (180-104498-6), ARGWC-8 (180-104498-7), ARGWC-9 (180-104498-8), ARGWC-10 (180-104498-9), ARGWC-15 (180-104498-10), ARGWC-16 (180-104498-11), ARGWC-17 (180-104498-12), ARGWC-18 (180-104498-13), EB-1-4-9-20 (180-104498-14), FB-1-4-7-20 (180-104498-15) and DUP-1 (180-104498-16). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision

Method 9315_Ra226: Ra-226 Prep Batch 160-467819

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative.

Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

ARGWA-3 (180-104498-1), ARGWA-5 (180-104498-2), ARGWA-12 (180-104498-3), ARGWA-13 (180-104498-4), ARGWA-14 (180-104498-5), ARGWC-7 (180-104498-6), ARGWC-8 (180-104498-7), ARGWC-9 (180-104498-8), ARGWC-10 (180-104498-9), ARGWC-15 (180-104498-10), ARGWC-16 (180-104498-11), ARGWC-17 (180-104498-12), ARGWC-18 (180-104498-13), EB-1-4-9-20 (180-104498-14), FB-1-4-7-20 (180-104498-15), DUP-1 (180-104498-16), (LCS 160-467819/1-A), (LCSD 160-467819/2-A) and (MB 160-467819/23-

Method 9320_Ra228: Radium 228 Prep Batch 160-467826:

Insufficient sample volume was available to perform a sample duplicate for the following samples: ARGWA-3 (180-104498-1), ARGWA-5 (180-104498-2), ARGWA-12 (180-104498-3), ARGWA-13 (180-104498-4), ARGWA-14 (180-104498-5), ARGWC-7 (180-104498-6), ARGWC-8 (180-104498-7), ARGWC-9 (180-104498-8), ARGWC-10 (180-104498-9), ARGWC-15 (180-104498-10), ARGWC-16 (180-104498-11), ARGWC-17 (180-104498-12), ARGWC-18 (180-104498-13), EB-1-4-9-20 (180-104498-14), FB-1-4-7-20 (180-104498-15) and DUP-1 (180-104498-16). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision

Method 9320_Ra228: Ra-228 Prep Batch 160-467826

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative.

Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

ARGWA-3 (180-104498-1), ARGWA-5 (180-104498-2), ARGWA-12 (180-104498-3), ARGWA-13 (180-104498-4), ARGWA-14 (180-104498-5), ARGWC-7 (180-104498-6), ARGWC-8 (180-104498-7), ARGWC-9 (180-104498-8), ARGWC-10 (180-104498-9), ARGWC-15 (180-104498-10), ARGWC-16 (180-104498-11), ARGWC-17 (180-104498-12), ARGWC-18 (180-104498-13), EB-1-4-9-20 (180-104498-14), FB-1-4-7-20 (180-104498-15), DUP-1 (180-104498-16), (LCS 160-467826/1-A), (LCSD 160-467826/2-A) and (MB 160-467826/23-

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Department Rad

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Definitions/Glossary

Client: Southern Company
Project/Site: CCR - Plant Arkwright Ash Pond 3

Job ID: 180-104498-2

Qualifiers

Rad

Qualifier	Qualifier Description
U	Result is less than the sample detection limit.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: Southern Company
 Project/Site: CCR - Plant Arkwright Ash Pond 3

Job ID: 180-104498-2

Laboratory: Eurofins TestAmerica, Pittsburgh

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	19-033-0	06-27-20
California	State	2891	04-30-20 *
Connecticut	State	PH-0688	09-30-20
Florida	NELAP	E871008	06-30-20
Georgia	State	PA 02-00416	04-30-20 *
Illinois	NELAP	004375	06-30-20
Kansas	NELAP	E-10350	01-31-21
Kentucky (UST)	State	162013	04-30-20 *
Kentucky (WW)	State	KY98043	12-31-20
Louisiana	NELAP	04041	06-30-20
Maine	State	PA00164	03-06-22
Minnesota	NELAP	042-999-482	12-31-20
Nevada	State	PA00164	07-31-20
New Hampshire	NELAP	2030	04-05-21
New Jersey	NELAP	PA005	06-30-20
New York	NELAP	11182	04-01-21
North Carolina (WW/SW)	State	434	01-01-21
North Dakota	State	R-227	04-30-20 *
Oregon	NELAP	PA-2151	02-06-21
Pennsylvania	NELAP	02-00416	04-30-21
Rhode Island	State	LAO00362	12-31-20
South Carolina	State	89014	04-30-20 *
Texas	NELAP	T104704528	03-31-21
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	Federal	P-Soil-01	06-26-22
USDA	US Federal Programs	P330-16-00211	06-26-22
Utah	NELAP	PA001462019-8	05-31-20
Virginia	NELAP	10043	09-15-20
West Virginia DEP	State	142	02-01-21
Wisconsin	State	998027800	08-31-20

* Accreditation/Certification renewal pending - accreditation/certification considered valid.



Accreditation/Certification Summary

Client: Southern Company
 Project/Site: CCR - Plant Arkwright Ash Pond 3

Job ID: 180-104498-2

Laboratory: Eurofins TestAmerica, St. Louis

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-001	05-06-22
ANAB	Dept. of Defense ELAP	L2305	04-06-22
ANAB	Dept. of Energy	L2305.01	04-06-22
ANAB	ISO/IEC 17025	L2305	04-06-22
Arizona	State	AZ0813	12-08-20
California	Los Angeles County Sanitation Districts	10259	06-30-20
California	State	2886	06-30-20
Connecticut	State	PH-0241	03-31-21
Florida	NELAP	E87689	06-30-20
HI - RadChem Recognition	State	n/a	06-30-20
Illinois	NELAP	004553	11-30-20
Iowa	State	373	09-17-20
Kansas	NELAP	E-10236	10-31-20
Kentucky (DW)	State	KY90125	12-31-20
Louisiana	NELAP	04080	06-30-20
Louisiana (DW)	State	LA011	12-31-20
Maryland	State	310	09-30-20
MI - RadChem Recognition	State	9005	06-30-20
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	07-31-20
New Jersey	NELAP	MO002	06-30-20
New York	NELAP	11616	04-01-21
North Dakota	State	R-207	06-30-20
NRC	NRC	24-24817-01	12-31-22
Oklahoma	State	9997	08-31-20
Pennsylvania	NELAP	68-00540	02-28-21
South Carolina	State	85002001	06-30-20
Texas	NELAP	T104704193-19-13	07-31-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542019-11	07-31-20
Virginia	NELAP	10310	06-14-20
Washington	State	C592	08-30-20
West Virginia DEP	State	381	10-31-20

Sample Summary

Client: Southern Company
Project/Site: CCR - Plant Arkwright Ash Pond 3

Job ID: 180-104498-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
180-104498-1	ARGWA-3	Water	04/07/20 10:45	04/10/20 08:15	
180-104498-2	ARGWA-5	Water	04/07/20 11:46	04/10/20 08:15	
180-104498-3	ARGWA-12	Ground Water	04/07/20 13:46	04/10/20 08:15	
180-104498-4	ARGWA-13	Water	04/07/20 15:32	04/10/20 08:15	
180-104498-5	ARGWA-14	Water	04/06/20 15:57	04/10/20 08:15	
180-104498-6	ARGWC-7	Water	04/08/20 09:55	04/10/20 08:15	
180-104498-7	ARGWC-8	Water	04/09/20 12:35	04/10/20 08:15	
180-104498-8	ARGWC-9	Water	04/09/20 10:25	04/10/20 08:15	
180-104498-9	ARGWC-10	Water	04/08/20 17:09	04/10/20 08:15	
180-104498-10	ARGWC-15	Water	04/08/20 16:15	04/10/20 08:15	
180-104498-11	ARGWC-16	Water	04/08/20 11:15	04/10/20 08:15	
180-104498-12	ARGWC-17	Water	04/08/20 14:30	04/10/20 08:15	
180-104498-13	ARGWC-18	Water	04/09/20 09:40	04/10/20 08:15	
180-104498-14	EB-1-4-9-20	Water	04/09/20 10:40	04/10/20 08:15	
180-104498-15	FB-1-4-7-20	Water	04/07/20 16:00	04/10/20 08:15	
180-104498-16	DUP-1	Water	04/08/20 00:00	04/10/20 08:15	

Method Summary

Client: Southern Company
Project/Site: CCR - Plant Arkwright Ash Pond 3

Job ID: 180-104498-2

Method	Method Description	Protocol	Laboratory
9315	Radium-226 (GFPC)	SW846	TAL SL
9320	Radium-228 (GFPC)	SW846	TAL SL
Ra226_Ra228	Combined Radium-226 and Radium-228	TAL-STL	TAL SL
PrecSep_0	Preparation, Precipitate Separation	None	TAL SL
PrecSep-21	Preparation, Precipitate Separation (21-Day In-Growth)	None	TAL SL

Protocol References:

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

Laboratory References:

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Arkwright Ash Pond 3

Job ID: 180-104498-2

Client Sample ID: ARGWA-3

Lab Sample ID: 180-104498-1

Date Collected: 04/07/20 10:45

Matrix: Water

Date Received: 04/10/20 08:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.68 mL	1.0 g	467819	04/15/20 08:55	RBR	TAL SL
Total/NA	Analysis	9315		1			469780	05/07/20 04:26	CJQ	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.68 mL	1.0 g	467826	04/15/20 09:44	RBR	TAL SL
Total/NA	Analysis	9320		1			469050	04/28/20 18:41	KLS	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			469790	05/07/20 09:36	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: ARGWA-5

Lab Sample ID: 180-104498-2

Date Collected: 04/07/20 11:46

Matrix: Water

Date Received: 04/10/20 08:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.39 mL	1.0 g	467819	04/15/20 08:55	RBR	TAL SL
Total/NA	Analysis	9315		1			469780	05/07/20 04:27	CJQ	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.39 mL	1.0 g	467826	04/15/20 09:44	RBR	TAL SL
Total/NA	Analysis	9320		1			469050	04/28/20 18:41	KLS	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			469790	05/07/20 09:36	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: ARGWA-12

Lab Sample ID: 180-104498-3

Date Collected: 04/07/20 13:46

Matrix: Ground Water

Date Received: 04/10/20 08:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.31 mL	1.0 g	467819	04/15/20 08:55	RBR	TAL SL
Total/NA	Analysis	9315		1			469780	05/07/20 04:27	CJQ	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.31 mL	1.0 g	467826	04/15/20 09:44	RBR	TAL SL
Total/NA	Analysis	9320		1			469050	04/28/20 18:41	KLS	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			469790	05/07/20 09:36	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: ARGWA-13

Lab Sample ID: 180-104498-4

Date Collected: 04/07/20 15:32

Matrix: Water

Date Received: 04/10/20 08:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.36 mL	1.0 g	467819	04/15/20 08:55	RBR	TAL SL
Total/NA	Analysis	9315		1			469780	05/07/20 04:27	CJQ	TAL SL
Instrument ID: GFPCBLUE										

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Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Arkwright Ash Pond 3

Job ID: 180-104498-2

Client Sample ID: ARGWA-13

Date Collected: 04/07/20 15:32

Date Received: 04/10/20 08:15

Lab Sample ID: 180-104498-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep_0			1000.36 mL	1.0 g	467826	04/15/20 09:44	RBR	TAL SL
Total/NA	Analysis	9320		1			469050	04/28/20 18:41	KLS	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			469790	05/07/20 09:36	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: ARGWA-14

Date Collected: 04/06/20 15:57

Date Received: 04/10/20 08:15

Lab Sample ID: 180-104498-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.53 mL	1.0 g	467819	04/15/20 08:55	RBR	TAL SL
Total/NA	Analysis	9315		1			469780	05/07/20 04:27	CJQ	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.53 mL	1.0 g	467826	04/15/20 09:44	RBR	TAL SL
Total/NA	Analysis	9320		1			469050	04/28/20 18:42	KLS	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			469790	05/07/20 09:36	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: ARGWC-7

Date Collected: 04/08/20 09:55

Date Received: 04/10/20 08:15

Lab Sample ID: 180-104498-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.61 mL	1.0 g	467819	04/15/20 08:55	RBR	TAL SL
Total/NA	Analysis	9315		1			469780	05/07/20 04:27	CJQ	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.61 mL	1.0 g	467826	04/15/20 09:44	RBR	TAL SL
Total/NA	Analysis	9320		1			469050	04/28/20 18:42	KLS	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			469790	05/07/20 09:36	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: ARGWC-8

Date Collected: 04/09/20 12:35

Date Received: 04/10/20 08:15

Lab Sample ID: 180-104498-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.99 mL	1.0 g	467819	04/15/20 08:55	RBR	TAL SL
Total/NA	Analysis	9315		1			469780	05/07/20 04:27	CJQ	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.99 mL	1.0 g	467826	04/15/20 09:44	RBR	TAL SL
Total/NA	Analysis	9320		1			469050	04/28/20 18:42	KLS	TAL SL
Instrument ID: GFPCPURPLE										

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Lab Chronicle

Client: Southern Company
 Project/Site: CCR - Plant Arkwright Ash Pond 3

Job ID: 180-104498-2

Client Sample ID: ARGWC-8

Lab Sample ID: 180-104498-7

Date Collected: 04/09/20 12:35

Matrix: Water

Date Received: 04/10/20 08:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Ra226_Ra228		1			469790	05/07/20 09:36	SMP	TAL SL

Client Sample ID: ARGWC-9

Lab Sample ID: 180-104498-8

Date Collected: 04/09/20 10:25

Matrix: Water

Date Received: 04/10/20 08:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.89 mL	1.0 g	467819	04/15/20 08:55	RBR	TAL SL
Total/NA	Analysis	9315		1			469780	05/07/20 04:27	CJQ	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.89 mL	1.0 g	467826	04/15/20 09:44	RBR	TAL SL
Total/NA	Analysis	9320		1			469050	04/28/20 18:42	KLS	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			469790	05/07/20 09:36	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: ARGWC-10

Lab Sample ID: 180-104498-9

Date Collected: 04/08/20 17:09

Matrix: Water

Date Received: 04/10/20 08:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.66 mL	1.0 g	467819	04/15/20 08:55	RBR	TAL SL
Total/NA	Analysis	9315		1			469780	05/07/20 04:27	CJQ	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.66 mL	1.0 g	467826	04/15/20 09:44	RBR	TAL SL
Total/NA	Analysis	9320		1			469050	04/28/20 18:42	KLS	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			469790	05/07/20 09:36	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: ARGWC-15

Lab Sample ID: 180-104498-10

Date Collected: 04/08/20 16:15

Matrix: Water

Date Received: 04/10/20 08:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.62 mL	1.0 g	467819	04/15/20 08:55	RBR	TAL SL
Total/NA	Analysis	9315		1			469780	05/07/20 04:27	CJQ	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.62 mL	1.0 g	467826	04/15/20 09:44	RBR	TAL SL
Total/NA	Analysis	9320		1			469050	04/28/20 18:42	KLS	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			469790	05/07/20 09:36	SMP	TAL SL
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Arkwright Ash Pond 3

Job ID: 180-104498-2

Client Sample ID: ARGWC-16

Date Collected: 04/08/20 11:15

Date Received: 04/10/20 08:15

Lab Sample ID: 180-104498-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.33 mL	1.0 g	467819	04/15/20 08:55	RBR	TAL SL
Total/NA	Analysis	9315		1			469780	05/07/20 04:27	CJQ	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.33 mL	1.0 g	467826	04/15/20 09:44	RBR	TAL SL
Total/NA	Analysis	9320		1			469050	04/28/20 18:43	KLS	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			469790	05/07/20 09:36	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: ARGWC-17

Date Collected: 04/08/20 14:30

Date Received: 04/10/20 08:15

Lab Sample ID: 180-104498-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.24 mL	1.0 g	467819	04/15/20 08:55	RBR	TAL SL
Total/NA	Analysis	9315		1			469780	05/07/20 06:13	CJQ	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.24 mL	1.0 g	467826	04/15/20 09:44	RBR	TAL SL
Total/NA	Analysis	9320		1			469050	04/28/20 18:43	KLS	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			469790	05/07/20 09:36	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: ARGWC-18

Date Collected: 04/09/20 09:40

Date Received: 04/10/20 08:15

Lab Sample ID: 180-104498-13

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.29 mL	1.0 g	467819	04/15/20 08:55	RBR	TAL SL
Total/NA	Analysis	9315		1			469780	05/07/20 06:13	CJQ	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.29 mL	1.0 g	467826	04/15/20 09:44	RBR	TAL SL
Total/NA	Analysis	9320		1			469050	04/28/20 18:43	KLS	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			469790	05/07/20 09:36	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: EB-1-4-9-20

Date Collected: 04/09/20 10:40

Date Received: 04/10/20 08:15

Lab Sample ID: 180-104498-14

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.47 mL	1.0 g	467819	04/15/20 08:55	RBR	TAL SL
Total/NA	Analysis	9315		1			469780	05/07/20 06:13	CJQ	TAL SL
Instrument ID: GFPCBLUE										

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Lab Chronicle

Client: Southern Company
 Project/Site: CCR - Plant Arkwright Ash Pond 3

Job ID: 180-104498-2

Client Sample ID: EB-1-4-9-20

Lab Sample ID: 180-104498-14

Date Collected: 04/09/20 10:40

Matrix: Water

Date Received: 04/10/20 08:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep_0			1000.47 mL	1.0 g	467826	04/15/20 09:44	RBR	TAL SL
Total/NA	Analysis	9320		1			469049	04/28/20 18:49	KLS	TAL SL
Instrument ID: GFPCPROTEAN										
Total/NA	Analysis	Ra226_Ra228		1			469790	05/07/20 09:36	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: FB-1-4-7-20

Lab Sample ID: 180-104498-15

Date Collected: 04/07/20 16:00

Matrix: Water

Date Received: 04/10/20 08:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.00 mL	1.0 g	467819	04/15/20 08:55	RBR	TAL SL
Total/NA	Analysis	9315		1			469780	05/07/20 06:13	CJQ	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.00 mL	1.0 g	467826	04/15/20 09:44	RBR	TAL SL
Total/NA	Analysis	9320		1			469049	04/28/20 18:49	KLS	TAL SL
Instrument ID: GFPCPROTEAN										
Total/NA	Analysis	Ra226_Ra228		1			469790	05/07/20 09:36	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: DUP-1

Lab Sample ID: 180-104498-16

Date Collected: 04/08/20 00:00

Matrix: Water

Date Received: 04/10/20 08:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.60 mL	1.0 g	467819	04/15/20 08:55	RBR	TAL SL
Total/NA	Analysis	9315		1			469780	05/07/20 06:13	CJQ	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.60 mL	1.0 g	467826	04/15/20 09:44	RBR	TAL SL
Total/NA	Analysis	9320		1			469049	04/28/20 18:49	KLS	TAL SL
Instrument ID: GFPCPROTEAN										
Total/NA	Analysis	Ra226_Ra228		1			469790	05/07/20 09:36	SMP	TAL SL
Instrument ID: NOEQUIP										

Laboratory References:

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Analyst References:

Lab: TAL SL

Batch Type: Prep

RBR = Rachael Ratcliff

Batch Type: Analysis

CJQ = Caleb Quinn

KLS = Kody Saulters

SMP = Siobhan Perry

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Arkwright Ash Pond 3

Job ID: 180-104498-2

Client Sample ID: ARGWA-3

Lab Sample ID: 180-104498-1

Date Collected: 04/07/20 10:45

Matrix: Water

Date Received: 04/10/20 08:15

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0495	U	0.0626	0.0628	1.00	0.104	pCi/L	04/15/20 08:55	05/07/20 04:26	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	100		40 - 110					04/15/20 08:55	05/07/20 04:26	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0141	U	0.227	0.227	1.00	0.405	pCi/L	04/15/20 09:44	04/28/20 18:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	100		40 - 110					04/15/20 09:44	04/28/20 18:41	1
Y Carrier	89.0		40 - 110					04/15/20 09:44	04/28/20 18:41	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.0354	U	0.235	0.236	2.00	0.405	pCi/L		05/07/20 09:36	1

Client Sample ID: ARGWA-5

Lab Sample ID: 180-104498-2

Date Collected: 04/07/20 11:46

Matrix: Water

Date Received: 04/10/20 08:15

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.00670	U	0.0516	0.0516	1.00	0.104	pCi/L	04/15/20 08:55	05/07/20 04:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.9		40 - 110					04/15/20 08:55	05/07/20 04:27	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.191	U	0.236	0.236	1.00	0.390	pCi/L	04/15/20 09:44	04/28/20 18:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.9		40 - 110					04/15/20 09:44	04/28/20 18:41	1
Y Carrier	84.9		40 - 110					04/15/20 09:44	04/28/20 18:41	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Arkwright Ash Pond 3

Job ID: 180-104498-2

Client Sample ID: ARGWA-5

Lab Sample ID: 180-104498-2

Date Collected: 04/07/20 11:46

Matrix: Water

Date Received: 04/10/20 08:15

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.198	U	0.242	0.242	2.00	0.390	pCi/L		05/07/20 09:36	1

Client Sample ID: ARGWA-12

Lab Sample ID: 180-104498-3

Date Collected: 04/07/20 13:46

Matrix: Ground Water

Date Received: 04/10/20 08:15

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0124	U	0.0484	0.0484	1.00	0.0961	pCi/L	04/15/20 08:55	05/07/20 04:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.5		40 - 110					04/15/20 08:55	05/07/20 04:27	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.609		0.297	0.302	1.00	0.431	pCi/L	04/15/20 09:44	04/28/20 18:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.5		40 - 110					04/15/20 09:44	04/28/20 18:41	1
Y Carrier	81.9		40 - 110					04/15/20 09:44	04/28/20 18:41	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.622		0.301	0.306	2.00	0.431	pCi/L		05/07/20 09:36	1

Client Sample ID: ARGWA-13

Lab Sample ID: 180-104498-4

Date Collected: 04/07/20 15:32

Matrix: Water

Date Received: 04/10/20 08:15

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.00762	U	0.0449	0.0449	1.00	0.0924	pCi/L	04/15/20 08:55	05/07/20 04:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.2		40 - 110					04/15/20 08:55	05/07/20 04:27	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Arkwright Ash Pond 3

Job ID: 180-104498-2

Client Sample ID: ARGWA-13

Lab Sample ID: 180-104498-4

Date Collected: 04/07/20 15:32

Matrix: Water

Date Received: 04/10/20 08:15

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0490	U	0.234	0.234	1.00	0.429	pCi/L	04/15/20 09:44	04/28/20 18:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.2		40 - 110					04/15/20 09:44	04/28/20 18:41	1
Y Carrier	85.2		40 - 110					04/15/20 09:44	04/28/20 18:41	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.0414	U	0.238	0.238	2.00	0.429	pCi/L		05/07/20 09:36	1

Client Sample ID: ARGWA-14

Lab Sample ID: 180-104498-5

Date Collected: 04/06/20 15:57

Matrix: Water

Date Received: 04/10/20 08:15

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.00155	U	0.0692	0.0692	1.00	0.138	pCi/L	04/15/20 08:55	05/07/20 04:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.2		40 - 110					04/15/20 08:55	05/07/20 04:27	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.288	U	0.261	0.263	1.00	0.420	pCi/L	04/15/20 09:44	04/28/20 18:42	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.2		40 - 110					04/15/20 09:44	04/28/20 18:42	1
Y Carrier	83.4		40 - 110					04/15/20 09:44	04/28/20 18:42	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.286	U	0.270	0.272	2.00	0.420	pCi/L		05/07/20 09:36	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Arkwright Ash Pond 3

Job ID: 180-104498-2

Client Sample ID: ARGWC-7

Lab Sample ID: 180-104498-6

Date Collected: 04/08/20 09:55

Matrix: Water

Date Received: 04/10/20 08:15

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0755	U	0.0634	0.0638	1.00	0.0926	pCi/L	04/15/20 08:55	05/07/20 04:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.8		40 - 110					04/15/20 08:55	05/07/20 04:27	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.290	U	0.267	0.268	1.00	0.429	pCi/L	04/15/20 09:44	04/28/20 18:42	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.8		40 - 110					04/15/20 09:44	04/28/20 18:42	1
Y Carrier	83.7		40 - 110					04/15/20 09:44	04/28/20 18:42	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.366	U	0.274	0.275	2.00	0.429	pCi/L		05/07/20 09:36	1

Client Sample ID: ARGWC-8

Lab Sample ID: 180-104498-7

Date Collected: 04/09/20 12:35

Matrix: Water

Date Received: 04/10/20 08:15

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0197	U	0.0615	0.0615	1.00	0.116	pCi/L	04/15/20 08:55	05/07/20 04:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.1		40 - 110					04/15/20 08:55	05/07/20 04:27	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.236	U	0.260	0.261	1.00	0.427	pCi/L	04/15/20 09:44	04/28/20 18:42	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.1		40 - 110					04/15/20 09:44	04/28/20 18:42	1
Y Carrier	84.5		40 - 110					04/15/20 09:44	04/28/20 18:42	1

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Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Arkwright Ash Pond 3

Job ID: 180-104498-2

Client Sample ID: ARGWC-8

Lab Sample ID: 180-104498-7

Date Collected: 04/09/20 12:35

Matrix: Water

Date Received: 04/10/20 08:15

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.255	U	0.267	0.268	2.00	0.427	pCi/L		05/07/20 09:36	1

Client Sample ID: ARGWC-9

Lab Sample ID: 180-104498-8

Date Collected: 04/09/20 10:25

Matrix: Water

Date Received: 04/10/20 08:15

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.00982	U	0.0590	0.0591	1.00	0.116	pCi/L	04/15/20 08:55	05/07/20 04:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.8		40 - 110					04/15/20 08:55	05/07/20 04:27	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.324	U	0.242	0.244	1.00	0.379	pCi/L	04/15/20 09:44	04/28/20 18:42	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.8		40 - 110					04/15/20 09:44	04/28/20 18:42	1
Y Carrier	86.0		40 - 110					04/15/20 09:44	04/28/20 18:42	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.334	U	0.249	0.251	2.00	0.379	pCi/L		05/07/20 09:36	1

Client Sample ID: ARGWC-10

Lab Sample ID: 180-104498-9

Date Collected: 04/08/20 17:09

Matrix: Water

Date Received: 04/10/20 08:15

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0136	U	0.0616	0.0616	1.00	0.129	pCi/L	04/15/20 08:55	05/07/20 04:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.6		40 - 110					04/15/20 08:55	05/07/20 04:27	1

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Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Arkwright Ash Pond 3

Job ID: 180-104498-2

Client Sample ID: ARGWC-10

Lab Sample ID: 180-104498-9

Date Collected: 04/08/20 17:09

Matrix: Water

Date Received: 04/10/20 08:15

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0265	U	0.238	0.238	1.00	0.432	pCi/L	04/15/20 09:44	04/28/20 18:42	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.6		40 - 110					04/15/20 09:44	04/28/20 18:42	1
Y Carrier	85.2		40 - 110					04/15/20 09:44	04/28/20 18:42	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.0401	U	0.246	0.246	2.00	0.432	pCi/L		05/07/20 09:36	1

Client Sample ID: ARGWC-15

Lab Sample ID: 180-104498-10

Date Collected: 04/08/20 16:15

Matrix: Water

Date Received: 04/10/20 08:15

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.131		0.0857	0.0865	1.00	0.116	pCi/L	04/15/20 08:55	05/07/20 04:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.2		40 - 110					04/15/20 08:55	05/07/20 04:27	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.178	U	0.280	0.281	1.00	0.472	pCi/L	04/15/20 09:44	04/28/20 18:42	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.2		40 - 110					04/15/20 09:44	04/28/20 18:42	1
Y Carrier	83.0		40 - 110					04/15/20 09:44	04/28/20 18:42	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.309	U	0.293	0.294	2.00	0.472	pCi/L		05/07/20 09:36	1

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Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Arkwright Ash Pond 3

Job ID: 180-104498-2

Client Sample ID: ARGWC-16

Lab Sample ID: 180-104498-11

Date Collected: 04/08/20 11:15

Matrix: Water

Date Received: 04/10/20 08:15

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0992	U	0.0822	0.0827	1.00	0.124	pCi/L	04/15/20 08:55	05/07/20 04:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.4		40 - 110					04/15/20 08:55	05/07/20 04:27	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.181	U	0.218	0.218	1.00	0.360	pCi/L	04/15/20 09:44	04/28/20 18:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.4		40 - 110					04/15/20 09:44	04/28/20 18:43	1
Y Carrier	86.7		40 - 110					04/15/20 09:44	04/28/20 18:43	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.280	U	0.233	0.233	2.00	0.360	pCi/L		05/07/20 09:36	1

Client Sample ID: ARGWC-17

Lab Sample ID: 180-104498-12

Date Collected: 04/08/20 14:30

Matrix: Water

Date Received: 04/10/20 08:15

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.176		0.0864	0.0879	1.00	0.104	pCi/L	04/15/20 08:55	05/07/20 06:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.3		40 - 110					04/15/20 08:55	05/07/20 06:13	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.227	U	0.259	0.259	1.00	0.425	pCi/L	04/15/20 09:44	04/28/20 18:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.3		40 - 110					04/15/20 09:44	04/28/20 18:43	1
Y Carrier	76.6		40 - 110					04/15/20 09:44	04/28/20 18:43	1

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Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Arkwright Ash Pond 3

Job ID: 180-104498-2

Client Sample ID: ARGWC-17

Lab Sample ID: 180-104498-12

Date Collected: 04/08/20 14:30

Matrix: Water

Date Received: 04/10/20 08:15

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.402	U	0.273	0.274	2.00	0.425	pCi/L		05/07/20 09:36	1

Client Sample ID: ARGWC-18

Lab Sample ID: 180-104498-13

Date Collected: 04/09/20 09:40

Matrix: Water

Date Received: 04/10/20 08:15

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.109	U	0.0799	0.0805	1.00	0.115	pCi/L	04/15/20 08:55	05/07/20 06:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.3		40 - 110					04/15/20 08:55	05/07/20 06:13	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.310	U	0.265	0.267	1.00	0.425	pCi/L	04/15/20 09:44	04/28/20 18:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.3		40 - 110					04/15/20 09:44	04/28/20 18:43	1
Y Carrier	86.4		40 - 110					04/15/20 09:44	04/28/20 18:43	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.419	U	0.277	0.279	2.00	0.425	pCi/L		05/07/20 09:36	1

Client Sample ID: EB-1-4-9-20

Lab Sample ID: 180-104498-14

Date Collected: 04/09/20 10:40

Matrix: Water

Date Received: 04/10/20 08:15

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0687	U	0.0711	0.0713	1.00	0.112	pCi/L	04/15/20 08:55	05/07/20 06:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.5		40 - 110					04/15/20 08:55	05/07/20 06:13	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Arkwright Ash Pond 3

Job ID: 180-104498-2

Client Sample ID: EB-1-4-9-20

Lab Sample ID: 180-104498-14

Date Collected: 04/09/20 10:40

Matrix: Water

Date Received: 04/10/20 08:15

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.418	U	0.330	0.332	1.00	0.527	pCi/L	04/15/20 09:44	04/28/20 18:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.5		40 - 110					04/15/20 09:44	04/28/20 18:49	1
Y Carrier	87.5		40 - 110					04/15/20 09:44	04/28/20 18:49	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.486	U	0.338	0.340	2.00	0.527	pCi/L		05/07/20 09:36	1

Client Sample ID: FB-1-4-7-20

Lab Sample ID: 180-104498-15

Date Collected: 04/07/20 16:00

Matrix: Water

Date Received: 04/10/20 08:15

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0424	U	0.0593	0.0594	1.00	0.100	pCi/L	04/15/20 08:55	05/07/20 06:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.5		40 - 110					04/15/20 08:55	05/07/20 06:13	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.391	U	0.267	0.269	1.00	0.416	pCi/L	04/15/20 09:44	04/28/20 18:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.5		40 - 110					04/15/20 09:44	04/28/20 18:49	1
Y Carrier	92.0		40 - 110					04/15/20 09:44	04/28/20 18:49	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.434		0.274	0.275	2.00	0.416	pCi/L		05/07/20 09:36	1

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Arkwright Ash Pond 3

Job ID: 180-104498-2

Client Sample ID: DUP-1

Lab Sample ID: 180-104498-16

Date Collected: 04/08/20 00:00

Matrix: Water

Date Received: 04/10/20 08:15

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.153		0.0773	0.0785	1.00	0.0878	pCi/L	04/15/20 08:55	05/07/20 06:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.3		40 - 110					04/15/20 08:55	05/07/20 06:13	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.159	U	0.262	0.262	1.00	0.441	pCi/L	04/15/20 09:44	04/28/20 18:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.3		40 - 110					04/15/20 09:44	04/28/20 18:49	1
Y Carrier	93.1		40 - 110					04/15/20 09:44	04/28/20 18:49	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.312	U	0.273	0.274	2.00	0.441	pCi/L		05/07/20 09:36	1

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Arkwright Ash Pond 3

Job ID: 180-104498-2

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-467819/23-A
Matrix: Water
Analysis Batch: 469780

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 467819

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.03121	U	0.0621	0.0621	1.00	0.111	pCi/L	04/15/20 08:55	05/07/20 06:14	1
Carrier	MB MB		Limits			Prepared	Analyzed	Dil Fac		
	%Yield	Qualifier								
Ba Carrier	99.4		40 - 110			04/15/20 08:55	05/07/20 06:14	1		

Lab Sample ID: LCS 160-467819/1-A
Matrix: Water
Analysis Batch: 469780

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 467819

Analyte	LCS LCS		Spike Added	LCS	LCS	Total	RL	MDC	Unit	%Rec	%Rec. Limits
	Result	Qual		Result	Qual	Uncert. (2σ+/-)					
Radium-226			11.3	9.899		1.04	1.00	0.105	pCi/L	87	75 - 125
Carrier	LCS LCS		Limits					Prepared	Analyzed	Dil Fac	
	%Yield	Qualifier									
Ba Carrier	97.0		40 - 110								

Lab Sample ID: LCSD 160-467819/2-A
Matrix: Water
Analysis Batch: 469780

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 467819

Analyte	LCSD LCSD		Spike Added	LCSD	LCSD	Total	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
	Result	Qual		Result	Qual	Uncert. (2σ+/-)							
Radium-226			11.3	9.803		1.03	1.00	0.116	pCi/L	86	75 - 125	0.05	1
Carrier	LCSD LCSD		Limits					Prepared	Analyzed	Dil Fac			
	%Yield	Qualifier											
Ba Carrier	95.7		40 - 110										

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-467826/23-A
Matrix: Water
Analysis Batch: 469049

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 467826

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.2776	U	0.268	0.270	1.00	0.436	pCi/L	04/15/20 09:44	04/28/20 18:49	1
Carrier	MB MB		Limits			Prepared	Analyzed	Dil Fac		
	%Yield	Qualifier								
Ba Carrier	99.4		40 - 110			04/15/20 09:44	04/28/20 18:49	1		
Y Carrier	91.2		40 - 110			04/15/20 09:44	04/28/20 18:49	1		

Eurofins TestAmerica, Pittsburgh

QC Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Arkwright Ash Pond 3

Job ID: 180-104498-2

Method: 9320 - Radium-228 (GFPC) (Continued)

Lab Sample ID: LCS 160-467826/1-A
Matrix: Water
Analysis Batch: 469050

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 467826

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-228	8.89	7.927		0.958	1.00	0.413	pCi/L	89	75 - 125

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	97.0		40 - 110
Y Carrier	88.6		40 - 110

Lab Sample ID: LCSD 160-467826/2-A
Matrix: Water
Analysis Batch: 469050

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 467826

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-228	8.89	8.527		1.02	1.00	0.394	pCi/L	96	75 - 125	0.30	1

Carrier	LCSD %Yield	LCSD Qualifier	Limits
Ba Carrier	95.7		40 - 110
Y Carrier	87.5		40 - 110



QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Arkwright Ash Pond 3

Job ID: 180-104498-2

Rad

Prep Batch: 467819

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-104498-1	ARGWA-3	Total/NA	Water	PrecSep-21	
180-104498-2	ARGWA-5	Total/NA	Water	PrecSep-21	
180-104498-3	ARGWA-12	Total/NA	Ground Water	PrecSep-21	
180-104498-4	ARGWA-13	Total/NA	Water	PrecSep-21	
180-104498-5	ARGWA-14	Total/NA	Water	PrecSep-21	
180-104498-6	ARGWC-7	Total/NA	Water	PrecSep-21	
180-104498-7	ARGWC-8	Total/NA	Water	PrecSep-21	
180-104498-8	ARGWC-9	Total/NA	Water	PrecSep-21	
180-104498-9	ARGWC-10	Total/NA	Water	PrecSep-21	
180-104498-10	ARGWC-15	Total/NA	Water	PrecSep-21	
180-104498-11	ARGWC-16	Total/NA	Water	PrecSep-21	
180-104498-12	ARGWC-17	Total/NA	Water	PrecSep-21	
180-104498-13	ARGWC-18	Total/NA	Water	PrecSep-21	
180-104498-14	EB-1-4-9-20	Total/NA	Water	PrecSep-21	
180-104498-15	FB-1-4-7-20	Total/NA	Water	PrecSep-21	
180-104498-16	DUP-1	Total/NA	Water	PrecSep-21	
MB 160-467819/23-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-467819/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-467819/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 467826

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-104498-1	ARGWA-3	Total/NA	Water	PrecSep_0	
180-104498-2	ARGWA-5	Total/NA	Water	PrecSep_0	
180-104498-3	ARGWA-12	Total/NA	Ground Water	PrecSep_0	
180-104498-4	ARGWA-13	Total/NA	Water	PrecSep_0	
180-104498-5	ARGWA-14	Total/NA	Water	PrecSep_0	
180-104498-6	ARGWC-7	Total/NA	Water	PrecSep_0	
180-104498-7	ARGWC-8	Total/NA	Water	PrecSep_0	
180-104498-8	ARGWC-9	Total/NA	Water	PrecSep_0	
180-104498-9	ARGWC-10	Total/NA	Water	PrecSep_0	
180-104498-10	ARGWC-15	Total/NA	Water	PrecSep_0	
180-104498-11	ARGWC-16	Total/NA	Water	PrecSep_0	
180-104498-12	ARGWC-17	Total/NA	Water	PrecSep_0	
180-104498-13	ARGWC-18	Total/NA	Water	PrecSep_0	
180-104498-14	EB-1-4-9-20	Total/NA	Water	PrecSep_0	
180-104498-15	FB-1-4-7-20	Total/NA	Water	PrecSep_0	
180-104498-16	DUP-1	Total/NA	Water	PrecSep_0	
MB 160-467826/23-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-467826/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-467826/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

Chain of Custody Record

Client Information					Sampler: <u>T. Gable / R. Walker</u>		Lab PM: <u>Veronica Bartot</u>		Carrier Tracking No(s):		COC No: 400-73521-29028.1																		
Client Contact: Joju Abraham					Phone: <u>770-594-5998</u>		E-Mail: <u>Veronica.bartot@testamerica.com</u>				Page: Page																		
Company: Southern Company					Analysis Requested							Job #:																	
Address: PO BOX 2641 GSC8												Due Date Requested:		Preservation Codes:															
City: Birmingham					TAT Requested (days):		Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No)		Metals - App III (Boron, Calcium) 300_ORGFM_280 - Chloride, Fluoride & Sulfate, 2540C - TDS		State Metals (Arsenic, Barium, Cadmium, Lead, Silver, and Selenium)		Detected A4: Radium 226 & 228 (SW-546 9315/9320)		Detected A4: Metals (Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Lead, Lithium, Molybdenum, Selenium, Thallium)		Total Number of container: K - EDTA W - pH 4-5 L - EDTA Z - other (specify) Other:												
State, Zip: AL, 35291					PO #: SCS10347656														Detected A4: Radium 226 & 228 (SW-546 9315/9320)		Detected A4: Metals (Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Lead, Lithium, Molybdenum, Selenium, Thallium)		Total Number of container: K - EDTA W - pH 4-5 L - EDTA Z - other (specify) Other:						
Phone:					WO #:		Detected A4: Radium 226 & 228 (SW-546 9315/9320)		Detected A4: Metals (Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Lead, Lithium, Molybdenum, Selenium, Thallium)		Total Number of container: K - EDTA W - pH 4-5 L - EDTA Z - other (specify) Other:																		
Email: JAbraham@southernco.com					Project #: 40007712								Detected A4: Radium 226 & 228 (SW-546 9315/9320)		Detected A4: Metals (Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Lead, Lithium, Molybdenum, Selenium, Thallium)		Total Number of container: K - EDTA W - pH 4-5 L - EDTA Z - other (specify) Other:												
Project Name: CCR Plant Arkwright - Ash Pond 3 - 1st 2020 SA GWM					SSOW#:		Detected A4: Radium 226 & 228 (SW-546 9315/9320)		Detected A4: Metals (Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Lead, Lithium, Molybdenum, Selenium, Thallium)		Total Number of container: K - EDTA W - pH 4-5 L - EDTA Z - other (specify) Other:																		
Site: Georgia													Detected A4: Radium 226 & 228 (SW-546 9315/9320)		Detected A4: Metals (Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Lead, Lithium, Molybdenum, Selenium, Thallium)		Total Number of container: K - EDTA W - pH 4-5 L - EDTA Z - other (specify) Other:												
Sample Identification					Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)								Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		Special Instructions/Note:						
ARGWA-3					4-7-20		1045		G		Water		N		N		3 pH = 5.90												
ARGWA-5					4-7-20		1146		G		Water		N		N		3 pH = 5.86												
ARGWA-12					4-7-20		1346		G		Water		N		N		3 pH = 5.91												
ARGWA-13					4-7-20		1532		G		Water		N		N		3 pH = 5.84												
ARGWA-14					4-6-20		1557		G		Water		N		N		3 pH = 5.90												
ARGWC-7					4-8-20		0955		G		Water		N		N		4 pH = 5.75 Extra Red												
ARGWC-8					4-9-20		1235		G		Water		N		N		3 pH = 6.42												
ARGWC-9					4-9-20		1025		G		Water		N		N		3 pH = 5.90												
ARGWC-10					4-8-20		1709		G		Water		N		N		3 pH = 5.95												
ARGWC-15					4-8-20		1615		G		Water		N		N		3 pH = 6.26												
ARGWC-16					4-8-20		1115		G		Water		N		N		3 pH = 5.07												
Possible Hazard Identification										Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)																			
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological										<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months																			
Deliverable Requested: I, II, III, IV, Other (specify)										Special Instructions/QC Requirements:																			
Empty Kit Relinquished by:					Date:					Time:					Method of Shipment:														
Relinquished by: <u>[Signature]</u>					Date/Time: <u>4-9-20 1503</u>					Company: <u>ACC</u>					Received by: <u>[Signature]</u>					Date/Time: <u>4-9-20 1503</u>					Company: <u>ACC</u>				
Relinquished by: <u>[Signature]</u>					Date/Time: <u>4-9-20 1504</u>					Company: <u>[Signature]</u>					Received by: <u>[Signature]</u>					Date/Time: <u>4/10/20 815</u>					Company: <u>ETAP/W</u>				
Relinquished by:					Date/Time:					Company:					Received by:					Date/Time:					Company:				
Custody Seals Intact: Δ Yes Δ No					Custody Seal No.:										Cooler Temperature(s) °C and Other Remarks:														



180-104498 Chain of Custody



Client Information				Sampler: T. Goble / R. Walker	Lab PM: Veronica Bortot	Carrier Tracking No(s):				COC No: 400-73521-29028.1					
Client Contact: Joju Abraham				Phone: 770-594-5998	E-Mail: Veronica.Bortot@testamerica.com					Page: Page					
Company: Southern Company				Analysis Requested								Job #:			
Address: PO BOX 2641 GSC8				Due Date Requested:				Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) Metals - App III (Boron, Calcium) 300_ORGFM_280 - Chloride, Fluoride & Sulfate, 2540C - TDS State Metals (Arsenic, Barium, Cadmium, Lead, Silver, and Selenium) Detected A4: Radium 226 & 228 (SW-946 9315/9320) Detected A4: Metals (Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Lead, Lithium, Molybdenum, Selenium, Thallium)				Preservation Codes:			
City: Birmingham				TAT Requested (days):								A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)			
State, Zip: AL, 35291				PO #: SCS10347656								Other:			
Phone:				WO #:								Total Number of containers			
Email: JAbraham@southernco.com				Project #: 40007712								Special Instructions/Note:			
Project Name: CCR Plant Arkwright - Ash Pond 3 - 1st 2020 SA GWM				SSOW#:											
Site: Georgia															
Sample Identification				Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)								
Preservation Code:															
ARGWC-17				4-8-20	1430	G	Water	NN	✓	✓	✓	✓	✓	3	pH = 5.02
ARGWC-18				4-9-20	0940	G	Water	NN	✓	✓	✓	✓	✓	3	pH = 5.98
EB-1-4-9-20				4-9-20	1040	G	Water	NN	✓	✓	✓	✓	✓	3	pH =
EB-1-4-7-20				4-7-20	1600	G	Water	NN	✓	✓	✓	✓	✓	3	pH =
Dup-1				4-8-20	-	G	Water	NN	✓	✓	✓	✓	✓	3	pH =
						G	Water								pH =
						G	Water								pH =
						G	Water								pH =
						G	Water								pH =
						G	Water								pH =
						G	Water								pH =
						G	Water								pH =
						G	Water								pH =
						G	Water								pH =
Possible Hazard Identification				Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)											
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological				<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months											
Deliverable Requested: I, II, III, IV, Other (specify)				Special Instructions/QC Requirements:											
Empty Kit Relinquished by:				Date:	Time:	Method of Shipment:									
Relinquished by: <i>Ryan Walker</i>				Date/Time: 4-7-20 1503	Company: ACC	Received by: <i>[Signature]</i>				Date/Time: 4-9-20 1503	Company:				
Relinquished by: <i>[Signature]</i>				Date/Time: 4-9-20 1509	Company:	Received by: <i>[Signature]</i>				Date/Time: 4/10/20 215	Company: <i>COMPASS</i>				
Relinquished by:				Date/Time:	Company:	Received by:				Date/Time:	Company:				
Custody Seals Intact: Δ Yes Δ No				Custody Seal No.:				Cooler Temperature(s) °C and Other Remarks:							



TestAmerica

SHIP DATE: 09APR20
ACTWGT: 61.75 LB
CAD: 859116/CAFE3313

BILL RECIPIENT

15.00

ORIGIN ID: LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTAMERICA
6500 McDONOUGH DRIVE
SUITE C-10
NORCROSS, GA 30093
UNITED STATES US

TO SAMPLE RECEIVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238

(412) 963-7068
REF: ACC



FRI - 10 APR 3:00P
STANDARD OVERNIGHT

2 of 4
MPS# 1516 9323 3439
Mstr# 1516 9323 3428

NA AGCA

PA-US

15238
PIT



3.3 °C

Uncorrected temp
Thermometer ID

CF 0 Initials BS

PT-WI-SR-001 effective 7/26/13

TestAmerica

SHIP DA
ACTWGT: 85
CAD: 85

BILL REC

ORIGIN ID: LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTAMERICA
6500 McDONOUGH DRIVE
SUITE C-10
NORCROSS, GA 30093
UNITED STATES US

TO SAMPLE RECEIVING
EUROFINS TESTAMERICA PITTSB
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238

(412) 963-7068
REF: ACC



FRI -
STANDAF

4 of 4
MPS# 1516 9323 3450
Mstr# 1516 9323 3428

NA AGCA

1.2 °C

Uncorrected temp
Thermometer ID

CF 0 Initials BS

PT-WI-SR-001 effective 7/26/13



180-104498 Waybill

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- 11
- 12
- 13

ED
RK
ica
TAL TESTING

eurofins

159469-434 RPT EXP 07/20
A
3428
04.10
15:00
K197
F
Z

ORIGIN ID: LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTAMERICA
6500 McDONOUGH DRIVE
SUITE C-10
NORCROSS, GA 30093
UNITED STATES US

SHIP DATE: 09APR20
ACT WT: 61.75 LB
CAD: 859116/CAFE3313

BILL RECIPIENT

TO SAMPLE RECEIVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238
(412) 963-7068
REF: ACC



1 of 4
TRK# 1516 9323 3428
0201
MASTER ##
FRI - 10 APR 3:00P
STANDARD OVERNIGHT

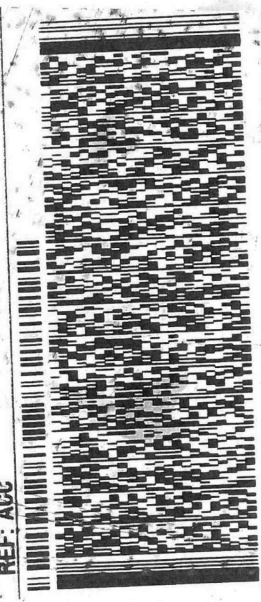
NA AGCA

15238
PA-US
PIT

Uncorrected temp 23 °C
Thermometer ID 17

ORIGIN ID: LIYA
GEORGE TAYLOR
EUROFINS TESTAMERICA
6500 McDONOUGH DRIVE
SUITE C-10
NORCROSS, GA 30093
UNITED STATES US

TO SAMPLE RECEIVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238
(412) 963-7068
REF: ACC



3 of 4
MPS# 1516 9323 3440
0263
Mstr# 1516 9323 3428
FRI - 10
STANDARD C

NA AGCA

Uncorrected temp 23 °C
Thermometer ID 17
CF Initials JS



PT-WI-SR-001 effective 7/26/13

- 1
- 2
- 3
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- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-104498-2

Login Number: 104498

List Source: Eurofins TestAmerica, Pittsburgh

List Number: 1

Creator: Say, Thomas C

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-104498-2

Login Number: 104498

List Number: 2

Creator: Mazariegos, Leonel A

List Source: Eurofins TestAmerica, St. Louis

List Creation: 04/14/20 01:19 PM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Low-Flow Test Report:

Test Date / Time: 4/7/2020 9:27:42 AM

Project: Plant Arkwright - Ash Pond 3

Operator Name: Ryan Walker

Location Name: ARGWA-3 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 32 ft Total Depth: 42.29 ft Initial Depth to Water: 33.98 ft	Pump Type: QED Bladder Tubing Type: Poly Pump Intake From TOC: 37 ft Estimated Total Volume Pumped: 15516.667 ml Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.22 ft	Instrument Used: Aqua TROLL 400 Serial Number: 714293
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Test Notes:

Weather Conditions:

Cloudy 60 s

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
4/7/2020 9:27 AM	00:00	5.95 pH	19.44 °C	67.25 µS/cm	6.75 mg/L		99.9 mV	33.98 ft	200.00 ml/min
4/7/2020 9:32 AM	05:00	5.87 pH	19.28 °C	64.21 µS/cm	6.63 mg/L		94.9 mV	33.98 ft	200.00 ml/min
4/7/2020 9:34 AM	07:07	5.87 pH	19.28 °C	63.75 µS/cm	6.62 mg/L		94.9 mV	33.98 ft	200.00 ml/min
4/7/2020 9:35 AM	07:35	5.86 pH	19.27 °C	64.49 µS/cm	6.61 mg/L	3.87 NTU	106.3 mV	34.20 ft	200.00 ml/min
4/7/2020 9:40 AM	12:35	5.87 pH	19.31 °C	64.72 µS/cm	6.63 mg/L	4.04 NTU	109.7 mV	34.20 ft	200.00 ml/min
4/7/2020 9:45 AM	17:35	5.87 pH	19.34 °C	65.81 µS/cm	6.60 mg/L	5.50 NTU	111.7 mV	34.20 ft	200.00 ml/min
4/7/2020 9:50 AM	22:35	5.87 pH	19.35 °C	65.87 µS/cm	6.56 mg/L	5.15 NTU	113.5 mV	34.20 ft	200.00 ml/min
4/7/2020 9:55 AM	27:35	5.88 pH	19.41 °C	66.28 µS/cm	6.52 mg/L	4.99 NTU	115.0 mV	34.20 ft	200.00 ml/min
4/7/2020 10:00 AM	32:35	5.89 pH	19.44 °C	66.52 µS/cm	6.51 mg/L	4.78 NTU	116.7 mV	34.20 ft	200.00 ml/min
4/7/2020 10:05 AM	37:35	5.89 pH	19.48 °C	66.70 µS/cm	6.51 mg/L	4.61 NTU	118.6 mV	34.20 ft	200.00 ml/min
4/7/2020 10:10 AM	42:35	5.89 pH	19.47 °C	66.33 µS/cm	6.51 mg/L	4.60 NTU	105.0 mV	34.20 ft	200.00 ml/min
4/7/2020 10:15 AM	47:35	5.89 pH	19.55 °C	66.61 µS/cm	6.49 mg/L	4.22 NTU	105.9 mV	34.20 ft	200.00 ml/min
4/7/2020 10:20 AM	52:35	5.89 pH	19.54 °C	67.34 µS/cm	6.48 mg/L	3.88 NTU	122.2 mV	34.20 ft	200.00 ml/min

4/7/2020 10:25 AM	57:35	5.90 pH	19.58 °C	67.48 µS/cm	6.48 mg/L	3.49 NTU	123.6 mV	34.20 ft	200.00 ml/min
4/7/2020 10:30 AM	01:02:35	5.90 pH	19.60 °C	66.90 µS/cm	6.48 mg/L	3.37 NTU	108.5 mV	34.20 ft	200.00 ml/min
4/7/2020 10:35 AM	01:07:35	5.90 pH	19.55 °C	67.56 µS/cm	6.47 mg/L	3.09 NTU	126.0 mV	34.20 ft	200.00 ml/min
4/7/2020 10:40 AM	01:12:35	5.90 pH	19.55 °C	67.69 µS/cm	6.47 mg/L	2.88 NTU	127.3 mV	34.20 ft	200.00 ml/min
4/7/2020 10:45 AM	01:17:35	5.90 pH	19.52 °C	67.77 µS/cm	6.48 mg/L	2.31 NTU	128.5 mV	34.20 ft	200.00 ml/min

Samples

Sample ID:	Description:
ARGWA-3	Sampled at 10:45. Cloudy, 60 s.

Low-Flow Test Report:

Test Date / Time: 4/7/2020 11:16:11 AM

Project: Plant Arkwright - Ash Pond 3

Operator Name: Ryan Walker

Location Name: ARGWA-5 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 23 ft Total Depth: 33.11 ft Initial Depth to Water: 21.72 ft	Pump Type: QED Bladder Tubing Type: Poly Pump Intake From TOC: 28 ft Estimated Total Volume Pumped: 8400 ml Flow Cell Volume: 90 ml Final Flow Rate: 280 ml/min Final Draw Down: 0.18 ft	Instrument Used: Aqua TROLL 400 Serial Number: 714293
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Test Notes:

Weather Conditions:

Cloudy 60 s

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.3	+/- 10	+/- 25	+/- 5	
4/7/2020 11:16 AM	00:00	5.89 pH	19.33 °C	54.73 µS/cm	4.93 mg/L		110.5 mV	21.72 ft	280.00 ml/min
4/7/2020 11:21 AM	05:00	5.86 pH	18.92 °C	54.71 µS/cm	4.57 mg/L	2.12 NTU	110.6 mV	21.90 ft	280.00 ml/min
4/7/2020 11:26 AM	10:00	5.86 pH	18.97 °C	55.11 µS/cm	4.49 mg/L	1.75 NTU	111.1 mV	21.90 ft	280.00 ml/min
4/7/2020 11:31 AM	15:00	5.86 pH	18.93 °C	55.39 µS/cm	4.36 mg/L	1.49 NTU	111.7 mV	21.90 ft	280.00 ml/min
4/7/2020 11:36 AM	20:00	5.86 pH	18.97 °C	55.86 µS/cm	4.29 mg/L	1.47 NTU	112.1 mV	21.90 ft	280.00 ml/min
4/7/2020 11:41 AM	25:00	5.86 pH	18.96 °C	56.76 µS/cm	4.38 mg/L	1.21 NTU	111.7 mV	21.90 ft	280.00 ml/min
4/7/2020 11:46 AM	30:00	5.86 pH	18.96 °C	57.65 µS/cm	4.40 mg/L	1.30 NTU	111.9 mV	21.90 ft	280.00 ml/min

Samples

Sample ID:	Description:
ARGWA-5	Sampled at 11:46. Cloudy, 70 s.

Low-Flow Test Report:

Test Date / Time: 4/7/2020 1:16:23 PM

Project: Plant Arkwright - Ash Pond 3

Operator Name: Ryan Walker

Location Name: ARGWA-12 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 22 ft Total Depth: 32.35 ft Initial Depth to Water: 13.89 ft	Pump Type: QED Bladder Tubing Type: Poly Pump Intake From TOC: 27 ft Estimated Total Volume Pumped: 6600 ml Flow Cell Volume: 90 ml Final Flow Rate: 220 ml/min Final Draw Down: 0.81 ft	Instrument Used: Aqua TROLL 400 Serial Number: 714293
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Test Notes:

Weather Conditions:

Sunny, 70 s

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.3	+/- 10	+/- 25	+/- 5	
4/7/2020 1:16 PM	00:00	6.02 pH	19.55 °C	143.20 µS/cm	4.00 mg/L		115.1 mV	13.89 ft	220.00 ml/min
4/7/2020 1:21 PM	05:00	5.97 pH	18.62 °C	141.96 µS/cm	2.94 mg/L	1.30 NTU	129.8 mV	14.70 ft	220.00 ml/min
4/7/2020 1:26 PM	10:00	5.95 pH	18.54 °C	138.36 µS/cm	2.74 mg/L	4.13 NTU	114.5 mV	14.70 ft	220.00 ml/min
4/7/2020 1:31 PM	15:00	5.93 pH	18.57 °C	137.43 µS/cm	2.79 mg/L	4.16 NTU	114.2 mV	14.70 ft	220.00 ml/min
4/7/2020 1:36 PM	20:00	5.93 pH	18.54 °C	136.67 µS/cm	2.74 mg/L	4.17 NTU	113.5 mV	14.70 ft	220.00 ml/min
4/7/2020 1:41 PM	25:00	5.92 pH	18.48 °C	136.43 µS/cm	2.72 mg/L	3.89 NTU	113.4 mV	14.70 ft	220.00 ml/min
4/7/2020 1:46 PM	30:00	5.91 pH	18.53 °C	136.20 µS/cm	2.77 mg/L	3.49 NTU	129.0 mV	14.70 ft	220.00 ml/min

Samples

Sample ID:	Description:
ARGWA-12	Sampled at 13:46. Cloudy, 70 s.

Low-Flow Test Report:

Test Date / Time: 4/7/2020 2:37:20 PM

Project: Plant Arkwright - Ash Pond 3

Operator Name: Ryan Walker

Location Name: ARGWA-13 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 33 ft Total Depth: 43.25 ft Initial Depth to Water: 21.26 ft	Pump Type: QED Bladder Tubing Type: Poly Pump Intake From TOC: 38 ft Estimated Total Volume Pumped: 7 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.44 ft	Instrument Used: Aqua TROLL 400 Serial Number: 714293
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Test Notes:

Weather Conditions:

Cloudy 70 s

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.3	+/- 10	+/- 25	+/- 5	
4/7/2020 2:37 PM	00:00	6.31 pH	20.81 °C	1,272.3 µS/cm	5.41 mg/L		122.6 mV	21.26 ft	200.00 ml/min
4/7/2020 2:42 PM	05:00	5.97 pH	19.19 °C	1,222.1 µS/cm	2.16 mg/L	1.11 NTU	123.2 mV	21.70 ft	200.00 ml/min
4/7/2020 2:47 PM	10:00	5.91 pH	18.88 °C	779.58 µS/cm	3.02 mg/L	1.65 NTU	135.1 mV	21.70 ft	200.00 ml/min
4/7/2020 2:52 PM	15:00	5.89 pH	18.79 °C	686.68 µS/cm	3.36 mg/L	1.83 NTU	133.6 mV	21.70 ft	200.00 ml/min
4/7/2020 2:57 PM	20:00	5.88 pH	18.79 °C	632.24 µS/cm	3.46 mg/L	1.76 NTU	114.8 mV	21.70 ft	200.00 ml/min
4/7/2020 3:02 PM	25:00	5.87 pH	18.71 °C	605.57 µS/cm	3.45 mg/L	1.76 NTU	113.7 mV	21.70 ft	200.00 ml/min
4/7/2020 3:07 PM	30:00	5.86 pH	18.71 °C	590.52 µS/cm	3.40 mg/L	1.62 NTU	113.3 mV	21.70 ft	200.00 ml/min
4/7/2020 3:12 PM	35:00	5.85 pH	18.64 °C	573.07 µS/cm	3.37 mg/L	1.59 NTU	112.6 mV	21.70 ft	200.00 ml/min
4/7/2020 3:17 PM	40:00	5.85 pH	18.66 °C	557.87 µS/cm	3.35 mg/L	1.38 NTU	112.2 mV	21.70 ft	200.00 ml/min
4/7/2020 3:22 PM	45:00	5.84 pH	18.66 °C	550.73 µS/cm	3.37 mg/L	1.27 NTU	128.1 mV	21.70 ft	200.00 ml/min
4/7/2020 3:27 PM	50:00	5.84 pH	18.66 °C	543.40 µS/cm	3.37 mg/L	1.24 NTU	112.2 mV	21.70 ft	200.00 ml/min
4/7/2020 3:32 PM	55:00	5.84 pH	18.63 °C	541.75 µS/cm	3.40 mg/L	1.15 NTU	111.7 mV	21.70 ft	200.00 ml/min

Samples

Sample ID:	Description:
ARGWA-13	Sampled at 15:32. Cloudy, 70 s.

Low-Flow Test Report:

Test Date / Time: 4/6/2020 2:47:46 PM

Project: Plant Arkwright - Ash Pond 3

Operator Name: Ryan Walker

Location Name: ARGWA-14 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 48 ft Total Depth: 58.18 ft Initial Depth to Water: 41.1 ft	Pump Type: QED Bladder Tubing Type: Poly Pump Intake From TOC: 53 ft Estimated Total Volume Pumped: 3500 ml Flow Cell Volume: 90 ml Final Flow Rate: 50 ml/min Final Draw Down: 4.3 ft	Instrument Used: Aqua TROLL 400 Serial Number: 714293
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Test Notes:

Weather Conditions:

Sunny, 70 s

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
4/6/2020 2:47 PM	00:00	7.49 pH	22.09 °C	233.78 µS/cm	8.71 mg/L		103.6 mV	41.10 ft	50.00 ml/min
4/6/2020 2:52 PM	05:00	6.63 pH	21.52 °C	379.28 µS/cm	4.62 mg/L	2.94 NTU	98.2 mV	42.30 ft	50.00 ml/min
4/6/2020 2:57 PM	10:00	6.67 pH	21.33 °C	471.38 µS/cm	3.00 mg/L	2.43 NTU	107.1 mV	42.70 ft	50.00 ml/min
4/6/2020 3:02 PM	15:00	6.68 pH	21.78 °C	482.57 µS/cm	3.10 mg/L	0.95 NTU	97.4 mV	43.10 ft	50.00 ml/min
4/6/2020 3:07 PM	20:00	6.67 pH	22.00 °C	485.87 µS/cm	3.23 mg/L	0.94 NTU	97.2 mV	43.40 ft	50.00 ml/min
4/6/2020 3:12 PM	25:00	6.67 pH	21.82 °C	486.59 µS/cm	3.35 mg/L	0.99 NTU	97.1 mV	43.80 ft	50.00 ml/min
4/6/2020 3:17 PM	30:00	6.66 pH	21.86 °C	481.32 µS/cm	3.38 mg/L	0.98 NTU	97.2 mV	44.20 ft	50.00 ml/min
4/6/2020 3:22 PM	35:00	6.65 pH	22.18 °C	479.28 µS/cm	3.41 mg/L	1.55 NTU	97.2 mV	44.40 ft	50.00 ml/min
4/6/2020 3:27 PM	40:00	6.65 pH	22.10 °C	475.97 µS/cm	3.46 mg/L	1.61 NTU	97.2 mV	44.50 ft	50.00 ml/min
4/6/2020 3:32 PM	45:00	6.65 pH	21.85 °C	476.32 µS/cm	3.44 mg/L	0.98 NTU	97.2 mV	44.70 ft	50.00 ml/min
4/6/2020 3:37 PM	50:00	6.65 pH	21.58 °C	475.32 µS/cm	3.42 mg/L	0.65 NTU	97.1 mV	44.90 ft	50.00 ml/min
4/6/2020 3:42 PM	55:00	6.65 pH	21.50 °C	474.67 µS/cm	3.40 mg/L	1.35 NTU	96.9 mV	45.10 ft	50.00 ml/min
4/6/2020 3:47 PM	01:00:00	6.66 pH	21.52 °C	471.50 µS/cm	3.38 mg/L	0.73 NTU	96.5 mV	45.20 ft	50.00 ml/min

4/6/2020 3:52 PM	01:05:00	6.66 pH	21.33 °C	468.94 µS/cm	3.39 mg/L	0.68 NTU	96.2 mV	45.30 ft	50.00 ml/min
4/6/2020 3:57 PM	01:10:00	6.65 pH	21.42 °C	463.13 µS/cm	3.42 mg/L	0.73 NTU	101.7 mV	45.40 ft	50.00 ml/min

Samples

Sample ID:	Description:
ARGWA-14	Sunny, 80 s

Product Name: Low-Flow System

Date: 2020-04-08 09:55:49

Project Information:

Operator Name Taylor Goble
Company Name ACC
Project Name Plant Arkwright Ash Pond 3
Site Name Plant Arkwright Ash Pond 3
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 369807
Turbidity Make/Model HACH

Pump Information:

Pump Model/Type QED Bladder Pump
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 48 ft

Pump placement from TOC 43 ft

Well Information:

Well ID ARGWC-7
Well diameter 2 in
Well Total Depth 48.32 ft
Screen Length 10 ft
Depth to Water 20.20 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.3042443 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 4 in
Total Volume Pumped 6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 25
Last 5	09:35:04	900.01	18.65	6.02	154.27	2.69	20.44	4.22	135.74
Last 5	09:40:04	1200.01	18.70	5.88	153.94	2.14	20.50	4.13	132.25
Last 5	09:45:04	1500.00	18.71	5.80	153.97	1.88	20.56	3.74	131.17
Last 5	09:50:04	1800.00	18.68	5.78	153.89	1.74	20.62	4.09	129.44
Last 5	09:55:04	2099.99	18.71	5.75	153.97	1.32	20.68	3.90	129.00
Variance 0			0.01	-0.07	0.03			-0.39	-1.08
Variance 1			-0.03	-0.03	-0.08			0.34	-1.73
Variance 2			0.03	-0.02	0.08			-0.19	-0.44

Notes

Sampled at 0955. Cloudy 68 degrees

Grab Samples

Product Name: Low-Flow System

Date: 2020-04-09 12:36:42

Project Information:

Operator Name Taylor Goble
Company Name ACC
Project Name Plant Arkwright Ash Pond 3
Site Name Plant Arkwright Ash Pond 3
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 369807
Turbidity Make/Model HACH

Pump Information:

Pump Model/Type QED Bladder Pump
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 43 ft

Pump placement from TOC 38 ft

Well Information:

Well ID ARGWC-8
Well diameter 2 in
Well Total Depth 43.22 ft
Screen Length 10 ft
Depth to Water 24.76 ft

Pumping Information:

Final Pumping Rate 150 mL/min
Total System Volume 0.2819272 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 2 in
Total Volume Pumped 22 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 25
Last 5	12:15:13	7509.91	23.88	6.45	407.80	6.60	24.92	0.21	529.73
Last 5	12:20:13	7809.91	24.15	6.45	409.06	6.00	24.92	0.23	536.07
Last 5	12:25:13	8109.90	24.60	6.45	407.60	5.30	24.92	0.24	538.74
Last 5	12:30:13	8409.90	24.81	6.45	407.42	5.00	24.92	0.25	533.92
Last 5	12:35:13	8709.89	23.97	6.42	405.64	4.80	24.92	0.29	532.86
Variance 0			0.45	0.00	-1.46			0.01	2.68
Variance 1			0.21	0.00	-0.19			0.01	-4.82
Variance 2			-0.84	-0.03	-1.78			0.04	-1.06

Notes

Sampled at 1235. Sunny 76 degrees

Grab Samples

Low-Flow Test Report:

Test Date / Time: 4/9/2020 8:40:05 AM

Project: Plant Arkwright - Ash Pond 3

Operator Name: Ryan Walker

Location Name: ARGWC-9 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 28 ft Total Depth: 38.07 ft Initial Depth to Water: 18.68 ft	Pump Type: QED Bladder Tubing Type: Poly Pump Intake From TOC: 33 ft Estimated Total Volume Pumped: 39 liter Flow Cell Volume: 90 ml Final Flow Rate: 400 ml/min Final Draw Down: 0.32 ft	Instrument Used: Aqua TROLL 400 Serial Number: 714293
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Test Notes:

Weather Conditions:

Sunny, 70 s.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.3	+/- 10	+/- 25	+/- 0.3	
4/9/2020 8:40 AM	00:00	6.03 pH	19.35 °C	66.04 µS/cm	6.91 mg/L		103.2 mV	18.68 ft	200.00 ml/min
4/9/2020 8:45 AM	05:00	5.92 pH	19.68 °C	62.77 µS/cm	6.51 mg/L	3.82 NTU	97.5 mV	18.80 ft	200.00 ml/min
4/9/2020 8:50 AM	10:00	5.91 pH	19.78 °C	62.29 µS/cm	6.33 mg/L	17.70 NTU	98.0 mV	18.80 ft	200.00 ml/min
4/9/2020 8:55 AM	15:00	5.90 pH	19.74 °C	62.25 µS/cm	6.31 mg/L	22.10 NTU	99.3 mV	18.80 ft	400.00 ml/min
4/9/2020 9:00 AM	20:00	5.90 pH	19.76 °C	62.30 µS/cm	6.26 mg/L	20.70 NTU	100.4 mV	19.00 ft	400.00 ml/min
4/9/2020 9:05 AM	25:00	5.90 pH	19.73 °C	62.83 µS/cm	6.25 mg/L	24.10 NTU	112.4 mV	19.00 ft	400.00 ml/min
4/9/2020 9:10 AM	30:00	5.90 pH	19.82 °C	62.91 µS/cm	6.25 mg/L	16.20 NTU	114.2 mV	19.00 ft	400.00 ml/min
4/9/2020 9:15 AM	35:00	5.90 pH	19.88 °C	62.85 µS/cm	6.22 mg/L	13.20 NTU	115.8 mV	19.00 ft	400.00 ml/min
4/9/2020 9:20 AM	40:00	5.90 pH	19.86 °C	62.82 µS/cm	6.21 mg/L	15.70 NTU	117.0 mV	19.00 ft	400.00 ml/min
4/9/2020 9:25 AM	45:00	5.90 pH	19.94 °C	62.83 µS/cm	6.21 mg/L	12.90 NTU	118.3 mV	19.00 ft	400.00 ml/min
4/9/2020 9:30 AM	50:00	5.90 pH	19.97 °C	62.84 µS/cm	6.23 mg/L	10.60 NTU	119.3 mV	19.00 ft	400.00 ml/min
4/9/2020 9:35 AM	55:00	5.90 pH	20.04 °C	62.86 µS/cm	6.21 mg/L	10.40 NTU	120.1 mV	19.00 ft	400.00 ml/min
4/9/2020 9:40 AM	01:00:00	5.89 pH	20.04 °C	62.75 µS/cm	6.18 mg/L	7.96 NTU	121.4 mV	19.00 ft	400.00 ml/min

4/9/2020 9:45 AM	01:05:00	5.90 pH	20.09 °C	62.79 µS/cm	6.17 mg/L	11.10 NTU	122.3 mV	19.00 ft	400.00 ml/min
4/9/2020 9:50 AM	01:10:00	5.90 pH	20.14 °C	62.73 µS/cm	6.16 mg/L	6.91 NTU	123.0 mV	19.00 ft	400.00 ml/min
4/9/2020 9:55 AM	01:15:00	5.90 pH	20.04 °C	62.81 µS/cm	6.17 mg/L	5.60 NTU	124.1 mV	19.00 ft	400.00 ml/min
4/9/2020 10:00 AM	01:20:00	5.90 pH	20.15 °C	62.75 µS/cm	6.14 mg/L	6.13 NTU	124.9 mV	19.00 ft	400.00 ml/min
4/9/2020 10:05 AM	01:25:00	5.90 pH	20.13 °C	62.69 µS/cm	6.13 mg/L	8.29 NTU	125.8 mV	19.00 ft	400.00 ml/min
4/9/2020 10:10 AM	01:30:00	5.90 pH	20.20 °C	62.70 µS/cm	6.13 mg/L	7.04 NTU	126.5 mV	19.00 ft	400.00 ml/min
4/9/2020 10:15 AM	01:35:00	5.90 pH	20.18 °C	62.69 µS/cm	6.12 mg/L	6.94 NTU	127.2 mV	19.00 ft	400.00 ml/min
4/9/2020 10:20 AM	01:40:00	5.90 pH	20.17 °C	62.75 µS/cm	6.12 mg/L	6.33 NTU	128.0 mV	19.00 ft	400.00 ml/min
4/9/2020 10:25 AM	01:45:00	5.90 pH	20.23 °C	62.65 µS/cm	6.10 mg/L	4.75 NTU	128.6 mV	19.00 ft	400.00 ml/min

Samples

Sample ID:	Description:
ARGWC-9	Sampled at 10:25. Sunny, 80 s.

Low-Flow Test Report:

Test Date / Time: 4/8/2020 2:12:43 PM

Project: Plant Arkwright - Ash Pond 3

Operator Name: Ryan Walker

Location Name: ARGWC-10 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 28 ft Total Depth: 38.35 ft Initial Depth to Water: 19.24 ft	Pump Type: QED Bladder Tubing Type: Poly Pump Intake From TOC: 33 ft Estimated Total Volume Pumped: 38.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 220 ml/min Final Draw Down: 0.16 ft	Instrument Used: Aqua TROLL 400 Serial Number: 714293
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Test Notes:

Weather Conditions:

Sunny, 80 s.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.3	+/- 10	+/- 10	+/- 0.3	
4/8/2020 2:12 PM	00:00	6.12 pH	22.54 °C	76.06 µS/cm	5.58 mg/L		87.6 mV	19.24 ft	220.00 ml/min
4/8/2020 2:17 PM	05:00	6.01 pH	20.31 °C	78.74 µS/cm	4.93 mg/L	6.84 NTU	88.2 mV	19.40 ft	220.00 ml/min
4/8/2020 2:22 PM	10:00	5.99 pH	20.12 °C	78.90 µS/cm	4.65 mg/L	11.70 NTU	89.9 mV	19.40 ft	220.00 ml/min
4/8/2020 2:27 PM	15:00	5.98 pH	20.09 °C	79.42 µS/cm	4.58 mg/L	11.80 NTU	101.7 mV	19.40 ft	220.00 ml/min
4/8/2020 2:32 PM	20:00	5.98 pH	19.95 °C	79.40 µS/cm	4.60 mg/L	13.00 NTU	103.6 mV	19.40 ft	220.00 ml/min
4/8/2020 2:37 PM	25:00	5.97 pH	20.22 °C	79.37 µS/cm	4.57 mg/L	14.90 NTU	105.3 mV	19.40 ft	220.00 ml/min
4/8/2020 2:42 PM	30:00	5.97 pH	20.22 °C	79.41 µS/cm	4.54 mg/L	14.80 NTU	107.1 mV	19.40 ft	220.00 ml/min
4/8/2020 2:47 PM	35:00	5.97 pH	20.24 °C	78.61 µS/cm	4.56 mg/L	11.50 NTU	96.1 mV	19.40 ft	220.00 ml/min
4/8/2020 2:52 PM	40:00	5.96 pH	20.16 °C	78.10 µS/cm	4.57 mg/L	11.63 NTU	96.8 mV	19.40 ft	220.00 ml/min
4/8/2020 2:57 PM	45:00	5.96 pH	20.28 °C	78.81 µS/cm	4.57 mg/L	10.21 NTU	109.1 mV	19.40 ft	220.00 ml/min
4/8/2020 3:02 PM	50:00	5.96 pH	20.22 °C	78.67 µS/cm	4.62 mg/L	9.97 NTU	110.7 mV	19.40 ft	220.00 ml/min
4/8/2020 3:07 PM	55:00	5.95 pH	20.12 °C	78.63 µS/cm	4.61 mg/L	13.60 NTU	112.0 mV	19.40 ft	220.00 ml/min
4/8/2020 3:12 PM	01:00:00	5.95 pH	20.13 °C	78.96 µS/cm	4.63 mg/L	12.90 NTU	113.0 mV	19.40 ft	220.00 ml/min

4/8/2020 3:17 PM	01:05:00	5.95 pH	20.17 °C	78.77 µS/cm	4.59 mg/L	9.98 NTU	114.0 mV	19.40 ft	220.00 ml/min
4/8/2020 3:22 PM	01:10:00	5.95 pH	20.17 °C	78.82 µS/cm	4.61 mg/L	11.10 NTU	115.1 mV	19.40 ft	220.00 ml/min
4/8/2020 3:27 PM	01:15:00	5.95 pH	20.27 °C	78.59 µS/cm	4.60 mg/L	12.60 NTU	101.9 mV	19.40 ft	220.00 ml/min
4/8/2020 3:32 PM	01:20:00	5.95 pH	20.44 °C	78.15 µS/cm	4.57 mg/L	13.80 NTU	102.0 mV	19.40 ft	220.00 ml/min
4/8/2020 3:37 PM	01:25:00	5.95 pH	20.40 °C	78.40 µS/cm	4.58 mg/L	10.10 NTU	102.2 mV	19.40 ft	220.00 ml/min
4/8/2020 3:42 PM	01:30:00	5.95 pH	20.25 °C	78.25 µS/cm	4.58 mg/L	12.30 NTU	102.4 mV	19.40 ft	220.00 ml/min
4/8/2020 3:47 PM	01:35:00	5.95 pH	20.17 °C	78.38 µS/cm	4.59 mg/L	11.70 NTU	102.6 mV	19.40 ft	220.00 ml/min
4/8/2020 3:52 PM	01:40:00	5.95 pH	20.13 °C	78.31 µS/cm	4.57 mg/L	11.00 NTU	102.7 mV	19.40 ft	220.00 ml/min
4/8/2020 3:57 PM	01:45:00	5.95 pH	20.15 °C	78.36 µS/cm	4.59 mg/L	8.43 NTU	102.9 mV	19.40 ft	220.00 ml/min
4/8/2020 4:02 PM	01:50:00	5.95 pH	20.16 °C	78.23 µS/cm	4.57 mg/L	9.41 NTU	103.1 mV	19.40 ft	220.00 ml/min
4/8/2020 4:07 PM	01:55:00	5.95 pH	20.09 °C	78.42 µS/cm	4.56 mg/L	12.90 NTU	103.4 mV	19.40 ft	220.00 ml/min
4/8/2020 4:12 PM	02:00:00	5.95 pH	19.77 °C	79.31 µS/cm	4.62 mg/L	9.89 NTU	118.4 mV	19.40 ft	220.00 ml/min
4/8/2020 4:17 PM	02:05:00	5.95 pH	19.75 °C	78.83 µS/cm	4.52 mg/L	12.10 NTU	119.4 mV	19.40 ft	220.00 ml/min
4/8/2020 4:22 PM	02:10:00	5.95 pH	19.73 °C	78.29 µS/cm	4.54 mg/L	11.00 NTU	104.5 mV	19.40 ft	220.00 ml/min
4/8/2020 4:27 PM	02:15:00	5.95 pH	19.73 °C	78.29 µS/cm	4.51 mg/L	9.81 NTU	104.2 mV	19.40 ft	220.00 ml/min
4/8/2020 4:32 PM	02:20:00	5.95 pH	19.68 °C	78.33 µS/cm	4.51 mg/L	8.40 NTU	104.2 mV	19.40 ft	220.00 ml/min
4/8/2020 4:37 PM	02:25:00	5.94 pH	19.65 °C	78.16 µS/cm	4.50 mg/L	7.73 NTU	104.5 mV	19.40 ft	220.00 ml/min
4/8/2020 4:42 PM	02:30:00	5.95 pH	19.60 °C	79.02 µS/cm	4.50 mg/L	8.37 NTU	120.0 mV	19.40 ft	220.00 ml/min
4/8/2020 4:47 PM	02:35:00	5.95 pH	19.53 °C	78.98 µS/cm	4.48 mg/L	6.89 NTU	120.9 mV	19.40 ft	220.00 ml/min
4/8/2020 4:52 PM	02:40:00	5.95 pH	19.54 °C	79.27 µS/cm	4.51 mg/L	8.11 NTU	121.5 mV	19.40 ft	220.00 ml/min
4/8/2020 4:57 PM	02:45:00	5.95 pH	19.49 °C	78.92 µS/cm	4.46 mg/L	6.14 NTU	122.0 mV	19.40 ft	220.00 ml/min
4/8/2020 5:02 PM	02:50:00	5.95 pH	19.51 °C	78.24 µS/cm	4.45 mg/L	5.58 NTU	106.0 mV	19.40 ft	220.00 ml/min
4/8/2020 5:07 PM	02:55:00	5.95 pH	19.50 °C	78.27 µS/cm	4.46 mg/L	4.51 NTU	105.4 mV	19.40 ft	220.00 ml/min

Samples

Sample ID:	Description:
ARGWC-10	Sampled at 17:09. Cloudy, 70 s.

Product Name: Low-Flow System

Date: 2020-04-08 16:16:10

Project Information:

Operator Name Taylor Goble
Company Name ACC
Project Name Plant Arkwright Ash Pond 3
Site Name Plant Arkwright Ash Pond 3
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 369807
Turbidity Make/Model HACH

Pump Information:

Pump Model/Type QED Bladder Pump
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 42 ft

Pump placement from TOC 37 ft

Well Information:

Well ID ARGWC-15
Well diameter 2 in
Well Total Depth 42.35 ft
Screen Length 10 ft
Depth to Water 27.15 ft

Pumping Information:

Final Pumping Rate 50 mL/min
Total System Volume 0.2774638 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 12 in
Total Volume Pumped 2 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 25
Last 5	15:55:03	900.01	20.36	6.37	209.40	1.91	27.76	1.07	102.79
Last 5	16:00:03	1200.01	20.33	6.34	198.94	1.62	27.83	1.22	96.86
Last 5	16:05:03	1500.01	20.26	6.29	189.42	1.55	27.91	1.52	95.17
Last 5	16:10:03	1800.00	20.19	6.27	187.42	1.37	28.01	1.63	94.70
Last 5	16:15:03	2100.00	20.32	6.26	188.34	1.25	28.11	1.71	93.76
Variance 0			-0.08	-0.05	-9.52			0.30	-1.69
Variance 1			-0.06	-0.02	-2.00			0.11	-0.47
Variance 2			0.13	-0.01	0.91			0.07	-0.94

Notes

Sampled at 1615. Cloudy 82 degrees

Grab Samples

Product Name: Low-Flow System

Date: 2020-04-08 11:15:49

Project Information:

Operator Name Taylor Goble
Company Name ACC
Project Name Plant Arkwright Ash Pond 3
Site Name Plant Arkwright Ash Pond 3
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 369807
Turbidity Make/Model HACH

Pump Information:

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

Pump placement from TOC 30 ft

Well Information:

Well ID ARGWC-16
Well diameter 2 in
Well Total Depth 34.52 ft
Screen Length 10 ft
Depth to Water 19.19 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.2462198 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 1 in
Total Volume Pumped 6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 25
Last 5	10:55:11	600.01	18.92	5.23	506.95	1.26	19.21	2.22	139.57
Last 5	11:00:11	900.01	18.96	5.07	504.90	1.11	19.22	2.01	133.99
Last 5	11:05:11	1200.01	18.97	5.07	501.24	1.45	19.24	2.01	131.85
Last 5	11:10:11	1500.00	19.05	5.07	494.94	1.17	19.25	2.05	130.57
Last 5	11:15:11	1799.99	19.18	5.07	489.28	1.55	19.26	2.08	130.01
Variance 0			0.00	-0.01	-3.66			-0.01	-2.14
Variance 1			0.09	0.00	-6.31			0.04	-1.29
Variance 2			0.13	0.00	-5.66			0.04	-0.56

Notes

Sampled at 1115. Cloudy 71 degrees

Grab Samples

Product Name: Low-Flow System

Date: 2020-04-08 14:31:28

Project Information:

Operator Name Taylor Goble
Company Name ACC
Project Name Plant Arkwright Ash Pond 3
Site Name Plant Arkwright Ash Pond 3
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 369807
Turbidity Make/Model HACH

Pump Information:

Pump Model/Type QED Bladder Pump
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 49 ft

Pump placement from TOC 44 ft

Well Information:

Well ID ARGWC-17
Well diameter 2 in
Well Total Depth 48.32 ft
Screen Length 10 ft
Depth to Water 20.87 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 0.3087077 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0 in
Total Volume Pumped 6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 25
Last 5	14:10:07	2699.99	21.02	5.05	145.32	16.30	21.20	1.81	115.66
Last 5	14:15:07	2999.98	21.19	5.05	144.91	12.90	21.20	1.73	114.56
Last 5	14:20:07	3299.98	21.24	5.03	143.84	9.98	21.20	1.58	113.63
Last 5	14:25:07	3599.98	21.56	5.03	143.41	7.30	21.20	1.57	113.23
Last 5	14:30:07	3899.97	21.93	5.02	143.21	4.76	21.20	1.61	115.07
Variance 0			0.04	-0.02	-1.08			-0.15	-0.93
Variance 1			0.33	0.00	-0.43			-0.01	-0.40
Variance 2			0.36	-0.01	-0.20			0.04	1.85

Notes

Sampled at 1430. Mostly cloudy 79 degrees

Grab Samples

Product Name: Low-Flow System

Date: 2020-04-09 09:41:17

Project Information:

Operator Name Taylor Goble
Company Name ACC
Project Name Plant Arkwright Ash Pond 3
Site Name Plant Arkwright Ash Pond 3
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 369807
Turbidity Make/Model HACH

Pump Information:

Pump Model/Type QED Bladder Pump
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 51 ft

Pump placement from TOC 46 ft

Well Information:

Well ID ARGWC-18
Well diameter 2 in
Well Total Depth 50.65 ft
Screen Length 10 ft
Depth to Water 27.29 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.3176346 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 6 in
Total Volume Pumped 6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 25
Last 5	09:20:08	600.01	19.79	6.53	419.55	4.23	27.71	0.79	-40.89
Last 5	09:25:08	900.00	19.86	6.22	493.60	3.17	27.75	0.42	21.62
Last 5	09:30:08	1200.00	19.90	6.08	513.48	3.37	27.79	0.25	35.93
Last 5	09:35:08	1500.00	19.99	6.01	520.62	3.99	27.84	0.20	43.32
Last 5	09:40:08	1799.99	20.04	5.98	523.38	4.13	27.89	0.19	46.94
Variance 0			0.04	-0.14	19.88			-0.18	14.31
Variance 1			0.09	-0.07	7.14			-0.04	7.39
Variance 2			0.05	-0.03	2.77			-0.01	3.62

Notes

Sampled at 0940. Sunny 67 degrees

Grab Samples

Georgia Power Site Sampling Data (GW)

Site Name : Plant Arkwright

Date : 4/6 - 4/9/20

Well ID	Sample Date	Sample Time	Additional Comments
ASH POND #3			
ARGWA-3	4-7-20	1045	pH=5.90
ARGWA-5	4-7-20	1146	pH=5.86
ARGWA-12	4-7-20	1346	pH=5.91
ARGWA-13	4-7-20	1532	pH=5.84 FB-1 here
ARGWA-14	4-6-20	1557	pH=5.90
ARGWC-7	4-8-20	0955	pH=5.75 Extra Rad here
ARGWC-8	4-9-20	1235	pH=6.42
ARGWC-9	4-9-20	1025	pH=5.90 EB-1 here
ARGWC-10	4-8-20	1709	pH=5.95
ARGWC-15	4-8-20	1615	pH=6.26
ARGWC-16	4-8-20	1115	pH=5.07
ARGWC-17	4-8-20	1430	pH=5.02
ARGWC-18	4-9-20	0940	pH=5.98
EB-1-4-9-20	4-9-20	1040	Equipment type: WL
Dup-1	4-8-20	1115	Parent Sample: ARGWC-16
FB-1-4-7-20	4-7-20	1600	Poured at: ARGWA-13
ASH POND #2			
ARGWA-19	4-7-20	1008	pH=5.72
ARGWA-20	4-6-20	1622	pH=5.53
ARGWC-21	4-7-20	1619	pH=5.96
ARGWC-22	4-7-20	1418	pH=5.84
ARGWC-23	4-7-20	1200	pH=6.40
EB-2-4-7-20	4-7-20	1445	Equipment type: Peri Pump
Dup-2	4-7-20	1008	Parent Sample: ARGWA-19
FB-2-4-6-20	4-6-20	1520	Poured at: ARGWA-20
Additional comments :			
* Add date to EB and FB sample IDs.			



ATLANTIC COAST
CONSULTING, INC.

WELL CONDITION SUMMARY

Site: Plant Arkwright

Personnel: RW/TG

Date(s): 4/6-4/9/20

Page: 1 of 3

Well ID	Protective Casing	Well Casing	Label	Bollards	Lock	Well Pad	Weep Hole	Vent Hole	Notes
ARGWA-3	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
ARGWA-5	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
ARGWA-12	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
ARGWA-13	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
ARGWA-14	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
ARGWC-7	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	One ball and down
ARGWC-8	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
ARGWC-9	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
ARGWC-10	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
ARGWC-15	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	



ATLANTIC COAST
CONSULTING, INC.

WELL CONDITION SUMMARY

Site: Plant Arkwright

Personnel: Rw/TG

Date(s): 4/6-4/9/20

Page: 2 of 3

Well ID	Protective Casing	Well Casing	Label	Bollards	Lock	Well Pad	Weep Hole	Vent Hole	Notes
ARGWC-16	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
ARGWC-17	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
ARGWC-18	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
ARGWA-19	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
ARGWA-20	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
ARGWC-21	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
ARAMW-22	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
ARAMW-23	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
ARAMW-1	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
ARAMW-2	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	



ATLANTIC COAST
CONSULTING, INC.

WELL CONDITION SUMMARY

Site: Plant Arkwright

Personnel: Rw/TG

Date(s): 2/6-4/9/20

Page: 3 of 3

Well ID	Protective Casing	Well Casing	Label	Bollards	Lock	Well Pad	Weep Hole	Vent Hole	Notes
ARAMW-3	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
ARAMW-4	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
ARAMW-6	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
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	<input type="checkbox"/> OK <input type="checkbox"/> Damaged	<input type="checkbox"/> OK <input type="checkbox"/> Damaged	<input type="checkbox"/> OK <input type="checkbox"/> Deficient	<input type="checkbox"/> OK <input type="checkbox"/> Deficient	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> OK <input type="checkbox"/> Damaged	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	

ANALYTICAL REPORT

Eurofins TestAmerica, Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

Laboratory Job ID: 180-106373-3

Client Project/Site: CCR - Plant Arkwright Ash Pond 3

For:

Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Attn: Joju Abraham



Authorized for release by:
6/12/2020 10:38:32 AM

Shali Brown, Project Manager II
(615)301-5031
shali.brown@testamericainc.com

LINKS

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results through
TotalAccess

Have a Question?



Visit us at:

www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

PA Lab ID: 02-00416



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Case Narrative

Client: Southern Company
Project/Site: CCR - Plant Arkwright Ash Pond 3

Job ID: 180-106373-3

Job ID: 180-106373-3

Laboratory: Eurofins TestAmerica, Pittsburgh

Narrative

Job Narrative
180-106373-3

Comments

No additional comments.

Receipt

The samples were received on 5/29/2020 8:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.8° C.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Field Service / Mobile Lab

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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Definitions/Glossary

Client: Southern Company
Project/Site: CCR - Plant Arkwright Ash Pond 3

Job ID: 180-106373-3

Qualifiers

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: Southern Company
 Project/Site: CCR - Plant Arkwright Ash Pond 3

Job ID: 180-106373-3

Laboratory: Eurofins TestAmerica, Pittsburgh

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	19-033-0	06-27-20
California	State	2891	04-30-21
Connecticut	State	PH-0688	09-30-20
Florida	NELAP	E871008	06-30-20
Georgia	State	PA 02-00416	04-30-21
Illinois	NELAP	004375	06-30-20
Kansas	NELAP	E-10350	01-31-21
Kentucky (UST)	State	162013	04-30-21
Kentucky (WW)	State	KY98043	12-31-20
Louisiana	NELAP	04041	06-30-20
Maine	State	PA00164	03-06-22
Minnesota	NELAP	042-999-482	12-31-20
Nevada	State	PA00164	07-31-20
New Hampshire	NELAP	2030	04-05-21
New Jersey	NELAP	PA005	06-30-20
New York	NELAP	11182	04-01-21
North Carolina (WW/SW)	State	434	01-01-21
North Dakota	State	R-227	04-30-21
Oregon	NELAP	PA-2151	02-06-21
Pennsylvania	NELAP	02-00416	05-23-21
Rhode Island	State	LAO00362	12-31-20
South Carolina	State	89014	04-30-21
Texas	NELAP	T104704528	03-31-21
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	Federal	P-Soil-01	06-26-22
USDA	US Federal Programs	P330-16-00211	06-26-22
Utah	NELAP	PA001462019-8	05-31-20 *
Virginia	NELAP	10043	09-15-20
West Virginia DEP	State	142	02-01-21
Wisconsin	State	998027800	08-31-20

* Accreditation/Certification renewal pending - accreditation/certification considered valid.



Sample Summary

Client: Southern Company
Project/Site: CCR - Plant Arkwright Ash Pond 3

Job ID: 180-106373-3

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
180-106373-5	ARGWC-10	Water	05/27/20 19:10	05/29/20 08:45	

- 1
- 2
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Method Summary

Client: Southern Company
Project/Site: CCR - Plant Arkwright Ash Pond 3

Job ID: 180-106373-3

Method	Method Description	Protocol	Laboratory
EPA 6020B	Metals (ICP/MS)	SW846	TAL PIT
Field Sampling	Field Sampling	EPA	TAL PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PIT

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Arkwright Ash Pond 3

Job ID: 180-106373-3

Client Sample ID: ARGWC-10

Lab Sample ID: 180-106373-5

Date Collected: 05/27/20 19:10

Matrix: Water

Date Received: 05/29/20 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	317054	06/01/20 09:01	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: DORY		1			317672	06/05/20 22:56	RSK	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			317243	05/27/20 19:10	FDS	TAL PIT

Laboratory References:

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Analyst References:

Lab: TAL PIT

Batch Type: Prep

KEM = Kimberly Mahoney

Batch Type: Analysis

FDS = Sampler Field

RSK = Robert Kurtz

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Arkwright Ash Pond 3

Job ID: 180-106373-3

Client Sample ID: ARGWC-10

Lab Sample ID: 180-106373-5

Date Collected: 05/27/20 19:10

Matrix: Water

Date Received: 05/29/20 08:45

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.00014	J	0.0010	0.00013	mg/L		06/01/20 09:01	06/05/20 22:56	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.98				SU			05/27/20 19:10	1

QC Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Arkwright Ash Pond 3

Job ID: 180-106373-3

Method: EPA 6020B - Metals (ICP/MS)

Lab Sample ID: MB 180-317054/1-A
Matrix: Water
Analysis Batch: 317672

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 317054

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.00013		0.0010	0.00013	mg/L		06/01/20 08:43	06/05/20 20:44	1

Lab Sample ID: LCS 180-317054/2-A
Matrix: Water
Analysis Batch: 317672

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 317054

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Lead	0.500	0.496		mg/L		99	80 - 120



QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Arkwright Ash Pond 3

Job ID: 180-106373-3

Metals

Prep Batch: 317054

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-106373-5	ARGWC-10	Total Recoverable	Water	3005A	
MB 180-317054/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-317054/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 317672

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-106373-5	ARGWC-10	Total Recoverable	Water	EPA 6020B	317054
MB 180-317054/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	317054
LCS 180-317054/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	317054

Field Service / Mobile Lab

Analysis Batch: 317243

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-106373-5	ARGWC-10	Total/NA	Water	Field Sampling	



ORIGIN ID: NCQA (770) 421-3349
DANIEL HOWARD
WOOD E & IS
SUITE 100
1075 BIG SHANTY RD NW STE 100
KENNESAW, GA 30144
UNITED STATES US

SHIP DATE
ACTWT: 6994
CAD: 6994
DIMS: 24x12x12
BILL THIRD PARTY

TO **SAMPLE RECEIVING
EUROFINS TEST AMERICA
301 ALPHA DR RIDC PARK**

PITTSBURGH PA 15238

(412) 983-7068
REF: DEPT:

Package
S Airbill

FedEx
Tracking
Number

8121 9394 6105



FedEx
Express



J201120042401 by

Align Over Top of FedEx Couch Here

1075 Big Shanty Rd NW Ste 100
Kennesaw GA 30144
Phone 770 421-3349

Wood E & IS

BIG SHANTY RD NW STE 100
Dept./Floor/Suite/Room

State GA ZIP 30144-3652

Reference

61222014292002

Sample Receiving Phone 412 963

1075 Eurofins Test America Pittsb

Alpha Drive RIDC Park

City or P.O. ZIP codes

Dept./Floor/Suite/Room

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FedEx 2Day to select locations.

Destination address or for continuation of your shipping address.

State PA ZIP 15238

TRK# 8121 9394 6105
0215

FRI - 29 MAY 10:30A
PRIORITY OVERNIGHT

15238
PA-US PIT



180-106373 Waybill

F Initials B

WI-SR-001 effective 7/26/13



8121 9394 6105

Total Packages

Total Weight

Credit Card Auth.

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Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-106373-3

Login Number: 106373

List Source: Eurofins TestAmerica, Pittsburgh

List Number: 1

Creator: Watson, Debbie

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Product Name: Low-Flow System

Date: 2020-05-27 19:12:34

Project Information:

Operator Name Daniel Howard
Company Name Wood E&IS
Project Name Plant Arkwright Ash Pond 3 - CCR
Site Name ARGWC-10
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 459710
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type QED Micropurge
Tubing Type HDPE
Tubing Diameter .25 in
Tubing Length 38.35 ft

Pump placement from TOC 33.35 ft

Well Information:

Well ID ARGWC-10
Well diameter 2 in
Well Total Depth 38.35 ft
Screen Length 10 ft
Depth to Water 19.75 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.8501822 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.14 in
Total Volume Pumped 31 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 10
Last 5	18:48:02	8099.79	18.53	5.98	108.41	5.96	19.89	4.66	91.28
Last 5	18:53:02	8399.79	18.53	5.98	108.47	5.32	19.89	4.65	91.12
Last 5	18:58:02	8699.79	18.51	5.98	108.21	5.13	19.89	4.66	91.22
Last 5	19:03:02	8999.79	18.54	5.98	108.18	4.62	19.89	4.65	91.26
Last 5	19:08:03	9299.87	18.57	5.98	108.34	4.70	19.89	4.64	91.20
Variance 0			-0.01	-0.00	-0.26			0.01	0.10
Variance 1			0.03	-0.00	-0.02			-0.00	0.04
Variance 2			0.02	0.00	0.16			-0.02	-0.06

Notes

GWC-10 sample time 1910.

Grab Samples

APPENDIX C

STATISTICAL ANALYSIS

Statistical Analysis Results Summary Appendix I October 2019

<u>Constituent</u>	<u>Wells with Concentrations Above Prediction Limits</u>
None	None

Statistical Analysis Results Summary Appendix I April 2020

<u>Constituent</u>	<u>Wells with Concentrations Above Prediction Limits</u>
None	None

Statistical Analysis Results Summary Appendix III October 2019

<u>Constituent</u>	<u>Wells with Concentrations Above Prediction Limits</u>
Boron	ARGWC-8, ARGWC-18
pH	ARGWC-16, ARGWC-17

Statistical Analysis Results Summary Appendix III April 2020

<u>Constituent</u>	<u>Wells with Concentrations Above Prediction Limits</u>
Boron	ARGWC-8, ARGWC-18
pH	ARGWC-16, ARGWC-17



1150 Northmeadow Pkwy.
 Suite 100
 Roswell, GA 30076
 (770) 594-5998
www.atlcc.net

April 10, 2020

Mr. Joju Abraham, P.G.
 Southern Company – Environmental Solutions
 241 Ralph McGill Blvd. NE, Bin 10160
 Atlanta, Georgia 30308

RE: 2019 Semi-Annual Groundwater Monitoring & Corrective Action Statistical Summary
 Former Plant Arkwright – Ash Pond No. 3 (AP-3)
 GA EPD Permit No. 011-025D(LI)
 Bibb County

Dear Mr. Abraham:

This letter presents statistical analysis for Georgia Power Company’s Plant Arkwright AP-3 (Site) October 2019 assessment monitoring event. The statistical methods comply with the Georgia Environmental Protection Division (EPD) Rules for Solid Waste Management Chapter 391-3-4-.10 and follow the United States Environmental Protection Agency (USEPA) Unified Guidance (2009). Parameters required by the existing state permit (Appendix I/ II metals, chloride, and sulfate), Appendix III parameters, and Appendix IV parameters detected during the August 2019 monitoring event are included in the statistical analysis (Table 1, Summary of Groundwater Monitoring Parameters). Appendix I/II and III statistical methods and results for the Site were previously included in the *2019 Semiannual Groundwater Monitoring and Corrective Action Report* and are summarized in the following sections of this letter. The Appendix I/II, III, and IV statistical data are provided in Attachment A.

Table 1. Summary of Groundwater Monitoring Parameters

Appendix III (40 CFR 257)	Appendix IV (40 CFR 257)	Existing State Permit
Boron	Antimony	Arsenic
Calcium	Arsenic	Barium
Chloride	Barium	Cadmium
Fluoride	Beryllium	Chloride
pH	Cadmium	Lead
Sulfate	Chromium	Selenium
Total Dissolved Solids	Cobalt	Silver
	Fluoride	Sulfate
	Lead	
	Lithium	
	Molybdenum	
	Radium 226 and 228 combined	
	Selenium	
	Thallium	

A perimeter groundwater monitoring system has been installed within the uppermost aquifer at the Site. The monitoring system is designed to monitor groundwater passing the unit boundary within the uppermost aquifer. The network includes five upgradient monitoring wells (ARGWA-3, ARGWA-

5, ARGWA-12, ARGWA-13 and ARGWA-14) and eight downgradient monitoring wells (ARGWC-7, ARGWC-8, ARGWC-9, ARGWC-10, ARGWC-15, ARGWC-16, ARGWC-17, and ARGWC-18)¹.

Statistical Method

All screened historical background data through October 2019 were used to construct statistical limits for both Appendix I/II metals and Appendix III constituents. Sanitas groundwater statistical software was used to perform the statistical analyses. Sanitas is a decision support software package that incorporates the statistical tests required of Subtitle C and D facilities by USEPA regulations. Wells and analytes with all data below the reporting limit (i.e., 100% non-detect) do not require statistical analysis.

- **Appendix I/II Groundwater Monitoring Data:** Statistical tests consist of interwell prediction limits combined with a 1-of-2 verification resample plan for all required metals. Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent, and the most recent sample from each downgradient well is compared to the same limit for each parameter. If a result from a sampling event initially exceeds the PL, then verification resampling may be used. In 1-of-2 resampling, an independent resample may be collected and evaluated within 90 days to determine whether the initial exceedance is verified. If a resample exceeds the PL, the initial exceedance is verified, and a statistically significant increase (SSI) is identified. When a re-sample 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.
- **Appendix III Groundwater Monitoring Data:** Statistical tests consist of interwell prediction limits combined with a 1-of-2 verification resample plan for Appendix III parameters. If the most recent sample exceeds its respective background statistical limit, an initial SSI is identified.
- **Confidence Intervals for Appendix I/II Metals and Appendix IV Parameters:** Parametric tolerance limits were used to calculate background limits, when pooled upgradient well data followed a normal or transformed-normal distribution, with a target of 95% confidence and 95% coverage. Nonparametric tolerance limits are used when the percentage of nondetects is greater than 50% or when data do not follow a normal or transformed normal distribution. The confidence and coverage levels for nonparametric tolerance limits are dependent upon the number of background samples. The background limits were then used when determining the groundwater protection standard (GWPS) established under 40 CFR § 257.95(h) and GA EPD Rule 391-3-4-.10(6)(a).

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

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

USEPA revised the Federal Coal Combustion Residual (CCR) Rule on July 30, 2018, providing GWPS for cobalt, lead, lithium, and molybdenum as described above in 40 CFR 257.95(h)(2). Presently those updated GWPS have not yet been incorporated in the current GA EPD Rules for Solid Waste Management 391-3-4-.10(6)(a); and therefore, background

¹ “AR” prefix added to groundwater monitoring well identifiers in November 2018 permit application. Existing permit identifiers do not contain “AR” prefix.

concentrations are considered when determining the GWPS for constituents where an MCL has not been established (or where background is higher than the MCL), and used to evaluate the existence of a statistically significant level (SSL).

Following the above rule requirements, GWPS have been established for statistical comparison of Appendix I/II and IV constituents and are presented in Table 2, Summary of Background Levels and Groundwater Protection Standards. To complete the statistical comparison to GWPS, confidence intervals were constructed for each of the Appendix I/II and Appendix IV parameters in each downgradient well. Those confidence intervals were compared to the GWPS established under the State rules. Only when the entire confidence interval is above a GWPS is the well/constituent pair considered to exceed the GWPS at an SSL.

Table 2. Summary of Background Levels and Groundwater Protection Standards

Constituent	Units	Site Background	MCL	RSL	State GWPS
Antimony	mg/L	0.0025	0.006		0.006
Arsenic	mg/L	0.005	0.010		0.01
Barium	mg/L	0.24	2		2
Beryllium	mg/L	0.0025	0.004		0.004
Cadmium	mg/L	0.0043	0.005		0.005
Chromium	mg/L	0.010	0.1		0.1
Cobalt	mg/L	0.0025		0.006	0.0025
Fluoride	mg/L	0.53	4		4
Lead	mg/L	0.013		0.015	0.013
Lithium	mg/L	0.0070		0.040	0.0070
Mercury	mg/L	0.0002	0.002		0.002
Molybdenum	mg/L	0.015		0.1	0.015
Selenium	mg/L	0.026	0.050		0.050
Silver	mg/L	0.0051			0.0051
Radium	pCi/L	1.14	5		5
Thallium	mg/L	0.0005	0.002		0.002

Notes:

1. Site Background = Tolerance limits calculated from pooled upgradient well data through October 2019.
2. MCL = Maximum Contaminant Level, per Georgia EPD Rule 391-3-5-.18(1)(a).
3. RSL = Regional Screening Level, per 40 CFR 257.95(h)(1-3).
4. State GWPS = Groundwater protection standard, per Georgia EPD Rule 391-3-4-.10(6)(a).
5. Units are milligrams per liter (mg/L), except for radium, which are picocuries per liter (pCi/L).

Statistical Results

- **Appendix I/II Groundwater Monitoring Data (Previously Reported):** Concentrations of target metals were within their respective interwell prediction limits during the October 2019 sampling event. Sulfate and chloride are required by the existing permit and are included in the Appendix III summary.
- **Appendix III Groundwater Monitoring Data (Previously Reported):** Analytical data from the October 2019 monitoring event at the Site were analyzed in accordance with the statistical methods.

The following Appendix III SSIs were reported:

- Boron: GWC-8, GWC-18
- pH: GWC-16, GWC-17

Mr. Joju Abraham, P.G.
Plant Arkwright AP-3
Statistical Comparisons to Groundwater Protection Standards
April 10, 2020



- **Confidence Intervals for Appendix I/II Metals and Appendix IV Parameters:** Review of the statistical analysis included in Attachment A indicates that using the GWPS established according to 391-3-4-.10(6)(a), the following SSLs were identified:
 - Cobalt: GWC-17
 - Molybdenum: GWC-8

If you have any questions regarding this letter or the attached data, please contact either of the undersigned at (770) 594-5998.

Sincerely,
Atlantic Coast Consulting, Inc.

A handwritten signature in black ink that reads 'William M. Malone'.

William M. Malone
Project Scientist

Enclosures
Copy: ACC Project Folder



Evan B. Perry
Project Manager
Date: 2020-04-10

ATTACHMENT A

**Appendix I/II Statistics (from 2019 Semiannual Groundwater Monitoring and
Corrective Action Report)**

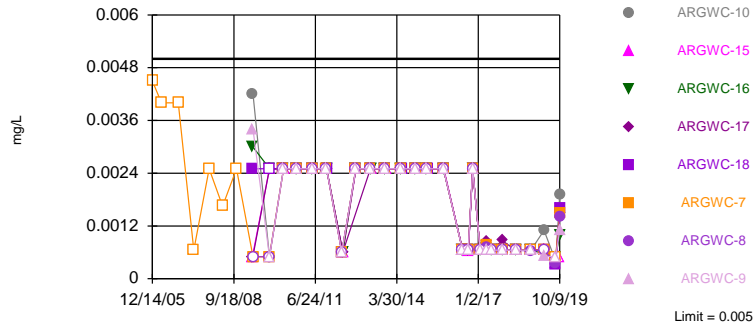
Interwell Prediction Limit

Plant Arkwright Client: Southern Company Data: Arkwright No 3 Printed 2/12/2020, 10:45 AM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig.</u>	<u>Bg N</u>	<u>%NDs</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Arsenic (mg/L)	ARGWC-10	0.005	n/a	10/9/2019	0.0019	No	171	78.36	n/a	0.000...	NP (NDs) 1 of 2
Arsenic (mg/L)	ARGWC-15	0.005	n/a	10/8/2019	0.0005ND	No	171	78.36	n/a	0.000...	NP (NDs) 1 of 2
Arsenic (mg/L)	ARGWC-16	0.005	n/a	10/9/2019	0.001	No	171	78.36	n/a	0.000...	NP (NDs) 1 of 2
Arsenic (mg/L)	ARGWC-17	0.005	n/a	10/9/2019	0.0015	No	171	78.36	n/a	0.000...	NP (NDs) 1 of 2
Arsenic (mg/L)	ARGWC-18	0.005	n/a	10/9/2019	0.0016	No	171	78.36	n/a	0.000...	NP (NDs) 1 of 2
Arsenic (mg/L)	ARGWC-7	0.005	n/a	10/9/2019	0.0015	No	171	78.36	n/a	0.000...	NP (NDs) 1 of 2
Arsenic (mg/L)	ARGWC-8	0.005	n/a	10/9/2019	0.0014	No	171	78.36	n/a	0.000...	NP (NDs) 1 of 2
Arsenic (mg/L)	ARGWC-9	0.005	n/a	10/9/2019	0.0011	No	171	78.36	n/a	0.000...	NP (NDs) 1 of 2
Barium (mg/L)	ARGWC-10	0.24	n/a	10/9/2019	0.031	No	167	0	n/a	0.000...	NP (normality) 1 of 2
Barium (mg/L)	ARGWC-15	0.24	n/a	10/8/2019	0.031	No	167	0	n/a	0.000...	NP (normality) 1 of 2
Barium (mg/L)	ARGWC-16	0.24	n/a	10/9/2019	0.057	No	167	0	n/a	0.000...	NP (normality) 1 of 2
Barium (mg/L)	ARGWC-17	0.24	n/a	10/9/2019	0.049	No	167	0	n/a	0.000...	NP (normality) 1 of 2
Barium (mg/L)	ARGWC-18	0.24	n/a	10/9/2019	0.039	No	167	0	n/a	0.000...	NP (normality) 1 of 2
Barium (mg/L)	ARGWC-7	0.24	n/a	10/9/2019	0.046	No	167	0	n/a	0.000...	NP (normality) 1 of 2
Barium (mg/L)	ARGWC-8	0.24	n/a	10/9/2019	0.049	No	167	0	n/a	0.000...	NP (normality) 1 of 2
Barium (mg/L)	ARGWC-9	0.24	n/a	10/9/2019	0.041	No	167	0	n/a	0.000...	NP (normality) 1 of 2
Cadmium (mg/L)	ARGWC-10	0.0043	n/a	10/9/2019	0.0005ND	No	168	93.45	n/a	0.000...	NP (NDs) 1 of 2
Cadmium (mg/L)	ARGWC-15	0.0043	n/a	10/8/2019	0.0005ND	No	168	93.45	n/a	0.000...	NP (NDs) 1 of 2
Cadmium (mg/L)	ARGWC-16	0.0043	n/a	10/9/2019	0.0005ND	No	168	93.45	n/a	0.000...	NP (NDs) 1 of 2
Cadmium (mg/L)	ARGWC-17	0.0043	n/a	10/9/2019	0.00018	No	168	93.45	n/a	0.000...	NP (NDs) 1 of 2
Lead (mg/L)	ARGWC-15	0.013	n/a	10/8/2019	0.0005ND	No	170	87.65	n/a	0.000...	NP (NDs) 1 of 2
Lead (mg/L)	ARGWC-18	0.013	n/a	10/9/2019	0.0005ND	No	170	87.65	n/a	0.000...	NP (NDs) 1 of 2
Lead (mg/L)	ARGWC-7	0.013	n/a	10/9/2019	0.0005ND	No	170	87.65	n/a	0.000...	NP (NDs) 1 of 2
Lead (mg/L)	ARGWC-8	0.013	n/a	10/9/2019	0.00019	No	170	87.65	n/a	0.000...	NP (NDs) 1 of 2
Lead (mg/L)	ARGWC-9	0.013	n/a	10/9/2019	0.00016	No	170	87.65	n/a	0.000...	NP (NDs) 1 of 2
Selenium (mg/L)	ARGWC-10	0.034	n/a	10/9/2019	0.0025ND	No	160	82.5	n/a	0.000...	NP (NDs) 1 of 2
Selenium (mg/L)	ARGWC-15	0.034	n/a	10/8/2019	0.0025ND	No	160	82.5	n/a	0.000...	NP (NDs) 1 of 2
Selenium (mg/L)	ARGWC-16	0.034	n/a	10/9/2019	0.0018	No	160	82.5	n/a	0.000...	NP (NDs) 1 of 2
Selenium (mg/L)	ARGWC-17	0.034	n/a	10/9/2019	0.0025ND	No	160	82.5	n/a	0.000...	NP (NDs) 1 of 2
Selenium (mg/L)	ARGWC-18	0.034	n/a	10/9/2019	0.0025ND	No	160	82.5	n/a	0.000...	NP (NDs) 1 of 2
Selenium (mg/L)	ARGWC-7	0.034	n/a	10/9/2019	0.0025ND	No	160	82.5	n/a	0.000...	NP (NDs) 1 of 2
Selenium (mg/L)	ARGWC-8	0.034	n/a	10/9/2019	0.0025ND	No	160	82.5	n/a	0.000...	NP (NDs) 1 of 2
Selenium (mg/L)	ARGWC-9	0.034	n/a	10/9/2019	0.0025ND	No	160	82.5	n/a	0.000...	NP (NDs) 1 of 2
Silver (mg/L)	ARGWC-10	0.0051	n/a	10/9/2019	0.00065ND	No	145	92.41	n/a	0.000...	NP (NDs) 1 of 2
Silver (mg/L)	ARGWC-15	0.0051	n/a	10/8/2019	0.00018	No	145	92.41	n/a	0.000...	NP (NDs) 1 of 2
Silver (mg/L)	ARGWC-16	0.0051	n/a	10/9/2019	0.00065ND	No	145	92.41	n/a	0.000...	NP (NDs) 1 of 2
Silver (mg/L)	ARGWC-17	0.0051	n/a	10/9/2019	0.00065ND	No	145	92.41	n/a	0.000...	NP (NDs) 1 of 2
Silver (mg/L)	ARGWC-18	0.0051	n/a	10/9/2019	0.00065ND	No	145	92.41	n/a	0.000...	NP (NDs) 1 of 2
Silver (mg/L)	ARGWC-7	0.0051	n/a	10/9/2019	0.00065ND	No	145	92.41	n/a	0.000...	NP (NDs) 1 of 2
Silver (mg/L)	ARGWC-9	0.0051	n/a	10/9/2019	0.00065ND	No	145	92.41	n/a	0.000...	NP (NDs) 1 of 2

Within Limit

Prediction Limit Interwell Non-parametric

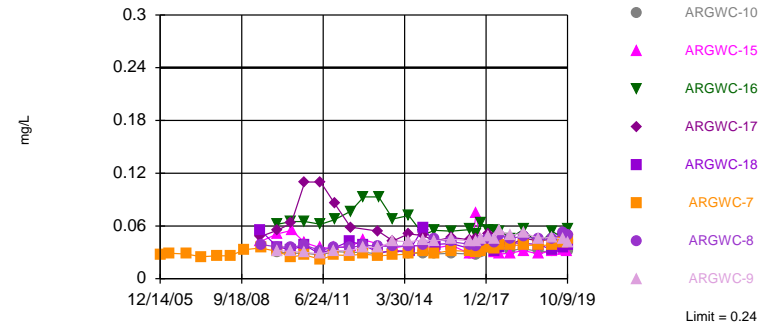


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 171 background values. 78.36% NDs. Annual per-constituent alpha = 0.001083. Individual comparison alpha = 0.00006773 (1 of 2). Comparing 8 points to limit.

Constituent: Arsenic Analysis Run 2/12/2020 10:44 AM View: Time Series
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Within Limit

Prediction Limit Interwell Non-parametric

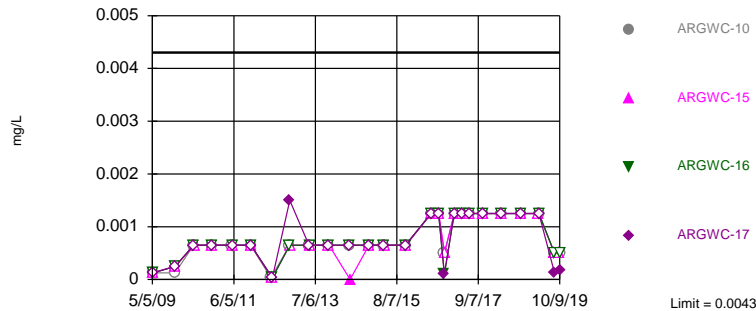


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 167 background values. Annual per-constituent alpha = 0.001134. Individual comparison alpha = 0.00007091 (1 of 2). Comparing 8 points to limit.

Constituent: Barium Analysis Run 2/12/2020 10:44 AM View: Time Series
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Within Limit

Prediction Limit Interwell Non-parametric

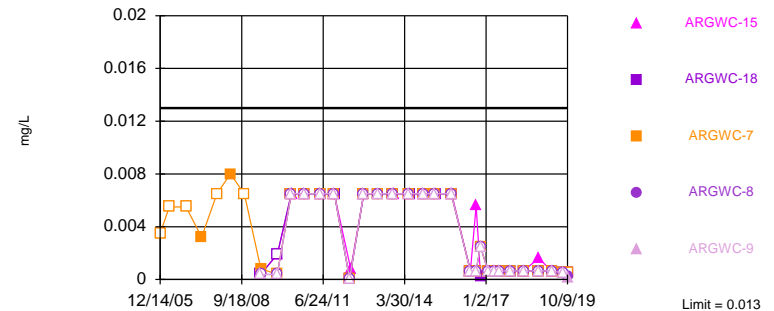


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 168 background values. 93.45% NDs. Annual per-constituent alpha = 0.001121. Individual comparison alpha = 0.00007012 (1 of 2). Comparing 4 points to limit. Assumes 4 future values.

Constituent: Cadmium Analysis Run 2/12/2020 10:44 AM View: Time Series
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Within Limit

Prediction Limit Interwell Non-parametric

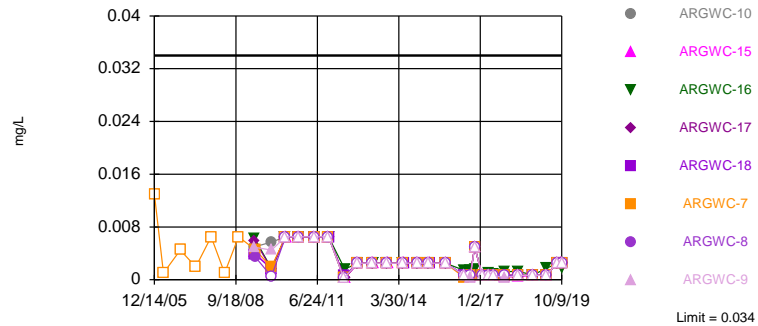


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 170 background values. 87.65% NDs. Annual per-constituent alpha = 0.001096. Individual comparison alpha = 0.00006853 (1 of 2). Comparing 5 points to limit. Assumes 3 future values.

Constituent: Lead Analysis Run 2/12/2020 10:44 AM View: Time Series
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Within Limit

Prediction Limit
 Interwell Non-parametric

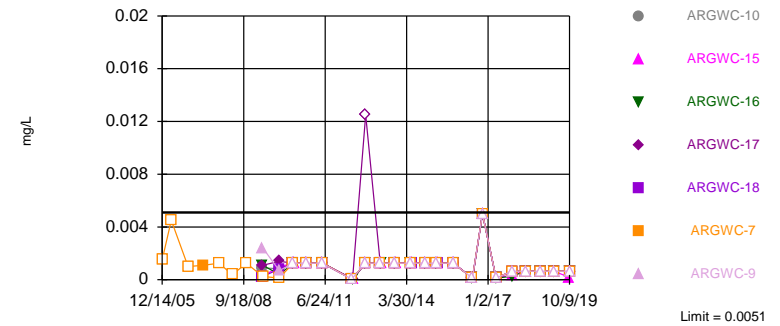


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 160 background values. 82.5% NDs. Annual per-constituent alpha = 0.001223. Individual comparison alpha = 0.00007648 (1 of 2). Comparing 8 points to limit.

Constituent: Selenium Analysis Run 2/12/2020 10:44 AM View: Time Series
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

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 145 background values. 92.41% NDs. Annual per-constituent alpha = 0.001499. Individual comparison alpha = 0.00009375 (1 of 2). Comparing 7 points to limit. Assumes 1 future value.

Constituent: Silver Analysis Run 2/12/2020 10:44 AM View: Time Series
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 2/12/2020 10:45 AM View: Time Series

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-3 (bg)	ARGWA-5 (bg)	ARGWC-7	ARGWC-15	ARGWA-12 (bg)	ARGWA-13 (bg)	ARGWC-17	ARGWC-16	ARGWC-18
12/16/1997	0.002	<0.0003							
6/30/1998	0.0006	<0.0003							
12/2/1998	0.0007	<0.0003							
6/8/1999	<0.0003	<0.0003							
12/7/1999	<0.0003	<0.0003							
6/15/2000	<0.0003	<0.0003							
12/12/2000	0.000475	0.00032							
12/5/2001	<0.0003	0.0003							
6/26/2002	0.000431	0.000939							
12/3/2002	<0.009	<0.009							
6/11/2003	<0.009	<0.009							
12/10/2003	<0.009	<0.009							
6/15/2004	<0.008	<0.008							
12/14/2004	<0.008	<0.008							
6/2/2005	<0.009	<0.009							
12/14/2005	<0.009	<0.009	<0.009						
4/5/2006	<0.008	<0.008	<0.008						
10/30/2006	<0.008	<0.008	<0.008						
5/10/2007	0.0044	<0.0013	<0.0013						
11/17/2007	<0.005	<0.005	<0.005						
5/2/2008			<0.0033						
5/3/2008	<0.0033	<0.0033							
10/22/2008	<0.005	<0.005	<0.005						
5/5/2009				<0.001					
5/6/2009		<0.001			<0.001				
5/7/2009	0.0028					0.0013			
5/12/2009							<0.001	0.003	0.0025
5/13/2009									
5/14/2009			<0.001						
12/1/2009		<0.001	<0.001						
12/3/2009					<0.001	<0.001			
12/4/2009	<0.005			<0.005			<0.005		<0.005
12/5/2009								<0.005	
5/25/2010		<0.005			<0.005	<0.005	<0.005		<0.005
5/26/2010			<0.005					<0.005	
6/1/2010	<0.005			<0.005					
6/2/2010									
11/9/2010		<0.005			<0.005		<0.005	<0.005	
11/10/2010	<0.005		<0.005	<0.005		<0.005			<0.005
5/18/2011									
5/19/2011									<0.005
5/24/2011		<0.005			<0.005		<0.005	<0.005	
5/25/2011	<0.005		<0.005	<0.005		<0.005			
11/9/2011				<0.005					
11/10/2011		<0.005			<0.005	<0.005			
11/11/2011			<0.005						
11/12/2011	<0.005						<0.005	<0.005	<0.005
5/17/2012			<0.0012						<0.0012
5/18/2012		<0.0012			<0.0012				
5/30/2012						<0.0012	<0.0012	<0.0012	
5/31/2012	<0.0012			<0.0012					
11/9/2012		<0.005	<0.005		<0.005	<0.005		<0.005	

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 2/12/2020 10:45 AM View: Time Series

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-3 (bg)	ARGWA-5 (bg)	ARGWC-7	ARGWC-15	ARGWA-12 (bg)	ARGWA-13 (bg)	ARGWC-17	ARGWC-16	ARGWC-18
11/10/2012				<0.005					<0.005
11/11/2012	<0.005								
5/7/2013									<0.005
5/8/2013		<0.005	<0.005		<0.005		<0.005		
5/9/2013						<0.005			
5/13/2013	<0.005			<0.005				<0.005	
11/5/2013			<0.005						<0.005
11/6/2013		<0.005			<0.005		<0.005	<0.005	
11/11/2013						<0.005			
11/12/2013	<0.005			<0.005					
5/20/2014		<0.005			<0.005		<0.005		
5/21/2014			<0.005			<0.005		<0.005	
5/28/2014				<0.005					<0.005
5/29/2014	<0.005								
11/17/2014		<0.005	<0.005				<0.005	<0.005	
11/18/2014					<0.005	<0.005			
11/19/2014									<0.005
11/20/2014				<0.005					
4/7/2015		<0.005	<0.005			<0.005	<0.005	<0.005	
4/14/2015	<0.005			<0.005	<0.005				
4/15/2015									<0.005
10/28/2015		<0.005	<0.005			<0.005	<0.005	<0.005	
10/29/2015					<0.005				<0.005
11/3/2015	<0.005			<0.005					
11/4/2015									
6/23/2016	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013			
6/24/2016							<0.0013	<0.0013	<0.0013
8/30/2016		<0.0013			<0.0013				
8/31/2016	<0.0013		<0.0013			<0.0013			
9/1/2016							<0.0013	<0.0013	<0.0013
9/2/2016				0.00062 (J)					
10/24/2016					<0.005				
10/25/2016	<0.005	<0.005	<0.005			<0.005	<0.005	<0.005	
10/26/2016				<0.005					<0.005
1/23/2017					<0.0013				
1/24/2017	<0.0013	<0.0013				<0.0013			
1/26/2017			<0.0013	<0.0013			<0.0013	<0.0013	
1/27/2017									<0.0013
4/11/2017	0.00067 (J)	0.00077 (J)			0.00076 (J)	0.00063 (J)	0.00084 (J)	0.00067 (J)	
4/12/2017			0.00078 (J)	<0.0013					<0.0013
6/20/2017	0.00064 (J)	0.00052 (J)							
6/21/2017				<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013
6/22/2017			<0.0013						
10/25/2017	<0.0013	<0.0013	<0.0013		<0.0013	<0.0013			<0.0013
10/26/2017				<0.0013			0.00087 (J)	<0.0013	
4/9/2018						<0.0013			
4/10/2018	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013		<0.0013	<0.0013	
4/11/2018									<0.0013
10/16/2018	<0.0013	<0.0013			<0.0013	0.00055 (J)		<0.0013	
10/17/2018			<0.0013	<0.0013			<0.0013		0.00066 (J)
3/26/2019						0.00089 (J)			
3/27/2019	0.00055 (J)	0.00055 (J)		<0.0013	0.00049 (J)				<0.0013

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 2/12/2020 10:45 AM View: Time Series
Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-3 (bg)	ARGWA-5 (bg)	ARGWC-7	ARGWC-15	ARGWA-12 (bg)	ARGWA-13 (bg)	ARGWC-17	ARGWC-16	ARGWC-18
3/28/2019			<0.0013				<0.0013	0.00057 (J)	
8/19/2019						0.00045 (J)			
8/20/2019	0.00045 (J)	0.00058 (J)			0.00046 (J)			<0.001	
8/21/2019			<0.001	0.00036 (J)			0.00044 (J)		0.00033 (J)
10/7/2019									
10/8/2019	<0.001	<0.001		<0.001	<0.001	<0.001			
10/9/2019			0.0015				0.0015	0.001	0.0016

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 2/12/2020 10:45 AM View: Time Series
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-9	ARGWC-10	ARGWC-8	ARGWA-14 (bg)
12/16/1997				
6/30/1998				
12/2/1998				
6/8/1999				
12/7/1999				
6/15/2000				
12/12/2000				
12/5/2001				
6/26/2002				
12/3/2002				
6/11/2003				
12/10/2003				
6/15/2004				
12/14/2004				
6/2/2005				
12/14/2005				
4/5/2006				
10/30/2006				
5/10/2007				
11/17/2007				
5/2/2008				
5/3/2008				
10/22/2008				
5/5/2009				
5/6/2009				
5/7/2009				
5/12/2009				
5/13/2009	0.0034	0.0042		
5/14/2009			<0.001	
12/1/2009				
12/3/2009	<0.001	<0.001	<0.001	
12/4/2009				
12/5/2009				
5/25/2010				
5/26/2010	<0.005	<0.005	<0.005	
6/1/2010				
6/2/2010				<0.005
11/9/2010	<0.005	<0.005	<0.005	
11/10/2010				<0.005
5/18/2011			<0.005	
5/19/2011	<0.005	<0.005		<0.005
5/24/2011				
5/25/2011				
11/9/2011				<0.005
11/10/2011				
11/11/2011	<0.005	<0.005	<0.005	
11/12/2011				
5/17/2012	<0.0012	<0.0012	<0.0012	
5/18/2012				
5/30/2012				0.0026 (J)
5/31/2012				
11/9/2012	<0.005	<0.005	<0.005	

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 2/12/2020 10:45 AM View: Time Series
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-9	ARGWC-10	ARGWC-8	ARGWA-14 (bg)
11/10/2012				
11/11/2012				<0.005
5/7/2013	<0.005	<0.005	<0.005	
5/8/2013				
5/9/2013				<0.005
5/13/2013				
11/5/2013			<0.005	
11/6/2013	<0.005	<0.005		
11/11/2013				<0.005
11/12/2013				
5/20/2014		<0.005		
5/21/2014	<0.005		<0.005	
5/28/2014				
5/29/2014				0.005 (J)
11/17/2014				
11/18/2014	<0.005	<0.005	<0.005	
11/19/2014				<0.005
11/20/2014				
4/7/2015	<0.005	<0.005	<0.005	
4/14/2015				<0.005
4/15/2015				
10/28/2015	<0.005	<0.005	<0.005	
10/29/2015				
11/3/2015				
11/4/2015				<0.005
6/23/2016	<0.0013	<0.0013	<0.0013	0.0026
6/24/2016				
8/30/2016				
8/31/2016	<0.0013		<0.0013	0.0032
9/1/2016		<0.0013		
9/2/2016				
10/24/2016				
10/25/2016	<0.005	<0.005		<0.005
10/26/2016			<0.005	
1/23/2017				0.00088 (J)
1/24/2017				
1/26/2017	<0.0013		<0.0013	
1/27/2017		<0.0013		
4/11/2017				0.00095 (J)
4/12/2017	<0.0013	<0.0013	0.00072 (J)	
6/20/2017				0.00099 (J)
6/21/2017			<0.0013	
6/22/2017	<0.0013	<0.0013		
10/25/2017	<0.0013			<0.0013
10/26/2017		<0.0013	<0.0013	
4/9/2018				<0.0013
4/10/2018				
4/11/2018	<0.0013	<0.0013	<0.0013	
10/16/2018				0.00083 (J)
10/17/2018	<0.0013	<0.0013	0.00063 (J)	
3/26/2019				
3/27/2019				0.0013

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 2/12/2020 10:45 AM View: Time Series
Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-9	ARGWC-10	ARGWC-8	ARGWA-14 (bg)
3/28/2019	0.00051 (J)	0.0011 (J)	<0.0013	
8/19/2019				
8/20/2019				
8/21/2019	<0.001	0.0004 (J)	0.00036 (J)	0.0013
10/7/2019				0.00045 (J)
10/8/2019				
10/9/2019	0.0011	0.0019	0.0014	

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 2/12/2020 10:45 AM View: Time Series

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-5 (bg)	ARGWA-3 (bg)	ARGWC-7	ARGWC-15	ARGWA-12 (bg)	ARGWA-13 (bg)	ARGWC-18	ARGWC-17	ARGWC-8
12/16/1997	0.032								
6/30/1998	0.028	0.177							
12/2/1998	0.032	0.115							
6/8/1999	0.0287	0.074							
12/7/1999	0.034	0.043							
6/15/2000	0.034	0.113							
12/12/2000	0.027	0.059							
12/5/2001	0.027	0.052							
6/26/2002	0.032	0.087							
12/3/2002	0.023	0.043							
6/11/2003	0.04	0.24							
12/10/2003	0.024	0.03							
6/15/2004	0.021	0.028							
12/14/2004	0.025	0.017							
6/2/2005	0.025	0.019							
12/14/2005	0.026	0.02	0.027						
4/5/2006	0.027	0.019	0.029						
10/30/2006	0.027		0.028						
5/10/2007	0.024	0.017	0.025						
11/17/2007	0.026	0.015	0.026						
5/2/2008			0.026						
5/3/2008	0.022	0.017							
10/22/2008	0.027	0.11	0.033						
5/5/2009				0.042					
5/6/2009	0.023				0.065				
5/7/2009		0.13				0.068			
5/12/2009							0.055	0.048	
5/14/2009			0.035						0.039
12/1/2009	0.033		0.031						
12/3/2009					0.062	0.044			0.036
12/4/2009		0.019		0.051			0.036	0.055	
12/5/2009									
5/25/2010	0.03					0.049	0.033	0.063	
5/26/2010			0.025						0.036
6/1/2010		0.027		0.055					
6/2/2010									
11/9/2010	0.033				0.059			0.11	0.038
11/10/2010		0.025	0.027	0.041		0.052	0.038		
5/18/2011									0.032
5/19/2011							0.028		
5/24/2011	0.027				0.054			0.11	
5/25/2011		0.015	0.022	0.035		0.045			
11/9/2011				0.035					
11/10/2011	0.032				0.063	0.11			
11/11/2011			0.027						0.036
11/12/2011		0.021						0.086	
5/17/2012			0.0265				0.0427		0.0353
5/18/2012	0.0311				0.0646				
5/30/2012						0.0831		0.0586	
5/31/2012		0.0222		0.0372					
11/9/2012	0.034		0.028		0.081	0.13			0.038
11/10/2012				0.044			0.038		

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 2/12/2020 10:45 AM View: Time Series
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-5 (bg)	ARGWA-3 (bg)	ARGWC-7	ARGWC-15	ARGWA-12 (bg)	ARGWA-13 (bg)	ARGWC-18	ARGWC-17	ARGWC-8
11/11/2012		0.022							
5/7/2013							0.03		0.037
5/8/2013	0.026		0.026		0.066			0.054	
5/9/2013						0.059			
5/13/2013		0.019							
11/5/2013			0.027						0.037
11/6/2013	0.028				0.074			0.043	
11/11/2013						0.12			
11/12/2013		0.025		0.035					
5/20/2014	0.027				0.057			0.051	
5/21/2014			0.028			0.073			0.037
5/28/2014				0.038			0.032		
5/29/2014		0.024							
11/17/2014	0.029		0.031					0.049	
11/18/2014					0.069	0.072			0.038
11/19/2014							0.058		
11/20/2014				0.037					
4/7/2015	0.024		0.029			0.06		0.043	0.045
4/14/2015		0.022		0.035	0.067				
4/15/2015							0.039		
10/28/2015	0.028		0.032			0.057		0.047	0.042
10/29/2015					0.069		0.04		
11/3/2015		0.022		0.038					
11/4/2015									
6/23/2016	0.025	0.019	0.031	0.028	0.063	0.036			0.039
6/24/2016							0.034	0.044	
8/30/2016	0.026				0.062				
8/31/2016		0.018	0.03			0.041			0.037
9/1/2016							0.033	0.046	
9/2/2016				0.074					
10/24/2016					0.0674				
10/25/2016	0.0293	0.016	0.0317			0.0429		0.0436	
10/26/2016				0.0408			0.0339		0.0423
1/23/2017					0.069				
1/24/2017	0.028	0.017				0.025			
1/26/2017			0.035	0.038				0.051	0.046
1/27/2017							0.037		
4/11/2017	0.024	0.016			0.064	0.024		0.043	
4/12/2017			0.034	0.03			0.032		0.041
6/20/2017	0.027	0.02							
6/21/2017				0.028	0.074	0.034	0.036	0.043	0.049
6/22/2017			0.038						
10/25/2017	0.03	0.019	0.038		0.07	0.03	0.041		
10/26/2017				0.029				0.038	0.046
4/9/2018						0.023			
4/10/2018	0.028	0.019	0.038	0.032	0.073			0.046	
4/11/2018							0.04		0.048
10/16/2018	0.027	0.018			0.069	0.028			
10/17/2018			0.038	0.028			0.039	0.043	0.045
3/26/2019						0.029			
3/27/2019	0.024	0.019		0.032	0.063		0.033		
3/28/2019			0.038					0.045	0.045

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 2/12/2020 10:45 AM View: Time Series
Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-5 (bg)	ARGWA-3 (bg)	ARGWC-7	ARGWC-15	ARGWA-12 (bg)	ARGWA-13 (bg)	ARGWC-18	ARGWC-17	ARGWC-8
8/19/2019						0.035			
8/20/2019	0.029	0.02			0.075				
8/21/2019			0.041	0.033			0.036	0.05	0.052
10/7/2019									
10/8/2019	0.03	0.02		0.031	0.078	0.042			
10/9/2019			0.046				0.039	0.049	0.049

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 2/12/2020 10:45 AM View: Time Series
Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-9	ARGWC-10	ARGWC-16	ARGWA-14 (bg)
12/16/1997				
6/30/1998				
12/2/1998				
6/8/1999				
12/7/1999				
6/15/2000				
12/12/2000				
12/5/2001				
6/26/2002				
12/3/2002				
6/11/2003				
12/10/2003				
6/15/2004				
12/14/2004				
6/2/2005				
12/14/2005				
4/5/2006				
10/30/2006				
5/10/2007				
11/17/2007				
5/2/2008				
5/3/2008				
10/22/2008				
5/5/2009				
5/6/2009				
5/7/2009				
5/12/2009				
5/14/2009				
12/1/2009				
12/3/2009	0.032	0.03		
12/4/2009				
12/5/2009			0.062	
5/25/2010				
5/26/2010	0.031	0.029	0.065	
6/1/2010				
6/2/2010				0.046
11/9/2010	0.03	0.029	0.065	
11/10/2010				0.057
5/18/2011				
5/19/2011	0.028	0.027		0.048
5/24/2011			0.062	
5/25/2011				
11/9/2011				0.045
11/10/2011				
11/11/2011	0.032	0.031		
11/12/2011			0.067	
5/17/2012	0.0319	0.0299		
5/18/2012				
5/30/2012			0.0767	0.0519
5/31/2012				
11/9/2012	0.036	0.03	0.093	
11/10/2012				

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 2/12/2020 10:45 AM View: Time Series
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-9	ARGWC-10	ARGWC-16	ARGWA-14 (bg)
11/11/2012				0.051
5/7/2013	0.035	0.028		
5/8/2013				
5/9/2013				0.056
5/13/2013			0.093	
11/5/2013				
11/6/2013	0.043	0.033	0.068	
11/11/2013				0.041
11/12/2013				
5/20/2014		0.029		
5/21/2014	0.042		0.072	
5/28/2014				
5/29/2014				0.051
11/17/2014			0.05	
11/18/2014	0.044	0.029		
11/19/2014				0.051
11/20/2014				
4/7/2015	0.043	0.028	0.055	
4/14/2015				0.043
4/15/2015				
10/28/2015	0.045	0.029	0.054	
10/29/2015				
11/3/2015				
11/4/2015				0.042
6/23/2016	0.043	0.028		
6/24/2016			0.056	
8/30/2016				
8/31/2016	0.042			0.076
9/1/2016		0.027	0.051	
9/2/2016				
10/24/2016				
10/25/2016	0.0455	0.0296	0.0637	0.039
10/26/2016				
1/23/2017				0.044
1/24/2017				
1/26/2017	0.048		0.055	
1/27/2017		0.035		
4/11/2017			0.055	0.038
4/12/2017	0.045	0.031		
6/20/2017				0.057
6/21/2017			0.054	
6/22/2017	0.055	0.035		
10/25/2017	0.049			0.05
10/26/2017		0.032	0.046	
4/9/2018				0.049
4/10/2018			0.056	
4/11/2018	0.052	0.034		
10/16/2018			0.039	0.06
10/17/2018	0.046	0.031		
3/26/2019				
3/27/2019				0.054
3/28/2019	0.047	0.031	0.054	

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 2/12/2020 10:45 AM View: Time Series
Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-9	ARGWC-10	ARGWC-16	ARGWA-14 (bg)
8/19/2019				
8/20/2019			0.046	
8/21/2019	0.045	0.035		0.031
10/7/2019				0.033
10/8/2019				
10/9/2019	0.041	0.031	0.057	

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 2/12/2020 10:45 AM View: Time Series

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-5 (bg)	ARGWA-3 (bg)	ARGWC-15	ARGWA-12 (bg)	ARGWA-13 (bg)	ARGWC-16	ARGWC-17	ARGWC-10	ARGWA-14 (bg)
12/16/1997	<0.003								
6/30/1998	<0.003								
12/2/1998	<0.003								
6/8/1999	<0.003	<0.003							
12/7/1999	<0.003	<0.003							
6/15/2000	<0.001	<0.001							
12/12/2000	<0.001	<0.001							
12/5/2001	<0.001	0.002							
6/26/2002	<0.002	0.003							
12/3/2002	<0.002	<0.002							
6/11/2003	<0.002	0.0043							
12/10/2003	<0.002	<0.002							
6/15/2004	<0.001	<0.001							
12/14/2004	0.0012	<0.001							
6/2/2005	<0.001	<0.001							
12/14/2005	<0.001	<0.001							
4/5/2006	<0.002	<0.002							
10/30/2006	<0.002	<0.002							
5/10/2007	<0.00048	<0.00048							
11/17/2007	<0.0013	<0.0013							
5/3/2008	<0.00025	0.00033							
10/22/2008	<0.0013	<0.0013							
5/5/2009			<0.00025						
5/6/2009	<0.00025			<0.00025					
5/7/2009		<0.00025			<0.00025				
5/12/2009						<0.00025	<0.00025		
5/13/2009								<0.00025	
12/1/2009	<0.00025								
12/3/2009				<0.00025	<0.00025				<0.00025
12/4/2009		<0.0005	<0.0005				<0.0005		
12/5/2009						<0.0005			
5/25/2010	<0.0013			<0.0013	<0.0013		<0.0013		
5/26/2010						<0.0013		<0.0013	
6/1/2010		<0.0013	<0.0013						
6/2/2010									<0.0013
11/9/2010	<0.0013			<0.0013		<0.0013	<0.0013	<0.0013	
11/10/2010		<0.0013	<0.0013		<0.0013				<0.0013
5/19/2011								<0.0013	<0.0013
5/24/2011	<0.0013			<0.0013		<0.0013	<0.0013		
5/25/2011		<0.0013	<0.0013		<0.0013				
11/9/2011			<0.0013						<0.0013
11/10/2011	<0.0013			<0.0013	<0.0013				
11/11/2011								<0.0013	
11/12/2011		<0.0013				<0.0013	<0.0013		
5/17/2012								<6E-05	
5/18/2012	<6E-05			<6E-05					
5/30/2012					<6E-05	<6E-05	<6E-05		<6E-05
5/31/2012		<6E-05	<6E-05						
11/9/2012	<0.0013			<0.0013	<0.0013	<0.0013	0.0015	<0.0013	
11/10/2012			<0.0013						
11/11/2012		<0.0013							<0.0013
5/7/2013							<0.0013		

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 2/12/2020 10:45 AM View: Time Series
Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-5 (bg)	ARGWA-3 (bg)	ARGWC-15	ARGWA-12 (bg)	ARGWA-13 (bg)	ARGWC-16	ARGWC-17	ARGWC-10	ARGWA-14 (bg)
10/8/2019	<0.001	<0.001	<0.001	<0.001	<0.001				
10/9/2019						<0.001	0.00018 (J)	<0.001	

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 2/12/2020 10:45 AM View: Time Series

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-5 (bg)	ARGWA-3 (bg)	ARGWC-7	ARGWC-15	ARGWA-12 (bg)	ARGWA-13 (bg)	ARGWC-18	ARGWC-9	ARGWC-8
12/16/1997	<0.002								
6/30/1998	<0.002	0.013							
12/2/1998	0.002	0.01							
6/8/1999	<0.002	0.004							
12/7/1999	<0.002	0.004							
6/15/2000	<0.002	0.004							
12/12/2000	<0.0022	0.00378							
12/5/2001	<0.0022	0.003							
6/26/2002	0.00539	0.00815							
12/3/2002	<0.008	0.008							
6/11/2003	<0.011	<0.011							
12/10/2003	<0.011	<0.011							
6/15/2004	<0.01	<0.01							
12/14/2004	0.013	<0.01							
6/2/2005	<0.007	<0.007							
12/14/2005	<0.007	<0.007	<0.007						
4/5/2006	<0.011	<0.011	<0.011						
10/30/2006	<0.011	<0.011	<0.011						
5/10/2007	<0.0021	<0.0021	0.0032						
11/17/2007	<0.013	<0.013	<0.013						
5/2/2008			0.008						
5/3/2008	<0.003	<0.003							
10/22/2008	<0.013	<0.013	<0.013						
5/5/2009				<0.00075					
5/6/2009	<0.00075				<0.00075				
5/7/2009		<0.00075				<0.00075			
5/12/2009							<0.00075		
5/13/2009								<0.00075	
5/14/2009			0.00083						<0.00075
12/1/2009	<0.00075		<0.00075						
12/3/2009					<0.00075	<0.00075		<0.00075	<0.00075
12/4/2009		<0.0038		<0.0038			<0.0038		
5/25/2010	<0.013				<0.013	<0.013	<0.013		
5/26/2010			<0.013					<0.013	<0.013
6/1/2010		<0.013		<0.013					
6/2/2010									
11/9/2010	<0.013				<0.013			<0.013	<0.013
11/10/2010		<0.013	<0.013	<0.013		<0.013	<0.013		
5/18/2011									<0.013
5/19/2011							<0.013	<0.013	
5/24/2011	<0.013				<0.013				
5/25/2011		<0.013	<0.013	<0.013		<0.013			
11/9/2011				<0.013					
11/10/2011	<0.013				<0.013	<0.013			
11/11/2011			<0.013					<0.013	<0.013
11/12/2011		<0.013					<0.013		
5/17/2012			<9E-05				<9E-05	<9E-05	<9E-05
5/18/2012	<9E-05				<9E-05				
5/30/2012						<9E-05			
5/31/2012		0.0005 (J)		0.0008 (J)					
11/9/2012	<0.013		<0.013		<0.013	<0.013		<0.013	<0.013
11/10/2012				<0.013			<0.013		

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 2/12/2020 10:45 AM View: Time Series

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-5 (bg)	ARGWA-3 (bg)	ARGWC-7	ARGWC-15	ARGWA-12 (bg)	ARGWA-13 (bg)	ARGWC-18	ARGWC-9	ARGWC-8
11/11/2012		<0.013							
5/7/2013							<0.013	<0.013	<0.013
5/8/2013	<0.013		<0.013		<0.013				
5/9/2013						<0.013			
5/13/2013		<0.013							
11/5/2013			<0.013				<0.013		<0.013
11/6/2013	<0.013				<0.013			<0.013	
11/11/2013						<0.013			
11/12/2013		<0.013		<0.013					
5/20/2014	<0.013				<0.013				
5/21/2014			<0.013			<0.013		<0.013	<0.013
5/28/2014				<0.013			<0.013		
5/29/2014		<0.013							
11/17/2014	<0.013		<0.013						
11/18/2014					<0.013	<0.013		<0.013	<0.013
11/19/2014							<0.013		
11/20/2014				<0.013					
4/7/2015	<0.013		<0.013			<0.013		<0.013	<0.013
4/14/2015		<0.013		<0.013	<0.013				
4/15/2015							<0.013		
10/28/2015	<0.013		<0.013			<0.013		<0.013	<0.013
10/29/2015					<0.013		<0.013		
11/3/2015		<0.013		<0.013					
11/4/2015									
6/23/2016	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013		<0.0013	<0.0013
6/24/2016							<0.0013		
8/30/2016	<0.0013				<0.0013				
8/31/2016		<0.0013	<0.0013			<0.0013		<0.0013	<0.0013
9/1/2016							<0.0013		
9/2/2016				0.0056					
10/24/2016					0.0002 (J)				
10/25/2016	<0.005	<0.005	<0.005			<0.005		<0.005	
10/26/2016				0.0003 (J)			0.0002 (J)		<0.005
1/23/2017					<0.0013				
1/24/2017	<0.0013	<0.0013				<0.0013			
1/26/2017			<0.0013	<0.0013				<0.0013	<0.0013
1/27/2017							<0.0013		
4/11/2017	<0.0013	<0.0013			<0.0013	<0.0013			
4/12/2017			<0.0013	<0.0013			<0.0013	<0.0013	<0.0013
6/20/2017	<0.0013	<0.0013							
6/21/2017				<0.0013	<0.0013	<0.0013	<0.0013		<0.0013
6/22/2017			<0.0013					<0.0013	
10/25/2017	<0.0013	<0.0013	<0.0013		<0.0013	<0.0013	<0.0013	<0.0013	
10/26/2017				<0.0013					<0.0013
4/9/2018						<0.0013			
4/10/2018	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013				
4/11/2018							<0.0013	<0.0013	<0.0013
10/16/2018	<0.0013	<0.0013			<0.0013	<0.0013		<0.0013	<0.0013
10/17/2018			<0.0013	0.0016			<0.0013	<0.0013	<0.0013
3/26/2019						<0.0013			
3/27/2019	<0.0013	<0.0013		<0.0013	<0.0013		<0.0013		
3/28/2019			<0.0013					<0.0013	<0.0013

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 2/12/2020 10:45 AM View: Time Series
Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-5 (bg)	ARGWA-3 (bg)	ARGWC-7	ARGWC-15	ARGWA-12 (bg)	ARGWA-13 (bg)	ARGWC-18	ARGWC-9	ARGWC-8
8/19/2019						<0.001			
8/20/2019	0.00014 (J)	0.00014 (J)			<0.001				
8/21/2019			<0.001	<0.001			<0.001	<0.001	<0.001
10/7/2019									
10/8/2019	0.00016 (J)	0.001		<0.001	<0.001	0.00013 (J)			
10/9/2019			<0.001				<0.001	0.00016 (J)	0.00019 (J)

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 2/12/2020 10:45 AM View: Time Series
Plant Arkwright Client: Southern Company Data: Arkwright No 3

ARGWA-14 (bg)

12/16/1997
6/30/1998
12/2/1998
6/8/1999
12/7/1999
6/15/2000
12/12/2000
12/5/2001
6/26/2002
12/3/2002
6/11/2003
12/10/2003
6/15/2004
12/14/2004
6/2/2005
12/14/2005
4/5/2006
10/30/2006
5/10/2007
11/17/2007
5/2/2008
5/3/2008
10/22/2008
5/5/2009
5/6/2009
5/7/2009
5/12/2009
5/13/2009
5/14/2009
12/1/2009
12/3/2009
12/4/2009
5/25/2010
5/26/2010
6/1/2010
6/2/2010
11/9/2010
11/10/2010
5/18/2011
5/19/2011
5/24/2011
5/25/2011
11/9/2011
11/10/2011
11/11/2011
11/12/2011
5/17/2012
5/18/2012
5/30/2012
5/31/2012
11/9/2012
11/10/2012

<0.013
<0.013
<0.013
<0.013
<0.013
<9E-05

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 2/12/2020 10:45 AM View: Time Series
Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-14 (bg)
11/11/2012	<0.013
5/7/2013	
5/8/2013	
5/9/2013	<0.013
5/13/2013	
11/5/2013	
11/6/2013	
11/11/2013	<0.013
11/12/2013	
5/20/2014	
5/21/2014	
5/28/2014	
5/29/2014	<0.013
11/17/2014	
11/18/2014	
11/19/2014	<0.013
11/20/2014	
4/7/2015	
4/14/2015	<0.013
4/15/2015	
10/28/2015	
10/29/2015	
11/3/2015	
11/4/2015	<0.013
6/23/2016	<0.0013
6/24/2016	
8/30/2016	
8/31/2016	<0.0013
9/1/2016	
9/2/2016	
10/24/2016	
10/25/2016	<0.005
10/26/2016	
1/23/2017	0.0013
1/24/2017	
1/26/2017	
1/27/2017	
4/11/2017	<0.0013
4/12/2017	
6/20/2017	<0.0013
6/21/2017	
6/22/2017	
10/25/2017	<0.0013
10/26/2017	
4/9/2018	<0.0013
4/10/2018	
4/11/2018	
10/16/2018	<0.0013
10/17/2018	
3/26/2019	
3/27/2019	<0.0013
3/28/2019	

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 2/12/2020 10:45 AM View: Time Series
Plant Arkwright Client: Southern Company Data: Arkwright No 3

ARGWA-14 (bg)

8/19/2019

8/20/2019

8/21/2019 0.00019 (J)

10/7/2019 <0.001

10/8/2019

10/9/2019

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 2/12/2020 10:45 AM View: Time Series

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-5 (bg)	ARGWA-3 (bg)	ARGWC-7	ARGWC-15	ARGWA-12 (bg)	ARGWC-18	ARGWC-17	ARGWC-16	ARGWC-9
12/16/1997	<0.002	<0.002							
6/30/1998	<0.002	<0.002							
12/2/1998	<0.002	<0.002							
6/8/1999	<0.002	<0.002							
12/7/1999	<0.002	<0.002							
6/15/2000	<0.002	<0.002							
12/12/2000	<0.012	<0.012							
12/5/2001	<0.012	<0.012							
6/26/2002	<0.012	<0.012							
12/3/2002	<0.012	<0.012							
6/11/2003	<0.012	<0.012							
12/10/2003	<0.012	<0.012							
6/15/2004	<0.012	<0.012							
12/14/2004	<0.012	<0.012							
6/2/2005	<0.026	<0.026							
12/14/2005	<0.026	<0.026	<0.026						
4/5/2006	<0.002	<0.002	<0.002						
10/30/2006	<0.009	<0.009	<0.009						
5/10/2007	<0.0039	<0.0039	<0.0039						
11/17/2007	<0.013	<0.013	<0.013						
5/2/2008			<0.002						
5/3/2008	<0.002	<0.002							
10/22/2008	<0.013	<0.013	<0.013						
5/5/2009				0.0041					
5/6/2009	0.0047				0.0054				
5/7/2009		0.0049							
5/12/2009						0.0039	0.0059	0.0062	
5/13/2009									0.0049
5/14/2009			0.0046						
12/1/2009	0.0046		0.0019						
12/3/2009					0.006				0.0045
12/4/2009		<0.0033		<0.0033		<0.0033	<0.0033		
12/5/2009								<0.0033	
5/25/2010	<0.013				<0.013	<0.013	<0.013		
5/26/2010			<0.013					<0.013	<0.013
6/1/2010		<0.013		<0.013					
6/2/2010									
11/9/2010	<0.013				<0.013		<0.013	<0.013	<0.013
11/10/2010		<0.013	<0.013	<0.013		<0.013			
5/18/2011									
5/19/2011						<0.013			<0.013
5/24/2011	<0.013				<0.013		<0.013	<0.013	
5/25/2011		<0.013	<0.013	<0.013					
11/9/2011				<0.013					
11/10/2011	<0.013				<0.013				
11/11/2011			<0.013						<0.013
11/12/2011		<0.013				<0.013	<0.013	<0.013	
5/17/2012			<0.0005			0.0006 (J)			<0.0005
5/18/2012	<0.0005				<0.0005				
5/30/2012							<0.0005	0.0016 (J)	
5/31/2012		<0.0005		<0.0005					
11/9/2012	<0.005		<0.005		<0.005		<0.005	<0.005	<0.005

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 2/12/2020 10:45 AM View: Time Series

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-5 (bg)	ARGWA-3 (bg)	ARGWC-7	ARGWC-15	ARGWA-12 (bg)	ARGWC-18	ARGWC-17	ARGWC-16	ARGWC-9
11/10/2012				<0.005		<0.005			
11/11/2012		<0.005							
5/7/2013						<0.005			<0.005
5/8/2013	<0.005		<0.005		<0.005		<0.005		
5/9/2013									
5/13/2013		<0.005		<0.005				<0.005	
11/5/2013			<0.005			<0.005			
11/6/2013	<0.005				<0.005		<0.005	<0.005	<0.005
11/11/2013									
11/12/2013		<0.005		<0.005					
5/20/2014	<0.005				<0.005		<0.005		
5/21/2014			<0.005					<0.005	<0.005
5/28/2014				<0.005		<0.005			
5/29/2014		<0.005							
11/17/2014	<0.005		<0.005				<0.005	<0.005	
11/18/2014					<0.005				<0.005
11/19/2014						<0.005			
11/20/2014				<0.005					
4/7/2015	<0.005		<0.005				<0.005	<0.005	<0.005
4/14/2015		<0.005		<0.005	<0.005				
4/15/2015						<0.005			
10/28/2015	<0.005		<0.005				<0.005	<0.005	<0.005
10/29/2015					<0.005	<0.005			
11/3/2015		<0.005		<0.005					
11/4/2015									
6/23/2016	<0.0013	<0.0013	0.00029 (J)	<0.0013	<0.0013				<0.0013
6/24/2016						<0.0013	<0.0013	0.0014	
8/30/2016	<0.0013				<0.0013				
8/31/2016		<0.0013	<0.0013						0.00024 (J)
9/1/2016						<0.0013	<0.0013	0.0014	
9/2/2016				0.0005 (J)					
10/24/2016					<0.01				
10/25/2016	<0.01	<0.01	<0.01				<0.01	0.0015 (J)	<0.01
10/26/2016				<0.01		<0.01			
1/23/2017					<0.0013				
1/24/2017	<0.0013	<0.0013							
1/26/2017			<0.0013	<0.0013			<0.0013	0.00071 (J)	<0.0013
1/27/2017						<0.0013			
4/11/2017	<0.0013	<0.0013			<0.0013		<0.0013	0.0011 (J)	
4/12/2017			<0.0013	<0.0013		<0.0013			<0.0013
6/20/2017	<0.0013	<0.0013							
6/21/2017				<0.0013	0.00025 (J)	<0.0013	<0.0013	0.00075 (J)	
6/22/2017			<0.0013						<0.0013
10/25/2017	0.00027 (J)	0.00032 (J)	<0.0013		0.00027 (J)	<0.0013			0.00029 (J)
10/26/2017				0.0004 (J)			<0.0013	0.0012 (J)	
4/9/2018									
4/10/2018	<0.0013	<0.0013	<0.0013	0.00044 (J)	0.00033 (J)		<0.0013	0.0013	
4/11/2018						<0.0013			<0.0013
10/16/2018	<0.0013	<0.0013			<0.0013			0.00072 (J)	
10/17/2018			<0.0013	<0.0013		<0.0013	<0.0013		<0.0013
3/26/2019									
3/27/2019	<0.0013	<0.0013		<0.0013	<0.0013	<0.0013			

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 2/12/2020 10:45 AM View: Time Series
Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-5 (bg)	ARGWA-3 (bg)	ARGWC-7	ARGWC-15	ARGWA-12 (bg)	ARGWC-18	ARGWC-17	ARGWC-16	ARGWC-9
3/28/2019			<0.0013				<0.0013	0.0017	<0.0013
8/19/2019									
8/20/2019	<0.005	<0.005			<0.005			<0.005	
8/21/2019			<0.005	<0.005		<0.005	<0.005		<0.005
10/7/2019									
10/8/2019	<0.005	<0.005		<0.005	<0.005				
10/9/2019			<0.005			<0.005	<0.005	0.0018 (J)	<0.005

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 2/12/2020 10:45 AM View: Time Series
Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-10	ARGWC-8	ARGWA-14 (bg)	ARGWA-13 (bg)
12/16/1997				
6/30/1998				
12/2/1998				
6/8/1999				
12/7/1999				
6/15/2000				
12/12/2000				
12/5/2001				
6/26/2002				
12/3/2002				
6/11/2003				
12/10/2003				
6/15/2004				
12/14/2004				
6/2/2005				
12/14/2005				
4/5/2006				
10/30/2006				
5/10/2007				
11/17/2007				
5/2/2008				
5/3/2008				
10/22/2008				
5/5/2009				
5/6/2009				
5/7/2009				
5/12/2009				
5/13/2009	0.005			
5/14/2009		0.0035		
12/1/2009				
12/3/2009	0.0057	<0.001		
12/4/2009				
12/5/2009				
5/25/2010				
5/26/2010	<0.013	<0.013		
6/1/2010				
6/2/2010			<0.013	
11/9/2010	<0.013	<0.013		
11/10/2010			<0.013	
5/18/2011		<0.013		
5/19/2011	<0.013		<0.013	
5/24/2011				
5/25/2011				
11/9/2011			<0.013	
11/10/2011				
11/11/2011	<0.013	<0.013		
11/12/2011				
5/17/2012	<0.0005	<0.0005		
5/18/2012				
5/30/2012			<0.0005	
5/31/2012				
11/9/2012	<0.005	<0.005		

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 2/12/2020 10:45 AM View: Time Series
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-10	ARGWC-8	ARGWA-14 (bg)	ARGWA-13 (bg)
11/10/2012				
11/11/2012			<0.005	
5/7/2013	<0.005	<0.005		
5/8/2013				
5/9/2013			<0.005	
5/13/2013				
11/5/2013		<0.005		
11/6/2013	<0.005			
11/11/2013			<0.005	
11/12/2013				
5/20/2014	<0.005			
5/21/2014		<0.005		
5/28/2014				
5/29/2014			<0.005	
11/17/2014				
11/18/2014	<0.005	<0.005		0.0083
11/19/2014			<0.005	
11/20/2014				
4/7/2015	<0.005	<0.005		<0.005
4/14/2015			<0.005	
4/15/2015				
10/28/2015	<0.005	<0.005		0.023
10/29/2015				
11/3/2015				
11/4/2015			<0.005	
6/23/2016	<0.0013	<0.0013	<0.0013	0.0096
6/24/2016				
8/30/2016				
8/31/2016		<0.0013	0.00077 (J)	0.017
9/1/2016	<0.0013			
9/2/2016				
10/24/2016				
10/25/2016	<0.01		<0.01	0.0257
10/26/2016		<0.01		
1/23/2017			0.00037 (J)	
1/24/2017				0.0097
1/26/2017		<0.0013		
1/27/2017	<0.0013			
4/11/2017			<0.0013	0.0079
4/12/2017	<0.0013	<0.0013		
6/20/2017			0.00044 (J)	
6/21/2017		<0.0013		0.019
6/22/2017	<0.0013			
10/25/2017			0.00038 (J)	0.022
10/26/2017	<0.0013	<0.0013		
4/9/2018			<0.0013	0.0063
4/10/2018				
4/11/2018	<0.0013	<0.0013		
10/16/2018			<0.0013	0.021
10/17/2018	<0.0013	<0.0013		
3/26/2019				0.015
3/27/2019			<0.0013	

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 2/12/2020 10:45 AM View: Time Series
Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-10	ARGWC-8	ARGWA-14 (bg)	ARGWA-13 (bg)
3/28/2019	<0.0013	<0.0013		
8/19/2019				0.034
8/20/2019				
8/21/2019	<0.005	<0.005	<0.005	
10/7/2019			<0.005	
10/8/2019				0.03
10/9/2019	<0.005	<0.005		

Prediction Limit

Constituent: Silver (mg/L) Analysis Run 2/12/2020 10:45 AM View: Time Series

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-5 (bg)	ARGWA-3 (bg)	ARGWC-7	ARGWC-15	ARGWA-12 (bg)	ARGWA-13 (bg)	ARGWC-18	ARGWC-17	ARGWC-16
12/16/1997	<0.005								
6/30/1998	<0.005	<0.005							
12/2/1998	<0.005	<0.005							
6/8/1999	<0.005	<0.005							
12/7/1999	<0.005	<0.005							
6/15/2000	<0.004	<0.004							
12/12/2000	<0.004	0.0051							
12/5/2001	<0.003	<0.003							
6/26/2002	<0.002	<0.002							
12/3/2002	<0.002	<0.002							
6/11/2003	<0.002	<0.002							
12/10/2003	0.002	0.003							
6/15/2004	<0.001	<0.001							
12/14/2004	<0.001	<0.001							
6/2/2005	<0.003	<0.003							
12/14/2005	<0.003	<0.003	<0.003						
4/5/2006	<0.009	<0.009	<0.009						
10/30/2006	<0.002	0.002	<0.002						
5/10/2007	<0.0006	0.0017	0.0011						
11/17/2007	<0.0025	<0.0025	<0.0025						
5/2/2008			<0.00075						
5/3/2008	<0.00075	<0.00075							
10/22/2008	<0.0025	<0.0025	<0.0025						
5/5/2009				<0.0005					
5/6/2009	<0.0005				<0.0005				
5/7/2009		<0.0005				<0.0005			
5/12/2009							<0.0005	0.0011	0.0011
5/13/2009									
5/14/2009			<0.0005						
12/1/2009	<0.00025		<0.00025						
12/3/2009					<0.00025	<0.00025			
12/4/2009		<0.00025		0.00098			0.0008	0.0014	
12/5/2009									0.0004
5/25/2010	<0.0025				<0.0025	<0.0025	<0.0025	<0.0025	
5/26/2010			<0.0025						<0.0025
6/1/2010		<0.0025		<0.0025					
6/2/2010									
11/9/2010	<0.0025				<0.0025			<0.0025	<0.0025
11/10/2010		<0.0025	<0.0025	<0.0025		<0.0025	<0.0025		
5/19/2011							<0.0025		
5/24/2011	<0.0025				<0.0025			<0.0025	<0.0025
5/25/2011		<0.0025	<0.0025	<0.0025		<0.0025			
5/17/2012			<0.0001				<0.0001		
5/18/2012	<0.0001				0.0001 (J)				
5/30/2012						<0.0001		<0.0001	<0.0001
5/31/2012		<0.0001		<0.0001					
11/9/2012	<0.0025		<0.0025		<0.0025	<0.0025		<0.025	<0.0025
11/10/2012				<0.0025			<0.0025		
11/11/2012		<0.0025							
5/7/2013							<0.0025		
5/8/2013	<0.0025		<0.0025		<0.0025			<0.0025	
5/9/2013						<0.0025			

Prediction Limit

Constituent: Silver (mg/L) Analysis Run 2/12/2020 10:45 AM View: Time Series

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-5 (bg)	ARGWA-3 (bg)	ARGWC-7	ARGWC-15	ARGWA-12 (bg)	ARGWA-13 (bg)	ARGWC-18	ARGWC-17	ARGWC-16
5/13/2013		<0.0025		<0.0025					<0.0025
11/5/2013			<0.0025				<0.0025		
11/6/2013	<0.0025				<0.0025			<0.0025	<0.0025
11/11/2013						<0.0025			
11/12/2013		<0.0025		<0.0025					
5/20/2014	<0.0025				<0.0025			<0.0025	
5/21/2014			<0.0025			<0.0025			<0.0025
5/28/2014				<0.0025			<0.0025		
5/29/2014		<0.0025							
11/17/2014	<0.0025		<0.0025					<0.0025	<0.0025
11/18/2014					<0.0025	<0.0025			
11/19/2014							<0.0025		
11/20/2014				<0.0025					
4/7/2015	<0.0025		<0.0025			<0.0025		<0.0025	<0.0025
4/14/2015		<0.0025		<0.0025	<0.0025				
4/15/2015							<0.0025		
10/28/2015	<0.0025		<0.0025			<0.0025		<0.0025	<0.0025
10/29/2015					<0.0025		<0.0025		
11/3/2015		<0.0025		<0.0025					
11/4/2015									
6/23/2016	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025			
6/24/2016							<0.00025	<0.00025	<0.00025
10/24/2016					<0.01				
10/25/2016	<0.01	<0.01	<0.01			<0.01		<0.01	<0.01
10/26/2016				<0.01			<0.01		
4/11/2017	<0.00025	<0.00025			<0.00025	<0.00025		<0.00025	<0.00025
4/12/2017			<0.00025	<0.00025			<0.00025		
10/25/2017	<0.0013	<0.0013	<0.0013		<0.0013	0.00013 (J)	<0.0013		
10/26/2017				0.00037 (J)				<0.0013	0.00026 (J)
4/9/2018						<0.0013			
4/10/2018	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013			<0.0013	<0.0013
4/11/2018							<0.0013		
10/16/2018	<0.0013	<0.0013			<0.0013	<0.0013			<0.0013
10/17/2018			<0.0013	<0.0013			<0.0013	<0.0013	
3/26/2019						<0.0013			
3/27/2019	<0.0013	<0.0013		<0.0013	<0.0013		<0.0013		
3/28/2019			<0.0013					<0.0013	<0.0013
10/7/2019									
10/8/2019	0.0003 (J)	0.00019 (J)		0.00018 (J)	<0.001	0.00047 (J)			
10/9/2019			<0.0013				<0.0013	<0.0013	<0.0013

Prediction Limit

Constituent: Silver (mg/L) Analysis Run 2/12/2020 10:45 AM View: Time Series

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-10	ARGWC-9	ARGWA-14 (bg)
12/16/1997			
6/30/1998			
12/2/1998			
6/8/1999			
12/7/1999			
6/15/2000			
12/12/2000			
12/5/2001			
6/26/2002			
12/3/2002			
6/11/2003			
12/10/2003			
6/15/2004			
12/14/2004			
6/2/2005			
12/14/2005			
4/5/2006			
10/30/2006			
5/10/2007			
11/17/2007			
5/2/2008			
5/3/2008			
10/22/2008			
5/5/2009			
5/6/2009			
5/7/2009			
5/12/2009			
5/13/2009	0.0009	0.0024	
5/14/2009			
12/1/2009			
12/3/2009	0.00083	0.0007	
12/4/2009			
12/5/2009			
5/25/2010			
5/26/2010	<0.0025	<0.0025	
6/1/2010			
6/2/2010			<0.0025
11/9/2010	<0.0025	<0.0025	
11/10/2010			<0.0025
5/19/2011	<0.0025	<0.0025	<0.0025
5/24/2011			
5/25/2011			
5/17/2012	<0.0001	<0.0001	
5/18/2012			
5/30/2012			<0.0001
5/31/2012			
11/9/2012	<0.0025	<0.0025	
11/10/2012			
11/11/2012			<0.0025
5/7/2013	<0.0025	<0.0025	
5/8/2013			
5/9/2013			<0.0025

Prediction Limit

Constituent: Silver (mg/L) Analysis Run 2/12/2020 10:45 AM View: Time Series
Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-10	ARGWC-9	ARGWA-14 (bg)
5/13/2013			
11/5/2013			
11/6/2013	<0.0025	<0.0025	
11/11/2013			<0.0025
11/12/2013			
5/20/2014	<0.0025		
5/21/2014		<0.0025	
5/28/2014			
5/29/2014			<0.0025
11/17/2014			
11/18/2014	<0.0025	<0.0025	
11/19/2014			<0.0025
11/20/2014			
4/7/2015	<0.0025	<0.0025	
4/14/2015			<0.0025
4/15/2015			
10/28/2015	<0.0025	<0.0025	
10/29/2015			
11/3/2015			
11/4/2015			<0.0025
6/23/2016	<0.00025	<0.00025	<0.00025
6/24/2016			
10/24/2016			
10/25/2016	<0.01	<0.01	<0.01
10/26/2016			
4/11/2017			<0.00025
4/12/2017	<0.00025	<0.00025	
10/25/2017		<0.0013	<0.0013
10/26/2017	<0.0013		
4/9/2018			<0.0013
4/10/2018			
4/11/2018	<0.0013	<0.0013	
10/16/2018			<0.0013
10/17/2018	<0.0013	<0.0013	
3/26/2019			
3/27/2019			<0.0013
3/28/2019	<0.0013	<0.0013	
10/7/2019			0.00022 (J)
10/8/2019			
10/9/2019	<0.0013	<0.0013	

**Appendix III Statistics (from 2019 Semiannual Groundwater Monitoring and
Corrective Action Report)**

Interwell Prediction Limits Significant Results

Plant Arkwright Client: Southern Company Data: Arkwright No 3 Printed 2/20/2020, 5:33 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig.</u>	<u>Bg N</u>	<u>%NDs</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Boron (mg/L)	ARGWC-18	0.68	n/a	10/9/2019	2.1	Yes	50	44	n/a	0.0007349	NP (normality) 1 of 2
Boron (mg/L)	ARGWC-8	0.68	n/a	10/9/2019	1.2	Yes	50	44	n/a	0.0007349	NP (normality) 1 of 2
pH (SU)	ARGWC-16	6.94	5.58	10/9/2019	5.22	Yes	52	0	n/a	0.001383	NP (normality) 1 of 2
pH (SU)	ARGWC-17	6.94	5.58	10/9/2019	5.27	Yes	52	0	n/a	0.001383	NP (normality) 1 of 2

Interwell Prediction Limits All Results

Plant Arkwright Client: Southern Company Data: Arkwright No 3 Printed 2/20/2020, 5:33 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Boron (mg/L)	ARGWC-10	0.68	n/a	10/9/2019	0.08ND	No	50	44	n/a	0.0007349	NP (normality) 1 of 2
Boron (mg/L)	ARGWC-15	0.68	n/a	10/8/2019	0.08ND	No	50	44	n/a	0.0007349	NP (normality) 1 of 2
Boron (mg/L)	ARGWC-16	0.68	n/a	10/9/2019	0.065	No	50	44	n/a	0.0007349	NP (normality) 1 of 2
Boron (mg/L)	ARGWC-17	0.68	n/a	10/9/2019	0.08ND	No	50	44	n/a	0.0007349	NP (normality) 1 of 2
Boron (mg/L)	ARGWC-18	0.68	n/a	10/9/2019	2.1	Yes	50	44	n/a	0.0007349	NP (normality) 1 of 2
Boron (mg/L)	ARGWC-7	0.68	n/a	10/9/2019	0.076	No	50	44	n/a	0.0007349	NP (normality) 1 of 2
Boron (mg/L)	ARGWC-8	0.68	n/a	10/9/2019	1.2	Yes	50	44	n/a	0.0007349	NP (normality) 1 of 2
Boron (mg/L)	ARGWC-9	0.68	n/a	10/9/2019	0.08ND	No	50	44	n/a	0.0007349	NP (normality) 1 of 2
Calcium (mg/L)	ARGWC-10	190	n/a	10/9/2019	7.7	No	50	0	n/a	0.0007349	NP (normality) 1 of 2
Calcium (mg/L)	ARGWC-15	190	n/a	10/8/2019	24	No	50	0	n/a	0.0007349	NP (normality) 1 of 2
Calcium (mg/L)	ARGWC-16	190	n/a	10/9/2019	39	No	50	0	n/a	0.0007349	NP (normality) 1 of 2
Calcium (mg/L)	ARGWC-17	190	n/a	10/9/2019	10	No	50	0	n/a	0.0007349	NP (normality) 1 of 2
Calcium (mg/L)	ARGWC-18	190	n/a	10/9/2019	49	No	50	0	n/a	0.0007349	NP (normality) 1 of 2
Calcium (mg/L)	ARGWC-7	190	n/a	10/9/2019	11	No	50	0	n/a	0.0007349	NP (normality) 1 of 2
Calcium (mg/L)	ARGWC-8	190	n/a	10/9/2019	53	No	50	0	n/a	0.0007349	NP (normality) 1 of 2
Calcium (mg/L)	ARGWC-9	190	n/a	10/9/2019	5.7	No	50	0	n/a	0.0007349	NP (normality) 1 of 2
Chloride (mg/L)	ARGWC-10	12.4	n/a	10/9/2019	3.8	No	151	0	n/a	0.00008684	NP (normality) 1 of 2
Chloride (mg/L)	ARGWC-15	12.4	n/a	10/8/2019	9.4	No	151	0	n/a	0.00008684	NP (normality) 1 of 2
Chloride (mg/L)	ARGWC-16	12.4	n/a	10/9/2019	4.7	No	151	0	n/a	0.00008684	NP (normality) 1 of 2
Chloride (mg/L)	ARGWC-17	12.4	n/a	10/9/2019	3.3	No	151	0	n/a	0.00008684	NP (normality) 1 of 2
Chloride (mg/L)	ARGWC-18	12.4	n/a	10/9/2019	6.7	No	151	0	n/a	0.00008684	NP (normality) 1 of 2
Chloride (mg/L)	ARGWC-7	12.4	n/a	10/9/2019	4.6	No	151	0	n/a	0.00008684	NP (normality) 1 of 2
Chloride (mg/L)	ARGWC-8	12.4	n/a	10/9/2019	5.7	No	151	0	n/a	0.00008684	NP (normality) 1 of 2
Chloride (mg/L)	ARGWC-9	12.4	n/a	10/9/2019	5.2	No	151	0	n/a	0.00008684	NP (normality) 1 of 2
Fluoride (mg/L)	ARGWC-10	1	n/a	10/9/2019	0.053	No	55	50.91	n/a	0.000627	NP (NDs) 1 of 2
Fluoride (mg/L)	ARGWC-15	1	n/a	10/8/2019	0.33	No	55	50.91	n/a	0.000627	NP (NDs) 1 of 2
Fluoride (mg/L)	ARGWC-16	1	n/a	10/9/2019	0.031	No	55	50.91	n/a	0.000627	NP (NDs) 1 of 2
Fluoride (mg/L)	ARGWC-17	1	n/a	10/9/2019	0.03	No	55	50.91	n/a	0.000627	NP (NDs) 1 of 2
Fluoride (mg/L)	ARGWC-18	1	n/a	10/9/2019	0.068	No	55	50.91	n/a	0.000627	NP (NDs) 1 of 2
Fluoride (mg/L)	ARGWC-7	1	n/a	10/9/2019	0.032	No	55	50.91	n/a	0.000627	NP (NDs) 1 of 2
Fluoride (mg/L)	ARGWC-8	1	n/a	10/9/2019	0.085	No	55	50.91	n/a	0.000627	NP (NDs) 1 of 2
Fluoride (mg/L)	ARGWC-9	1	n/a	10/9/2019	0.038	No	55	50.91	n/a	0.000627	NP (NDs) 1 of 2
pH (SU)	ARGWC-10	6.94	5.58	10/9/2019	5.94	No	52	0	n/a	0.001383	NP (normality) 1 of 2
pH (SU)	ARGWC-15	6.94	5.58	10/8/2019	6.38	No	52	0	n/a	0.001383	NP (normality) 1 of 2
pH (SU)	ARGWC-16	6.94	5.58	10/9/2019	5.22	Yes	52	0	n/a	0.001383	NP (normality) 1 of 2
pH (SU)	ARGWC-17	6.94	5.58	10/9/2019	5.27	Yes	52	0	n/a	0.001383	NP (normality) 1 of 2
pH (SU)	ARGWC-18	6.94	5.58	10/9/2019	6.01	No	52	0	n/a	0.001383	NP (normality) 1 of 2
pH (SU)	ARGWC-7	6.94	5.58	10/9/2019	5.76	No	52	0	n/a	0.001383	NP (normality) 1 of 2
pH (SU)	ARGWC-8	6.94	5.58	10/9/2019	6.47	No	52	0	n/a	0.001383	NP (normality) 1 of 2
pH (SU)	ARGWC-9	6.94	5.58	10/9/2019	5.9	No	52	0	n/a	0.001383	NP (normality) 1 of 2
Sulfate (mg/L)	ARGWC-10	950	n/a	10/9/2019	0.59	No	145	19.31	n/a	0.00009375	NP (normality) 1 of 2
Sulfate (mg/L)	ARGWC-15	950	n/a	10/8/2019	31	No	145	19.31	n/a	0.00009375	NP (normality) 1 of 2
Sulfate (mg/L)	ARGWC-16	950	n/a	10/9/2019	210	No	145	19.31	n/a	0.00009375	NP (normality) 1 of 2
Sulfate (mg/L)	ARGWC-17	950	n/a	10/9/2019	57	No	145	19.31	n/a	0.00009375	NP (normality) 1 of 2
Sulfate (mg/L)	ARGWC-18	950	n/a	10/9/2019	180	No	145	19.31	n/a	0.00009375	NP (normality) 1 of 2
Sulfate (mg/L)	ARGWC-7	950	n/a	10/9/2019	42	No	145	19.31	n/a	0.00009375	NP (normality) 1 of 2
Sulfate (mg/L)	ARGWC-8	950	n/a	10/9/2019	63	No	145	19.31	n/a	0.00009375	NP (normality) 1 of 2
Sulfate (mg/L)	ARGWC-9	950	n/a	10/9/2019	1.5	No	145	19.31	n/a	0.00009375	NP (normality) 1 of 2
Total Dissolved Solids (mg/L)	ARGWC-10	1331	n/a	10/9/2019	92	No	50	0	ln(x)	0.0009403	Param 1 of 2
Total Dissolved Solids (mg/L)	ARGWC-15	1331	n/a	10/8/2019	130	No	50	0	ln(x)	0.0009403	Param 1 of 2

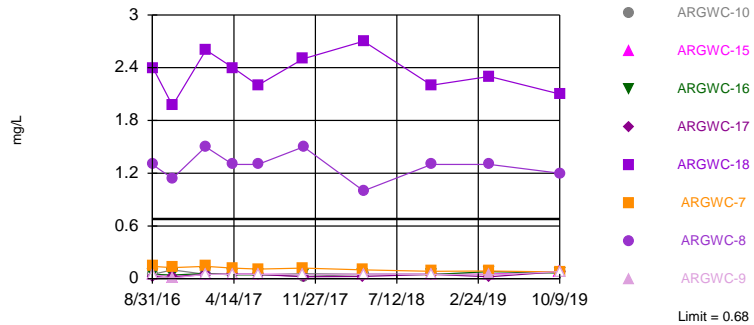
Interwell Prediction Limits All Results

Plant Arkwright Client: Southern Company Data: Arkwright No 3 Printed 2/20/2020, 5:33 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig.</u>	<u>Bg N</u>	<u>%NDs</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Total Dissolved Solids (mg/L)	ARGWC-16	1331	n/a	10/9/2019	350	No	50	0	ln(x)	0.0009403	Param 1 of 2
Total Dissolved Solids (mg/L)	ARGWC-17	1331	n/a	10/9/2019	120	No	50	0	ln(x)	0.0009403	Param 1 of 2
Total Dissolved Solids (mg/L)	ARGWC-18	1331	n/a	10/9/2019	420	No	50	0	ln(x)	0.0009403	Param 1 of 2
Total Dissolved Solids (mg/L)	ARGWC-7	1331	n/a	10/9/2019	130	No	50	0	ln(x)	0.0009403	Param 1 of 2
Total Dissolved Solids (mg/L)	ARGWC-8	1331	n/a	10/9/2019	290	No	50	0	ln(x)	0.0009403	Param 1 of 2
Total Dissolved Solids (mg/L)	ARGWC-9	1331	n/a	10/9/2019	75	No	50	0	ln(x)	0.0009403	Param 1 of 2

Exceeds Limit: ARGWC-18, ARGWC-8

Prediction Limit
Interwell Non-parametric

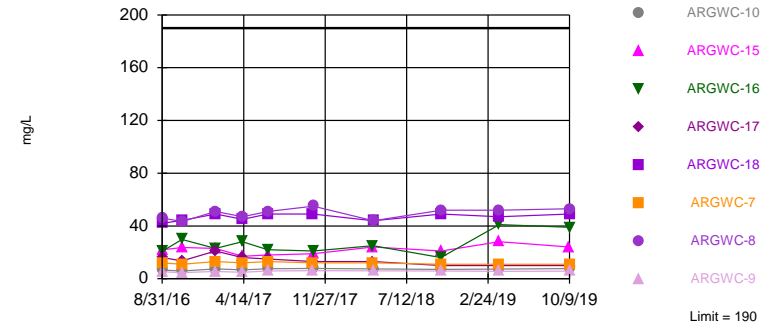


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 50 background values. 44% NDs. Annual per-constituent alpha = 0.01169. Individual comparison alpha = 0.0007349 (1 of 2). Comparing 8 points to limit.

Constituent: Boron Analysis Run 2/20/2020 5:30 PM View: CCR Interwell PL
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Within Limit

Prediction Limit
Interwell Non-parametric

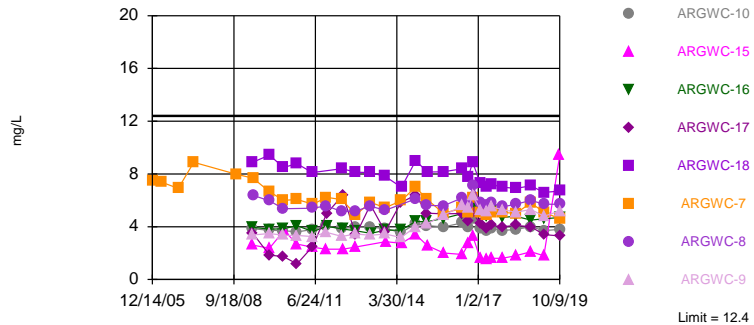


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 50 background values. Annual per-constituent alpha = 0.01169. Individual comparison alpha = 0.0007349 (1 of 2). Comparing 8 points to limit.

Constituent: Calcium Analysis Run 2/20/2020 5:30 PM View: CCR Interwell PL
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Within Limit

Prediction Limit
Interwell Non-parametric

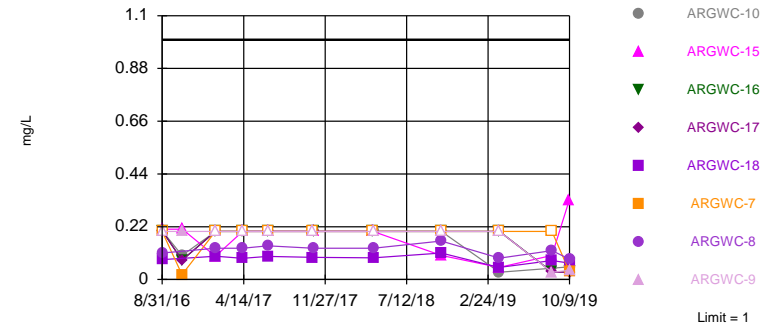


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 151 background values. Annual per-constituent alpha = 0.001389. Individual comparison alpha = 0.00008684 (1 of 2). Comparing 8 points to limit.

Constituent: Chloride Analysis Run 2/20/2020 5:30 PM View: CCR Interwell PL
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Within Limit

Prediction Limit
Interwell Non-parametric

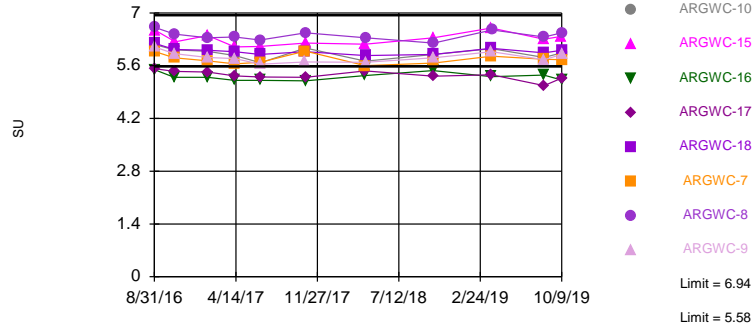


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 55 background values. 50.91% NDs. Annual per-constituent alpha = 0.009985. Individual comparison alpha = 0.000627 (1 of 2). Comparing 8 points to limit.

Constituent: Fluoride Analysis Run 2/20/2020 5:30 PM View: CCR Interwell PL
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Exceeds Limits: ARGWC-16, ARGWC-17

Prediction Limit
Interwell Non-parametric

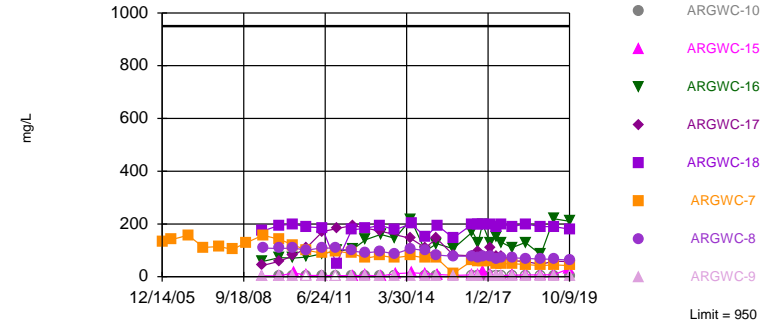


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 52 background values. Annual per-constituent alpha = 0.02202. Individual comparison alpha = 0.001383 (1 of 2). Comparing 8 points to limit.

Constituent: pH Analysis Run 2/20/2020 5:30 PM View: CCR Interwell PL
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Within Limit

Prediction Limit
Interwell Non-parametric

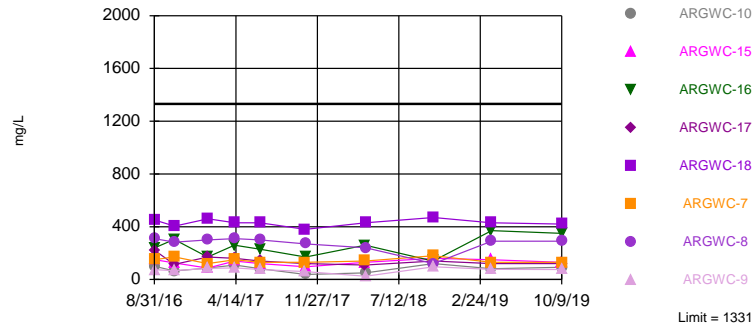


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 145 background values. 19.31% NDs. Annual per-constituent alpha = 0.001499. Individual comparison alpha = 0.00009375 (1 of 2). Comparing 8 points to limit.

Constituent: Sulfate Analysis Run 2/20/2020 5:30 PM View: CCR Interwell PL
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Within Limit

Prediction Limit
Interwell Parametric



Background Data Summary (based on natural log transformation): Mean=5.039, Std. Dev.=1.087, n=50. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9498, critical = 0.935. Kappa = 1.982 (c=7, w=8, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.0009403. Comparing 8 points to limit.

Constituent: Total Dissolved Solids Analysis Run 2/20/2020 5:30 PM View: CCR Interwell PL
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 2/20/2020 5:33 PM View: CCR Interwell PL

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-12 (bg)	ARGWA-5 (bg)	ARGWA-3 (bg)	ARGWC-9	ARGWC-7	ARGWA-14 (bg)	ARGWA-13 (bg)	ARGWC-8	ARGWC-16
8/30/2016	0.032 (J)	<0.05							
8/31/2016			<0.05	<0.05	0.14	0.04 (J)	0.1	1.3	
9/1/2016									0.049 (J)
9/2/2016									
10/24/2016	0.0406 (J)								
10/25/2016		0.0073 (J)	0.0068 (J)	0.0071 (J)	0.126	0.065 (J)	0.204		0.042 (J)
10/26/2016								1.14	
1/23/2017	0.023 (J)					0.031 (J)			
1/24/2017		<0.05	<0.05				0.064		
1/26/2017				<0.05	0.14			1.5	0.059
1/27/2017									
4/11/2017	0.025 (J)	<0.05	<0.05			0.043 (J)	0.081		0.045 (J)
4/12/2017				<0.05	0.12			1.3	
6/20/2017		<0.05	<0.05			0.029 (J)			
6/21/2017	<0.05						0.13	1.3	0.045 (J)
6/22/2017				<0.05	0.11				
10/25/2017	0.028 (J)	<0.05	<0.05	<0.05	0.12	0.041 (J)	0.17		
10/26/2017								1.5	0.054
4/9/2018						0.04 (J)	0.059		
4/10/2018	0.027 (J)	<0.05	<0.05		0.1				0.048 (J)
4/11/2018				<0.05				1	
10/16/2018	0.023 (J)	<0.05	<0.05			0.046 (J)	0.34		0.048 (J)
10/17/2018				<0.05	0.084			1.3	
3/26/2019							0.32		
3/27/2019	<0.05	<0.05	<0.05			0.032 (J)			
3/28/2019				0.044 (J)	0.087			1.3	0.08
10/7/2019						<0.08			
10/8/2019	<0.08	<0.08	<0.08				0.68		
10/9/2019				<0.08	0.076 (J)			1.2	0.065 (J)

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 2/20/2020 5:33 PM View: CCR Interwell PL
Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-10	ARGWC-17	ARGWC-18	ARGWC-15
8/30/2016				
8/31/2016				
9/1/2016	<0.05	0.022 (J)	2.4	
9/2/2016				<0.05
10/24/2016				
10/25/2016	<0.1	0.0219 (J)		
10/26/2016			1.97	0.0138 (J)
1/23/2017				
1/24/2017				
1/26/2017		<0.05		<0.05
1/27/2017	<0.05		2.6	
4/11/2017		<0.05		
4/12/2017	<0.05		2.4	<0.05
6/20/2017				
6/21/2017		<0.05	2.2	<0.05
6/22/2017	<0.05			
10/25/2017			2.5	
10/26/2017	0.026 (J)	0.023 (J)		<0.05
4/9/2018				
4/10/2018		0.026 (J)		<0.05
4/11/2018	<0.05		2.7	
10/16/2018				
10/17/2018	<0.05	<0.05	2.2	<0.05
3/26/2019				
3/27/2019			2.3	<0.05
3/28/2019	<0.05	0.022 (J)		
10/7/2019				
10/8/2019				<0.08
10/9/2019	<0.08	<0.08	2.1	

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 2/20/2020 5:33 PM View: CCR Interwell PL

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-12 (bg)	ARGWA-5 (bg)	ARGWA-3 (bg)	ARGWC-9	ARGWC-7	ARGWA-14 (bg)	ARGWA-13 (bg)	ARGWC-8	ARGWC-16
8/30/2016	11	5.1							
8/31/2016			5.4	5.2	12	31	110	46	
9/1/2016									21
9/2/2016									
10/24/2016	10.4								
10/25/2016		4.76	4.47	4.64	10.9	38.5	150		29.8
10/26/2016								43.3	
1/23/2017	12					25			
1/24/2017		5.6	5.8				78		
1/26/2017				5.5	13			51	23
1/27/2017									
4/11/2017	12	4.7	5.3			33	78		28
4/12/2017				4.9	12			47	
6/20/2017		5.4	5.8			34			
6/21/2017	12						110	51	22
6/22/2017				5.8	13				
10/25/2017	13	6	5.9	6.1	12	28	120		
10/26/2017								55	21
4/9/2018						30	49		
4/10/2018	13	5.3	5.9		12				25
4/11/2018				6				44	
10/16/2018	12	5.6	5.8			41	110		16
10/17/2018				5.8	11			52	
3/26/2019							95		
3/27/2019	11	4.5	5.4			42			
3/28/2019				5.6	11			52	41
10/7/2019						36			
10/8/2019	13	5.9	6				190		
10/9/2019				5.7	11			53	39

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 2/20/2020 5:33 PM View: CCR Interwell PL
Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-10	ARGWC-17	ARGWC-18	ARGWC-15
8/30/2016				
8/31/2016				
9/1/2016	6.6	16	42	
9/2/2016				22
10/24/2016				
10/25/2016	5.89	13.5		
10/26/2016			44.3	23.7
1/23/2017				
1/24/2017				
1/26/2017		21		23
1/27/2017	7.4		49	
4/11/2017		16		
4/12/2017	6.7		45	17
6/20/2017				
6/21/2017		15	49	18
6/22/2017	7.5			
10/25/2017			49	
10/26/2017	7.8	13		19
4/9/2018				
4/10/2018		13		24
4/11/2018	7.4		44	
10/16/2018				
10/17/2018	7.1	10	49	21
3/26/2019				
3/27/2019			47	28
3/28/2019	7.3	10		
10/7/2019				
10/8/2019				24
10/9/2019	7.7	10	49	

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 2/20/2020 5:33 PM View: CCR Interwell PL

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-5 (bg)	ARGWA-3 (bg)	ARGWC-7	ARGWC-15	ARGWA-12 (bg)	ARGWA-13 (bg)	ARGWC-16	ARGWC-17	ARGWC-18
12/16/1997	3.8								
6/30/1998	2.9	4.6							
12/2/1998	1.76	3.13							
6/8/1999	1.97	1.56							
12/7/1999	1.98	3.05							
6/15/2000	2.08	3.35							
12/12/2000	2.02	2.42							
12/5/2001	2.03	2.62							
6/26/2002	2.52	3.4							
12/3/2002	2.12	3.04							
6/11/2003	2.43	3.02							
12/10/2003	1.93	2.9							
6/15/2004	2.42	2.05							
12/14/2004	2.44	2.78							
6/2/2005	2.79	3.15							
12/14/2005	2.77	3.38	7.52						
4/5/2006	2.8	3.49	7.38						
10/30/2006	3.09	2.84	6.9						
5/10/2007	3.93	3.68	8.88						
11/17/2007		2.69							
5/3/2008	3.52	2.85							
10/22/2008	3.15	2.99	7.97						
5/5/2009				2.61					
5/6/2009	3.49				10.7				
5/7/2009		2.96				4.24			
5/12/2009							3.96	3.5	8.89
5/13/2009									
5/14/2009			7.68						
12/1/2009	3.26		6.66						
12/3/2009					10.1	2.66			
12/4/2009		2.97		2.37				1.85	9.43
12/5/2009							3.81		
5/25/2010	3.62				7.11	3.29		1.74	8.49
5/26/2010			6				3.85		
6/1/2010		3.23		3.71					
11/9/2010	3.38				8.4		4.08	1.18	
11/10/2010		2.86	6.07	2.69		3.82			8.77
5/18/2011									
5/19/2011									8.11
5/24/2011	3.62				9.07		3.63	2.51	
5/25/2011		2.86	5.7	2.44		4.92			
11/9/2011				2.3					
11/10/2011	3.74				10.3	4.48			
11/11/2011			6.23						
11/12/2011		2.83					4.03	4.99	
5/17/2012			6.06						8.4
5/18/2012	3.6				10.1				
5/30/2012						4.72	3.82	6.4	
5/31/2012		2.68		2.29					
11/9/2012	3.66		4.9		8.73	5.1	3.69	3.37	
11/10/2012				2.46					8.13
11/11/2012		2.63							

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 2/20/2020 5:33 PM View: CCR Interwell PL
Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-5 (bg)	ARGWA-3 (bg)	ARGWC-7	ARGWC-15	ARGWA-12 (bg)	ARGWA-13 (bg)	ARGWC-16	ARGWC-17	ARGWC-18
10/8/2019	5.7	2.6		9.4		6.7			
10/9/2019			4.6				4.7	3.3	6.7

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 2/20/2020 5:33 PM View: CCR Interwell PL
Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-10	ARGWC-9	ARGWC-8	ARGWA-14 (bg)
12/16/1997				
6/30/1998				
12/2/1998				
6/8/1999				
12/7/1999				
6/15/2000				
12/12/2000				
12/5/2001				
6/26/2002				
12/3/2002				
6/11/2003				
12/10/2003				
6/15/2004				
12/14/2004				
6/2/2005				
12/14/2005				
4/5/2006				
10/30/2006				
5/10/2007				
11/17/2007				
5/3/2008				
10/22/2008				
5/5/2009				
5/6/2009				
5/7/2009				
5/12/2009				
5/13/2009	3.85	3.37		
5/14/2009			6.38	
12/1/2009				
12/3/2009	3.73	3.49	5.96	
12/4/2009				
12/5/2009				
5/25/2010				
5/26/2010	3.7	3.35	5.37	
6/1/2010				
11/9/2010	3.6	3.34		
11/10/2010				
5/18/2011			5.4	
5/19/2011	3.79	3.25		
5/24/2011				
5/25/2011				
11/9/2011				
11/10/2011				
11/11/2011	4.07	3.57	5.58	
11/12/2011				
5/17/2012	3.84	3.27	5.15	
5/18/2012				
5/30/2012				
5/31/2012				
11/9/2012	3.99	3.45	5.2	
11/10/2012				
11/11/2012				

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 2/20/2020 5:33 PM View: CCR Interwell PL
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-10	ARGWC-9	ARGWC-8	ARGWA-14 (bg)
5/7/2013	3.94	3.35	5.56	
5/8/2013				
5/9/2013				
5/13/2013				
11/5/2013			5.24	
11/6/2013	3.89	3.45		
11/11/2013				
11/12/2013				
5/20/2014	3.54			
5/21/2014		3.18		
5/28/2014				
5/29/2014				
11/17/2014				
11/18/2014	4.2	4	6.1	
11/19/2014				
11/20/2014				
4/7/2015	4.09	4.22	5.62	
4/14/2015				
4/15/2015				
10/28/2015	3.98	4.87	5.58	
10/29/2015				
11/3/2015				
11/4/2015				12.4
6/23/2016	4.3	5.6	6.2	9
6/24/2016				
8/30/2016				
8/31/2016		5.4	5.6	5.4
9/1/2016	4			
9/2/2016				
10/24/2016				
10/25/2016	4.6	6.4		9.3
10/26/2016			7.1	
1/23/2017				5.1
1/24/2017				
1/26/2017		5.3	5.8	
1/27/2017	3.9			
4/11/2017				4.1
4/12/2017	3.7	5.2	5.6	
6/20/2017				4.1
6/21/2017			5.8	
6/22/2017	3.9	5.5		
10/25/2017		5.3		3.8
10/26/2017	3.7		5.5	
4/9/2018				3.9
4/10/2018				
4/11/2018	3.8	5.1	5.7	
10/16/2018				4.3
10/17/2018	4	5.3	6	
3/26/2019				
3/27/2019				4
3/28/2019	3.7	4.8	5.7	
10/7/2019				4

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 2/20/2020 5:33 PM View: CCR Interwell PL
Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-10	ARGWC-9	ARGWC-8	ARGWA-14 (bg)
10/8/2019				
10/9/2019	3.8	5.2	5.7	

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 2/20/2020 5:33 PM View: CCR Interwell PL

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-12 (bg)	ARGWA-5 (bg)	ARGWA-3 (bg)	ARGWA-14 (bg)	ARGWC-9	ARGWC-7	ARGWC-8	ARGWA-13 (bg)	ARGWC-16
8/30/2016	<0.2	<0.2							
8/31/2016			<0.2	0.12 (J)	<0.2	<0.2	0.11 (J)	<0.2	
9/1/2016									<0.2
9/2/2016									
10/24/2016	0.1 (J)								
10/25/2016		0.09 (J)	0.14 (J)	0.53	0.2 (J)	0.02 (J)		0.08 (J)	0.08 (J)
10/26/2016									
1/23/2017	<0.2			0.4					
1/24/2017		<0.2	<0.2					<0.2	
1/26/2017					<0.2	<0.2	0.13 (J)		<0.2
1/27/2017									
4/11/2017	<0.2	<0.2	<0.2	0.31				<0.2	<0.2
4/12/2017					<0.2	<0.2	0.13 (J)		
6/20/2017		<0.2	<0.2	0.27					
6/21/2017	<0.2						0.14 (J)	<0.2	<0.2
6/22/2017					<0.2	<0.2			
10/25/2017	<0.2	<0.2	<0.2	0.29	<0.2	<0.2		<1	
10/26/2017							0.13 (J)		<0.2
4/9/2018				0.25				<0.2	
4/10/2018	<0.2	<0.2	<0.2			<0.2			<0.2
4/11/2018					<0.2		0.13 (J)		
10/16/2018	0.1 (J)	<0.2	0.1 (J)	0.33				<0.4	<0.2
10/17/2018					<0.2	<0.2	0.16 (J)		
3/26/2019								<0.2	
3/27/2019	0.031 (J)	0.026 (J)	0.034 (J)	0.15 (J)					
3/28/2019					<0.2	<0.2	0.089 (J)		<0.2
8/19/2019								<0.2	
8/20/2019	0.049 (J)	0.047 (J)	0.053 (J)						0.033 (J)
8/21/2019				0.35	0.03 (J)	<0.2	0.12 (J)		
10/7/2019				0.12 (J)					
10/8/2019	0.27 (J)	0.05 (J)	0.056 (J)					0.033 (J)	
10/9/2019					0.038 (J)	0.032 (J)	0.085 (J)		0.031 (J)

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 2/20/2020 5:33 PM View: CCR Interwell PL
Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-17	ARGWC-10	ARGWC-18	ARGWC-15
8/30/2016				
8/31/2016				
9/1/2016	<0.2	<0.2	0.083 (J)	
9/2/2016				0.21
10/24/2016				
10/25/2016	0.08 (J)	0.1 (J)		
10/26/2016				0.21 (J)
1/23/2017				
1/24/2017				
1/26/2017	<0.2			0.097 (J)
1/27/2017		<0.2	0.097 (J)	
4/11/2017	<0.2			
4/12/2017		<0.2	0.088 (J)	<0.2
6/20/2017				
6/21/2017	<0.2		0.096 (J)	<0.2
6/22/2017		<0.2		
10/25/2017			0.092 (J)	
10/26/2017	<0.2	<0.2		<0.2
4/9/2018				
4/10/2018	<0.2			<0.2
4/11/2018		<0.2	0.09 (J)	
10/16/2018				
10/17/2018	<0.2	<0.2	0.11 (J)	0.1 (J)
3/26/2019				
3/27/2019			0.05 (J)	0.05 (J)
3/28/2019	<0.2	0.03 (J)		
8/19/2019				
8/20/2019				
8/21/2019	0.031 (J)	0.047 (J)	0.079 (J)	0.1 (J)
10/7/2019				
10/8/2019				0.33 (J)
10/9/2019	0.03 (J)	0.053 (J)	0.068 (J)	

Prediction Limit

Constituent: pH (SU) Analysis Run 2/20/2020 5:33 PM View: CCR Interwell PL

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-5 (bg)	ARGWC-8	ARGWA-3 (bg)	ARGWC-9	ARGWC-10	ARGWC-7	ARGWC-16	ARGWC-17	ARGWC-18
8/30/2016	6.07								
8/31/2016		6.62	6.09	6.1	6.16	5.98			
9/1/2016							5.49	5.52	6.19
9/2/2016									
10/24/2016									
10/25/2016	5.96		5.92	5.92	6.02	5.81	5.29	5.45	
10/26/2016		6.44							6.03
1/23/2017									
1/24/2017	5.89		5.98						
1/26/2017		6.34		5.82		5.73	5.29	5.43	
1/27/2017					5.98				6.01
4/11/2017	5.78		5.82				5.21	5.33	
4/12/2017		6.36		5.79	5.87	5.65			5.97
6/20/2017	5.69		5.8						
6/21/2017		6.28					5.21	5.3	5.9
6/22/2017				5.64	5.68	5.69			
10/25/2017	6.11		5.89	5.7		5.99			5.97
10/26/2017		6.47			6.07		5.2	5.29	
4/9/2018									
4/10/2018	5.58		5.85			5.6	5.34	5.46	
4/11/2018		6.34		5.69	5.72				5.87
10/16/2018	5.86		6.03				5.47		
10/17/2018		6.2		5.81	5.9	5.67		5.32	5.9
3/26/2019									
3/27/2019	5.97		6.1						6.06
3/28/2019				5.97	6.05	5.85	5.31	5.36	
3/29/2019		6.55							
8/19/2019									
8/20/2019	5.8		5.83				5.35		
8/21/2019		6.36		5.76	5.82	5.77		5.07	5.94
10/7/2019									
10/8/2019	5.93		5.96						
10/9/2019		6.47		5.9	5.94	5.76	5.22	5.27	6.01

Prediction Limit

Constituent: pH (SU) Analysis Run 2/20/2020 5:33 PM View: CCR Interwell PL
Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-15	ARGWA-12 (bg)	ARGWA-14 (bg)	ARGWA-13 (bg)
8/30/2016				
8/31/2016				
9/1/2016				
9/2/2016	6.54			
10/24/2016		5.99		
10/25/2016	6.25		6.92	5.8
10/26/2016	6.23			
1/23/2017		5.94	6.76	
1/24/2017				5.82
1/26/2017	6.4			
1/27/2017				
4/11/2017		5.88	6.72	5.78
4/12/2017	6.1			
6/20/2017			6.66	
6/21/2017	6.11	5.73		5.67
6/22/2017				
10/25/2017		6.13	6.77	5.72
10/26/2017	6.2			
4/9/2018			6.6	5.78
4/10/2018	6.17	5.95		
4/11/2018				
10/16/2018		5.94	6.63	5.74
10/17/2018	6.34			
3/26/2019				5.96
3/27/2019	6.6	6	6.83	
3/28/2019				
3/29/2019				
8/19/2019				5.59
8/20/2019		5.89		
8/21/2019	6.3		6.94	
10/7/2019			6.69	
10/8/2019	6.38	5.93		5.74
10/9/2019				

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 2/20/2020 5:33 PM View: CCR Interwell PL

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-3 (bg)	ARGWA-5 (bg)	ARGWC-7	ARGWC-15	ARGWA-12 (bg)	ARGWC-18	ARGWC-16	ARGWC-17	ARGWC-9
12/16/1997	<1	2							
6/30/1998	<1	<1							
12/2/1998	0.654	0.709							
6/8/1999	1.46	<0.038							
12/7/1999	0.399	0.531							
6/15/2000	0.601	0.733							
12/12/2000	0.45	0.621							
12/5/2001	0.094	0.274							
6/26/2002	4.95	0.505							
12/3/2002	0.911	0.515							
6/11/2003	1.85	0.508							
12/10/2003	0.77	0.578							
6/15/2004	1.3	1.23							
12/14/2004	1.02	1.22							
6/2/2005	0.834	0.908							
12/14/2005	<0.13	0.825	133						
4/5/2006	<0.13	1.06	140						
10/30/2006	0.865	0.996	157						
5/10/2007	1.03	1.01	111						
11/17/2007	0.818	1.72	114						
5/2/2008			104						
5/3/2008	0.941	1.2							
10/22/2008	<0.14	<0.14	129						
5/5/2009				2.89					
5/6/2009		0.807			16.6				
5/7/2009	0.46								
5/12/2009						173	57.9	42.6	
5/13/2009									0.938
5/14/2009			157						
12/1/2009		0.644	142						
12/3/2009					12.3				0.422
12/4/2009	1.06			3.13		195		58.4	
12/5/2009							72.1		
5/25/2010		0.509			6.44	199		79.4	
5/26/2010			120				70.3		0.262
6/1/2010	5.56			14.5					
11/9/2010		0.348			6.83		74.8	111	<0.19
11/10/2010	0.241		100	5.04		189			
5/18/2011									
5/19/2011						186			0.359
5/24/2011		0.532			8.55		87.2	171	
5/25/2011	0.383		88.8	4.57					
11/9/2011				4.15					
11/10/2011		0.209			9.74				
11/11/2011			96.6						<0.17
11/12/2011	<0.17					49.9	97.9	182	
5/17/2012			88.9			177			0.398
5/18/2012		0.471			8.72				
5/30/2012							103	194	
5/31/2012	0.426			4.05					
11/9/2012		0.589	70.1		5.9		140		0.545
11/10/2012				5.68		184			

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 2/20/2020 5:33 PM View: CCR Interwell PL
Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-3 (bg)	ARGWA-5 (bg)	ARGWC-7	ARGWC-15	ARGWA-12 (bg)	ARGWC-18	ARGWC-16	ARGWC-17	ARGWC-9
10/8/2019	0.7 (J)	0.7 (J)		31	55				
10/9/2019			42			180	210	57	1.5

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 2/20/2020 5:33 PM View: CCR Interwell PL
Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-8	ARGWC-10	ARGWA-13 (bg)	ARGWA-14 (bg)
12/16/1997				
6/30/1998				
12/2/1998				
6/8/1999				
12/7/1999				
6/15/2000				
12/12/2000				
12/5/2001				
6/26/2002				
12/3/2002				
6/11/2003				
12/10/2003				
6/15/2004				
12/14/2004				
6/2/2005				
12/14/2005				
4/5/2006				
10/30/2006				
5/10/2007				
11/17/2007				
5/2/2008				
5/3/2008				
10/22/2008				
5/5/2009				
5/6/2009				
5/7/2009				
5/12/2009				
5/13/2009				
5/14/2009	109			
12/1/2009				
12/3/2009	107	0.544		
12/4/2009				
12/5/2009				
5/25/2010				
5/26/2010	109	0.37		
6/1/2010				
11/9/2010	100	0.299		
11/10/2010				
5/18/2011	110			
5/19/2011		0.502		
5/24/2011				
5/25/2011				
11/9/2011				
11/10/2011				
11/11/2011	107	0.172		
11/12/2011				
5/17/2012	98	0.438		
5/18/2012				
5/30/2012				
5/31/2012				
11/9/2012	90.4	0.537		
11/10/2012				

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 2/20/2020 5:33 PM View: CCR Interwell PL
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-8	ARGWC-10	ARGWA-13 (bg)	ARGWA-14 (bg)
11/11/2012				
5/7/2013	96.2	0.437		
5/8/2013				
5/13/2013				
11/5/2013	86.9			
11/6/2013		<0.5		
11/11/2013			316	
11/12/2013				
5/20/2014				
5/21/2014	106		162	
5/28/2014				
5/29/2014				
11/17/2014				
11/18/2014	99	<1	370	
11/19/2014				
11/20/2014				
4/7/2015	82.3	0.464	235	
4/14/2015				105
4/15/2015				
10/28/2015	78	0.293		
10/29/2015				
11/3/2015				
11/4/2015				74.4
6/23/2016	78	<1	380	18
6/24/2016				
8/30/2016				
8/31/2016	72		600	19
9/1/2016		<1		
9/2/2016				
10/24/2016				
10/25/2016		0.38 (J)		42
10/26/2016	77			
1/23/2017				12
1/24/2017			370	
1/26/2017	75			
1/27/2017		<1		
4/11/2017			340	7.1
4/12/2017	69	<1		
6/20/2017				8.5
6/21/2017	73		540	
6/22/2017		<1		
10/25/2017			580	9.1
10/26/2017	72	<1		
4/9/2018			230	11
4/10/2018				
4/11/2018	69	<1		
10/16/2018			520	14
10/17/2018	67	<1		
3/26/2019			430	
3/27/2019				15
3/28/2019	66	0.38 (J)		
10/7/2019				12

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 2/20/2020 5:33 PM View: CCR Interwell PL
Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-8	ARGWC-10	ARGWA-13 (bg)	ARGWA-14 (bg)
10/8/2019			950	
10/9/2019	63	0.59 (J)		

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 2/20/2020 5:33 PM View: CCR Interwell PL

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-12 (bg)	ARGWA-5 (bg)	ARGWA-3 (bg)	ARGWC-9	ARGWC-7	ARGWA-14 (bg)	ARGWA-13 (bg)	ARGWC-8	ARGWC-16
8/30/2016	100	58							
8/31/2016			80	74	150	330	1000	310	
9/1/2016									240
9/2/2016									
10/24/2016	136								
10/25/2016		34	65	67	171	459	1280		304
10/26/2016								283	
1/23/2017	16					340			
1/24/2017		120	70				590		
1/26/2017				84	120			300	170
1/27/2017									
4/11/2017	120	76	64			300	610		260
4/12/2017				88	150			310	
6/20/2017		36	52			210			
6/21/2017	140						880	300	230
6/22/2017				76	130				
10/25/2017	120	64	72	60	130	280	900		
10/26/2017								270	170
4/9/2018						280	440		
4/10/2018	130	60	86		140				260
4/11/2018				24				240	
10/16/2018	150	54	74			48	910		140
10/17/2018				96	180			120	
3/26/2019							750		
3/27/2019	110	61	69			330			
3/28/2019				77	130			290	370
10/7/2019						230			
10/8/2019	130	68	66				1500		
10/9/2019				75	130			290	350

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 2/20/2020 5:33 PM View: CCR Interwell PL
Plant Arkwright Client: Southern Company Data: Arkwright No 3

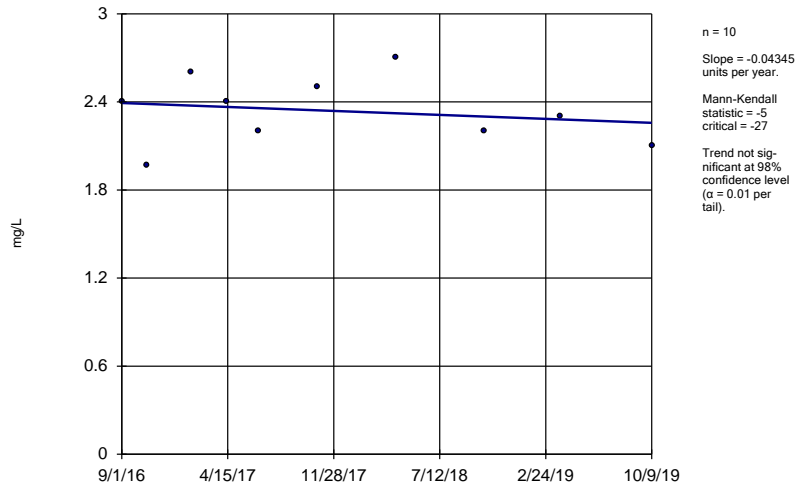
	ARGWC-10	ARGWC-17	ARGWC-18	ARGWC-15
8/30/2016				
8/31/2016				
9/1/2016	100	220	450	
9/2/2016				150
10/24/2016				
10/25/2016	65	114		
10/26/2016			404	125
1/23/2017				
1/24/2017				
1/26/2017		170		86
1/27/2017	86		460	
4/11/2017		160		
4/12/2017	110		430	140
6/20/2017				
6/21/2017		140	430	120
6/22/2017	82			
10/25/2017			380	
10/26/2017	38	120		96
4/9/2018				
4/10/2018		110		130
4/11/2018	50		430	
10/16/2018				
10/17/2018	120	140	470	160
3/26/2019				
3/27/2019			430	150
3/28/2019	82	120		
10/7/2019				
10/8/2019				130
10/9/2019	92	120	420	

Trend Test

Plant Arkwright Client: Southern Company Data: Arkwright No 3 Printed 2/12/2020, 10:54 AM

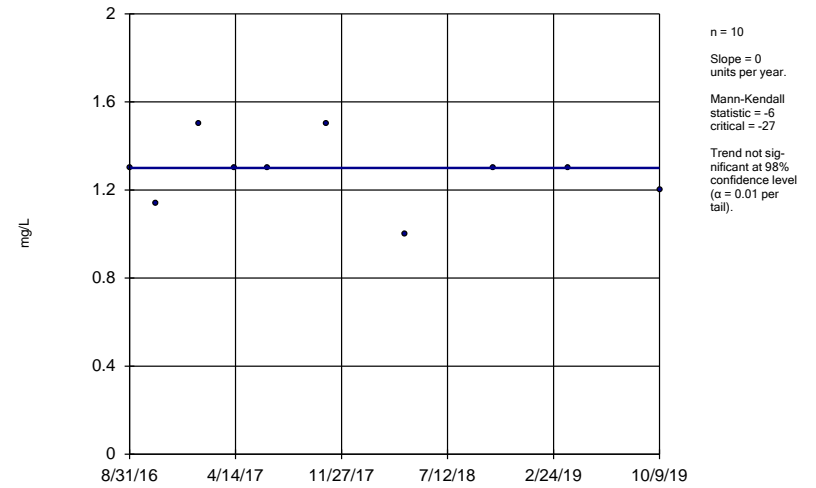
<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
Boron (mg/L)	ARGWC-18	-0.04345	-5	-27	No	10	0	n/a	n/a	0.02	NP
Boron (mg/L)	ARGWC-8	0	-6	-27	No	10	0	n/a	n/a	0.02	NP
pH (SU)	ARGWA-12 ...	-0.01022	-4	-27	No	10	0	n/a	n/a	0.02	NP
pH (SU)	ARGWC-16	0	-1	-31	No	11	0	n/a	n/a	0.02	NP
pH (SU)	ARGWC-17	-0.07849	-31	-31	No	11	0	n/a	n/a	0.02	NP

Sen's Slope Estimator ARGWC-18



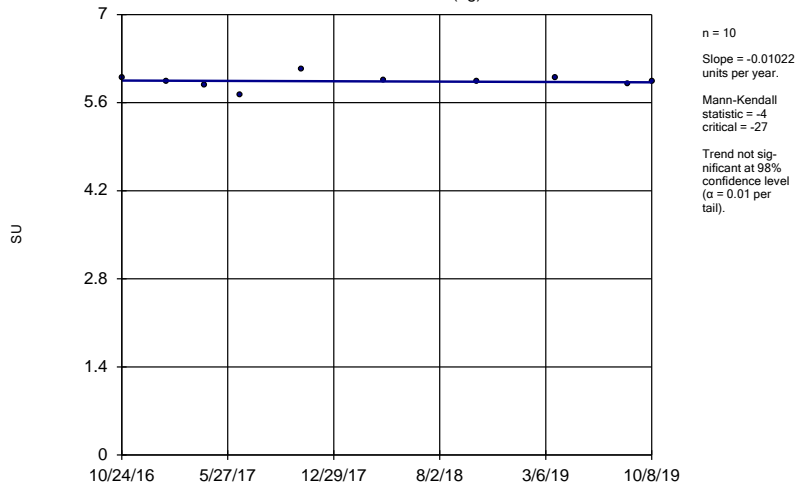
Constituent: Boron Analysis Run 2/12/2020 10:53 AM View: Time Series
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Sen's Slope Estimator ARGWC-8



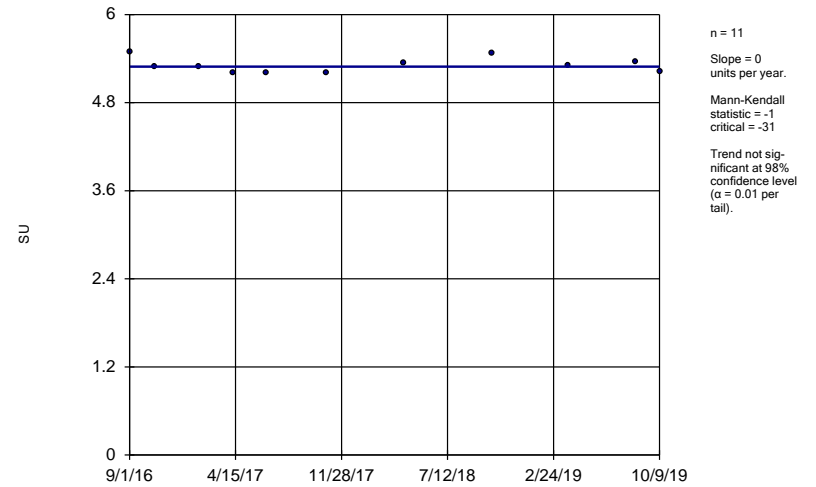
Constituent: Boron Analysis Run 2/12/2020 10:53 AM View: Time Series
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Sen's Slope Estimator ARGWA-12 (bg)



Constituent: pH Analysis Run 2/12/2020 10:53 AM View: Time Series
Plant Arkwright Client: Southern Company Data: Arkwright No 3

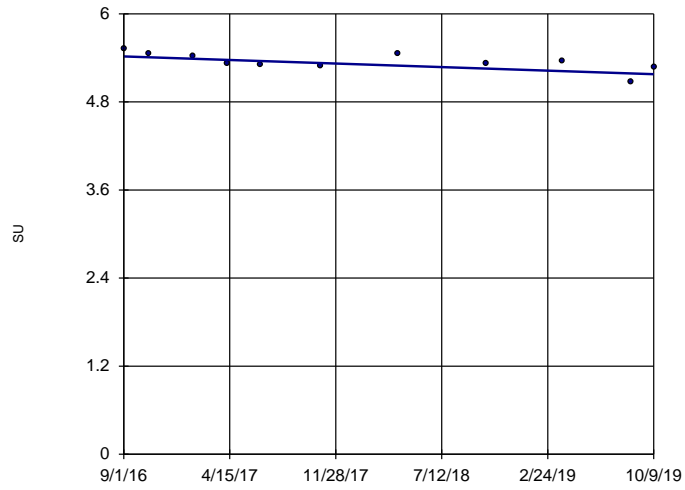
Sen's Slope Estimator ARGWC-16



Constituent: pH Analysis Run 2/12/2020 10:53 AM View: Time Series
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Sen's Slope Estimator

ARGWC-17



n = 11
Slope = -0.07849
units per year.
Mann-Kendall
statistic = -31
critical = -31
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: pH Analysis Run 2/12/2020 10:53 AM View: Time Series
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Sen's Slope Estimator

Constituent: Boron, pH Analysis Run 2/12/2020 10:54 AM View: Time Series

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-18	ARGWC-8	ARGWA-12 (bg)	ARGWC-16
8/31/2016		1.3		
9/1/2016	2.4			5.49
10/24/2016			5.99	
10/25/2016				5.29
10/26/2016	1.97	1.14		
1/23/2017			5.94	
1/26/2017		1.5		5.29
1/27/2017	2.6			
4/11/2017			5.88	5.21
4/12/2017	2.4	1.3		
6/21/2017	2.2	1.3	5.73	5.21
10/25/2017	2.5		6.13	
10/26/2017		1.5		5.2
4/10/2018			5.95	5.34
4/11/2018	2.7	1		
10/16/2018			5.94	5.47
10/17/2018	2.2	1.3		
3/27/2019	2.3		6	
3/28/2019		1.3		5.31
8/20/2019			5.89	5.35
10/8/2019			5.93	
10/9/2019	2.1	1.2		5.22

Sen's Slope Estimator

Constituent: pH Analysis Run 2/12/2020 10:54 AM View: Time Series

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-17
9/1/2016	5.52
10/25/2016	5.45
1/26/2017	5.43
4/11/2017	5.33
6/21/2017	5.3
10/26/2017	5.29
4/10/2018	5.46
10/17/2018	5.32
3/28/2019	5.36
8/21/2019	5.07
10/9/2019	5.27

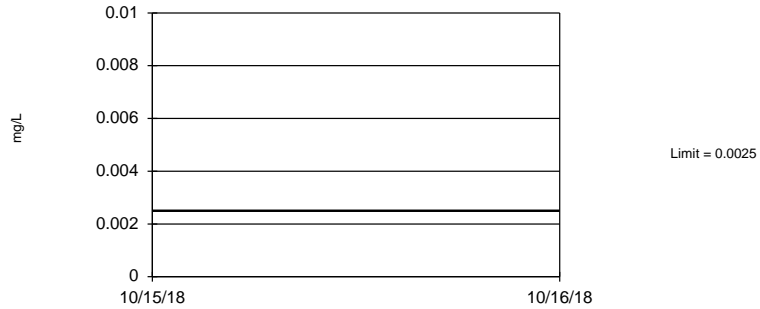
Appendix I, II, and IV Confidence Intervals (October 2019)

Upper Tolerance Limit

Plant Arkwright Client: Southern Company Data: Arkwright No 3 Printed 3/11/2020, 9:55 AM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig.</u>	<u>Bg N</u>	<u>%NDs</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Antimony (mg/L)	n/a	0.0025	n/a	n/a	n/a	40	97.5	n/a	0.1285	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.005	n/a	n/a	n/a	156	83.33	n/a	0.000...	NP Inter(NDs)
Barium (mg/L)	n/a	0.24	n/a	n/a	n/a	152	0	n/a	0.000...	NP Inter(normal...
Beryllium (mg/L)	n/a	0.0025	n/a	n/a	n/a	40	100	n/a	0.1285	NP Inter(NDs)
Cadmium (mg/L)	n/a	0.0043	n/a	n/a	n/a	153	94.12	n/a	0.000...	NP Inter(NDs)
Chromium (mg/L)	n/a	0.01	n/a	n/a	n/a	40	52.5	n/a	0.1285	NP Inter(normal...
Cobalt (mg/L)	n/a	0.0025	n/a	n/a	n/a	40	100	n/a	0.1285	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	n/a	1.138	n/a	n/a	n/a	40	0	No	0.05	Inter
Fluoride (mg/L)	n/a	0.53	n/a	n/a	n/a	40	65	n/a	0.1285	NP Inter(normal...
Lead (mg/L)	n/a	0.013	n/a	n/a	n/a	155	90.32	n/a	0.000...	NP Inter(NDs)
Lithium (mg/L)	n/a	0.007	n/a	n/a	n/a	39	43.59	n/a	0.1353	NP Inter(normal...
Mercury (mg/L)	n/a	0.0002	n/a	n/a	n/a	40	95	n/a	0.1285	NP Inter(NDs)
Molybdenum (mg/L)	n/a	0.015	n/a	n/a	n/a	40	92.5	n/a	0.1285	NP Inter(NDs)
Selenium (mg/L)	n/a	0.0257	n/a	n/a	n/a	145	82.76	n/a	0.000...	NP Inter(NDs)
Silver (mg/L)	n/a	0.0051	n/a	n/a	n/a	135	94.81	n/a	0.000...	NP Inter(NDs)
Thallium (mg/L)	n/a	0.0005	n/a	n/a	n/a	40	100	n/a	0.1285	NP Inter(NDs)

Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. Limit is highest of 40 background values. 97.5% NDs. 89.26% coverage at alpha=0.01; 92.77% coverage at alpha=0.05; 98.24% coverage at alpha=0.5. Report alpha = 0.1285.

Constituent: Antimony Analysis Run 3/11/2020 9:51 AM View: Upper Tolerance Limit
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. Limit is highest of 156 background values. 83.33% NDs. 97.07% coverage at alpha=0.01; 98.24% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0003349.

Constituent: Arsenic Analysis Run 3/11/2020 9:51 AM View: Upper Tolerance Limit
Plant Arkwright Client: Southern Company Data: Arkwright No 3

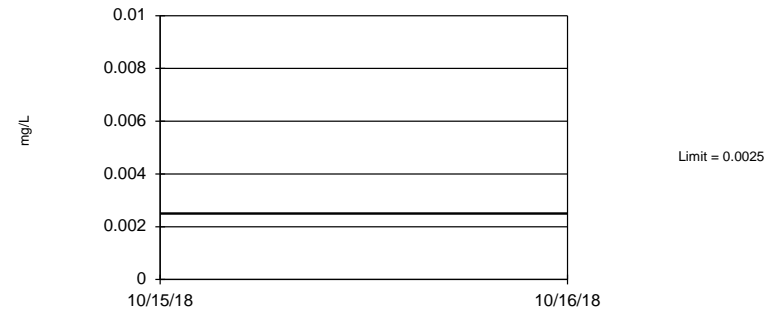
Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 152 background values. 97.07% coverage at alpha=0.01; 98.24% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0004111.

Constituent: Barium Analysis Run 3/11/2020 9:52 AM View: Upper Tolerance Limit
Plant Arkwright Client: Southern Company Data: Arkwright No 3

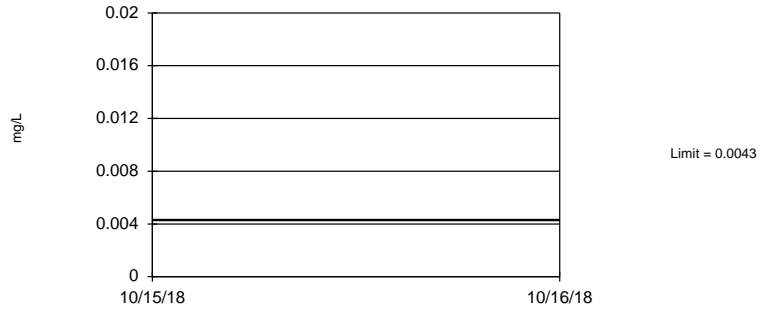
Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. All background values were censored; limit is most recent reporting limit. 89.26% coverage at alpha=0.01; 92.77% coverage at alpha=0.05; 98.24% coverage at alpha=0.5. Report alpha = 0.1285.

Constituent: Beryllium Analysis Run 3/11/2020 9:52 AM View: Upper Tolerance Limit
Plant Arkwright Client: Southern Company Data: Arkwright No 3

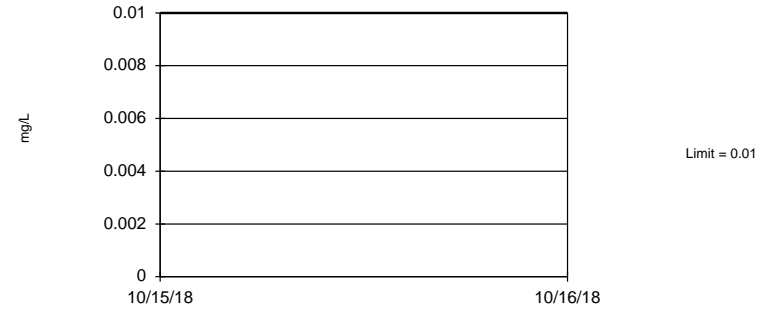
Tolerance Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. Limit is highest of 153 background values. 94.12% NDs. 97.07% coverage at alpha=0.01; 98.24% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0003906.

Constituent: Cadmium Analysis Run 3/11/2020 9:52 AM View: Upper Tolerance Limit
Plant Arkwright Client: Southern Company Data: Arkwright No 3

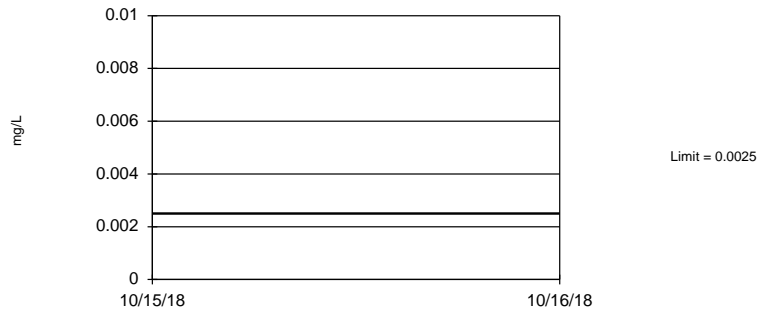
Tolerance Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 40 background values. 52.5% NDs. 89.26% coverage at alpha=0.01; 92.77% coverage at alpha=0.05; 98.24% coverage at alpha=0.5. Report alpha = 0.1285.

Constituent: Chromium Analysis Run 3/11/2020 9:52 AM View: Upper Tolerance Limit
Plant Arkwright Client: Southern Company Data: Arkwright No 3

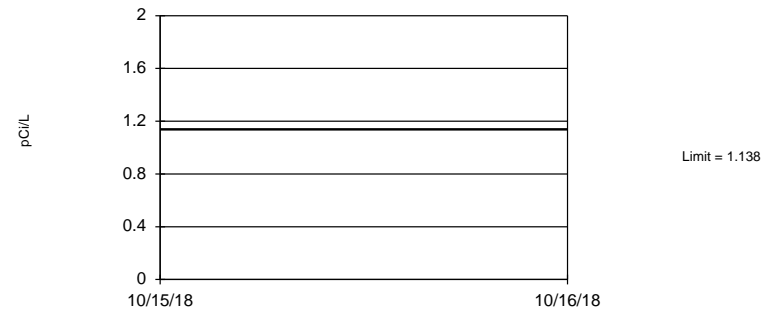
Tolerance Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. All background values were censored; limit is most recent reporting limit. 89.26% coverage at alpha=0.01; 92.77% coverage at alpha=0.05; 98.24% coverage at alpha=0.5. Report alpha = 0.1285.

Constituent: Cobalt Analysis Run 3/11/2020 9:52 AM View: Upper Tolerance Limit
Plant Arkwright Client: Southern Company Data: Arkwright No 3

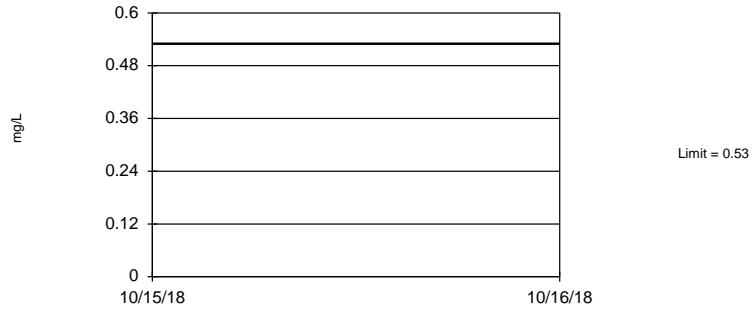
Tolerance Limit
Interwell Parametric



95% coverage. Background Data Summary: Mean=0.4958, Std. Dev.=0.3022, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9511, critical = 0.919. Report alpha = 0.05.

Constituent: Combined Radium 226 + 228 Analysis Run 3/11/2020 9:52 AM View: Upper Tolerance Limit
Plant Arkwright Client: Southern Company Data: Arkwright No 3

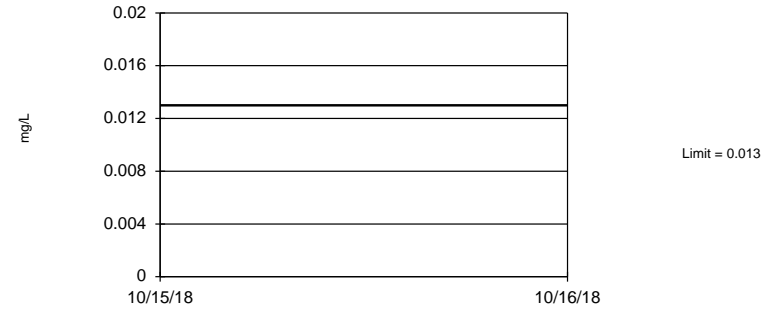
Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 40 background values. 65% NDs. 89.26% coverage at alpha=0.01; 92.77% coverage at alpha=0.05; 98.24% coverage at alpha=0.5. Report alpha = 0.1285.

Constituent: Fluoride Analysis Run 3/11/2020 9:52 AM View: Upper Tolerance Limit
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. Limit is highest of 155 background values. 90.32% NDs. 97.07% coverage at alpha=0.01; 98.24% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0003525.

Constituent: Lead Analysis Run 3/11/2020 9:52 AM View: Upper Tolerance Limit
Plant Arkwright Client: Southern Company Data: Arkwright No 3

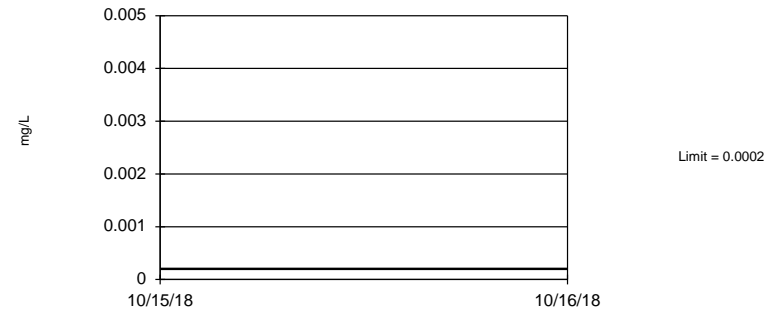
Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 39 background values. 43.59% NDs. 88.87% coverage at alpha=0.01; 92.77% coverage at alpha=0.05; 98.24% coverage at alpha=0.5. Report alpha = 0.1353.

Constituent: Lithium Analysis Run 3/11/2020 9:52 AM View: Upper Tolerance Limit
Plant Arkwright Client: Southern Company Data: Arkwright No 3

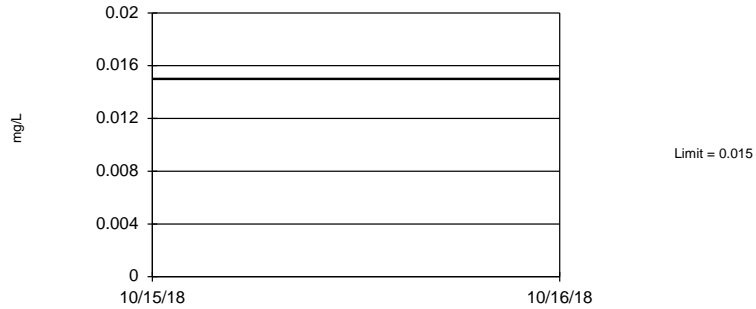
Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. Limit is highest of 40 background values. 95% NDs. 89.26% coverage at alpha=0.01; 92.77% coverage at alpha=0.05; 98.24% coverage at alpha=0.5. Report alpha = 0.1285.

Constituent: Mercury Analysis Run 3/11/2020 9:52 AM View: Upper Tolerance Limit
Plant Arkwright Client: Southern Company Data: Arkwright No 3

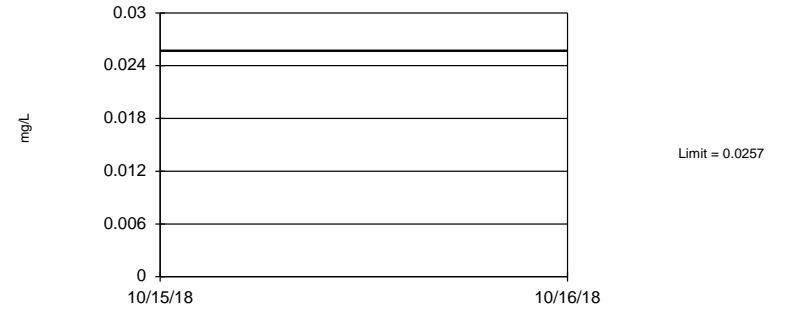
Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. Limit is highest of 40 background values. 92.5% NDs. 89.26% coverage at alpha=0.01; 92.77% coverage at alpha=0.05; 98.24% coverage at alpha=0.5. Report alpha = 0.1285.

Constituent: Molybdenum Analysis Run 3/11/2020 9:52 AM View: Upper Tolerance Limit
Plant Arkwright Client: Southern Company Data: Arkwright No 3

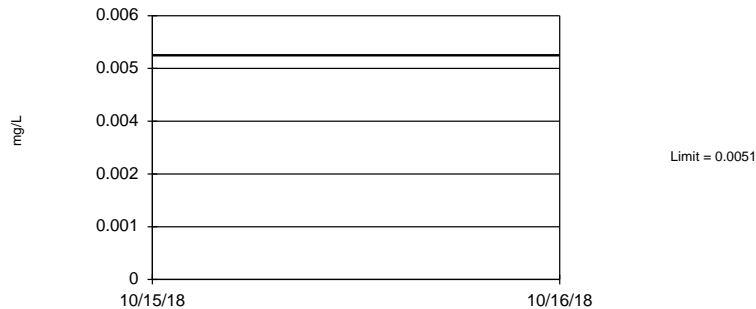
Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. Limit is highest of 145 background values. 82.76% NDs. 96.68% coverage at alpha=0.01; 97.85% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0005887.

Constituent: Selenium Analysis Run 3/11/2020 9:52 AM View: Upper Tolerance Limit
Plant Arkwright Client: Southern Company Data: Arkwright No 3

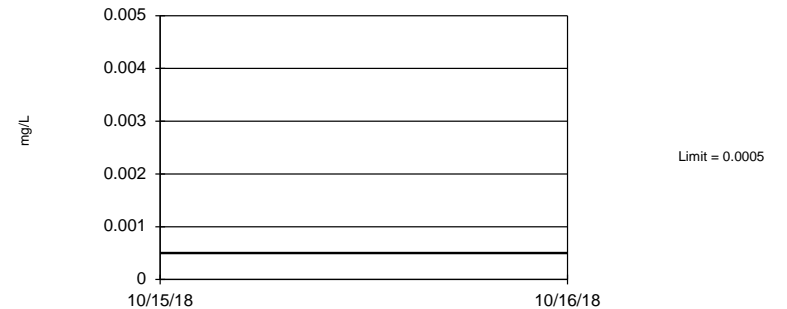
Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. Limit is highest of 135 background values. 94.81% NDs. 96.68% coverage at alpha=0.01; 97.85% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0009833.

Constituent: Silver Analysis Run 3/11/2020 9:52 AM View: Upper Tolerance Limit
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. All background values were censored; limit is most recent reporting limit. 89.26% coverage at alpha=0.01; 92.77% coverage at alpha=0.05; 98.24% coverage at alpha=0.5. Report alpha = 0.1285.

Constituent: Thallium Analysis Run 3/11/2020 9:52 AM View: Upper Tolerance Limit
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Tolerance Limit

Constituent: Antimony (mg/L) Analysis Run 3/11/2020 9:55 AM View: Upper Tolerance Limit
Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-12 (bg)	ARGWA-5 (bg)	ARGWA-3 (bg)	ARGWA-13 (bg)	ARGWA-14 (bg)
8/30/2016	<0.0025	<0.0025			
8/31/2016			<0.0025	<0.0025	0.0017 (J)
10/24/2016	<0.0025				
10/25/2016		<0.0025	<0.0025	<0.0025	<0.0025
1/23/2017	<0.0025				<0.0025
1/24/2017		<0.0025	<0.0025	<0.0025	
4/11/2017	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
6/20/2017		<0.0025	<0.0025		<0.0025
6/21/2017	<0.0025			<0.0025	
10/25/2017	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
4/9/2018				<0.0025	<0.0025
4/10/2018	<0.0025	<0.0025	<0.0025		
10/16/2018	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025

Tolerance Limit

Constituent: Arsenic (mg/L) Analysis Run 3/11/2020 9:55 AM View: Upper Tolerance Limit

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-3 (bg)	ARGWA-5 (bg)	ARGWA-12 (bg)	ARGWA-13 (bg)	ARGWA-14 (bg)
12/16/1997	0.002	<0.0013			
6/30/1998	0.0006	<0.0013			
12/2/1998	0.0007	<0.0013			
6/8/1999	<0.0013	<0.0013			
12/7/1999	<0.0013	<0.0013			
6/15/2000	<0.0013	<0.0013			
12/12/2000	0.000475	0.00032			
12/5/2001	<0.0013	0.0003			
6/26/2002	0.000431	0.000939			
12/3/2002	<0.0013	<0.0013			
6/11/2003	<0.0013	<0.0013			
12/10/2003	<0.0013	<0.0013			
6/15/2004	<0.0013	<0.0013			
12/14/2004	<0.0013	<0.0013			
6/2/2005	<0.0013	<0.0013			
12/14/2005	<0.0013	<0.0013			
4/5/2006	<0.0013	<0.0013			
10/30/2006	<0.0013	<0.0013			
5/10/2007	0.0044	<0.0013			
11/17/2007	<0.0013	<0.0013			
5/3/2008	<0.0013	<0.0013			
10/22/2008	<0.0013	<0.0013			
5/6/2009		<0.0013	<0.0013		
5/7/2009	0.0028			0.0013	
12/1/2009		<0.0013			
12/3/2009			<0.0013	<0.0013	
12/4/2009	<0.0013				
5/25/2010		<0.0013	<0.0013	<0.0013	
6/1/2010	<0.0013				
6/2/2010					<0.0013
11/9/2010		<0.0013	<0.0013		
11/10/2010	<0.0013			<0.0013	<0.0013
5/19/2011					<0.0013
5/24/2011		<0.0013	<0.0013		
5/25/2011	<0.0013			<0.0013	
11/9/2011					<0.0013
11/10/2011		<0.0013	<0.0013	<0.0013	
11/12/2011	<0.0013				
5/18/2012		<0.0013	<0.0013		
5/30/2012				<0.0013	0.0026 (J)
5/31/2012	<0.0013				
11/9/2012		<0.0013	<0.0013	<0.0013	
11/11/2012	<0.0013				<0.0013
5/8/2013		<0.0013	<0.0013		
5/9/2013				<0.0013	<0.0013
5/13/2013	<0.0013				
11/6/2013		<0.0013	<0.0013		
11/11/2013				<0.0013	<0.0013
11/12/2013	<0.0013				
5/20/2014		<0.0013	<0.0013		
5/21/2014				<0.0013	
5/29/2014	<0.0013				0.005 (J)

Tolerance Limit

Constituent: Arsenic (mg/L) Analysis Run 3/11/2020 9:55 AM View: Upper Tolerance Limit
Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-3 (bg)	ARGWA-5 (bg)	ARGWA-12 (bg)	ARGWA-13 (bg)	ARGWA-14 (bg)
11/17/2014		<0.0013			
11/18/2014			<0.0013	<0.0013	
11/19/2014					<0.0013
4/7/2015		<0.0013		<0.0013	
4/14/2015	<0.0013		<0.0013		<0.0013
10/28/2015		<0.0013		<0.0013	
10/29/2015			<0.0013		
11/3/2015	<0.0013				
11/4/2015					<0.0013
6/23/2016	<0.0013	<0.0013	<0.0013	<0.0013	0.0026
8/30/2016		<0.0013	<0.0013		
8/31/2016	<0.0013			<0.0013	0.0032
10/24/2016			<0.0013		
10/25/2016	<0.0013	<0.0013		<0.0013	<0.0013
1/23/2017			<0.0013		0.00088 (J)
1/24/2017	<0.0013	<0.0013		<0.0013	
4/11/2017	0.00067 (J)	0.00077 (J)	0.00076 (J)	0.00063 (J)	0.00095 (J)
6/20/2017	0.00064 (J)	0.00052 (J)			0.00099 (J)
6/21/2017			<0.0013	<0.0013	
10/25/2017	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013
4/9/2018				<0.0013	<0.0013
4/10/2018	<0.0013	<0.0013	<0.0013		
10/16/2018	<0.0013	<0.0013	<0.0013	0.00055 (J)	0.00083 (J)

Tolerance Limit

Constituent: Barium (mg/L) Analysis Run 3/11/2020 9:55 AM View: Upper Tolerance Limit
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-5 (bg)	ARGWA-3 (bg)	ARGWA-12 (bg)	ARGWA-13 (bg)	ARGWA-14 (bg)
12/16/1997	0.032				
6/30/1998	0.028	0.177			
12/2/1998	0.032	0.115			
6/8/1999	0.0287	0.074			
12/7/1999	0.034	0.043			
6/15/2000	0.034	0.113			
12/12/2000	0.027	0.059			
12/5/2001	0.027	0.052			
6/26/2002	0.032	0.087			
12/3/2002	0.023	0.043			
6/11/2003	0.04	0.24			
12/10/2003	0.024	0.03			
6/15/2004	0.021	0.028			
12/14/2004	0.025	0.017			
6/2/2005	0.025	0.019			
12/14/2005	0.026	0.02			
4/5/2006	0.027	0.019			
10/30/2006	0.027				
5/10/2007	0.024	0.017			
11/17/2007	0.026	0.015			
5/3/2008	0.022	0.017			
10/22/2008	0.027	0.11			
5/6/2009	0.023		0.065		
5/7/2009		0.13		0.068	
12/1/2009	0.033				
12/3/2009			0.062	0.044	
12/4/2009		0.019			
5/25/2010	0.03			0.049	
6/1/2010		0.027			
6/2/2010					0.046
11/9/2010	0.033		0.059		
11/10/2010		0.025		0.052	0.057
5/19/2011					0.048
5/24/2011	0.027		0.054		
5/25/2011		0.015		0.045	
11/9/2011					0.045
11/10/2011	0.032		0.063	0.11	
11/12/2011		0.021			
5/18/2012	0.0311		0.0646		
5/30/2012				0.0831	0.0519
5/31/2012		0.0222			
11/9/2012	0.034		0.081	0.13	
11/11/2012		0.022			0.051
5/8/2013	0.026		0.066		
5/9/2013				0.059	0.056
5/13/2013		0.019			
11/6/2013	0.028		0.074		
11/11/2013				0.12	0.041
11/12/2013		0.025			
5/20/2014	0.027		0.057		
5/21/2014				0.073	
5/29/2014		0.024			0.051

Tolerance Limit

Constituent: Barium (mg/L) Analysis Run 3/11/2020 9:55 AM View: Upper Tolerance Limit
Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-5 (bg)	ARGWA-3 (bg)	ARGWA-12 (bg)	ARGWA-13 (bg)	ARGWA-14 (bg)
11/17/2014	0.029				
11/18/2014			0.069	0.072	
11/19/2014					0.051
4/7/2015	0.024			0.06	
4/14/2015		0.022	0.067		0.043
10/28/2015	0.028			0.057	
10/29/2015			0.069		
11/3/2015		0.022			
11/4/2015					0.042
6/23/2016	0.025	0.019	0.063	0.036	
8/30/2016	0.026		0.062		
8/31/2016		0.018		0.041	0.076
10/24/2016			0.0674		
10/25/2016	0.0293	0.016		0.0429	0.039
1/23/2017			0.069		0.044
1/24/2017	0.028	0.017		0.025	
4/11/2017	0.024	0.016	0.064	0.024	0.038
6/20/2017	0.027	0.02			0.057
6/21/2017			0.074	0.034	
10/25/2017	0.03	0.019	0.07	0.03	0.05
4/9/2018				0.023	0.049
4/10/2018	0.028	0.019	0.073		
10/16/2018	0.027	0.018	0.069	0.028	0.06

Tolerance Limit

Constituent: Beryllium (mg/L) Analysis Run 3/11/2020 9:55 AM View: Upper Tolerance Limit
Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-12 (bg)	ARGWA-5 (bg)	ARGWA-3 (bg)	ARGWA-13 (bg)	ARGWA-14 (bg)
8/30/2016	<0.0025	<0.0025			
8/31/2016			<0.0025	<0.0025	<0.0025
10/24/2016	<0.0025				
10/25/2016		<0.0025	<0.0025	<0.0025	<0.0025
1/23/2017	<0.0025				<0.0025
1/24/2017		<0.0025	<0.0025	<0.0025	
4/11/2017	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
6/20/2017		<0.0025	<0.0025		<0.0025
6/21/2017	<0.0025			<0.0025	
10/25/2017	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
4/9/2018				<0.0025	<0.0025
4/10/2018	<0.0025	<0.0025	<0.0025		
10/16/2018	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025

Tolerance Limit

Constituent: Cadmium (mg/L) Analysis Run 3/11/2020 9:55 AM View: Upper Tolerance Limit
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-5 (bg)	ARGWA-3 (bg)	ARGWA-12 (bg)	ARGWA-13 (bg)	ARGWA-14 (bg)
12/16/1997	<0.0025				
6/30/1998	<0.0025				
12/2/1998	<0.0025				
6/8/1999	<0.0025	<0.0025			
12/7/1999	<0.0025	<0.0025			
6/15/2000	<0.0025	<0.0025			
12/12/2000	<0.0025	<0.0025			
12/5/2001	<0.0025	0.002			
6/26/2002	<0.0025	0.003			
12/3/2002	<0.0025	<0.0025			
6/11/2003	<0.0025	0.0043			
12/10/2003	<0.0025	<0.0025			
6/15/2004	<0.0025	<0.0025			
12/14/2004	0.0012	<0.0025			
6/2/2005	<0.0025	<0.0025			
12/14/2005	<0.0025	<0.0025			
4/5/2006	<0.0025	<0.0025			
10/30/2006	<0.0025	<0.0025			
5/10/2007	<0.0025	<0.0025			
11/17/2007	<0.0025	<0.0025			
5/3/2008	<0.0025	0.00033			
10/22/2008	<0.0025	<0.0025			
5/6/2009	<0.0025		<0.0025		
5/7/2009		<0.0025		<0.0025	
12/1/2009	<0.0025				
12/3/2009			<0.0025	<0.0025	
12/4/2009		<0.0025			
5/25/2010	<0.0025		<0.0025	<0.0025	
6/1/2010		<0.0025			
6/2/2010					<0.0025
11/9/2010	<0.0025		<0.0025		
11/10/2010		<0.0025		<0.0025	<0.0025
5/19/2011					<0.0025
5/24/2011	<0.0025		<0.0025		
5/25/2011		<0.0025		<0.0025	
11/9/2011					<0.0025
11/10/2011	<0.0025		<0.0025	<0.0025	
11/12/2011		<0.0025			
5/18/2012	<0.0025		<0.0025		
5/30/2012				<0.0025	<0.0025
5/31/2012		<0.0025			
11/9/2012	<0.0025		<0.0025	<0.0025	
11/11/2012		<0.0025			<0.0025
5/8/2013	<0.0025		<0.0025		
5/9/2013				<0.0025	<0.0025
5/13/2013		<0.0025			
11/6/2013	<0.0025		<0.0025		
11/11/2013				<0.0025	<0.0025
11/12/2013		<0.0025			
5/20/2014	<0.0025		<0.0025		
5/21/2014				<0.0025	
5/29/2014		<0.0025			<0.0025

Tolerance Limit

Constituent: Cadmium (mg/L) Analysis Run 3/11/2020 9:55 AM View: Upper Tolerance Limit
Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-5 (bg)	ARGWA-3 (bg)	ARGWA-12 (bg)	ARGWA-13 (bg)	ARGWA-14 (bg)
11/17/2014	<0.0025				
11/18/2014			<0.0025	<0.0025	
11/19/2014					<0.0025
4/7/2015	<0.0025			<0.0025	
4/14/2015		<0.0025	0.00026		<0.0025
10/28/2015	<0.0025			<0.0025	
10/29/2015			<0.0025		
11/3/2015		<0.0025			
11/4/2015					<0.0025
6/23/2016	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
8/30/2016	<0.0025		<0.0025		
8/31/2016		<0.0025		<0.0025	0.00039 (J)
10/24/2016			<0.0025		
10/25/2016	<0.0025	<0.0025		<0.0025	<0.0025
1/23/2017			<0.0025		<0.0025
1/24/2017	<0.0025	<0.0025		<0.0025	
4/11/2017	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
6/20/2017	<0.0025	<0.0025			<0.0025
6/21/2017			<0.0025	<0.0025	
10/25/2017	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
4/9/2018				<0.0025	0.00052 (J)
4/10/2018	<0.0025	<0.0025	<0.0025		
10/16/2018	<0.0025	<0.0025	<0.0025	<0.0025	0.00071 (J)

Tolerance Limit

Constituent: Chromium (mg/L) Analysis Run 3/11/2020 9:55 AM View: Upper Tolerance Limit
Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-12 (bg)	ARGWA-5 (bg)	ARGWA-3 (bg)	ARGWA-13 (bg)	ARGWA-14 (bg)
8/30/2016	0.0012 (J)	0.0012 (J)			
8/31/2016			0.003	<0.0025	<0.0025
10/24/2016	0.0011 (J)				
10/25/2016		0.0014 (J)	0.0028 (J)	<0.0025	<0.0025
1/23/2017	<0.0025				0.01
1/24/2017		0.0012 (J)	0.0031	<0.0025	
4/11/2017	0.0011 (J)	<0.0025	0.0029	<0.0025	<0.0025
6/20/2017		<0.0025	0.0037		<0.0025
6/21/2017	<0.0025			<0.0025	
10/25/2017	<0.0025	<0.0025	0.0031	<0.0025	<0.0025
4/9/2018				<0.0025	0.0019 (J)
4/10/2018	0.0013 (J)	0.0012 (J)	0.0036		
10/16/2018	<0.0025	0.0012 (J)	0.0035	<0.0025	<0.0025

Tolerance Limit

Constituent: Cobalt (mg/L) Analysis Run 3/11/2020 9:55 AM View: Upper Tolerance Limit
Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-12 (bg)	ARGWA-5 (bg)	ARGWA-3 (bg)	ARGWA-13 (bg)	ARGWA-14 (bg)
8/30/2016	<0.0025	<0.0025			
8/31/2016			<0.0025	<0.0025	<0.0025
10/24/2016	<0.0025				
10/25/2016		<0.0025	<0.0025	<0.0025	<0.0025
1/23/2017	<0.0025				<0.0025
1/24/2017		<0.0025	<0.0025	<0.0025	
4/11/2017	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
6/20/2017		<0.0025	<0.0025		<0.0025
6/21/2017	<0.0025			<0.0025	
10/25/2017	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
4/9/2018				<0.0025	<0.0025
4/10/2018	<0.0025	<0.0025	<0.0025		
10/16/2018	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025

Tolerance Limit

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 3/11/2020 9:55 AM View: Upper Tolerance Limit

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-12 (bg)	ARGWA-5 (bg)	ARGWA-3 (bg)	ARGWA-13 (bg)	ARGWA-14 (bg)
8/30/2016	1.1	0.505 (U)			
8/31/2016			0.226 (U)	0.788	0.949 (U)
10/24/2016	0.808 (U)				
10/25/2016		0.177 (U)	0.273 (U)	0.503 (U)	1.13
1/23/2017	0.121 (U)				0.426
1/24/2017		0.107 (U)	0.11 (U)	0.369	
4/11/2017	0.378 (U)	-0.0587 (U)	0.358 (U)	0.71	0.604
6/20/2017		0.503	0.265 (U)		0.974
6/21/2017	0.511			0.124 (U)	
10/25/2017	0.587	0.512	0.5	0.981	0.409 (U)
4/9/2018				0.157 (U)	0.306 (U)
4/10/2018	0.513	0.262 (U)	0.323		
10/16/2018	0.53	0.989	0.798	0.305 (U)	0.701

Tolerance Limit

Constituent: Fluoride (mg/L) Analysis Run 3/11/2020 9:55 AM View: Upper Tolerance Limit
Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-12 (bg)	ARGWA-5 (bg)	ARGWA-3 (bg)	ARGWA-13 (bg)	ARGWA-14 (bg)
8/30/2016	<0.2	<0.2			
8/31/2016			<0.2	<0.2	0.12 (J)
10/24/2016	0.1 (J)				
10/25/2016		0.09 (J)	0.14 (J)	0.08 (J)	0.53
1/23/2017	<0.2				0.4
1/24/2017		<0.2	<0.2	<0.2	
4/11/2017	<0.2	<0.2	<0.2	<0.2	0.31
6/20/2017		<0.2	<0.2		0.27
6/21/2017	<0.2			<0.2	
10/25/2017	<0.2	<0.2	<0.2	<0.2	0.29
4/9/2018				<0.2	0.25
4/10/2018	<0.2	<0.2	<0.2		
10/16/2018	0.1 (J)	<0.2	0.1 (J)	<0.2	0.33

Tolerance Limit

Constituent: Lead (mg/L) Analysis Run 3/11/2020 9:55 AM View: Upper Tolerance Limit

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-5 (bg)	ARGWA-3 (bg)	ARGWA-12 (bg)	ARGWA-13 (bg)	ARGWA-14 (bg)
12/16/1997	<0.0013				
6/30/1998	<0.0013	0.013			
12/2/1998	0.002	0.01			
6/8/1999	<0.0013	0.004			
12/7/1999	<0.0013	0.004			
6/15/2000	<0.0013	0.004			
12/12/2000	<0.0013	0.00378			
12/5/2001	<0.0013	0.003			
6/26/2002	0.00539	0.00815			
12/3/2002	<0.0013	0.008			
6/11/2003	<0.0013	<0.0013			
12/10/2003	<0.0013	<0.0013			
6/15/2004	<0.0013	<0.0013			
12/14/2004	0.013	<0.0013			
6/2/2005	<0.0013	<0.0013			
12/14/2005	<0.0013	<0.0013			
4/5/2006	<0.0013	<0.0013			
10/30/2006	<0.0013	<0.0013			
5/10/2007	<0.0013	<0.0013			
11/17/2007	<0.0013	<0.0013			
5/3/2008	<0.0013	<0.0013			
10/22/2008	<0.0013	<0.0013			
5/6/2009	<0.0013		<0.0013		
5/7/2009		<0.0013		<0.0013	
12/1/2009	<0.0013				
12/3/2009			<0.0013	<0.0013	
12/4/2009		<0.0013			
5/25/2010	<0.0013		<0.0013	<0.0013	
6/1/2010		<0.0013			
6/2/2010					<0.0013
11/9/2010	<0.0013		<0.0013		
11/10/2010		<0.0013		<0.0013	<0.0013
5/19/2011					<0.0013
5/24/2011	<0.0013		<0.0013		
5/25/2011		<0.0013		<0.0013	
11/9/2011					<0.0013
11/10/2011	<0.0013		<0.0013	<0.0013	
11/12/2011		<0.0013			
5/18/2012	<0.0013		<0.0013		
5/30/2012				<0.0013	<0.0013
5/31/2012		0.0005 (J)			
11/9/2012	<0.0013		<0.0013	<0.0013	
11/11/2012		<0.0013			<0.0013
5/8/2013	<0.0013		<0.0013		
5/9/2013				<0.0013	<0.0013
5/13/2013		<0.0013			
11/6/2013	<0.0013		<0.0013		
11/11/2013				<0.0013	<0.0013
11/12/2013		<0.0013			
5/20/2014	<0.0013		<0.0013		
5/21/2014				<0.0013	
5/29/2014		<0.0013			<0.0013

Tolerance Limit

Constituent: Lead (mg/L) Analysis Run 3/11/2020 9:55 AM View: Upper Tolerance Limit
Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-5 (bg)	ARGWA-3 (bg)	ARGWA-12 (bg)	ARGWA-13 (bg)	ARGWA-14 (bg)
11/17/2014	<0.0013				
11/18/2014			<0.0013	<0.0013	
11/19/2014					<0.0013
4/7/2015	<0.0013			<0.0013	
4/14/2015		<0.0013	<0.0013		<0.0013
10/28/2015	<0.0013			<0.0013	
10/29/2015			<0.0013		
11/3/2015		<0.0013			
11/4/2015					<0.0013
6/23/2016	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013
8/30/2016	<0.0013		<0.0013		
8/31/2016		<0.0013		<0.0013	<0.0013
10/24/2016			0.0002 (J)		
10/25/2016	<0.0013	<0.0013		<0.0013	<0.0013
1/23/2017			<0.0013		0.0013
1/24/2017	<0.0013	<0.0013		<0.0013	
4/11/2017	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013
6/20/2017	<0.0013	<0.0013			<0.0013
6/21/2017			<0.0013	<0.0013	
10/25/2017	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013
4/9/2018				<0.0013	<0.0013
4/10/2018	<0.0013	<0.0013	<0.0013		
10/16/2018	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013

Tolerance Limit

Constituent: Lithium (mg/L) Analysis Run 3/11/2020 9:55 AM View: Upper Tolerance Limit
Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-12 (bg)	ARGWA-5 (bg)	ARGWA-14 (bg)	ARGWA-13 (bg)	ARGWA-3 (bg)
8/30/2016	0.0052	<0.005			
8/31/2016			0.0053	0.0053	<0.005
10/25/2016		<0.005	<0.005	0.0048 (J)	<0.005
1/23/2017	0.0039 (J)		0.0043 (J)		
1/24/2017		<0.005		0.0032 (J)	<0.005
4/11/2017	0.004 (J)	<0.005	<0.005	0.0036 (J)	<0.005
6/20/2017		<0.005	0.0042 (J)		<0.005
6/21/2017	0.0041 (J)			0.0052	
10/25/2017	0.0056	<0.005	0.0061	0.0059	<0.005
4/9/2018			0.0052	0.0056	
4/10/2018	0.007	<0.005			<0.005
10/16/2018	0.0045 (J)	<0.005	0.0052	0.0057	0.0017 (J)

Tolerance Limit

Constituent: Mercury (mg/L) Analysis Run 3/11/2020 9:55 AM View: Upper Tolerance Limit
Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-12 (bg)	ARGWA-5 (bg)	ARGWA-3 (bg)	ARGWA-13 (bg)	ARGWA-14 (bg)
8/30/2016	<0.0002	<0.0002			
8/31/2016			<0.0002	<0.0002	<0.0002
10/24/2016	<0.0002				
10/25/2016		<0.0002	<0.0002	<0.0002	<0.0002
1/23/2017	<0.0002				<0.0002
1/24/2017		<0.0002	<0.0002	<0.0002	
4/11/2017	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
6/20/2017		<0.0002	<0.0002		<0.0002
6/21/2017	<0.0002			<0.0002	
10/25/2017	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
4/9/2018				<0.0002	<0.0002
4/10/2018	7.2E-05 (J)	7E-05 (J)	<0.0002		
10/16/2018	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002

Tolerance Limit

Constituent: Molybdenum (mg/L) Analysis Run 3/11/2020 9:55 AM View: Upper Tolerance Limit
Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-12 (bg)	ARGWA-5 (bg)	ARGWA-3 (bg)	ARGWA-13 (bg)	ARGWA-14 (bg)
8/30/2016	<0.015	<0.015			
8/31/2016			<0.015	<0.015	0.004 (J)
10/24/2016	<0.015				
10/25/2016		<0.015	<0.015	<0.015	<0.015
1/23/2017	<0.015				<0.015
1/24/2017		<0.015	<0.015	<0.015	
4/11/2017	<0.015	<0.015	<0.015	<0.015	<0.015
6/20/2017		<0.015	<0.015		<0.015
6/21/2017	<0.015			<0.015	
10/25/2017	<0.015	<0.015	0.00093 (J)	0.0018 (J)	<0.015
4/9/2018				<0.015	<0.015
4/10/2018	<0.015	<0.015	<0.015		
10/16/2018	<0.015	<0.015	<0.015	<0.015	<0.015

Tolerance Limit

Constituent: Selenium (mg/L) Analysis Run 3/11/2020 9:55 AM View: Upper Tolerance Limit
Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-3 (bg)	ARGWA-5 (bg)	ARGWA-12 (bg)	ARGWA-14 (bg)	ARGWA-13 (bg)
12/16/1997	<0.0013	<0.0013			
6/30/1998	<0.0013	<0.0013			
12/2/1998	<0.0013	<0.0013			
6/8/1999	<0.0013	<0.0013			
12/7/1999	<0.0013	<0.0013			
6/15/2000	<0.0013	<0.0013			
12/12/2000	<0.0013	<0.0013			
12/5/2001	<0.0013	<0.0013			
6/26/2002	<0.0013	<0.0013			
12/3/2002	<0.0013	<0.0013			
6/11/2003	<0.0013	<0.0013			
12/10/2003	<0.0013	<0.0013			
6/15/2004	<0.0013	<0.0013			
12/14/2004	<0.0013	<0.0013			
6/2/2005	<0.0013	<0.0013			
12/14/2005	<0.0013	<0.0013			
4/5/2006	<0.0013	<0.0013			
10/30/2006	<0.0013	<0.0013			
5/10/2007	<0.0013	<0.0013			
11/17/2007	<0.0013	<0.0013			
5/3/2008	<0.0013	<0.0013			
10/22/2008	<0.0013	<0.0013			
5/6/2009		0.0047	0.0054		
5/7/2009	0.0049				
12/1/2009		0.0046			
12/3/2009			0.006		
12/4/2009	<0.0013				
5/25/2010		<0.0013	<0.0013		
6/1/2010	<0.0013				
6/2/2010				<0.0013	
11/9/2010		<0.0013	<0.0013		
11/10/2010	<0.0013			<0.0013	
5/19/2011				<0.0013	
5/24/2011		<0.0013	<0.0013		
5/25/2011	<0.0013				
11/9/2011				<0.0013	
11/10/2011		<0.0013	<0.0013		
11/12/2011	<0.0013				
5/18/2012		<0.0013	<0.0013		
5/30/2012				<0.0013	
5/31/2012	<0.0013				
11/9/2012		<0.0013	<0.0013		
11/11/2012	<0.0013			<0.0013	
5/8/2013		<0.0013	<0.0013		
5/9/2013				<0.0013	
5/13/2013	<0.0013				
11/6/2013		<0.0013	<0.0013		
11/11/2013				<0.0013	
11/12/2013	<0.0013				
5/20/2014		<0.0013	<0.0013		
5/29/2014	<0.0013			<0.0013	
11/17/2014		<0.0013			

Tolerance Limit

Constituent: Selenium (mg/L) Analysis Run 3/11/2020 9:55 AM View: Upper Tolerance Limit
Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-3 (bg)	ARGWA-5 (bg)	ARGWA-12 (bg)	ARGWA-14 (bg)	ARGWA-13 (bg)
11/18/2014			<0.0013		0.0083
11/19/2014				<0.0013	
4/7/2015		<0.0013			<0.0013
4/14/2015	<0.0013		<0.0013	<0.0013	
10/28/2015		<0.0013			0.023
10/29/2015			<0.0013		
11/3/2015	<0.0013				
11/4/2015				<0.0013	
6/23/2016	<0.0013	<0.0013	<0.0013	<0.0013	0.0096
8/30/2016		<0.0013	<0.0013		
8/31/2016	<0.0013			0.00077 (J)	0.017
10/24/2016			<0.0013		
10/25/2016	<0.0013	<0.0013		<0.0013	0.0257
1/23/2017			<0.0013	0.00037 (J)	
1/24/2017	<0.0013	<0.0013			0.0097
4/11/2017	<0.0013	<0.0013	<0.0013	<0.0013	0.0079
6/20/2017	<0.0013	<0.0013		0.00044 (J)	
6/21/2017			0.00025 (J)		0.019
10/25/2017	0.00032 (J)	0.00027 (J)	0.00027 (J)	0.00038 (J)	0.022
4/9/2018				<0.0013	0.0063
4/10/2018	<0.0013	<0.0013	0.00033 (J)		
10/16/2018	<0.0013	<0.0013	<0.0013	<0.0013	0.021

Tolerance Limit

Constituent: Silver (mg/L) Analysis Run 3/11/2020 9:55 AM View: Upper Tolerance Limit

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-5 (bg)	ARGWA-3 (bg)	ARGWA-12 (bg)	ARGWA-13 (bg)	ARGWA-14 (bg)
12/16/1997	<0.0013				
6/30/1998	<0.0013	<0.0013			
12/2/1998	<0.0013	<0.0013			
6/8/1999	<0.0013	<0.0013			
12/7/1999	<0.0013	<0.0013			
6/15/2000	<0.0013	<0.0013			
12/12/2000	<0.0013	0.0051			
12/5/2001	<0.0013	<0.0013			
6/26/2002	<0.0013	<0.0013			
12/3/2002	<0.0013	<0.0013			
6/11/2003	<0.0013	<0.0013			
12/10/2003	0.002	0.003			
6/15/2004	<0.0013	<0.0013			
12/14/2004	<0.0013	<0.0013			
6/2/2005	<0.0013	<0.0013			
12/14/2005	<0.0013	<0.0013			
4/5/2006	<0.0013	<0.0013			
10/30/2006	<0.0013	0.002			
5/10/2007	<0.0013	0.0017			
11/17/2007	<0.0013	<0.0013			
5/3/2008	<0.0013	<0.0013			
10/22/2008	<0.0013	<0.0013			
5/6/2009	<0.0013		<0.0013		
5/7/2009		<0.0013		<0.0013	
12/1/2009	<0.0013				
12/3/2009			<0.0013	<0.0013	
12/4/2009		<0.0013			
5/25/2010	<0.0013		<0.0013	<0.0013	
6/1/2010		<0.0013			
6/2/2010					<0.0013
11/9/2010	<0.0013		<0.0013		
11/10/2010		<0.0013		<0.0013	<0.0013
5/19/2011					<0.0013
5/24/2011	<0.0013		<0.0013		
5/25/2011		<0.0013		<0.0013	
5/18/2012	<0.0013		0.0001 (J)		
5/30/2012				<0.0013	<0.0013
5/31/2012		<0.0013			
11/9/2012	<0.0013		<0.0013	<0.0013	
11/11/2012		<0.0013			<0.0013
5/8/2013	<0.0013		<0.0013		
5/9/2013				<0.0013	<0.0013
5/13/2013		<0.0013			
11/6/2013	<0.0013		<0.0013		
11/11/2013				<0.0013	<0.0013
11/12/2013		<0.0013			
5/20/2014	<0.0013		<0.0013		
5/21/2014				<0.0013	
5/29/2014		<0.0013			<0.0013
11/17/2014	<0.0013				
11/18/2014			<0.0013	<0.0013	
11/19/2014					<0.0013

Tolerance Limit

Constituent: Silver (mg/L) Analysis Run 3/11/2020 9:55 AM View: Upper Tolerance Limit
Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-5 (bg)	ARGWA-3 (bg)	ARGWA-12 (bg)	ARGWA-13 (bg)	ARGWA-14 (bg)
4/7/2015	<0.0013			<0.0013	
4/14/2015		<0.0013	<0.0013		<0.0013
10/28/2015	<0.0013			<0.0013	
10/29/2015			<0.0013		
11/3/2015		<0.0013			
11/4/2015					<0.0013
6/23/2016	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013
10/24/2016			<0.0013		
10/25/2016	<0.0013	<0.0013		<0.0013	<0.0013
4/11/2017	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013
10/25/2017	<0.0013	<0.0013	<0.0013	0.00013 (J)	<0.0013
4/9/2018				<0.0013	<0.0013
4/10/2018	<0.0013	<0.0013	<0.0013		
10/16/2018	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013

Tolerance Limit

Constituent: Thallium (mg/L) Analysis Run 3/11/2020 9:55 AM View: Upper Tolerance Limit
Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-12 (bg)	ARGWA-5 (bg)	ARGWA-3 (bg)	ARGWA-13 (bg)	ARGWA-14 (bg)
8/30/2016	<0.0005	<0.0005			
8/31/2016			<0.0005	<0.0005	<0.0005
10/24/2016	<0.0005				
10/25/2016		<0.0005	<0.0005	<0.0005	<0.0005
1/23/2017	<0.0005				<0.0005
1/24/2017		<0.0005	<0.0005	<0.0005	
4/11/2017	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
6/20/2017		<0.0005	<0.0005		<0.0005
6/21/2017	<0.0005			<0.0005	
10/25/2017	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
4/9/2018				<0.0005	<0.0005
4/10/2018	<0.0005	<0.0005	<0.0005		
10/16/2018	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005

Confidence Interval Significant Results

Plant Arkwright Client: Southern Company Data: Arkwright No 3 Printed 3/26/2020, 3:06 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Compliance</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Cobalt (mg/L)	ARGWC-17	0.02791	0.01557	0.0025	Yes	10	0	No	0.01	Param.
Molybdenum (mg/L)	ARGWC-8	0.04482	0.03488	0.015	Yes	10	0	sqrt(x)	0.01	Param.

Confidence Interval All Results

Plant Arkwright Client: Southern Company Data: Arkwright No 3 Printed 3/26/2020, 3:06 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Antimony (mg/L)	ARGWC-10	0.002	0.002	0.006	No	10	100	No	0.011	NP (NDs)
Antimony (mg/L)	ARGWC-15	0.002	0.002	0.006	No	10	100	No	0.011	NP (NDs)
Antimony (mg/L)	ARGWC-16	0.002	0.002	0.006	No	10	100	No	0.011	NP (NDs)
Antimony (mg/L)	ARGWC-17	0.002	0.002	0.006	No	10	100	No	0.011	NP (NDs)
Antimony (mg/L)	ARGWC-18	0.002	0.002	0.006	No	10	100	No	0.011	NP (NDs)
Antimony (mg/L)	ARGWC-7	0.002	0.002	0.006	No	10	90	No	0.011	NP (NDs)
Antimony (mg/L)	ARGWC-8	0.002	0.002	0.006	No	10	100	No	0.011	NP (NDs)
Antimony (mg/L)	ARGWC-9	0.002	0.002	0.006	No	10	90	No	0.011	NP (NDs)
Arsenic (mg/L)	ARGWC-10	0.0011	0.001	0.01	No	11	72.73	No	0.006	NP (normality)
Arsenic (mg/L)	ARGWC-15	0.001	0.00062	0.01	No	11	81.82	No	0.006	NP (NDs)
Arsenic (mg/L)	ARGWC-16	0.001	0.00067	0.01	No	11	72.73	No	0.006	NP (normality)
Arsenic (mg/L)	ARGWC-17	0.001	0.00084	0.01	No	11	63.64	No	0.006	NP (normality)
Arsenic (mg/L)	ARGWC-18	0.001	0.00066	0.01	No	11	72.73	No	0.006	NP (normality)
Arsenic (mg/L)	ARGWC-7	0.001	0.001	0.01	No	11	81.82	No	0.006	NP (NDs)
Arsenic (mg/L)	ARGWC-8	0.001	0.00063	0.01	No	11	63.64	No	0.006	NP (normality)
Arsenic (mg/L)	ARGWC-9	0.001	0.001	0.01	No	11	81.82	No	0.006	NP (NDs)
Barium (mg/L)	ARGWC-10	0.0341	0.02983	2	No	11	0	No	0.01	Param.
Barium (mg/L)	ARGWC-15	0.0408	0.028	2	No	11	0	No	0.006	NP (normality)
Barium (mg/L)	ARGWC-16	0.05798	0.04688	2	No	11	0	No	0.01	Param.
Barium (mg/L)	ARGWC-17	0.04837	0.0421	2	No	11	0	No	0.01	Param.
Barium (mg/L)	ARGWC-18	0.03895	0.03376	2	No	11	0	No	0.01	Param.
Barium (mg/L)	ARGWC-7	0.04072	0.03341	2	No	11	0	No	0.01	Param.
Barium (mg/L)	ARGWC-8	0.04899	0.04198	2	No	11	0	No	0.01	Param.
Barium (mg/L)	ARGWC-9	0.05026	0.04347	2	No	11	0	No	0.01	Param.
Beryllium (mg/L)	ARGWC-10	0.001	0.001	0.004	No	10	100	No	0.011	NP (NDs)
Beryllium (mg/L)	ARGWC-15	0.001	0.001	0.004	No	10	100	No	0.011	NP (NDs)
Beryllium (mg/L)	ARGWC-16	0.001	0.001	0.004	No	10	90	No	0.011	NP (NDs)
Beryllium (mg/L)	ARGWC-17	0.001	0.00025	0.004	No	10	60	No	0.011	NP (normality)
Beryllium (mg/L)	ARGWC-18	0.001	0.001	0.004	No	10	90	No	0.011	NP (NDs)
Beryllium (mg/L)	ARGWC-7	0.001	0.00041	0.004	No	10	80	No	0.011	NP (NDs)
Beryllium (mg/L)	ARGWC-8	0.001	0.001	0.004	No	10	90	No	0.011	NP (NDs)
Beryllium (mg/L)	ARGWC-9	0.001	0.001	0.004	No	10	90	No	0.011	NP (NDs)
Cadmium (mg/L)	ARGWC-10	0.001	0.001	0.005	No	11	100	No	0.006	NP (NDs)
Cadmium (mg/L)	ARGWC-15	0.001	0.001	0.005	No	11	100	No	0.006	NP (NDs)
Cadmium (mg/L)	ARGWC-16	0.001	0.001	0.005	No	11	90.91	No	0.006	NP (NDs)
Cadmium (mg/L)	ARGWC-17	0.001	0.00013	0.005	No	11	72.73	No	0.006	NP (normality)
Cadmium (mg/L)	ARGWC-18	0.001	0.001	0.005	No	11	100	No	0.006	NP (NDs)
Cadmium (mg/L)	ARGWC-7	0.001	0.001	0.005	No	11	100	No	0.006	NP (NDs)
Cadmium (mg/L)	ARGWC-8	0.001	0.001	0.005	No	11	100	No	0.006	NP (NDs)
Cadmium (mg/L)	ARGWC-9	0.001	0.001	0.005	No	11	100	No	0.006	NP (NDs)
Chromium (mg/L)	ARGWC-10	0.005922	0.004138	0.1	No	10	0	No	0.01	Param.
Chromium (mg/L)	ARGWC-15	0.002	0.002	0.1	No	10	80	No	0.011	NP (NDs)
Chromium (mg/L)	ARGWC-16	0.002321	0.001479	0.1	No	10	0	No	0.01	Param.
Chromium (mg/L)	ARGWC-17	0.002	0.0016	0.1	No	10	70	No	0.011	NP (normality)
Chromium (mg/L)	ARGWC-18	0.002	0.002	0.1	No	10	100	No	0.011	NP (NDs)
Chromium (mg/L)	ARGWC-7	0.004059	0.003081	0.1	No	10	0	No	0.01	Param.
Chromium (mg/L)	ARGWC-8	0.002	0.0017	0.1	No	10	80	No	0.011	NP (NDs)
Chromium (mg/L)	ARGWC-9	0.01085	0.009267	0.1	No	10	0	No	0.01	Param.
Cobalt (mg/L)	ARGWC-10	0.0005	0.00019	0.0025	No	10	80	No	0.011	NP (NDs)
Cobalt (mg/L)	ARGWC-15	0.011	0.00045	0.0025	No	10	40	No	0.011	NP (normality)

Confidence Interval All Results

Plant Arkwright Client: Southern Company Data: Arkwright No 3 Printed 3/26/2020, 3:06 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Cobalt (mg/L)	ARGWC-16	0.0005	0.00026	0.0025	No	10	80	No	0.011	NP (NDs)
Cobalt (mg/L)	ARGWC-17	0.02791	0.01557	0.0025	Yes	10	0	No	0.01	Param.
Cobalt (mg/L)	ARGWC-18	0.001705	0.001133	0.0025	No	10	0	No	0.01	Param.
Cobalt (mg/L)	ARGWC-7	0.0005	0.00034	0.0025	No	10	80	No	0.011	NP (NDs)
Cobalt (mg/L)	ARGWC-8	0.0005	0.00041	0.0025	No	10	80	No	0.011	NP (NDs)
Cobalt (mg/L)	ARGWC-9	0.0005	0.0005	0.0025	No	10	90	No	0.011	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	ARGWC-10	0.4002	-0.04279	5	No	10	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	ARGWC-15	1.155	0.2742	5	No	10	0	In(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	ARGWC-16	0.8755	0.0628	5	No	10	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	ARGWC-17	0.8576	0.02906	5	No	10	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	ARGWC-18	0.653	0.1881	5	No	10	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	ARGWC-7	0.5119	0.1336	5	No	10	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	ARGWC-8	0.433	0.09303	5	No	10	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	ARGWC-9	0.4368	0.04023	5	No	10	0	No	0.01	Param.
Fluoride (mg/L)	ARGWC-10	0.2	0.047	4	No	11	63.64	No	0.006	NP (normality)
Fluoride (mg/L)	ARGWC-15	0.2939	0.1146	4	No	11	36.36	No	0.01	Param.
Fluoride (mg/L)	ARGWC-16	0.2	0.033	4	No	11	72.73	No	0.006	NP (normality)
Fluoride (mg/L)	ARGWC-17	0.2	0.031	4	No	11	72.73	No	0.006	NP (normality)
Fluoride (mg/L)	ARGWC-18	0.1002	0.07035	4	No	10	0	No	0.01	Param.
Fluoride (mg/L)	ARGWC-7	0.2	0.032	4	No	11	81.82	No	0.006	NP (NDs)
Fluoride (mg/L)	ARGWC-8	0.1426	0.1022	4	No	10	0	No	0.01	Param.
Fluoride (mg/L)	ARGWC-9	0.2	0.038	4	No	11	72.73	No	0.006	NP (normality)
Lead (mg/L)	ARGWC-10	0.001	0.001	0.013	No	11	100	No	0.006	NP (NDs)
Lead (mg/L)	ARGWC-15	0.0016	0.001	0.013	No	11	72.73	No	0.006	NP (normality)
Lead (mg/L)	ARGWC-16	0.001	0.001	0.013	No	11	100	No	0.006	NP (NDs)
Lead (mg/L)	ARGWC-17	0.001	0.001	0.013	No	11	100	No	0.006	NP (NDs)
Lead (mg/L)	ARGWC-18	0.001	0.001	0.013	No	11	90.91	No	0.006	NP (NDs)
Lead (mg/L)	ARGWC-7	0.001	0.001	0.013	No	11	100	No	0.006	NP (NDs)
Lead (mg/L)	ARGWC-8	0.001	0.001	0.013	No	11	90.91	No	0.006	NP (NDs)
Lead (mg/L)	ARGWC-9	0.001	0.001	0.013	No	11	90.91	No	0.006	NP (NDs)
Lithium (mg/L)	ARGWC-10	0.005	0.0015	0.007	No	10	70	No	0.011	NP (normality)
Lithium (mg/L)	ARGWC-15	0.005	0.0029	0.007	No	10	60	No	0.011	NP (normality)
Lithium (mg/L)	ARGWC-16	0.005	0.0031	0.007	No	10	70	No	0.011	NP (normality)
Lithium (mg/L)	ARGWC-17	0.005	0.0023	0.007	No	10	70	No	0.011	NP (normality)
Lithium (mg/L)	ARGWC-18	0.0062	0.0036	0.007	No	10	0	No	0.011	NP (normality)
Lithium (mg/L)	ARGWC-7	0.006028	0.002952	0.007	No	10	30	No	0.01	Param.
Lithium (mg/L)	ARGWC-8	0.006451	0.003272	0.007	No	10	30	No	0.01	Param.
Lithium (mg/L)	ARGWC-9	0.005	0.005	0.007	No	10	90	No	0.011	NP (NDs)
Mercury (mg/L)	ARGWC-10	0.0002	0.000077	0.002	No	9	88.89	No	0.002	NP (NDs)
Mercury (mg/L)	ARGWC-15	0.0002	0.000071	0.002	No	9	88.89	No	0.002	NP (NDs)
Mercury (mg/L)	ARGWC-16	0.0002	0.00007	0.002	No	9	33.33	No	0.002	NP (normality)
Mercury (mg/L)	ARGWC-17	0.0002	0.0002	0.002	No	9	100	No	0.002	NP (NDs)
Mercury (mg/L)	ARGWC-18	0.0002	0.000074	0.002	No	9	88.89	No	0.002	NP (NDs)
Mercury (mg/L)	ARGWC-7	0.0002	0.00007	0.002	No	9	88.89	No	0.002	NP (NDs)
Mercury (mg/L)	ARGWC-8	0.0002	0.000081	0.002	No	9	88.89	No	0.002	NP (NDs)
Mercury (mg/L)	ARGWC-9	0.0002	0.0002	0.002	No	9	100	No	0.002	NP (NDs)
Molybdenum (mg/L)	ARGWC-10	0.005	0.005	0.015	No	10	100	No	0.011	NP (NDs)
Molybdenum (mg/L)	ARGWC-15	0.005	0.0011	0.015	No	10	60	No	0.011	NP (normality)
Molybdenum (mg/L)	ARGWC-16	0.005	0.005	0.015	No	10	100	No	0.011	NP (NDs)
Molybdenum (mg/L)	ARGWC-17	0.005	0.005	0.015	No	10	100	No	0.011	NP (NDs)

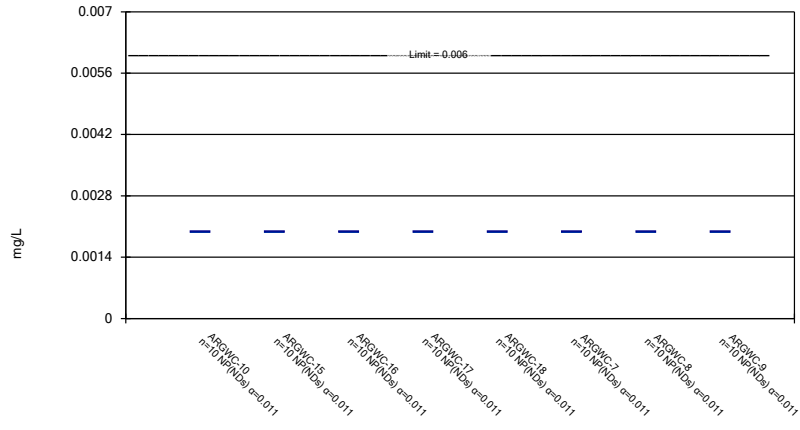
Confidence Interval All Results

Plant Arkwright Client: Southern Company Data: Arkwright No 3 Printed 3/26/2020, 3:06 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Compliance</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Molybdenum (mg/L)	ARGWC-18	0.005	0.005	0.015	No	10	100	No	0.011	NP (NDs)
Molybdenum (mg/L)	ARGWC-7	0.005	0.005	0.015	No	10	100	No	0.011	NP (NDs)
Molybdenum (mg/L)	ARGWC-8	0.04482	0.03488	0.015	Yes	10	0	sqrt(x)	0.01	Param.
Molybdenum (mg/L)	ARGWC-9	0.005	0.005	0.015	No	10	100	No	0.011	NP (NDs)
Selenium (mg/L)	ARGWC-10	0.005	0.005	0.05	No	11	100	No	0.006	NP (NDs)
Selenium (mg/L)	ARGWC-15	0.005	0.00044	0.05	No	11	72.73	No	0.006	NP (normality)
Selenium (mg/L)	ARGWC-16	0.002094	0.0008318	0.05	No	11	9.091	ln(x)	0.01	Param.
Selenium (mg/L)	ARGWC-17	0.005	0.005	0.05	No	11	100	No	0.006	NP (NDs)
Selenium (mg/L)	ARGWC-18	0.005	0.005	0.05	No	11	100	No	0.006	NP (NDs)
Selenium (mg/L)	ARGWC-7	0.005	0.005	0.05	No	11	100	No	0.006	NP (NDs)
Selenium (mg/L)	ARGWC-8	0.005	0.005	0.05	No	11	100	No	0.006	NP (NDs)
Selenium (mg/L)	ARGWC-9	0.005	0.00029	0.05	No	11	81.82	No	0.006	NP (NDs)
Silver (mg/L)	ARGWC-10	0.0013	0.0013	0.0051	No	7	100	No	0.008	NP (NDs)
Silver (mg/L)	ARGWC-15	0.0013	0.00018	0.0051	No	7	71.43	No	0.008	NP (normality)
Silver (mg/L)	ARGWC-16	0.0013	0.00026	0.0051	No	7	85.71	No	0.008	NP (NDs)
Silver (mg/L)	ARGWC-17	0.0013	0.0013	0.0051	No	7	100	No	0.008	NP (NDs)
Silver (mg/L)	ARGWC-18	0.0013	0.0013	0.0051	No	7	100	No	0.008	NP (NDs)
Silver (mg/L)	ARGWC-7	0.0013	0.0013	0.0051	No	7	100	No	0.008	NP (NDs)
Silver (mg/L)	ARGWC-8	0.0013	0.0013	0.0051	No	7	100	No	0.008	NP (NDs)
Silver (mg/L)	ARGWC-9	0.0013	0.0013	0.0051	No	7	100	No	0.008	NP (NDs)
Thallium (mg/L)	ARGWC-10	0.001	0.001	0.002	No	10	100	No	0.011	NP (NDs)
Thallium (mg/L)	ARGWC-15	0.001	0.001	0.002	No	10	90	No	0.011	NP (NDs)
Thallium (mg/L)	ARGWC-16	0.001	0.001	0.002	No	10	100	No	0.011	NP (NDs)
Thallium (mg/L)	ARGWC-17	0.001	0.001	0.002	No	10	100	No	0.011	NP (NDs)
Thallium (mg/L)	ARGWC-18	0.001	0.001	0.002	No	10	100	No	0.011	NP (NDs)
Thallium (mg/L)	ARGWC-7	0.001	0.001	0.002	No	10	100	No	0.011	NP (NDs)
Thallium (mg/L)	ARGWC-8	0.001	0.001	0.002	No	10	100	No	0.011	NP (NDs)
Thallium (mg/L)	ARGWC-9	0.001	0.001	0.002	No	10	100	No	0.011	NP (NDs)

Non-Parametric Confidence Interval

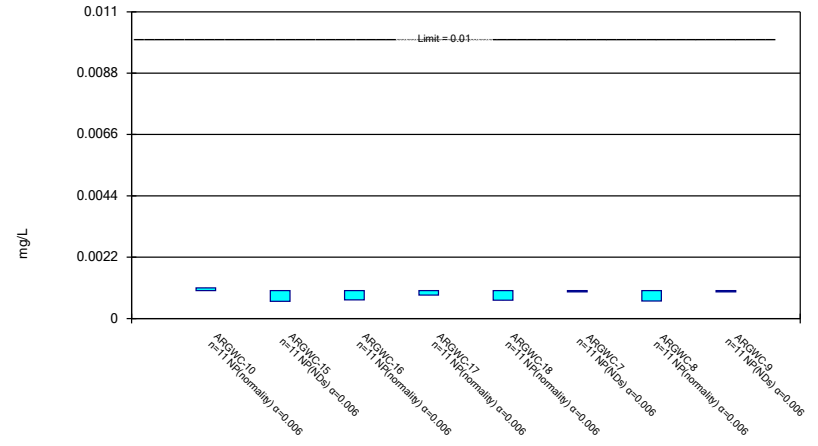
Compliance Limit is not exceeded.



Constituent: Antimony Analysis Run 3/26/2020 3:00 PM View: Confidence Interval
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

Non-Parametric Confidence Interval

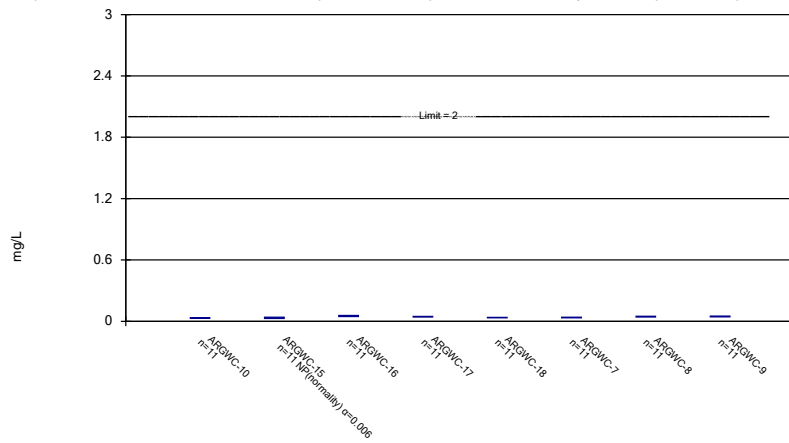
Compliance Limit is not exceeded.



Constituent: Arsenic Analysis Run 3/26/2020 3:00 PM View: Confidence Interval
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

Parametric and Non-Parametric (NP) Confidence Interval

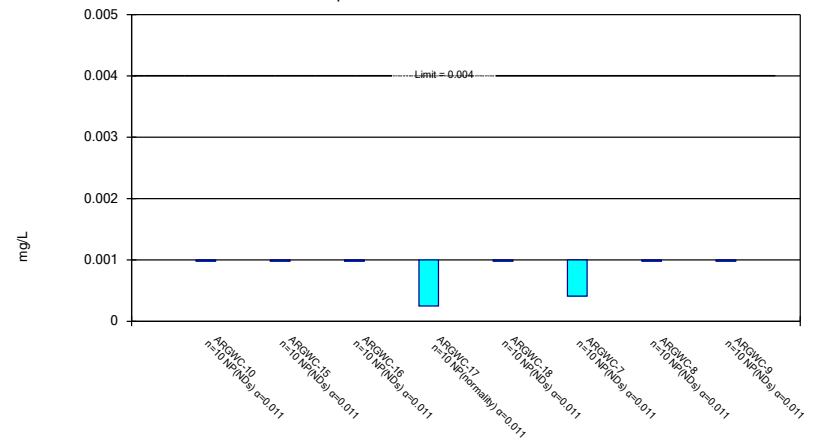
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 3/26/2020 3:00 PM View: Confidence Interval
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

Non-Parametric Confidence Interval

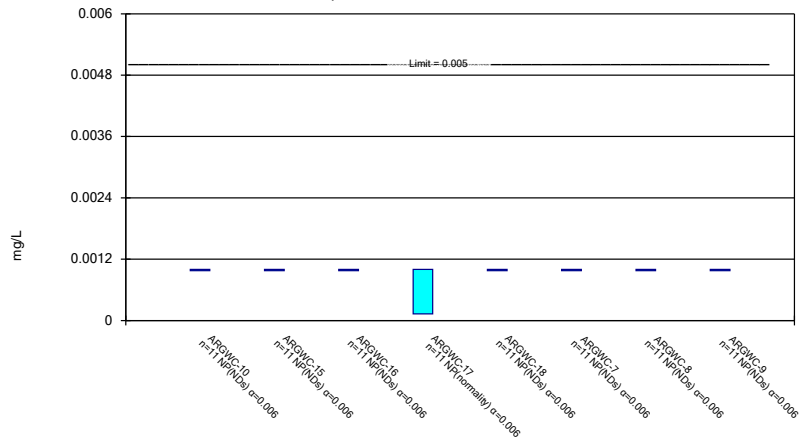
Compliance Limit is not exceeded.



Constituent: Beryllium Analysis Run 3/26/2020 3:00 PM View: Confidence Interval
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

Non-Parametric Confidence Interval

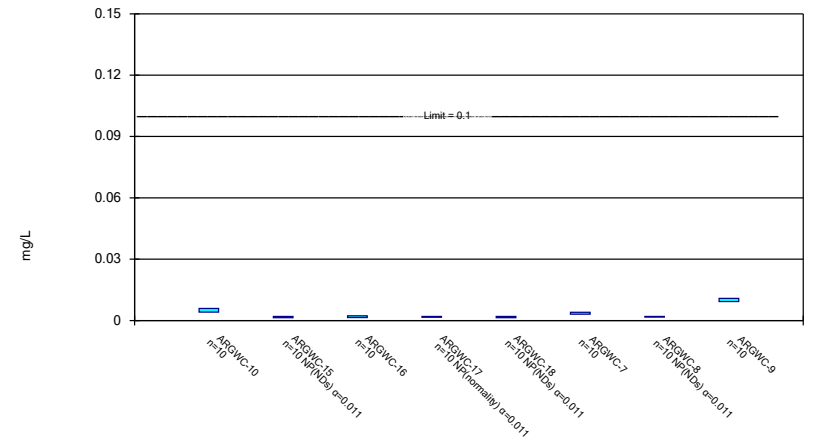
Compliance Limit is not exceeded.



Constituent: Cadmium Analysis Run 3/26/2020 3:00 PM View: Confidence Interval
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Parametric and Non-Parametric (NP) Confidence Interval

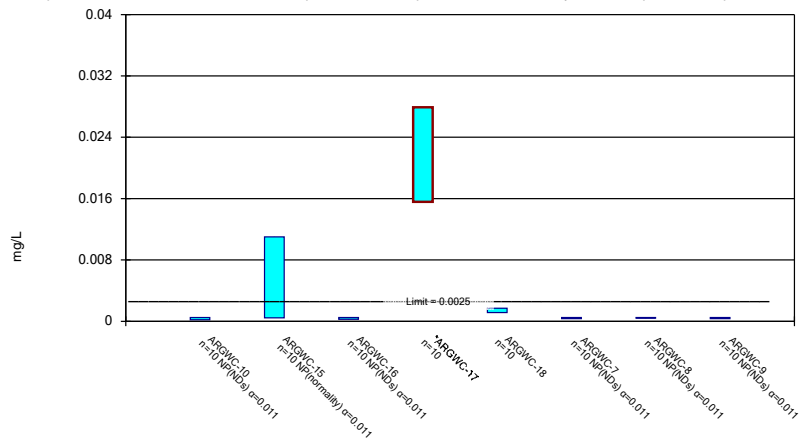
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Chromium Analysis Run 3/26/2020 3:00 PM View: Confidence Interval
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Parametric and Non-Parametric (NP) Confidence Interval

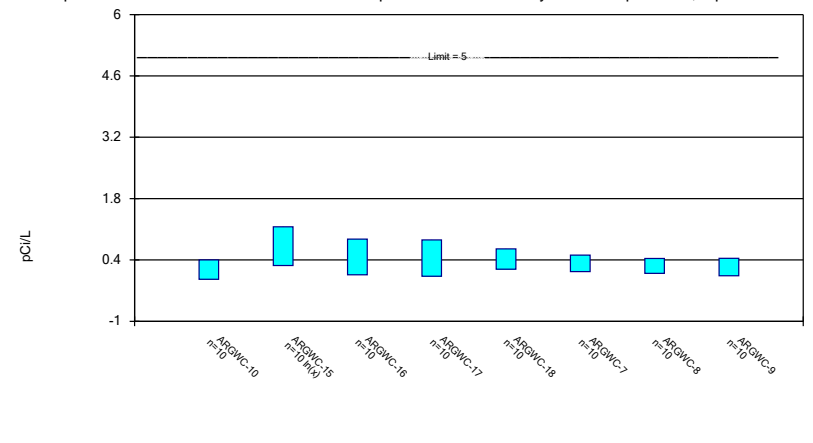
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 3/26/2020 3:00 PM View: Confidence Interval
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Parametric Confidence Interval

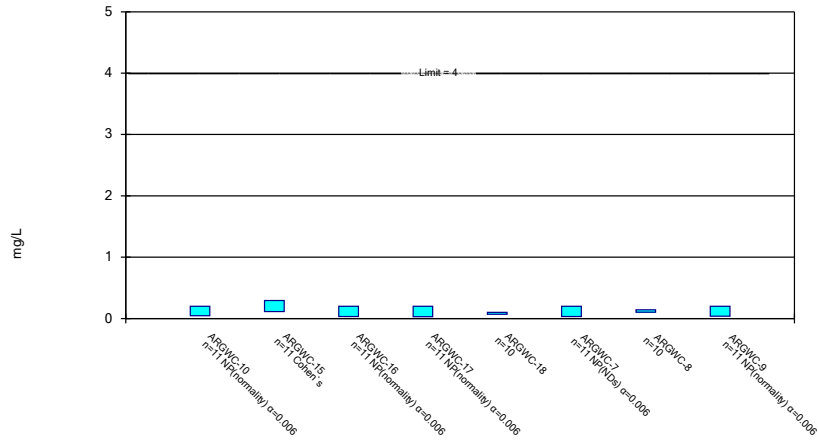
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 3/26/2020 3:00 PM View: Confidence Interval
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Parametric and Non-Parametric (NP) Confidence Interval

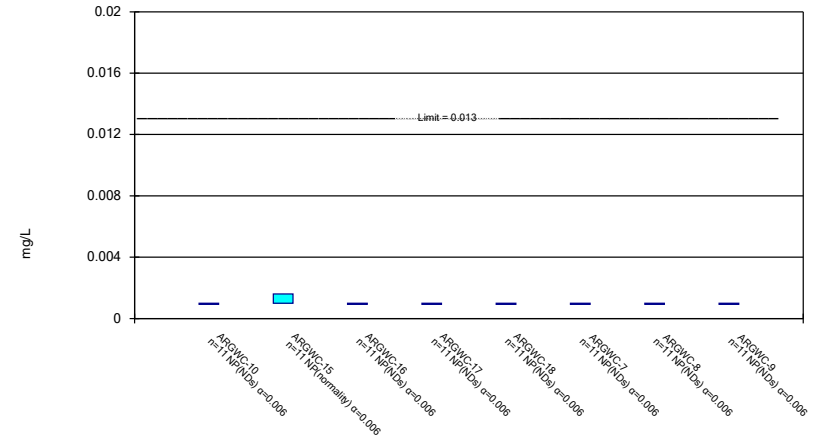
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 3/26/2020 3:00 PM View: Confidence Interval
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Non-Parametric Confidence Interval

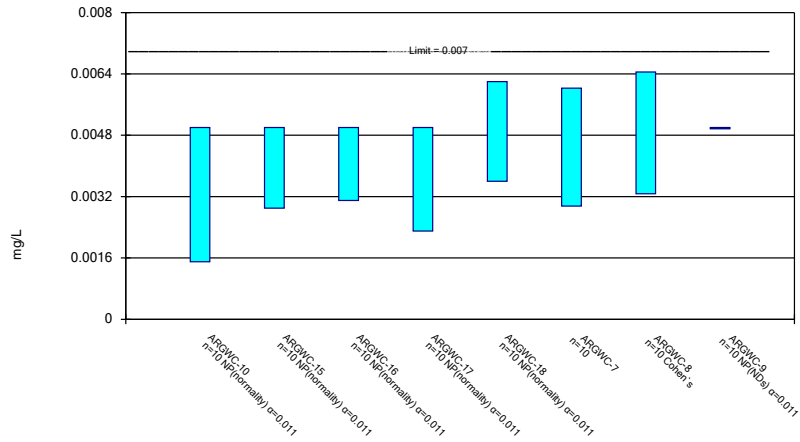
Compliance Limit is not exceeded.



Constituent: Lead Analysis Run 3/26/2020 3:00 PM View: Confidence Interval
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Parametric and Non-Parametric (NP) Confidence Interval

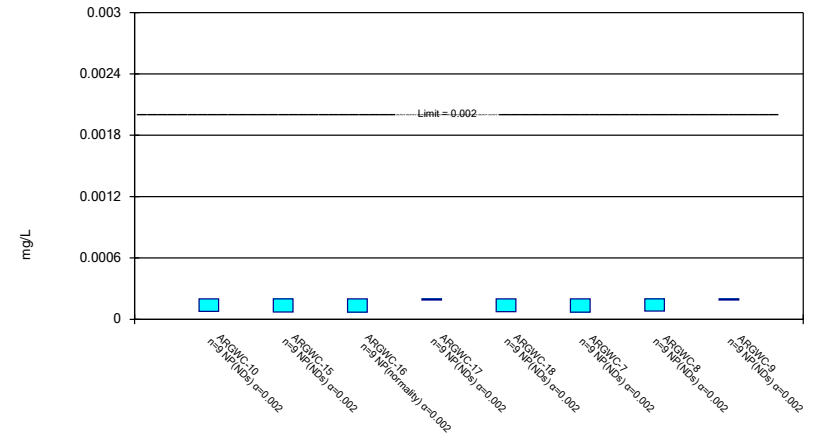
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 3/26/2020 3:00 PM View: Confidence Interval
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Non-Parametric Confidence Interval

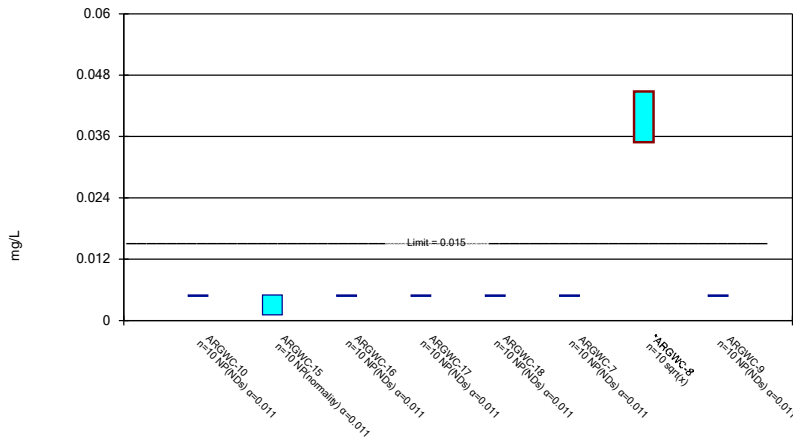
Compliance Limit is not exceeded.



Constituent: Mercury Analysis Run 3/26/2020 3:00 PM View: Confidence Interval
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Parametric and Non-Parametric (NP) Confidence Interval

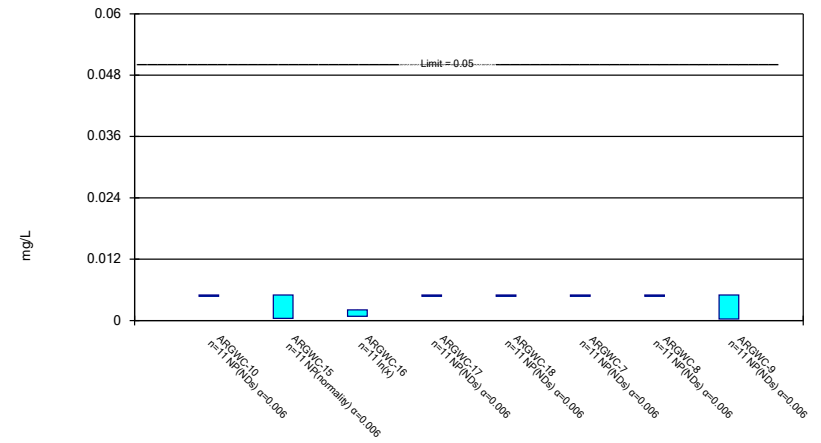
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 3/26/2020 3:00 PM View: Confidence Interval
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

Parametric and Non-Parametric (NP) Confidence Interval

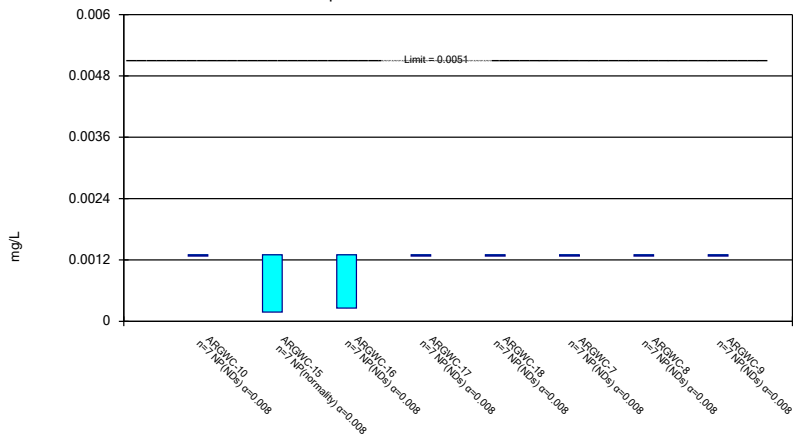
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 3/26/2020 3:00 PM View: Confidence Interval
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

Non-Parametric Confidence Interval

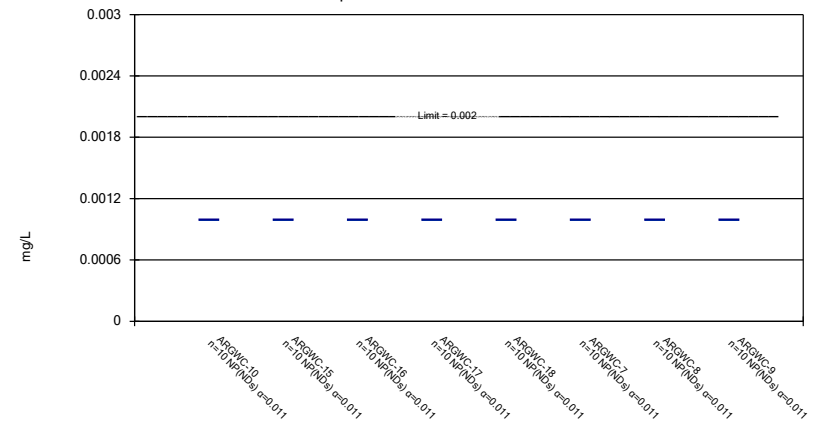
Compliance Limit is not exceeded.



Constituent: Silver Analysis Run 3/26/2020 3:00 PM View: Confidence Interval
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Constituent: Thallium Analysis Run 3/26/2020 3:00 PM View: Confidence Interval
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 3/26/2020 3:06 PM View: Confidence Interval

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-10	ARGWC-15	ARGWC-16	ARGWC-17	ARGWC-18	ARGWC-7	ARGWC-8	ARGWC-9
8/31/2016						<0.001	<0.001	<0.001
9/1/2016	<0.001		<0.001	<0.001	<0.001			
9/2/2016		0.00062 (J)						
10/25/2016	<0.001		<0.001	<0.001		<0.001		<0.001
10/26/2016		<0.001			<0.001		<0.001	
1/26/2017		<0.001	<0.001	<0.001		<0.001	<0.001	<0.001
1/27/2017	<0.001				<0.001			
4/11/2017			0.00067 (J)	0.00084 (J)				
4/12/2017	<0.001	<0.001			<0.001	0.00078 (J)	0.00072 (J)	<0.001
6/21/2017		<0.001	<0.001	<0.001	<0.001		<0.001	
6/22/2017	<0.001					<0.001		<0.001
10/25/2017					<0.001	<0.001		<0.001
10/26/2017	<0.001	<0.001	<0.001	0.00087 (J)			<0.001	
4/10/2018		<0.001	<0.001	<0.001		<0.001		
4/11/2018	<0.001				<0.001		<0.001	<0.001
10/16/2018			<0.001					
10/17/2018	<0.001	<0.001		<0.001	0.00066 (J)	<0.001	0.00063 (J)	<0.001
3/27/2019		<0.001			<0.001			
3/28/2019	0.0011 (J)		0.00057 (J)	<0.001		<0.001	<0.001	0.00051 (J)
8/20/2019			<0.001					
8/21/2019	0.0004 (J)	0.00036 (J)		0.00044 (J)	0.00033 (J)	<0.001	0.00036 (J)	<0.001
10/8/2019		<0.001						
10/9/2019	0.0019		0.001	0.0015	0.0016	0.0015	0.0014	0.0011
Mean	0.001036	0.0009073	0.0009309	0.0009682	0.0009627	0.001025	0.0009191	0.0009645
Std. Dev.	0.0003414	0.0002143	0.0001553	0.0002439	0.0003015	0.0001707	0.000267	0.0001537
Upper Lim.	0.0011	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Lower Lim.	0.001	0.00062	0.00067	0.00084	0.00066	0.001	0.00063	0.001

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 3/26/2020 3:06 PM View: Confidence Interval

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-10	ARGWC-15	ARGWC-16	ARGWC-17	ARGWC-18	ARGWC-7	ARGWC-8	ARGWC-9
8/31/2016						0.03	0.037	0.042
9/1/2016	0.027		0.051	0.046	0.033			
9/2/2016		0.074						
10/25/2016	0.0296		0.0637	0.0436		0.0317		0.0455
10/26/2016		0.0408			0.0339		0.0423	
1/26/2017		0.038	0.055	0.051		0.035	0.046	0.048
1/27/2017	0.035				0.037			
4/11/2017			0.055	0.043				
4/12/2017	0.031	0.03			0.032	0.034	0.041	0.045
6/21/2017		0.028	0.054	0.043	0.036		0.049	
6/22/2017	0.035					0.038		0.055
10/25/2017					0.041	0.038		0.049
10/26/2017	0.032	0.029	0.046	0.038			0.046	
4/10/2018		0.032	0.056	0.046		0.038		
4/11/2018	0.034				0.04		0.048	0.052
10/16/2018			0.039					
10/17/2018	0.031	0.028		0.043	0.039	0.038	0.045	0.046
3/27/2019		0.032			0.033			
3/28/2019	0.031		0.054	0.045		0.038	0.045	0.047
8/20/2019			0.046					
8/21/2019	0.035	0.033		0.05	0.036	0.041	0.052	0.045
10/8/2019		0.031						
10/9/2019	0.031		0.057	0.049	0.039	0.046	0.049	0.041
Mean	0.03196	0.03598	0.05243	0.04524	0.03635	0.03706	0.04548	0.04686
Std. Dev.	0.002564	0.01323	0.006662	0.00376	0.003115	0.004382	0.004204	0.004075
Upper Lim.	0.0341	0.0408	0.05798	0.04837	0.03895	0.04072	0.04899	0.05026
Lower Lim.	0.02983	0.028	0.04688	0.0421	0.03376	0.03341	0.04198	0.04347

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 3/26/2020 3:06 PM View: Confidence Interval

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-10	ARGWC-15	ARGWC-16	ARGWC-17	ARGWC-18	ARGWC-7	ARGWC-8	ARGWC-9
8/31/2016						<0.001	<0.001	<0.001
9/1/2016	<0.001		<0.001	0.00034 (J)	<0.001			
9/2/2016		<0.001						
10/25/2016	<0.001		<0.001	0.0002 (J)		0.0001 (J)		<0.001
10/26/2016		<0.001			<0.001		<0.001	
1/26/2017		<0.001	<0.001	<0.001		<0.001	<0.001	<0.001
1/27/2017	<0.001				<0.001			
4/11/2017			<0.001	<0.001				
4/12/2017	<0.001	<0.001			<0.001	<0.001	<0.001	<0.001
6/21/2017		<0.001	<0.001	<0.001	<0.001		<0.001	
6/22/2017	<0.001					<0.001		<0.001
10/25/2017					<0.001	<0.001		<0.001
10/26/2017	<0.001	<0.001	<0.001	<0.001			<0.001	
4/10/2018		<0.001	<0.001	<0.001		<0.001		
4/11/2018	<0.001				<0.001		<0.001	<0.001
10/16/2018			<0.001					
10/17/2018	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001
8/20/2019			<0.001					
8/21/2019	<0.001	<0.001		0.00025 (J)	<0.001	<0.001	<0.001	<0.001
10/8/2019		<0.001						
10/9/2019	<0.001		0.00027 (J)	0.00076 (J)	0.00034 (J)	0.00041 (J)	0.00047 (J)	0.00037 (J)
Mean	0.001	0.001	0.000927	0.000755	0.000934	0.000851	0.000947	0.000937
Std. Dev.	0	0	0.0002308	0.0003489	0.0002087	0.0003225	0.0001676	0.0001992
Upper Lim.	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Lower Lim.	0.001	0.001	0.001	0.00025	0.001	0.00041	0.001	0.001

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 3/26/2020 3:06 PM View: Confidence Interval
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-10	ARGWC-15	ARGWC-16	ARGWC-17	ARGWC-18	ARGWC-7	ARGWC-8	ARGWC-9
8/31/2016						<0.001	<0.001	<0.001
9/1/2016	<0.001		<0.001	<0.001	<0.001			
9/2/2016		<0.001						
10/25/2016	<0.001		0.0001 (J)	0.0001 (J)		<0.001		<0.001
10/26/2016		<0.001			<0.001		<0.001	
1/26/2017		<0.001	<0.001	<0.001		<0.001	<0.001	<0.001
1/27/2017	<0.001				<0.001			
4/11/2017			<0.001	<0.001				
4/12/2017	<0.001	<0.001			<0.001	<0.001	<0.001	<0.001
6/21/2017		<0.001	<0.001	<0.001	<0.001		<0.001	
6/22/2017	<0.001					<0.001		<0.001
10/25/2017					<0.001	<0.001		<0.001
10/26/2017	<0.001	<0.001	<0.001	<0.001			<0.001	
4/10/2018		<0.001	<0.001	<0.001		<0.001		
4/11/2018	<0.001				<0.001		<0.001	<0.001
10/16/2018			<0.001					
10/17/2018	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001
3/27/2019		<0.001			<0.001			
3/28/2019	<0.001		<0.001	<0.001		<0.001	<0.001	<0.001
8/20/2019			<0.001					
8/21/2019	<0.001	<0.001		0.00013 (J)	<0.001	<0.001	<0.001	<0.001
10/8/2019		<0.001						
10/9/2019	<0.001		<0.001	0.00018 (J)	<0.001	<0.001	<0.001	<0.001
Mean	0.001	0.001	0.0009182	0.0007645	0.001	0.001	0.001	0.001
Std. Dev.	0	0	0.0002714	0.0004037	0	0	0	0
Upper Lim.	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Lower Lim.	0.001	0.001	0.001	0.00013	0.001	0.001	0.001	0.001

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 3/26/2020 3:06 PM View: Confidence Interval

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-10	ARGWC-15	ARGWC-16	ARGWC-17	ARGWC-18	ARGWC-7	ARGWC-8	ARGWC-9
8/31/2016						0.0033	<0.002	0.011
9/1/2016	0.0038		0.0017 (J)	<0.002	<0.002			
9/2/2016		0.0087						
10/25/2016	0.0042 (J)		0.0023 (J)	<0.002		0.0029 (J)		0.0109
10/26/2016		<0.002			<0.002		<0.002	
1/26/2017		<0.002	0.0017 (J)	0.0016 (J)		0.0033	<0.002	0.011
1/27/2017	0.005				<0.002			
4/11/2017			0.0019 (J)	0.0013 (J)				
4/12/2017	0.0048	<0.002			<0.002	0.0036	<0.002	0.0096
6/21/2017		<0.002	0.0017 (J)	<0.002	<0.002		<0.002	
6/22/2017	0.0047					0.0036		0.011
10/25/2017					<0.002	0.0028		0.0094
10/26/2017	0.0043	<0.002	0.0013 (J)	<0.002			<0.002	
4/10/2018		<0.002	0.0019 (J)	<0.002		0.0038		
4/11/2018	0.0051				<0.002		<0.002	0.01
10/16/2018			0.0013 (J)					
10/17/2018	0.0051	<0.002		<0.002	<0.002	0.0036	<0.002	0.0096
8/20/2019			0.0025					
8/21/2019	0.0073	0.0017 (J)		<0.002	<0.002	0.0046	0.0015 (J)	0.0097
10/8/2019		<0.002						
10/9/2019	0.006		0.0027	0.0021	<0.002	0.0042	0.0017 (J)	0.0084
Mean	0.00503	0.00264	0.0019	0.0019	0.002	0.00357	0.00192	0.01006
Std. Dev.	0.001	0.002131	0.0004714	0.0002494	0	0.0005478	0.0001751	0.0008884
Upper Lim.	0.005922	0.002	0.002321	0.002	0.002	0.004059	0.002	0.01085
Lower Lim.	0.004138	0.002	0.001479	0.0016	0.002	0.003081	0.0017	0.009267

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 3/26/2020 3:06 PM View: Confidence Interval

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-10	ARGWC-15	ARGWC-16	ARGWC-17	ARGWC-18	ARGWC-7	ARGWC-8	ARGWC-9
8/31/2016						<0.0005	<0.0005	<0.0005
9/1/2016	<0.0005		<0.0005	0.037	0.0014 (J)			
9/2/2016		0.03						
10/25/2016	<0.0005		<0.0005	0.0144		<0.0005		<0.0005
10/26/2016		0.0036 (J)			0.0013 (J)		<0.0005	
1/26/2017		0.011	<0.0005	0.022		<0.0005	<0.0005	<0.0005
1/27/2017	<0.0005				0.0021 (J)			
4/11/2017			<0.0005	0.026				
4/12/2017	<0.0005	<0.0005			0.0015 (J)	<0.0005	<0.0005	<0.0005
6/21/2017		<0.0005	<0.0005	0.027	0.0018 (J)		<0.0005	
6/22/2017	<0.0005					<0.0005		<0.0005
10/25/2017					0.0013 (J)	<0.0005		<0.0005
10/26/2017	<0.0005	<0.0005	<0.0005	0.021			<0.0005	
4/10/2018		0.00045 (J)	<0.0005	0.021		<0.0005		
4/11/2018	<0.0005				0.0014 (J)		<0.0005	<0.0005
10/16/2018			<0.0005					
10/17/2018	<0.0005	<0.0005		0.014	0.0012 (J)	<0.0005	<0.0005	<0.0005
8/20/2019			0.00016 (J)					
8/21/2019	0.00017 (J)	0.00048 (J)		0.018	0.0012	8.6E-05 (J)	0.00021 (J)	<0.0005
10/8/2019		0.00019 (J)						
10/9/2019	0.00019 (J)		0.00026 (J)	0.017	0.00099	0.00034 (J)	0.00041 (J)	0.00021 (J)
Mean	0.000436	0.004772	0.000442	0.02174	0.001419	0.0004426	0.000462	0.000471
Std. Dev.	0.000135	0.009473	0.0001245	0.006913	0.0003205	0.000135	9.295E-05	9.171E-05
Upper Lim.	0.0005	0.011	0.0005	0.02791	0.001705	0.0005	0.0005	0.0005
Lower Lim.	0.00019	0.00045	0.00026	0.01557	0.001133	0.00034	0.00041	0.0005

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 3/26/2020 3:06 PM View: Confidence Interval

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-10	ARGWC-15	ARGWC-16	ARGWC-17	ARGWC-18	ARGWC-7	ARGWC-8	ARGWC-9
8/31/2016						-0.106 (U)	0.218 (U)	0.279 (U)
9/1/2016	0.153 (U)		0.568	-0.081 (U)	0.495 (U)			
9/2/2016		2.11						
10/25/2016	0.328 (U)		1.57	0.675 (U)		0.518 (U)		0.393 (U)
10/26/2016		2.45			0.606 (U)		0.335 (U)	
1/26/2017		0.276 (U)	0.255 (U)	0.18 (U)		0.37	0.345 (U)	0.0879 (U)
1/27/2017	-0.0761 (U)				0.641			
4/11/2017			0.334 (U)	0.547				
4/12/2017	0.112 (U)	0.387 (U)			-0.0936 (U)	0.316 (U)	0.37 (U)	0.219 (U)
6/21/2017		0.194 (U)	0.518	0.38	0.5		0.144 (U)	
6/22/2017	0.414					0.229 (U)		0.552
10/25/2017					0.345 (U)	0.281 (U)		0.388 (U)
10/26/2017	0.334 (U)	0.519	0.79	1.48			0.51	
4/10/2018		0.604	0.394	0.39		0.492		
4/11/2018	0.17 (U)				0.331 (U)		0.362	0.322
10/16/2018			0.0598 (U)					
10/17/2018	0.38 (U)	0.46 (U)		0.781	0.62	0.495 (U)	0.385 (U)	0.327 (U)
8/20/2019			0.227 (U)					
8/21/2019	0.352 (U)	0.491		-0.0366 (U)	0.693	0.0805 (U)	0.125 (U)	0.0554 (U)
10/8/2019		0.421 (U)						
10/9/2019	-0.38 (U)		-0.0245 (U)	0.118 (U)	0.0684 (U)	0.552	-0.164 (U)	-0.238 (U)
Mean	0.1787	0.7912	0.4691	0.4433	0.4206	0.3228	0.263	0.2385
Std. Dev.	0.2482	0.7974	0.4554	0.4643	0.2605	0.212	0.1905	0.2223
Upper Lim.	0.4002	1.155	0.8755	0.8576	0.653	0.5119	0.433	0.4368
Lower Lim.	-0.04279	0.2742	0.0628	0.02906	0.1881	0.1336	0.09303	0.04023

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 3/26/2020 3:06 PM View: Confidence Interval

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-10	ARGWC-15	ARGWC-16	ARGWC-17	ARGWC-18	ARGWC-7	ARGWC-8	ARGWC-9
8/31/2016						<0.2	0.11 (J)	<0.2
9/1/2016	<0.2		<0.2	<0.2	0.083 (J)			
9/2/2016		0.21						
10/25/2016	0.1 (J)		0.08 (J)	0.08 (J)		0.02 (J)		0.2 (J)
10/26/2016		0.21 (J)						
1/26/2017		0.097 (J)	<0.2	<0.2		<0.2	0.13 (J)	<0.2
1/27/2017	<0.2				0.097 (J)			
4/11/2017			<0.2	<0.2				
4/12/2017	<0.2	<0.2			0.088 (J)	<0.2	0.13 (J)	<0.2
6/21/2017		<0.2	<0.2	<0.2	0.096 (J)		0.14 (J)	
6/22/2017	<0.2					<0.2		<0.2
10/25/2017					0.092 (J)	<0.2		<0.2
10/26/2017	<0.2	<0.2	<0.2	<0.2			0.13 (J)	
4/10/2018		<0.2	<0.2	<0.2		<0.2		
4/11/2018	<0.2				0.09 (J)		0.13 (J)	<0.2
10/16/2018			<0.2					
10/17/2018	<0.2	0.1 (J)		<0.2	0.11 (J)	<0.2	0.16 (J)	<0.2
3/27/2019		0.05 (J)			0.05 (J)			
3/28/2019	0.03 (J)		<0.2	<0.2		<0.2	0.089 (J)	<0.2
8/20/2019			0.033 (J)					
8/21/2019	0.047 (J)	0.1 (J)		0.031 (J)	0.079 (J)	<0.2	0.12 (J)	0.03 (J)
10/8/2019		0.33 (J)						
10/9/2019	0.053 (J)		0.031 (J)	0.03 (J)	0.068 (J)	0.032 (J)	0.085 (J)	0.038 (J)
Mean	0.1482	0.1725	0.1585	0.1583	0.0853	0.1684	0.1224	0.1698
Std. Dev.	0.07374	0.07865	0.07207	0.0726	0.01675	0.07044	0.02268	0.06717
Upper Lim.	0.2	0.2939	0.2	0.2	0.1002	0.2	0.1426	0.2
Lower Lim.	0.047	0.1146	0.033	0.031	0.07035	0.032	0.1022	0.038

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 3/26/2020 3:06 PM View: Confidence Interval

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-10	ARGWC-15	ARGWC-16	ARGWC-17	ARGWC-18	ARGWC-7	ARGWC-8	ARGWC-9
8/31/2016						<0.005	0.0039 (J)	<0.005
9/1/2016	<0.005		<0.005	<0.005	0.0033 (J)			
9/2/2016		0.0045 (J)						
10/25/2016	<0.005		<0.005	<0.005		0.0024 (J)		<0.005
10/26/2016		0.0025 (J)			0.0037 (J)		0.0025 (J)	
1/26/2017		<0.005	<0.005	<0.005		0.0033 (J)	0.0035 (J)	<0.005
1/27/2017	<0.005				0.0048 (J)			
4/11/2017			<0.005	<0.005				
4/12/2017	<0.005	<0.005			0.0039 (J)	<0.005	<0.005	<0.005
6/21/2017		<0.005	<0.005	<0.005	0.0037 (J)		<0.005	
6/22/2017	<0.005					<0.005		<0.005
10/25/2017					0.0047 (J)	0.005		<0.005
10/26/2017	<0.005	<0.005	<0.005	<0.005			0.0041 (J)	
4/10/2018		0.0029 (J)	0.0031 (J)	0.0023 (J)		0.005		
4/11/2018	0.0015 (J)				0.0062		0.0041 (J)	<0.005
10/16/2018			0.0016 (J)					
10/17/2018	0.0011 (J)	<0.005		0.0014 (J)	0.0049 (J)	0.0025 (J)	0.0037 (J)	<0.005
8/20/2019			<0.005					
8/21/2019	<0.005	<0.005		<0.005	0.0036 (J)	0.0034 (J)	<0.005	<0.005
10/8/2019		0.004 (J)						
10/9/2019	0.0055		0.0076	0.0071	0.013	0.0083	0.0077	0.0061
Mean	0.00431	0.00439	0.00473	0.00458	0.00518	0.00449	0.00445	0.00511
Std. Dev.	0.001597	0.0009539	0.001535	0.001595	0.002881	0.001724	0.001386	0.0003479
Upper Lim.	0.005	0.005	0.005	0.005	0.0062	0.006028	0.006451	0.005
Lower Lim.	0.0015	0.0029	0.0031	0.0023	0.0036	0.002952	0.003272	0.005

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 3/26/2020 3:06 PM View: Confidence Interval

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-10	ARGWC-15	ARGWC-16	ARGWC-17	ARGWC-18	ARGWC-7	ARGWC-8	ARGWC-9
8/31/2016						<0.0002	<0.0002	<0.0002
9/1/2016	<0.0002		8.8E-05 (J)	<0.0002	<0.0002			
9/2/2016		<0.0002						
10/25/2016	<0.0002		<0.0002	<0.0002		<0.0002		<0.0002
10/26/2016		<0.0002			<0.0002		<0.0002	
1/26/2017		<0.0002	7.9E-05 (J)	<0.0002		<0.0002	8.1E-05 (J)	<0.0002
1/27/2017	7.7E-05 (J)				7.4E-05 (J)			
4/11/2017			<0.0002	<0.0002				
4/12/2017	<0.0002	<0.0002			<0.0002	<0.0002	<0.0002	<0.0002
6/21/2017		<0.0002	0.00011 (J)	<0.0002	<0.0002		<0.0002	
6/22/2017	<0.0002					<0.0002		<0.0002
10/25/2017					<0.0002	<0.0002		<0.0002
10/26/2017	<0.0002	<0.0002	9.4E-05 (J)	<0.0002			<0.0002	
4/10/2018		7.1E-05 (J)	9.9E-05 (J)	<0.0002		7E-05 (J)		
4/11/2018	<0.0002				<0.0002		<0.0002	<0.0002
10/16/2018			7E-05 (J)					
10/17/2018	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
8/20/2019			<0.0002					
8/21/2019	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Mean	0.0001863	0.0001857	0.0001267	0.0002	0.000186	0.0001856	0.0001868	0.0002
Std. Dev.	4.1E-05	4.3E-05	5.615E-05	0	4.2E-05	4.333E-05	3.967E-05	0
Upper Lim.	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
Lower Lim.	7.7E-05	7.1E-05	7E-05	0.0002	7.4E-05	7E-05	8.1E-05	0.0002

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 3/26/2020 3:06 PM View: Confidence Interval

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-10	ARGWC-15	ARGWC-16	ARGWC-17	ARGWC-18	ARGWC-7	ARGWC-8	ARGWC-9
8/31/2016						<0.005	0.034	<0.005
9/1/2016	<0.005		<0.005	<0.005	<0.005			
9/2/2016		0.0015 (J)						
10/25/2016	<0.005		<0.005	<0.005		<0.005		<0.005
10/26/2016		<0.005			<0.005		0.0377	
1/26/2017		<0.005	<0.005	<0.005		<0.005	0.04	<0.005
1/27/2017	<0.005				<0.005			
4/11/2017			<0.005	<0.005				
4/12/2017	<0.005	<0.005			<0.005	<0.005	0.035	<0.005
6/21/2017		<0.005	<0.005	<0.005	<0.005		0.038	
6/22/2017	<0.005					<0.005		<0.005
10/25/2017					<0.005	<0.005		<0.005
10/26/2017	<0.005	<0.005	<0.005	<0.005			0.041	
4/10/2018		0.00097 (J)	<0.005	<0.005		<0.005		
4/11/2018	<0.005				<0.005		0.037	<0.005
10/16/2018			<0.005					
10/17/2018	<0.005	<0.005		<0.005	<0.005	<0.005	0.036	<0.005
8/20/2019			<0.005					
8/21/2019	<0.005	0.0017 (J)		<0.005	<0.005	<0.005	0.051	<0.005
10/8/2019		0.0011 (J)						
10/9/2019	<0.005		<0.005	<0.005	<0.005	<0.005	0.049	<0.005
Mean	0.005	0.003527	0.005	0.005	0.005	0.005	0.03987	0.005
Std. Dev.	0	0.001912	0	0	0	0	0.005755	0
Upper Lim.	0.005	0.005	0.005	0.005	0.005	0.005	0.04482	0.005
Lower Lim.	0.005	0.0011	0.005	0.005	0.005	0.005	0.03488	0.005

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 3/26/2020 3:06 PM View: Confidence Interval

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-10	ARGWC-15	ARGWC-16	ARGWC-17	ARGWC-18	ARGWC-7	ARGWC-8	ARGWC-9
8/31/2016						<0.005	<0.005	0.00024 (J)
9/1/2016	<0.005		0.0014	<0.005	<0.005			
9/2/2016		0.0005 (J)						
10/25/2016	<0.005		0.0015 (J)	<0.005		<0.005		<0.005
10/26/2016		<0.005			<0.005		<0.005	
1/26/2017		<0.005	0.00071 (J)	<0.005		<0.005	<0.005	<0.005
1/27/2017	<0.005				<0.005			
4/11/2017			0.0011 (J)	<0.005				
4/12/2017	<0.005	<0.005			<0.005	<0.005	<0.005	<0.005
6/21/2017		<0.005	0.00075 (J)	<0.005	<0.005		<0.005	
6/22/2017	<0.005					<0.005		<0.005
10/25/2017					<0.005	<0.005		0.00029 (J)
10/26/2017	<0.005	0.0004 (J)	0.0012 (J)	<0.005			<0.005	
4/10/2018		0.00044 (J)	0.0013	<0.005		<0.005		
4/11/2018	<0.005				<0.005		<0.005	<0.005
10/16/2018			0.00072 (J)					
10/17/2018	<0.005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005
3/27/2019		<0.005			<0.005			
3/28/2019	<0.005		0.0017	<0.005		<0.005	<0.005	<0.005
8/20/2019			<0.005					
8/21/2019	<0.005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005
10/8/2019		<0.005						
10/9/2019	<0.005		0.0018 (J)	<0.005	<0.005	<0.005	<0.005	<0.005
Mean	0.005	0.003758	0.001562	0.005	0.005	0.005	0.005	0.004139
Std. Dev.	0	0.002127	0.001201	0	0	0	0	0.001915
Upper Lim.	0.005	0.005	0.002094	0.005	0.005	0.005	0.005	0.005
Lower Lim.	0.005	0.00044	0.0008318	0.005	0.005	0.005	0.005	0.00029

Confidence Interval

Constituent: Silver (mg/L) Analysis Run 3/26/2020 3:06 PM View: Confidence Interval
Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-10	ARGWC-15	ARGWC-16	ARGWC-17	ARGWC-18	ARGWC-7	ARGWC-8	ARGWC-9
10/25/2016	<0.0013		<0.0013	<0.0013		<0.0013		<0.0013
10/26/2016		<0.0013			<0.0013		<0.0013	
4/11/2017			<0.0013	<0.0013				
4/12/2017	<0.0013	<0.0013			<0.0013	<0.0013	<0.0013	<0.0013
10/25/2017					<0.0013	<0.0013		<0.0013
10/26/2017	<0.0013	0.00037 (J)	0.00026 (J)	<0.0013			<0.0013	
4/10/2018		<0.0013	<0.0013	<0.0013		<0.0013		
4/11/2018	<0.0013				<0.0013		<0.0013	<0.0013
10/16/2018			<0.0013					
10/17/2018	<0.0013	<0.0013		<0.0013	<0.0013	<0.0013	<0.0013	<0.0013
3/27/2019		<0.0013			<0.0013			
3/28/2019	<0.0013		<0.0013	<0.0013		<0.0013	<0.0013	<0.0013
10/8/2019		0.00018 (J)						
10/9/2019	<0.0013		<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013
Mean	0.0013	0.001007	0.001151	0.0013	0.0013	0.0013	0.0013	0.0013
Std. Dev.	0	0.0005031	0.0003931	0	0	0	0	0
Upper Lim.	0.0013	0.0013	0.0013	0.0013	0.0013	0.0013	0.0013	0.0013
Lower Lim.	0.0013	0.00018	0.00026	0.0013	0.0013	0.0013	0.0013	0.0013

Confidence Interval Significant Results

Plant Arkwright Client: Southern Company Data: Arkwright No 3 Printed 3/20/2020, 10:40 AM

Constituent
Cobalt (mg/L)

<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Compliance</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
ARGWC-17	0.02791	0.01557	0.006	Yes	10	0	No	0.01	Param.

Confidence Interval All Results

Plant Arkwright Client: Southern Company Data: Arkwright No 3 Printed 3/20/2020, 10:40 AM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Compliance</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Antimony (mg/L)	ARGWC-10	0.002	0.002	0.006	No	10	100	No	0.011	NP (NDs)
Antimony (mg/L)	ARGWC-15	0.002	0.002	0.006	No	10	100	No	0.011	NP (NDs)
Antimony (mg/L)	ARGWC-16	0.002	0.002	0.006	No	10	100	No	0.011	NP (NDs)
Antimony (mg/L)	ARGWC-17	0.002	0.002	0.006	No	10	100	No	0.011	NP (NDs)
Antimony (mg/L)	ARGWC-18	0.002	0.002	0.006	No	10	100	No	0.011	NP (NDs)
Antimony (mg/L)	ARGWC-7	0.002	0.002	0.006	No	10	90	No	0.011	NP (NDs)
Antimony (mg/L)	ARGWC-8	0.002	0.002	0.006	No	10	100	No	0.011	NP (NDs)
Antimony (mg/L)	ARGWC-9	0.002	0.002	0.006	No	10	90	No	0.011	NP (NDs)
Arsenic (mg/L)	ARGWC-10	0.0011	0.001	0.01	No	11	72.73	No	0.006	NP (normality)
Arsenic (mg/L)	ARGWC-15	0.001	0.00062	0.01	No	11	81.82	No	0.006	NP (NDs)
Arsenic (mg/L)	ARGWC-16	0.001	0.00067	0.01	No	11	72.73	No	0.006	NP (normality)
Arsenic (mg/L)	ARGWC-17	0.001	0.00084	0.01	No	11	63.64	No	0.006	NP (normality)
Arsenic (mg/L)	ARGWC-18	0.001	0.00066	0.01	No	11	72.73	No	0.006	NP (normality)
Arsenic (mg/L)	ARGWC-7	0.001	0.001	0.01	No	11	81.82	No	0.006	NP (NDs)
Arsenic (mg/L)	ARGWC-8	0.001	0.00063	0.01	No	11	63.64	No	0.006	NP (normality)
Arsenic (mg/L)	ARGWC-9	0.001	0.001	0.01	No	11	81.82	No	0.006	NP (NDs)
Barium (mg/L)	ARGWC-10	0.0341	0.02983	2	No	11	0	No	0.01	Param.
Barium (mg/L)	ARGWC-15	0.0408	0.028	2	No	11	0	No	0.006	NP (normality)
Barium (mg/L)	ARGWC-16	0.05798	0.04688	2	No	11	0	No	0.01	Param.
Barium (mg/L)	ARGWC-17	0.04837	0.0421	2	No	11	0	No	0.01	Param.
Barium (mg/L)	ARGWC-18	0.03895	0.03376	2	No	11	0	No	0.01	Param.
Barium (mg/L)	ARGWC-7	0.04072	0.03341	2	No	11	0	No	0.01	Param.
Barium (mg/L)	ARGWC-8	0.04899	0.04198	2	No	11	0	No	0.01	Param.
Barium (mg/L)	ARGWC-9	0.05026	0.04347	2	No	11	0	No	0.01	Param.
Beryllium (mg/L)	ARGWC-10	0.001	0.001	0.004	No	10	100	No	0.011	NP (NDs)
Beryllium (mg/L)	ARGWC-15	0.001	0.001	0.004	No	10	100	No	0.011	NP (NDs)
Beryllium (mg/L)	ARGWC-16	0.001	0.001	0.004	No	10	90	No	0.011	NP (NDs)
Beryllium (mg/L)	ARGWC-17	0.001	0.00025	0.004	No	10	60	No	0.011	NP (normality)
Beryllium (mg/L)	ARGWC-18	0.001	0.001	0.004	No	10	90	No	0.011	NP (NDs)
Beryllium (mg/L)	ARGWC-7	0.001	0.00041	0.004	No	10	80	No	0.011	NP (NDs)
Beryllium (mg/L)	ARGWC-8	0.001	0.001	0.004	No	10	90	No	0.011	NP (NDs)
Beryllium (mg/L)	ARGWC-9	0.001	0.001	0.004	No	10	90	No	0.011	NP (NDs)
Cadmium (mg/L)	ARGWC-10	0.001	0.001	0.005	No	11	100	No	0.006	NP (NDs)
Cadmium (mg/L)	ARGWC-15	0.001	0.001	0.005	No	11	100	No	0.006	NP (NDs)
Cadmium (mg/L)	ARGWC-16	0.001	0.001	0.005	No	11	90.91	No	0.006	NP (NDs)
Cadmium (mg/L)	ARGWC-17	0.001	0.00013	0.005	No	11	72.73	No	0.006	NP (normality)
Cadmium (mg/L)	ARGWC-18	0.001	0.001	0.005	No	11	100	No	0.006	NP (NDs)
Cadmium (mg/L)	ARGWC-7	0.001	0.001	0.005	No	11	100	No	0.006	NP (NDs)
Cadmium (mg/L)	ARGWC-8	0.001	0.001	0.005	No	11	100	No	0.006	NP (NDs)
Cadmium (mg/L)	ARGWC-9	0.001	0.001	0.005	No	11	100	No	0.006	NP (NDs)
Chromium (mg/L)	ARGWC-10	0.005922	0.004138	0.1	No	10	0	No	0.01	Param.
Chromium (mg/L)	ARGWC-15	0.002	0.002	0.1	No	10	80	No	0.011	NP (NDs)
Chromium (mg/L)	ARGWC-16	0.002321	0.001479	0.1	No	10	0	No	0.01	Param.
Chromium (mg/L)	ARGWC-17	0.002	0.0016	0.1	No	10	70	No	0.011	NP (normality)
Chromium (mg/L)	ARGWC-18	0.002	0.002	0.1	No	10	100	No	0.011	NP (NDs)
Chromium (mg/L)	ARGWC-7	0.004059	0.003081	0.1	No	10	0	No	0.01	Param.
Chromium (mg/L)	ARGWC-8	0.002	0.0017	0.1	No	10	80	No	0.011	NP (NDs)
Chromium (mg/L)	ARGWC-9	0.01085	0.009267	0.1	No	10	0	No	0.01	Param.
Cobalt (mg/L)	ARGWC-10	0.0005	0.00019	0.006	No	10	80	No	0.011	NP (NDs)
Cobalt (mg/L)	ARGWC-15	0.011	0.00045	0.006	No	10	40	No	0.011	NP (normality)

Confidence Interval All Results

Plant Arkwright Client: Southern Company Data: Arkwright No 3 Printed 3/20/2020, 10:40 AM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Compliance</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Cobalt (mg/L)	ARGWC-16	0.0005	0.00026	0.006	No	10	80	No	0.011	NP (NDs)
Cobalt (mg/L)	ARGWC-17	0.02791	0.01557	0.006	Yes	10	0	No	0.01	Param.
Cobalt (mg/L)	ARGWC-18	0.001705	0.001133	0.006	No	10	0	No	0.01	Param.
Cobalt (mg/L)	ARGWC-7	0.0005	0.00034	0.006	No	10	80	No	0.011	NP (NDs)
Cobalt (mg/L)	ARGWC-8	0.0005	0.00041	0.006	No	10	80	No	0.011	NP (NDs)
Cobalt (mg/L)	ARGWC-9	0.0005	0.0005	0.006	No	10	90	No	0.011	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	ARGWC-10	0.4002	-0.04279	5	No	10	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	ARGWC-15	1.155	0.2742	5	No	10	0	In(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	ARGWC-16	0.8755	0.0628	5	No	10	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	ARGWC-17	0.8576	0.02906	5	No	10	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	ARGWC-18	0.653	0.1881	5	No	10	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	ARGWC-7	0.5119	0.1336	5	No	10	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	ARGWC-8	0.433	0.09303	5	No	10	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	ARGWC-9	0.4368	0.04023	5	No	10	0	No	0.01	Param.
Fluoride (mg/L)	ARGWC-10	0.2	0.047	4	No	11	63.64	No	0.006	NP (normality)
Fluoride (mg/L)	ARGWC-15	0.2939	0.1146	4	No	11	36.36	No	0.01	Param.
Fluoride (mg/L)	ARGWC-16	0.2	0.033	4	No	11	72.73	No	0.006	NP (normality)
Fluoride (mg/L)	ARGWC-17	0.2	0.031	4	No	11	72.73	No	0.006	NP (normality)
Fluoride (mg/L)	ARGWC-18	0.1002	0.07035	4	No	10	0	No	0.01	Param.
Fluoride (mg/L)	ARGWC-7	0.2	0.032	4	No	11	81.82	No	0.006	NP (NDs)
Fluoride (mg/L)	ARGWC-8	0.1426	0.1022	4	No	10	0	No	0.01	Param.
Fluoride (mg/L)	ARGWC-9	0.2	0.038	4	No	11	72.73	No	0.006	NP (normality)
Lead (mg/L)	ARGWC-10	0.001	0.001	0.015	No	11	100	No	0.006	NP (NDs)
Lead (mg/L)	ARGWC-15	0.0016	0.001	0.015	No	11	72.73	No	0.006	NP (normality)
Lead (mg/L)	ARGWC-16	0.001	0.001	0.015	No	11	100	No	0.006	NP (NDs)
Lead (mg/L)	ARGWC-17	0.001	0.001	0.015	No	11	100	No	0.006	NP (NDs)
Lead (mg/L)	ARGWC-18	0.001	0.001	0.015	No	11	90.91	No	0.006	NP (NDs)
Lead (mg/L)	ARGWC-7	0.001	0.001	0.015	No	11	100	No	0.006	NP (NDs)
Lead (mg/L)	ARGWC-8	0.001	0.001	0.015	No	11	90.91	No	0.006	NP (NDs)
Lead (mg/L)	ARGWC-9	0.001	0.001	0.015	No	11	90.91	No	0.006	NP (NDs)
Lithium (mg/L)	ARGWC-10	0.005	0.0015	0.04	No	10	70	No	0.011	NP (normality)
Lithium (mg/L)	ARGWC-15	0.005	0.0029	0.04	No	10	60	No	0.011	NP (normality)
Lithium (mg/L)	ARGWC-16	0.005	0.0031	0.04	No	10	70	No	0.011	NP (normality)
Lithium (mg/L)	ARGWC-17	0.005	0.0023	0.04	No	10	70	No	0.011	NP (normality)
Lithium (mg/L)	ARGWC-18	0.0062	0.0036	0.04	No	10	0	No	0.011	NP (normality)
Lithium (mg/L)	ARGWC-7	0.006028	0.002952	0.04	No	10	30	No	0.01	Param.
Lithium (mg/L)	ARGWC-8	0.006451	0.003272	0.04	No	10	30	No	0.01	Param.
Lithium (mg/L)	ARGWC-9	0.005	0.005	0.04	No	10	90	No	0.011	NP (NDs)
Mercury (mg/L)	ARGWC-10	0.0002	0.000077	0.002	No	9	88.89	No	0.002	NP (NDs)
Mercury (mg/L)	ARGWC-15	0.0002	0.000071	0.002	No	9	88.89	No	0.002	NP (NDs)
Mercury (mg/L)	ARGWC-16	0.0002	0.00007	0.002	No	9	33.33	No	0.002	NP (normality)
Mercury (mg/L)	ARGWC-17	0.0002	0.0002	0.002	No	9	100	No	0.002	NP (NDs)
Mercury (mg/L)	ARGWC-18	0.0002	0.000074	0.002	No	9	88.89	No	0.002	NP (NDs)
Mercury (mg/L)	ARGWC-7	0.0002	0.00007	0.002	No	9	88.89	No	0.002	NP (NDs)
Mercury (mg/L)	ARGWC-8	0.0002	0.000081	0.002	No	9	88.89	No	0.002	NP (NDs)
Mercury (mg/L)	ARGWC-9	0.0002	0.0002	0.002	No	9	100	No	0.002	NP (NDs)
Molybdenum (mg/L)	ARGWC-10	0.005	0.005	0.1	No	10	100	No	0.011	NP (NDs)
Molybdenum (mg/L)	ARGWC-15	0.005	0.0011	0.1	No	10	60	No	0.011	NP (normality)
Molybdenum (mg/L)	ARGWC-16	0.005	0.005	0.1	No	10	100	No	0.011	NP (NDs)
Molybdenum (mg/L)	ARGWC-17	0.005	0.005	0.1	No	10	100	No	0.011	NP (NDs)

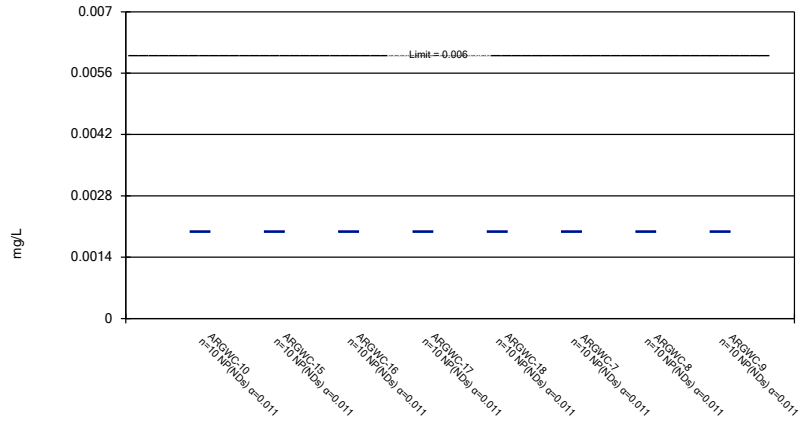
Confidence Interval All Results

Plant Arkwright Client: Southern Company Data: Arkwright No 3 Printed 3/20/2020, 10:40 AM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Compliance</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Molybdenum (mg/L)	ARGWC-18	0.005	0.005	0.1	No	10	100	No	0.011	NP (NDs)
Molybdenum (mg/L)	ARGWC-7	0.005	0.005	0.1	No	10	100	No	0.011	NP (NDs)
Molybdenum (mg/L)	ARGWC-8	0.04482	0.03488	0.1	No	10	0	sqrt(x)	0.01	Param.
Molybdenum (mg/L)	ARGWC-9	0.005	0.005	0.1	No	10	100	No	0.011	NP (NDs)
Selenium (mg/L)	ARGWC-10	0.005	0.005	0.05	No	11	100	No	0.006	NP (NDs)
Selenium (mg/L)	ARGWC-15	0.005	0.00044	0.05	No	11	72.73	No	0.006	NP (normality)
Selenium (mg/L)	ARGWC-16	0.002094	0.0008318	0.05	No	11	9.091	ln(x)	0.01	Param.
Selenium (mg/L)	ARGWC-17	0.005	0.005	0.05	No	11	100	No	0.006	NP (NDs)
Selenium (mg/L)	ARGWC-18	0.005	0.005	0.05	No	11	100	No	0.006	NP (NDs)
Selenium (mg/L)	ARGWC-7	0.005	0.005	0.05	No	11	100	No	0.006	NP (NDs)
Selenium (mg/L)	ARGWC-8	0.005	0.005	0.05	No	11	100	No	0.006	NP (NDs)
Selenium (mg/L)	ARGWC-9	0.005	0.00029	0.05	No	11	81.82	No	0.006	NP (NDs)
Thallium (mg/L)	ARGWC-10	0.001	0.001	0.002	No	10	100	No	0.011	NP (NDs)
Thallium (mg/L)	ARGWC-15	0.001	0.001	0.002	No	10	90	No	0.011	NP (NDs)
Thallium (mg/L)	ARGWC-16	0.001	0.001	0.002	No	10	100	No	0.011	NP (NDs)
Thallium (mg/L)	ARGWC-17	0.001	0.001	0.002	No	10	100	No	0.011	NP (NDs)
Thallium (mg/L)	ARGWC-18	0.001	0.001	0.002	No	10	100	No	0.011	NP (NDs)
Thallium (mg/L)	ARGWC-7	0.001	0.001	0.002	No	10	100	No	0.011	NP (NDs)
Thallium (mg/L)	ARGWC-8	0.001	0.001	0.002	No	10	100	No	0.011	NP (NDs)
Thallium (mg/L)	ARGWC-9	0.001	0.001	0.002	No	10	100	No	0.011	NP (NDs)

Non-Parametric Confidence Interval

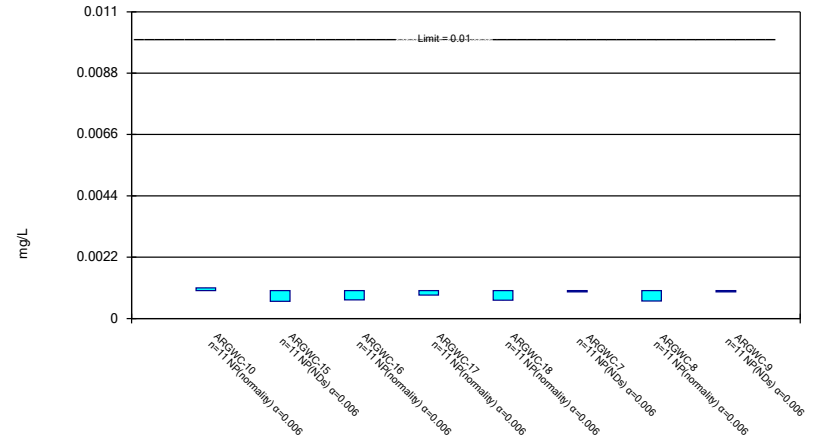
Compliance Limit is not exceeded.



Constituent: Antimony Analysis Run 3/20/2020 10:36 AM View: Confidence Interval
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

Non-Parametric Confidence Interval

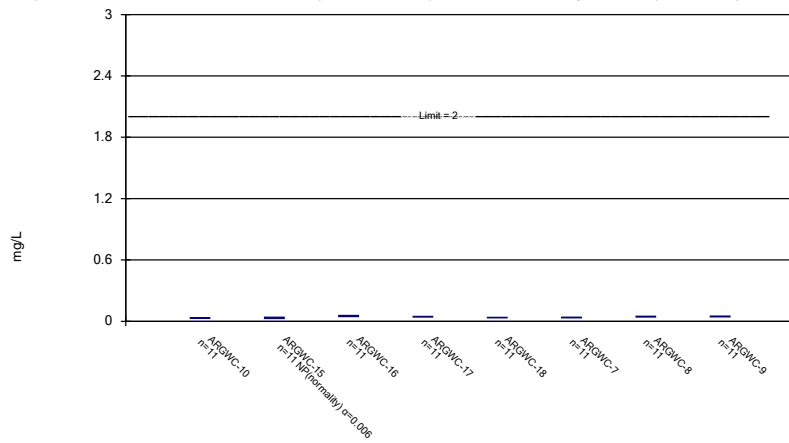
Compliance Limit is not exceeded.



Constituent: Arsenic Analysis Run 3/20/2020 10:36 AM View: Confidence Interval
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

Parametric and Non-Parametric (NP) Confidence Interval

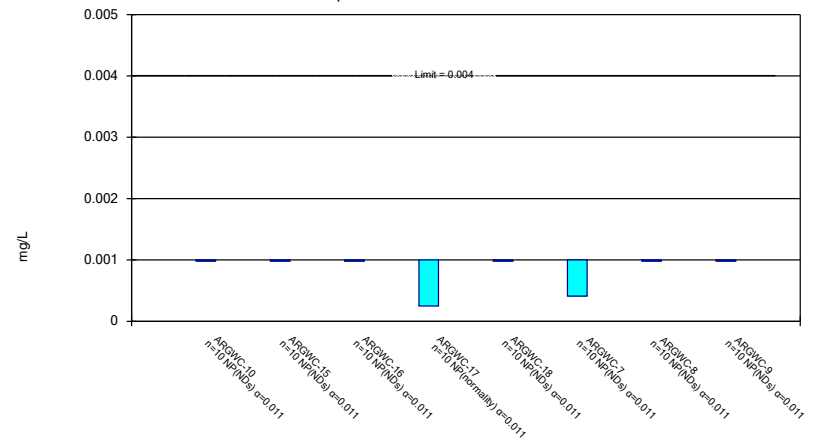
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 3/20/2020 10:36 AM View: Confidence Interval
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

Non-Parametric Confidence Interval

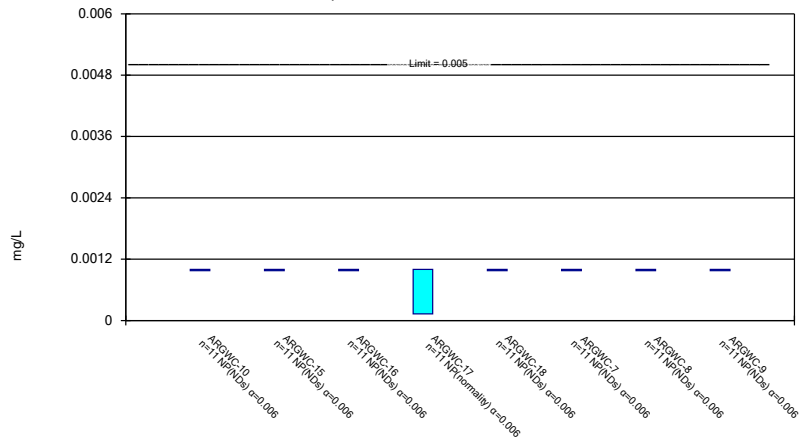
Compliance Limit is not exceeded.



Constituent: Beryllium Analysis Run 3/20/2020 10:36 AM View: Confidence Interval
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

Non-Parametric Confidence Interval

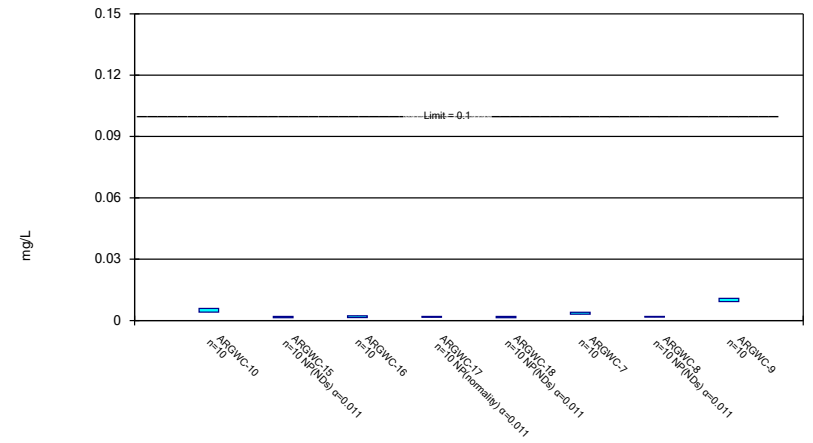
Compliance Limit is not exceeded.



Constituent: Cadmium Analysis Run 3/20/2020 10:36 AM View: Confidence Interval
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Parametric and Non-Parametric (NP) Confidence Interval

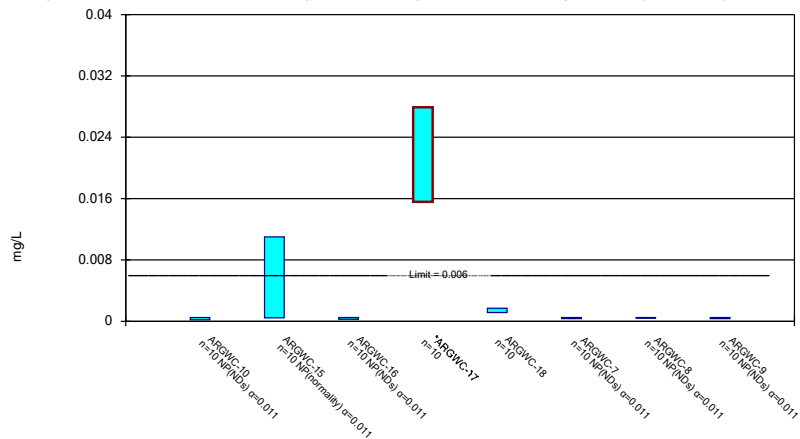
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Chromium Analysis Run 3/20/2020 10:36 AM View: Confidence Interval
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Parametric and Non-Parametric (NP) Confidence Interval

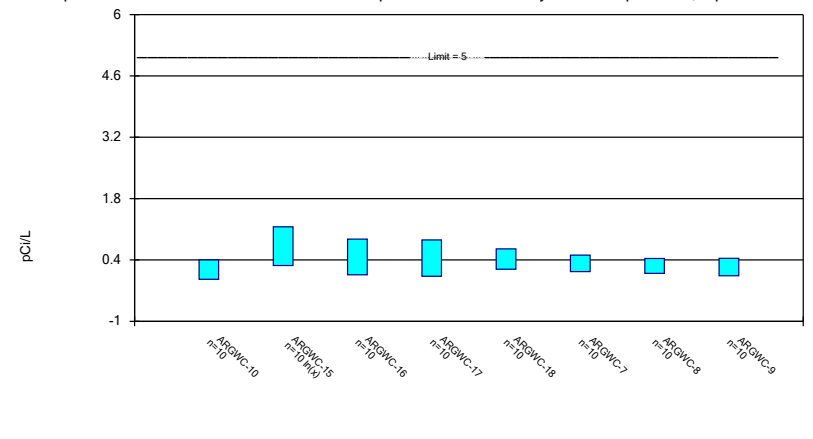
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 3/20/2020 10:36 AM View: Confidence Interval
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Parametric Confidence Interval

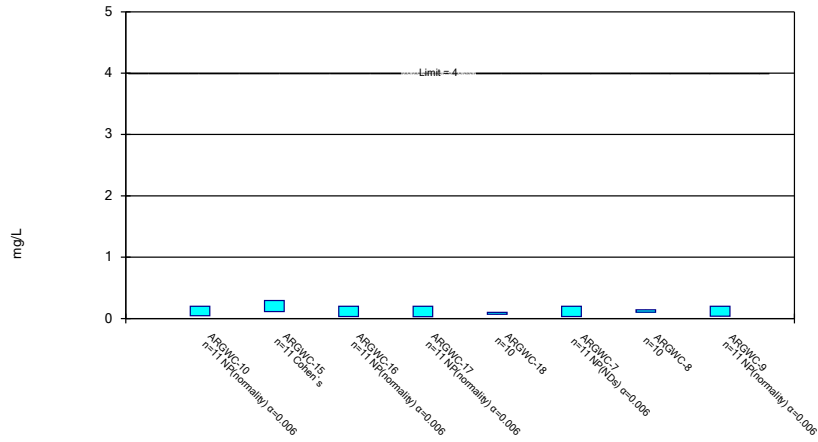
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 3/20/2020 10:37 AM View: Confidence Interval
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Parametric and Non-Parametric (NP) Confidence Interval

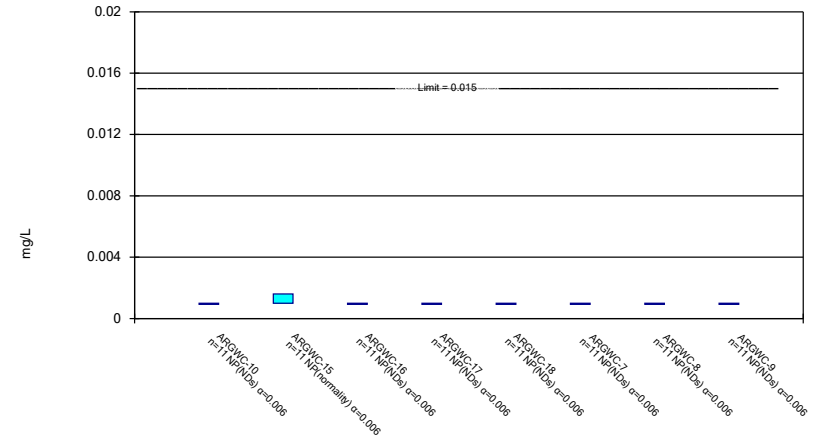
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 3/20/2020 10:37 AM View: Confidence Interval
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Non-Parametric Confidence Interval

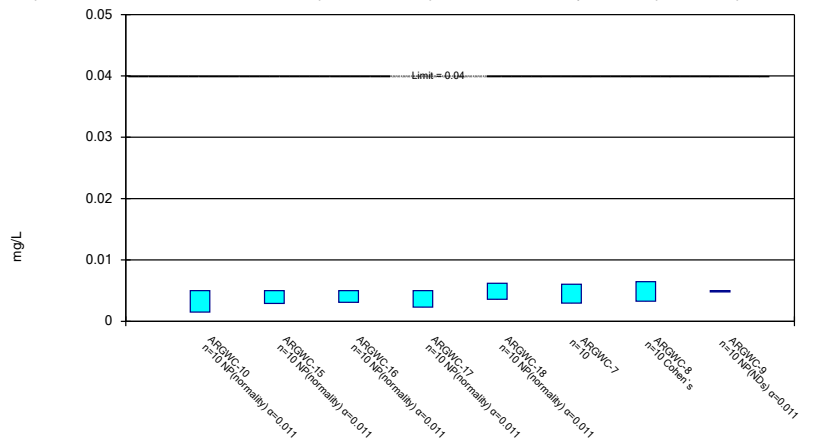
Compliance Limit is not exceeded.



Constituent: Lead Analysis Run 3/20/2020 10:37 AM View: Confidence Interval
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Parametric and Non-Parametric (NP) Confidence Interval

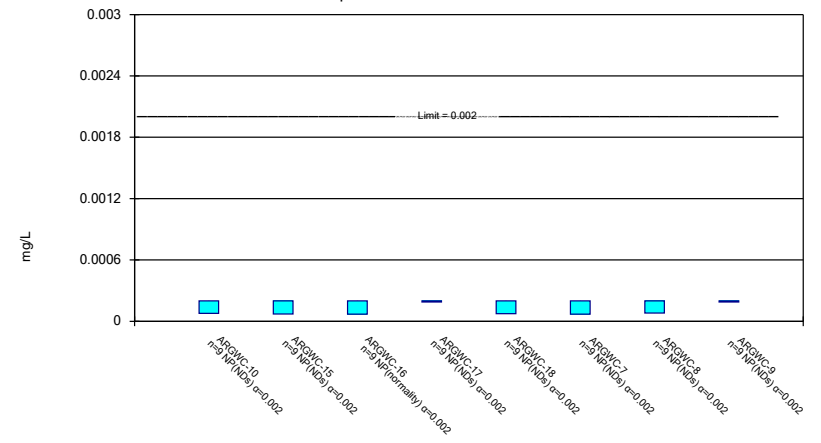
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 3/20/2020 10:37 AM View: Confidence Interval
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Non-Parametric Confidence Interval

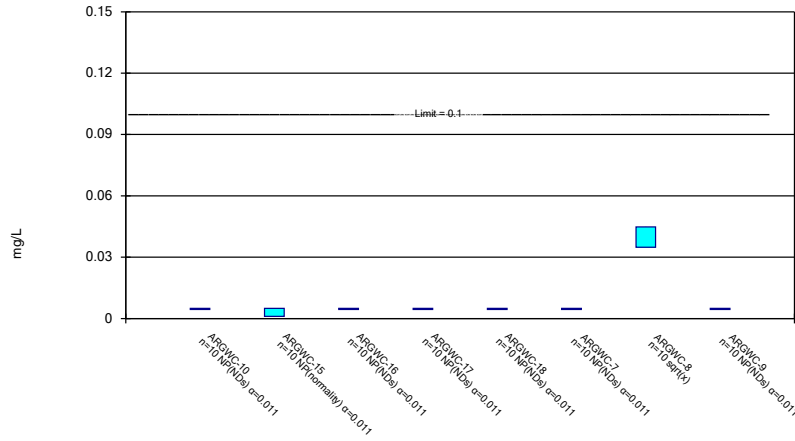
Compliance Limit is not exceeded.



Constituent: Mercury Analysis Run 3/20/2020 10:37 AM View: Confidence Interval
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Parametric and Non-Parametric (NP) Confidence Interval

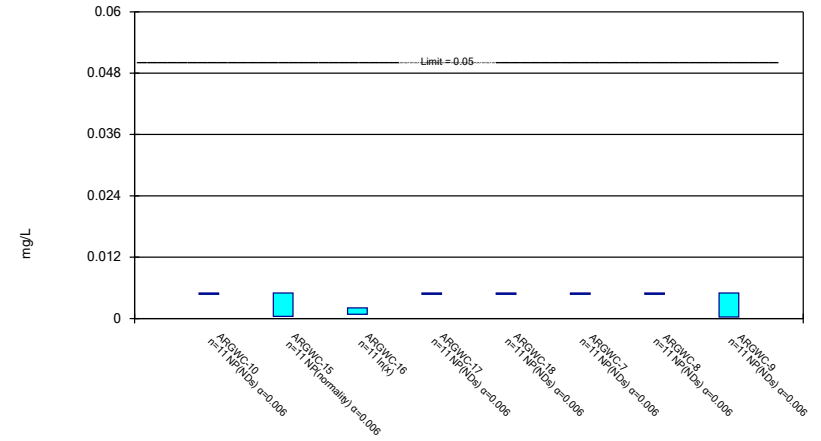
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 3/20/2020 10:37 AM View: Confidence Interval
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Parametric and Non-Parametric (NP) Confidence Interval

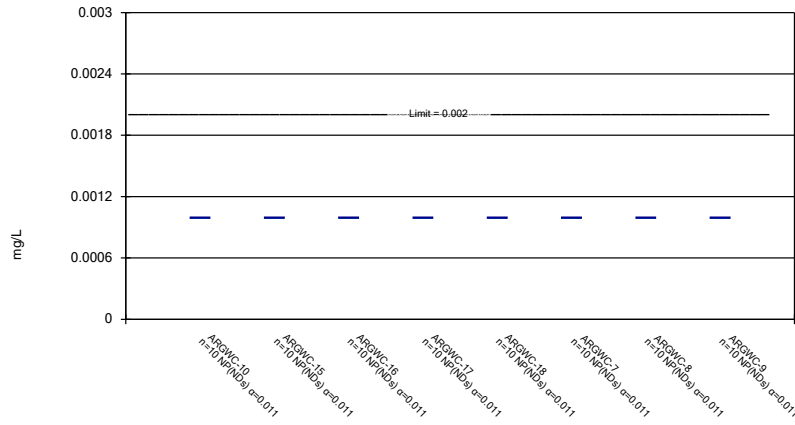
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 3/20/2020 10:37 AM View: Confidence Interval
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Constituent: Thallium Analysis Run 3/20/2020 10:37 AM View: Confidence Interval
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 3/20/2020 10:40 AM View: Confidence Interval
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-10	ARGWC-15	ARGWC-16	ARGWC-17	ARGWC-18	ARGWC-7	ARGWC-8	ARGWC-9
8/31/2016						<0.001	<0.001	<0.001
9/1/2016	<0.001		<0.001	<0.001	<0.001			
9/2/2016		0.00062 (J)						
10/25/2016	<0.001		<0.001	<0.001		<0.001		<0.001
10/26/2016		<0.001			<0.001		<0.001	
1/26/2017		<0.001	<0.001	<0.001		<0.001	<0.001	<0.001
1/27/2017	<0.001				<0.001			
4/11/2017			0.00067 (J)	0.00084 (J)				
4/12/2017	<0.001	<0.001			<0.001	0.00078 (J)	0.00072 (J)	<0.001
6/21/2017		<0.001	<0.001	<0.001	<0.001		<0.001	
6/22/2017	<0.001					<0.001		<0.001
10/25/2017					<0.001	<0.001		<0.001
10/26/2017	<0.001	<0.001	<0.001	0.00087 (J)			<0.001	
4/10/2018		<0.001	<0.001	<0.001		<0.001		
4/11/2018	<0.001				<0.001		<0.001	<0.001
10/16/2018			<0.001					
10/17/2018	<0.001	<0.001		<0.001	0.00066 (J)	<0.001	0.00063 (J)	<0.001
3/27/2019		<0.001			<0.001			
3/28/2019	0.0011 (J)		0.00057 (J)	<0.001		<0.001	<0.001	0.00051 (J)
8/20/2019			<0.001					
8/21/2019	0.0004 (J)	0.00036 (J)		0.00044 (J)	0.00033 (J)	<0.001	0.00036 (J)	<0.001
10/8/2019		<0.001						
10/9/2019	0.0019		0.001	0.0015	0.0016	0.0015	0.0014	0.0011
Mean	0.001036	0.0009073	0.0009309	0.0009682	0.0009627	0.001025	0.0009191	0.0009645
Std. Dev.	0.0003414	0.0002143	0.0001553	0.0002439	0.0003015	0.0001707	0.000267	0.0001537
Upper Lim.	0.0011	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Lower Lim.	0.001	0.00062	0.00067	0.00084	0.00066	0.001	0.00063	0.001

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 3/20/2020 10:40 AM View: Confidence Interval

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-10	ARGWC-15	ARGWC-16	ARGWC-17	ARGWC-18	ARGWC-7	ARGWC-8	ARGWC-9
8/31/2016						0.03	0.037	0.042
9/1/2016	0.027		0.051	0.046	0.033			
9/2/2016		0.074						
10/25/2016	0.0296		0.0637	0.0436		0.0317		0.0455
10/26/2016		0.0408			0.0339		0.0423	
1/26/2017		0.038	0.055	0.051		0.035	0.046	0.048
1/27/2017	0.035				0.037			
4/11/2017			0.055	0.043				
4/12/2017	0.031	0.03			0.032	0.034	0.041	0.045
6/21/2017		0.028	0.054	0.043	0.036		0.049	
6/22/2017	0.035					0.038		0.055
10/25/2017					0.041	0.038		0.049
10/26/2017	0.032	0.029	0.046	0.038			0.046	
4/10/2018		0.032	0.056	0.046		0.038		
4/11/2018	0.034				0.04		0.048	0.052
10/16/2018			0.039					
10/17/2018	0.031	0.028		0.043	0.039	0.038	0.045	0.046
3/27/2019		0.032			0.033			
3/28/2019	0.031		0.054	0.045		0.038	0.045	0.047
8/20/2019			0.046					
8/21/2019	0.035	0.033		0.05	0.036	0.041	0.052	0.045
10/8/2019		0.031						
10/9/2019	0.031		0.057	0.049	0.039	0.046	0.049	0.041
Mean	0.03196	0.03598	0.05243	0.04524	0.03635	0.03706	0.04548	0.04686
Std. Dev.	0.002564	0.01323	0.006662	0.00376	0.003115	0.004382	0.004204	0.004075
Upper Lim.	0.0341	0.0408	0.05798	0.04837	0.03895	0.04072	0.04899	0.05026
Lower Lim.	0.02983	0.028	0.04688	0.0421	0.03376	0.03341	0.04198	0.04347

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 3/20/2020 10:40 AM View: Confidence Interval

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-10	ARGWC-15	ARGWC-16	ARGWC-17	ARGWC-18	ARGWC-7	ARGWC-8	ARGWC-9
8/31/2016						<0.001	<0.001	<0.001
9/1/2016	<0.001		<0.001	0.00034 (J)	<0.001			
9/2/2016		<0.001						
10/25/2016	<0.001		<0.001	0.0002 (J)		0.0001 (J)		<0.001
10/26/2016		<0.001			<0.001		<0.001	
1/26/2017		<0.001	<0.001	<0.001		<0.001	<0.001	<0.001
1/27/2017	<0.001				<0.001			
4/11/2017			<0.001	<0.001				
4/12/2017	<0.001	<0.001			<0.001	<0.001	<0.001	<0.001
6/21/2017		<0.001	<0.001	<0.001	<0.001		<0.001	
6/22/2017	<0.001					<0.001		<0.001
10/25/2017					<0.001	<0.001		<0.001
10/26/2017	<0.001	<0.001	<0.001	<0.001			<0.001	
4/10/2018		<0.001	<0.001	<0.001		<0.001		
4/11/2018	<0.001				<0.001		<0.001	<0.001
10/16/2018			<0.001					
10/17/2018	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001
8/20/2019			<0.001					
8/21/2019	<0.001	<0.001		0.00025 (J)	<0.001	<0.001	<0.001	<0.001
10/8/2019		<0.001						
10/9/2019	<0.001		0.00027 (J)	0.00076 (J)	0.00034 (J)	0.00041 (J)	0.00047 (J)	0.00037 (J)
Mean	0.001	0.001	0.000927	0.000755	0.000934	0.000851	0.000947	0.000937
Std. Dev.	0	0	0.0002308	0.0003489	0.0002087	0.0003225	0.0001676	0.0001992
Upper Lim.	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Lower Lim.	0.001	0.001	0.001	0.00025	0.001	0.00041	0.001	0.001

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 3/20/2020 10:40 AM View: Confidence Interval

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-10	ARGWC-15	ARGWC-16	ARGWC-17	ARGWC-18	ARGWC-7	ARGWC-8	ARGWC-9
8/31/2016						<0.001	<0.001	<0.001
9/1/2016	<0.001		<0.001	<0.001	<0.001			
9/2/2016		<0.001						
10/25/2016	<0.001		0.0001 (J)	0.0001 (J)		<0.001		<0.001
10/26/2016		<0.001			<0.001		<0.001	
1/26/2017		<0.001	<0.001	<0.001		<0.001	<0.001	<0.001
1/27/2017	<0.001				<0.001			
4/11/2017			<0.001	<0.001				
4/12/2017	<0.001	<0.001			<0.001	<0.001	<0.001	<0.001
6/21/2017		<0.001	<0.001	<0.001	<0.001		<0.001	
6/22/2017	<0.001					<0.001		<0.001
10/25/2017					<0.001	<0.001		<0.001
10/26/2017	<0.001	<0.001	<0.001	<0.001			<0.001	
4/10/2018		<0.001	<0.001	<0.001		<0.001		
4/11/2018	<0.001				<0.001		<0.001	<0.001
10/16/2018			<0.001					
10/17/2018	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001
3/27/2019		<0.001			<0.001			
3/28/2019	<0.001		<0.001	<0.001		<0.001	<0.001	<0.001
8/20/2019			<0.001					
8/21/2019	<0.001	<0.001		0.00013 (J)	<0.001	<0.001	<0.001	<0.001
10/8/2019		<0.001						
10/9/2019	<0.001		<0.001	0.00018 (J)	<0.001	<0.001	<0.001	<0.001
Mean	0.001	0.001	0.0009182	0.0007645	0.001	0.001	0.001	0.001
Std. Dev.	0	0	0.0002714	0.0004037	0	0	0	0
Upper Lim.	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Lower Lim.	0.001	0.001	0.001	0.00013	0.001	0.001	0.001	0.001

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 3/20/2020 10:40 AM View: Confidence Interval

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-10	ARGWC-15	ARGWC-16	ARGWC-17	ARGWC-18	ARGWC-7	ARGWC-8	ARGWC-9
8/31/2016						0.0033	<0.002	0.011
9/1/2016	0.0038		0.0017 (J)	<0.002	<0.002			
9/2/2016		0.0087						
10/25/2016	0.0042 (J)		0.0023 (J)	<0.002		0.0029 (J)		0.0109
10/26/2016		<0.002			<0.002		<0.002	
1/26/2017		<0.002	0.0017 (J)	0.0016 (J)		0.0033	<0.002	0.011
1/27/2017	0.005				<0.002			
4/11/2017			0.0019 (J)	0.0013 (J)				
4/12/2017	0.0048	<0.002			<0.002	0.0036	<0.002	0.0096
6/21/2017		<0.002	0.0017 (J)	<0.002	<0.002		<0.002	
6/22/2017	0.0047					0.0036		0.011
10/25/2017					<0.002	0.0028		0.0094
10/26/2017	0.0043	<0.002	0.0013 (J)	<0.002			<0.002	
4/10/2018		<0.002	0.0019 (J)	<0.002		0.0038		
4/11/2018	0.0051				<0.002		<0.002	0.01
10/16/2018			0.0013 (J)					
10/17/2018	0.0051	<0.002		<0.002	<0.002	0.0036	<0.002	0.0096
8/20/2019			0.0025					
8/21/2019	0.0073	0.0017 (J)		<0.002	<0.002	0.0046	0.0015 (J)	0.0097
10/8/2019		<0.002						
10/9/2019	0.006		0.0027	0.0021	<0.002	0.0042	0.0017 (J)	0.0084
Mean	0.00503	0.00264	0.0019	0.0019	0.002	0.00357	0.00192	0.01006
Std. Dev.	0.001	0.002131	0.0004714	0.0002494	0	0.0005478	0.0001751	0.0008884
Upper Lim.	0.005922	0.002	0.002321	0.002	0.002	0.004059	0.002	0.01085
Lower Lim.	0.004138	0.002	0.001479	0.0016	0.002	0.003081	0.0017	0.009267

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 3/20/2020 10:40 AM View: Confidence Interval

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-10	ARGWC-15	ARGWC-16	ARGWC-17	ARGWC-18	ARGWC-7	ARGWC-8	ARGWC-9
8/31/2016						<0.0005	<0.0005	<0.0005
9/1/2016	<0.0005		<0.0005	0.037	0.0014 (J)			
9/2/2016		0.03						
10/25/2016	<0.0005		<0.0005	0.0144		<0.0005		<0.0005
10/26/2016		0.0036 (J)			0.0013 (J)		<0.0005	
1/26/2017		0.011	<0.0005	0.022		<0.0005	<0.0005	<0.0005
1/27/2017	<0.0005				0.0021 (J)			
4/11/2017			<0.0005	0.026				
4/12/2017	<0.0005	<0.0005			0.0015 (J)	<0.0005	<0.0005	<0.0005
6/21/2017		<0.0005	<0.0005	0.027	0.0018 (J)		<0.0005	
6/22/2017	<0.0005					<0.0005		<0.0005
10/25/2017					0.0013 (J)	<0.0005		<0.0005
10/26/2017	<0.0005	<0.0005	<0.0005	0.021			<0.0005	
4/10/2018		0.00045 (J)	<0.0005	0.021		<0.0005		
4/11/2018	<0.0005				0.0014 (J)		<0.0005	<0.0005
10/16/2018			<0.0005					
10/17/2018	<0.0005	<0.0005		0.014	0.0012 (J)	<0.0005	<0.0005	<0.0005
8/20/2019			0.00016 (J)					
8/21/2019	0.00017 (J)	0.00048 (J)		0.018	0.0012	8.6E-05 (J)	0.00021 (J)	<0.0005
10/8/2019		0.00019 (J)						
10/9/2019	0.00019 (J)		0.00026 (J)	0.017	0.00099	0.00034 (J)	0.00041 (J)	0.00021 (J)
Mean	0.000436	0.004772	0.000442	0.02174	0.001419	0.0004426	0.000462	0.000471
Std. Dev.	0.000135	0.009473	0.0001245	0.006913	0.0003205	0.000135	9.295E-05	9.171E-05
Upper Lim.	0.0005	0.011	0.0005	0.02791	0.001705	0.0005	0.0005	0.0005
Lower Lim.	0.00019	0.00045	0.00026	0.01557	0.001133	0.00034	0.00041	0.0005

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 3/20/2020 10:40 AM View: Confidence Interval

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-10	ARGWC-15	ARGWC-16	ARGWC-17	ARGWC-18	ARGWC-7	ARGWC-8	ARGWC-9
8/31/2016						-0.106 (U)	0.218 (U)	0.279 (U)
9/1/2016	0.153 (U)		0.568	-0.081 (U)	0.495 (U)			
9/2/2016		2.11						
10/25/2016	0.328 (U)		1.57	0.675 (U)		0.518 (U)		0.393 (U)
10/26/2016		2.45			0.606 (U)		0.335 (U)	
1/26/2017		0.276 (U)	0.255 (U)	0.18 (U)		0.37	0.345 (U)	0.0879 (U)
1/27/2017	-0.0761 (U)				0.641			
4/11/2017			0.334 (U)	0.547				
4/12/2017	0.112 (U)	0.387 (U)			-0.0936 (U)	0.316 (U)	0.37 (U)	0.219 (U)
6/21/2017		0.194 (U)	0.518	0.38	0.5		0.144 (U)	
6/22/2017	0.414					0.229 (U)		0.552
10/25/2017					0.345 (U)	0.281 (U)		0.388 (U)
10/26/2017	0.334 (U)	0.519	0.79	1.48			0.51	
4/10/2018		0.604	0.394	0.39		0.492		
4/11/2018	0.17 (U)				0.331 (U)		0.362	0.322
10/16/2018			0.0598 (U)					
10/17/2018	0.38 (U)	0.46 (U)		0.781	0.62	0.495 (U)	0.385 (U)	0.327 (U)
8/20/2019			0.227 (U)					
8/21/2019	0.352 (U)	0.491		-0.0366 (U)	0.693	0.0805 (U)	0.125 (U)	0.0554 (U)
10/8/2019		0.421 (U)						
10/9/2019	-0.38 (U)		-0.0245 (U)	0.118 (U)	0.0684 (U)	0.552	-0.164 (U)	-0.238 (U)
Mean	0.1787	0.7912	0.4691	0.4433	0.4206	0.3228	0.263	0.2385
Std. Dev.	0.2482	0.7974	0.4554	0.4643	0.2605	0.212	0.1905	0.2223
Upper Lim.	0.4002	1.155	0.8755	0.8576	0.653	0.5119	0.433	0.4368
Lower Lim.	-0.04279	0.2742	0.0628	0.02906	0.1881	0.1336	0.09303	0.04023

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 3/20/2020 10:40 AM View: Confidence Interval

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-10	ARGWC-15	ARGWC-16	ARGWC-17	ARGWC-18	ARGWC-7	ARGWC-8	ARGWC-9
8/31/2016						<0.2	0.11 (J)	<0.2
9/1/2016	<0.2		<0.2	<0.2	0.083 (J)			
9/2/2016		0.21						
10/25/2016	0.1 (J)		0.08 (J)	0.08 (J)		0.02 (J)		0.2 (J)
10/26/2016		0.21 (J)						
1/26/2017		0.097 (J)	<0.2	<0.2		<0.2	0.13 (J)	<0.2
1/27/2017	<0.2				0.097 (J)			
4/11/2017			<0.2	<0.2				
4/12/2017	<0.2	<0.2			0.088 (J)	<0.2	0.13 (J)	<0.2
6/21/2017		<0.2	<0.2	<0.2	0.096 (J)		0.14 (J)	
6/22/2017	<0.2					<0.2		<0.2
10/25/2017					0.092 (J)	<0.2		<0.2
10/26/2017	<0.2	<0.2	<0.2	<0.2			0.13 (J)	
4/10/2018		<0.2	<0.2	<0.2		<0.2		
4/11/2018	<0.2				0.09 (J)		0.13 (J)	<0.2
10/16/2018			<0.2					
10/17/2018	<0.2	0.1 (J)		<0.2	0.11 (J)	<0.2	0.16 (J)	<0.2
3/27/2019		0.05 (J)			0.05 (J)			
3/28/2019	0.03 (J)		<0.2	<0.2		<0.2	0.089 (J)	<0.2
8/20/2019			0.033 (J)					
8/21/2019	0.047 (J)	0.1 (J)		0.031 (J)	0.079 (J)	<0.2	0.12 (J)	0.03 (J)
10/8/2019		0.33 (J)						
10/9/2019	0.053 (J)		0.031 (J)	0.03 (J)	0.068 (J)	0.032 (J)	0.085 (J)	0.038 (J)
Mean	0.1482	0.1725	0.1585	0.1583	0.0853	0.1684	0.1224	0.1698
Std. Dev.	0.07374	0.07865	0.07207	0.0726	0.01675	0.07044	0.02268	0.06717
Upper Lim.	0.2	0.2939	0.2	0.2	0.1002	0.2	0.1426	0.2
Lower Lim.	0.047	0.1146	0.033	0.031	0.07035	0.032	0.1022	0.038

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 3/20/2020 10:40 AM View: Confidence Interval

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-10	ARGWC-15	ARGWC-16	ARGWC-17	ARGWC-18	ARGWC-7	ARGWC-8	ARGWC-9
8/31/2016						<0.005	0.0039 (J)	<0.005
9/1/2016	<0.005		<0.005	<0.005	0.0033 (J)			
9/2/2016		0.0045 (J)						
10/25/2016	<0.005		<0.005	<0.005		0.0024 (J)		<0.005
10/26/2016		0.0025 (J)			0.0037 (J)		0.0025 (J)	
1/26/2017		<0.005	<0.005	<0.005		0.0033 (J)	0.0035 (J)	<0.005
1/27/2017	<0.005				0.0048 (J)			
4/11/2017			<0.005	<0.005				
4/12/2017	<0.005	<0.005			0.0039 (J)	<0.005	<0.005	<0.005
6/21/2017		<0.005	<0.005	<0.005	0.0037 (J)		<0.005	
6/22/2017	<0.005					<0.005		<0.005
10/25/2017					0.0047 (J)	0.005		<0.005
10/26/2017	<0.005	<0.005	<0.005	<0.005			0.0041 (J)	
4/10/2018		0.0029 (J)	0.0031 (J)	0.0023 (J)		0.005		
4/11/2018	0.0015 (J)				0.0062		0.0041 (J)	<0.005
10/16/2018			0.0016 (J)					
10/17/2018	0.0011 (J)	<0.005		0.0014 (J)	0.0049 (J)	0.0025 (J)	0.0037 (J)	<0.005
8/20/2019			<0.005					
8/21/2019	<0.005	<0.005		<0.005	0.0036 (J)	0.0034 (J)	<0.005	<0.005
10/8/2019		0.004 (J)						
10/9/2019	0.0055		0.0076	0.0071	0.013	0.0083	0.0077	0.0061
Mean	0.00431	0.00439	0.00473	0.00458	0.00518	0.00449	0.00445	0.00511
Std. Dev.	0.001597	0.0009539	0.001535	0.001595	0.002881	0.001724	0.001386	0.0003479
Upper Lim.	0.005	0.005	0.005	0.005	0.0062	0.006028	0.006451	0.005
Lower Lim.	0.0015	0.0029	0.0031	0.0023	0.0036	0.002952	0.003272	0.005

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 3/20/2020 10:40 AM View: Confidence Interval

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-10	ARGWC-15	ARGWC-16	ARGWC-17	ARGWC-18	ARGWC-7	ARGWC-8	ARGWC-9
8/31/2016						<0.0002	<0.0002	<0.0002
9/1/2016	<0.0002		8.8E-05 (J)	<0.0002	<0.0002			
9/2/2016		<0.0002						
10/25/2016	<0.0002		<0.0002	<0.0002		<0.0002		<0.0002
10/26/2016		<0.0002			<0.0002		<0.0002	
1/26/2017		<0.0002	7.9E-05 (J)	<0.0002		<0.0002	8.1E-05 (J)	<0.0002
1/27/2017	7.7E-05 (J)				7.4E-05 (J)			
4/11/2017			<0.0002	<0.0002				
4/12/2017	<0.0002	<0.0002			<0.0002	<0.0002	<0.0002	<0.0002
6/21/2017		<0.0002	0.00011 (J)	<0.0002	<0.0002		<0.0002	
6/22/2017	<0.0002					<0.0002		<0.0002
10/25/2017					<0.0002	<0.0002		<0.0002
10/26/2017	<0.0002	<0.0002	9.4E-05 (J)	<0.0002			<0.0002	
4/10/2018		7.1E-05 (J)	9.9E-05 (J)	<0.0002		7E-05 (J)		
4/11/2018	<0.0002				<0.0002		<0.0002	<0.0002
10/16/2018			7E-05 (J)					
10/17/2018	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
8/20/2019			<0.0002					
8/21/2019	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Mean	0.0001863	0.0001857	0.0001267	0.0002	0.000186	0.0001856	0.0001868	0.0002
Std. Dev.	4.1E-05	4.3E-05	5.615E-05	0	4.2E-05	4.333E-05	3.967E-05	0
Upper Lim.	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
Lower Lim.	7.7E-05	7.1E-05	7E-05	0.0002	7.4E-05	7E-05	8.1E-05	0.0002

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 3/20/2020 10:40 AM View: Confidence Interval

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-10	ARGWC-15	ARGWC-16	ARGWC-17	ARGWC-18	ARGWC-7	ARGWC-8	ARGWC-9
8/31/2016						<0.005	0.034	<0.005
9/1/2016	<0.005		<0.005	<0.005	<0.005			
9/2/2016		0.0015 (J)						
10/25/2016	<0.005		<0.005	<0.005		<0.005		<0.005
10/26/2016		<0.005			<0.005		0.0377	
1/26/2017		<0.005	<0.005	<0.005		<0.005	0.04	<0.005
1/27/2017	<0.005				<0.005			
4/11/2017			<0.005	<0.005				
4/12/2017	<0.005	<0.005			<0.005	<0.005	0.035	<0.005
6/21/2017		<0.005	<0.005	<0.005	<0.005		0.038	
6/22/2017	<0.005					<0.005		<0.005
10/25/2017					<0.005	<0.005		<0.005
10/26/2017	<0.005	<0.005	<0.005	<0.005			0.041	
4/10/2018		0.00097 (J)	<0.005	<0.005		<0.005		
4/11/2018	<0.005				<0.005		0.037	<0.005
10/16/2018			<0.005					
10/17/2018	<0.005	<0.005		<0.005	<0.005	<0.005	0.036	<0.005
8/20/2019			<0.005					
8/21/2019	<0.005	0.0017 (J)		<0.005	<0.005	<0.005	0.051	<0.005
10/8/2019		0.0011 (J)						
10/9/2019	<0.005		<0.005	<0.005	<0.005	<0.005	0.049	<0.005
Mean	0.005	0.003527	0.005	0.005	0.005	0.005	0.03987	0.005
Std. Dev.	0	0.001912	0	0	0	0	0.005755	0
Upper Lim.	0.005	0.005	0.005	0.005	0.005	0.005	0.04482	0.005
Lower Lim.	0.005	0.0011	0.005	0.005	0.005	0.005	0.03488	0.005

Confidence Interval

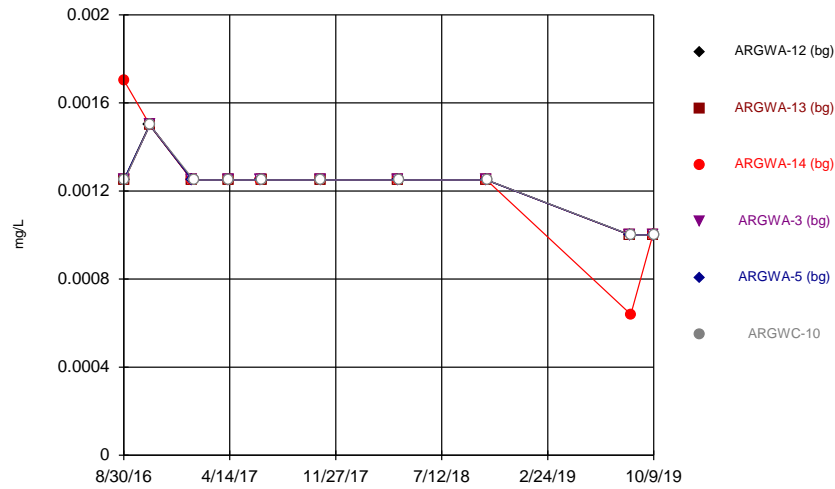
Constituent: Selenium (mg/L) Analysis Run 3/20/2020 10:40 AM View: Confidence Interval

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-10	ARGWC-15	ARGWC-16	ARGWC-17	ARGWC-18	ARGWC-7	ARGWC-8	ARGWC-9
8/31/2016						<0.005	<0.005	0.00024 (J)
9/1/2016	<0.005		0.0014	<0.005	<0.005			
9/2/2016		0.0005 (J)						
10/25/2016	<0.005		0.0015 (J)	<0.005		<0.005		<0.005
10/26/2016		<0.005			<0.005		<0.005	
1/26/2017		<0.005	0.00071 (J)	<0.005		<0.005	<0.005	<0.005
1/27/2017	<0.005				<0.005			
4/11/2017			0.0011 (J)	<0.005				
4/12/2017	<0.005	<0.005			<0.005	<0.005	<0.005	<0.005
6/21/2017		<0.005	0.00075 (J)	<0.005	<0.005		<0.005	
6/22/2017	<0.005					<0.005		<0.005
10/25/2017					<0.005	<0.005		0.00029 (J)
10/26/2017	<0.005	0.0004 (J)	0.0012 (J)	<0.005			<0.005	
4/10/2018		0.00044 (J)	0.0013	<0.005		<0.005		
4/11/2018	<0.005				<0.005		<0.005	<0.005
10/16/2018			0.00072 (J)					
10/17/2018	<0.005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005
3/27/2019		<0.005			<0.005			
3/28/2019	<0.005		0.0017	<0.005		<0.005	<0.005	<0.005
8/20/2019			<0.005					
8/21/2019	<0.005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005
10/8/2019		<0.005						
10/9/2019	<0.005		0.0018 (J)	<0.005	<0.005	<0.005	<0.005	<0.005
Mean	0.005	0.003758	0.001562	0.005	0.005	0.005	0.005	0.004139
Std. Dev.	0	0.002127	0.001201	0	0	0	0	0.001915
Upper Lim.	0.005	0.005	0.002094	0.005	0.005	0.005	0.005	0.005
Lower Lim.	0.005	0.00044	0.0008318	0.005	0.005	0.005	0.005	0.00029

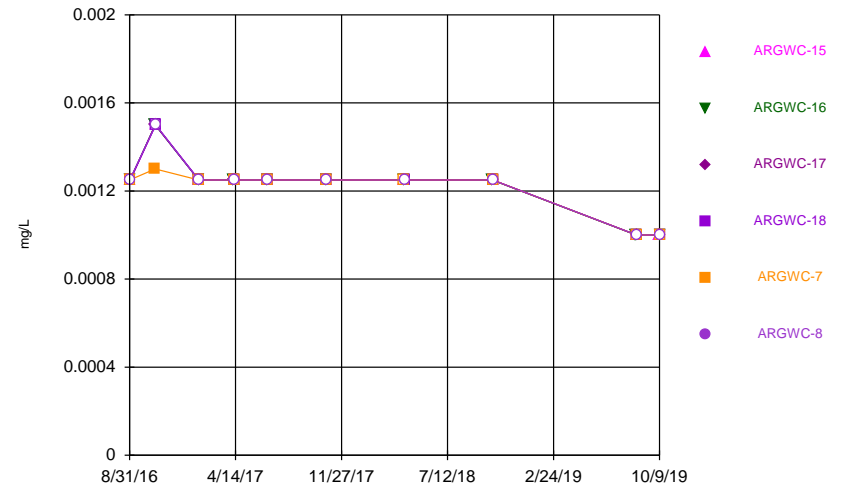
Time Series Plots (through October 2019)

Time Series



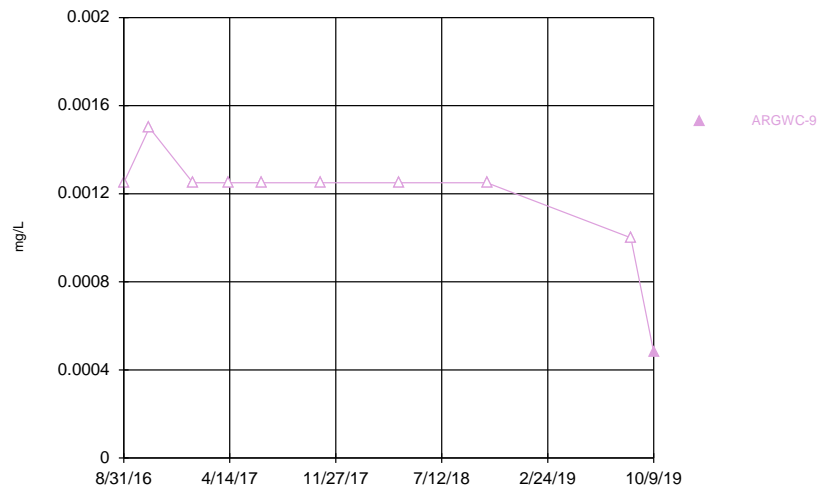
Constituent: Antimony Analysis Run 3/31/2020 10:25 AM View: Confidence Interval
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Time Series



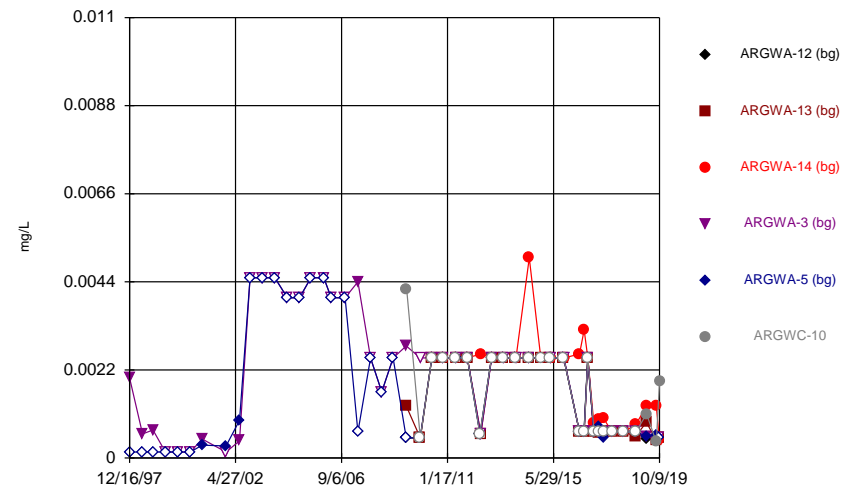
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Plant Arkwright Client: Southern Company Data: Arkwright No 3

Time Series



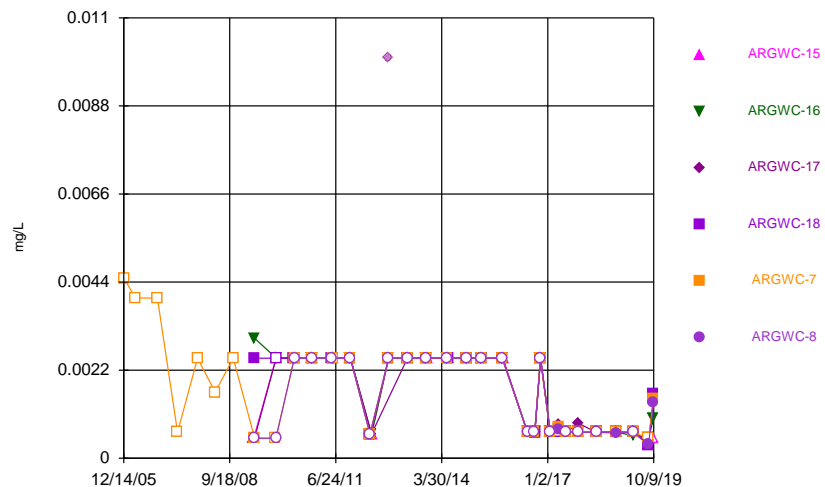
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Plant Arkwright Client: Southern Company Data: Arkwright No 3

Time Series



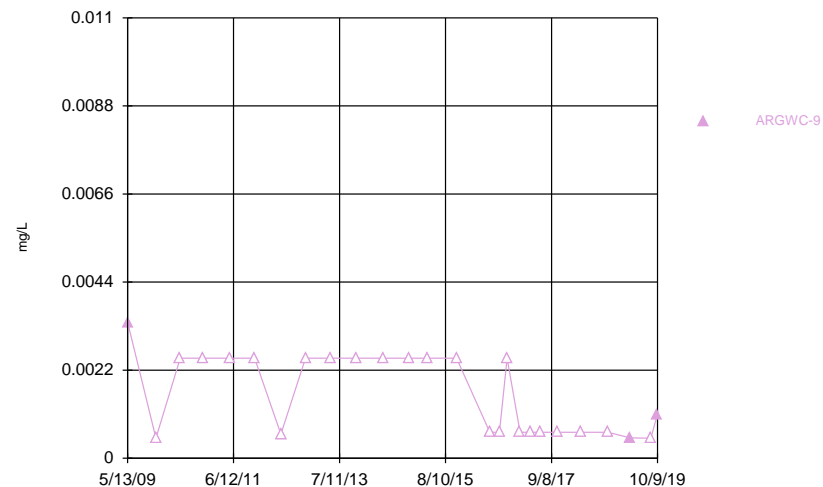
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Plant Arkwright Client: Southern Company Data: Arkwright No 3

Time Series



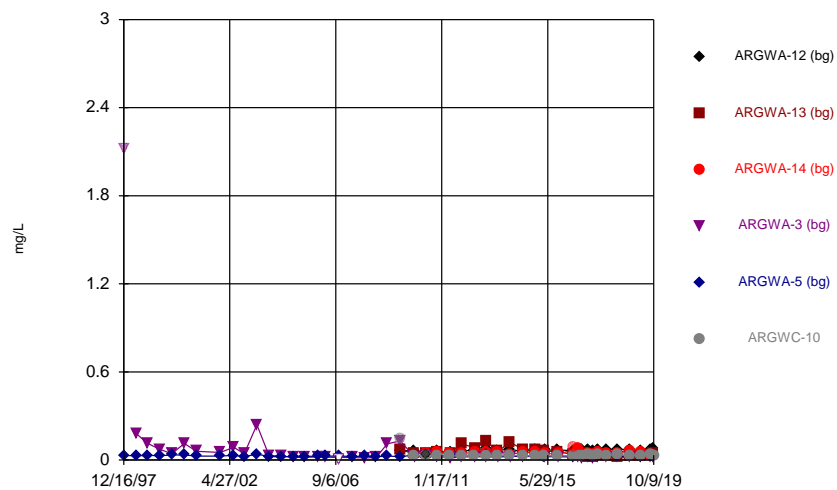
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Plant Arkwright Client: Southern Company Data: Arkwright No 3

Time Series



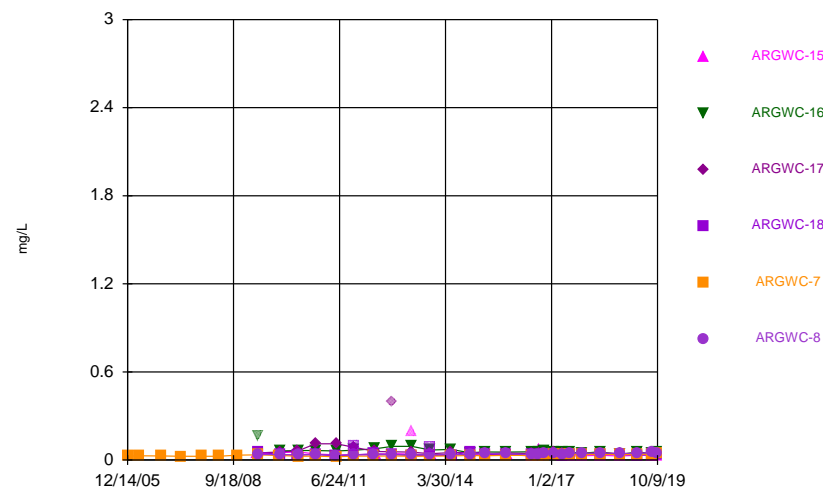
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Plant Arkwright Client: Southern Company Data: Arkwright No 3

Time Series



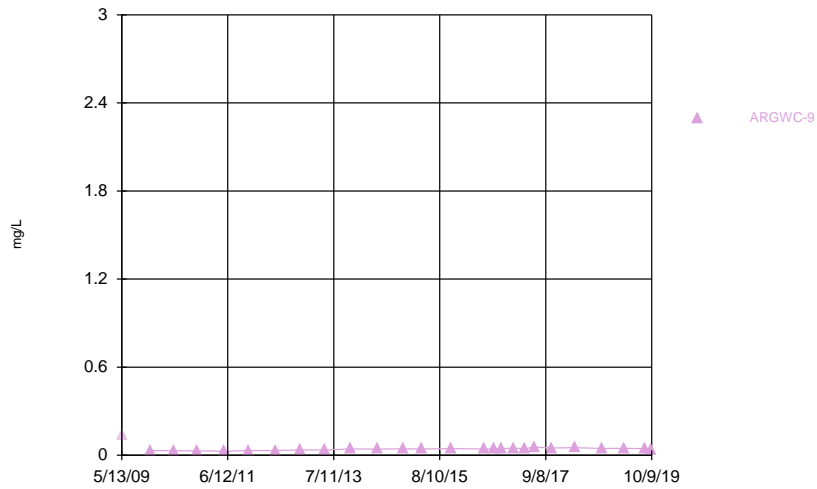
Constituent: Barium Analysis Run 3/31/2020 10:25 AM View: Confidence Interval
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Time Series



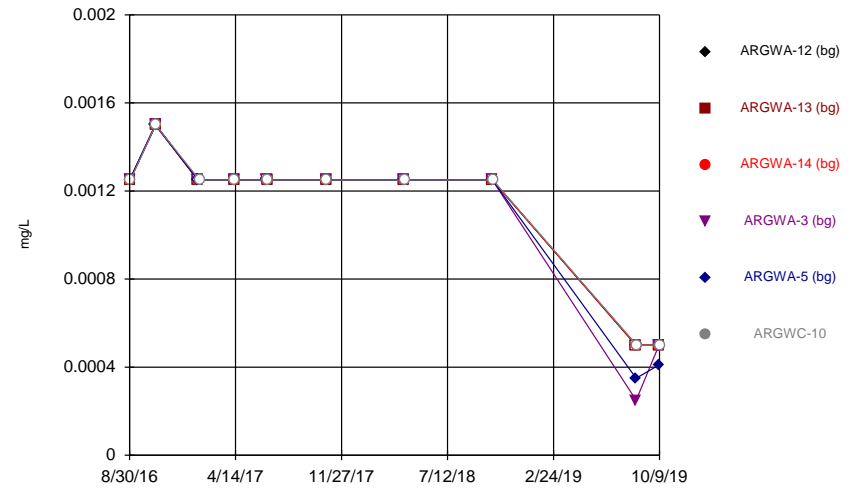
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Plant Arkwright Client: Southern Company Data: Arkwright No 3

Time Series



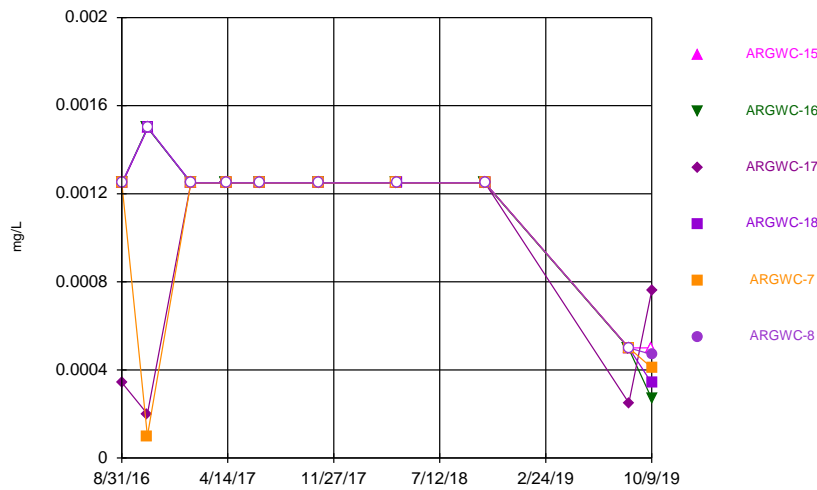
Constituent: Barium Analysis Run 3/31/2020 10:25 AM View: Confidence Interval
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

Time Series



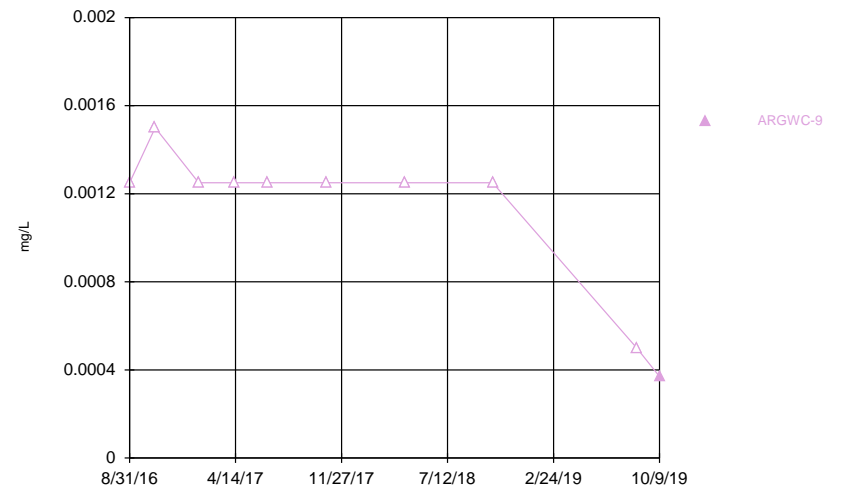
Constituent: Beryllium Analysis Run 3/31/2020 10:25 AM View: Confidence Interval
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

Time Series



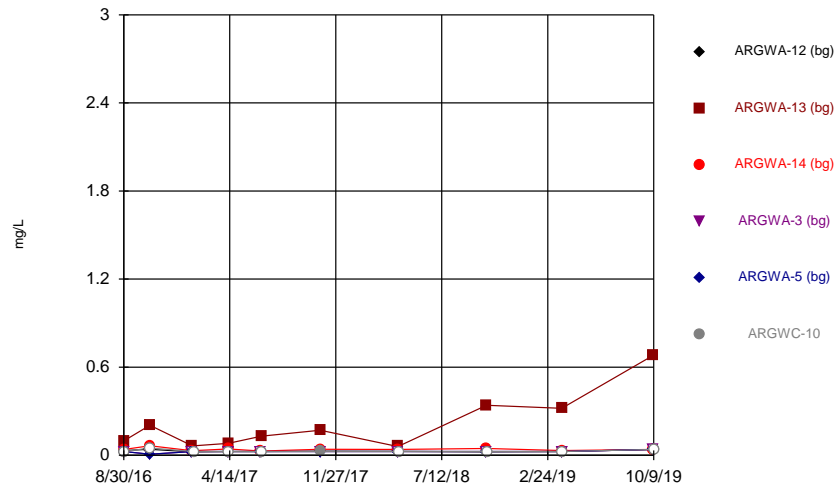
Constituent: Beryllium Analysis Run 3/31/2020 10:25 AM View: Confidence Interval
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

Time Series



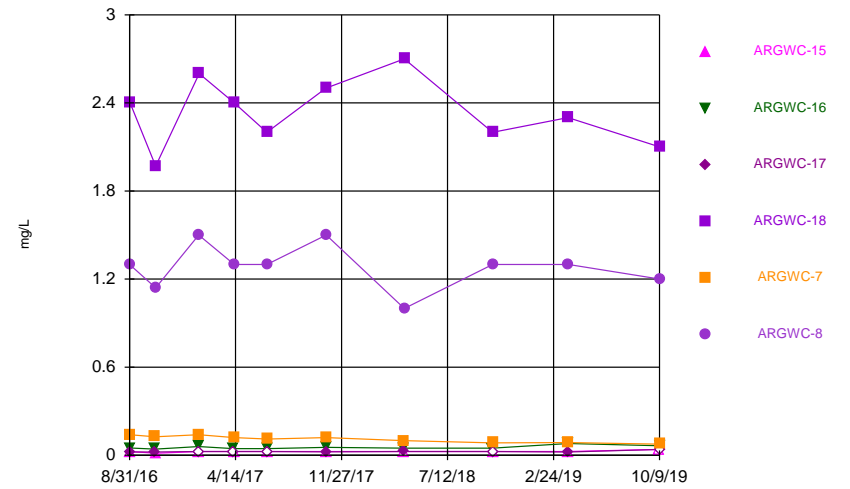
Constituent: Beryllium Analysis Run 3/31/2020 10:25 AM View: Confidence Interval
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

Time Series



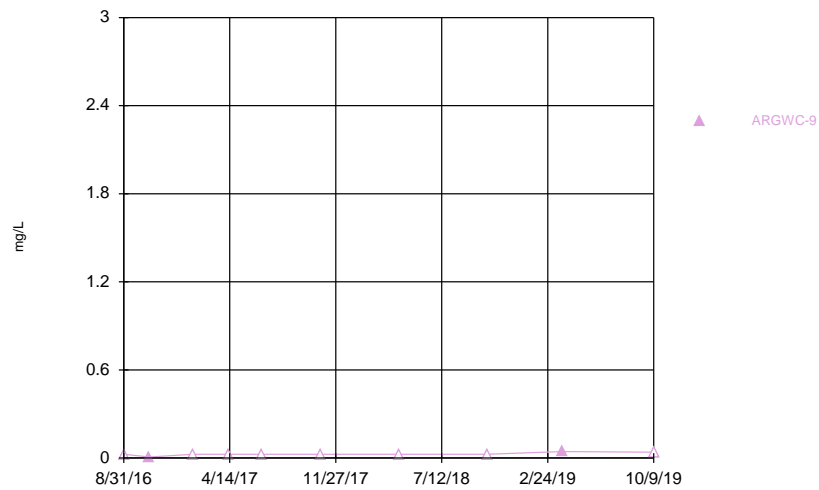
Constituent: Boron Analysis Run 3/31/2020 10:25 AM View: Confidence Interval
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Time Series



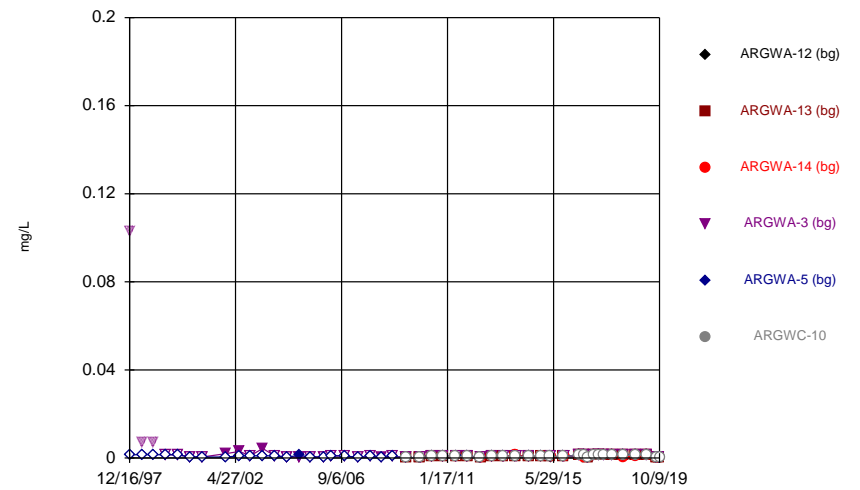
Constituent: Boron Analysis Run 3/31/2020 10:25 AM View: Confidence Interval
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Time Series



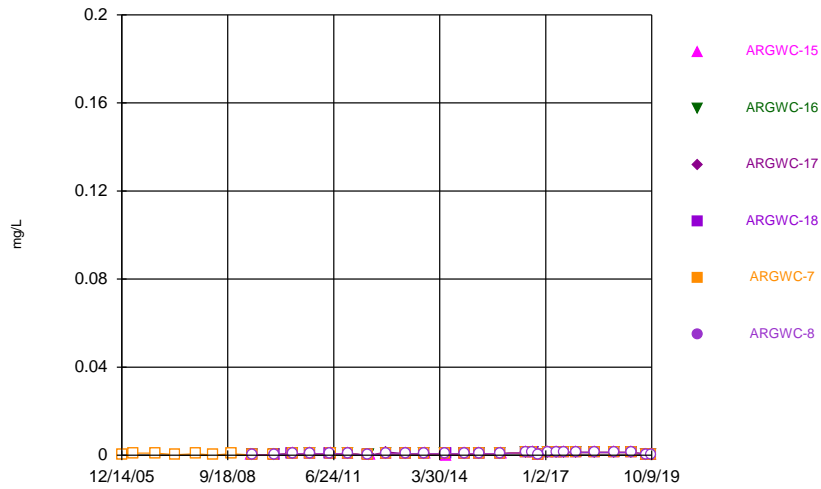
Constituent: Boron Analysis Run 3/31/2020 10:25 AM View: Confidence Interval
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Time Series



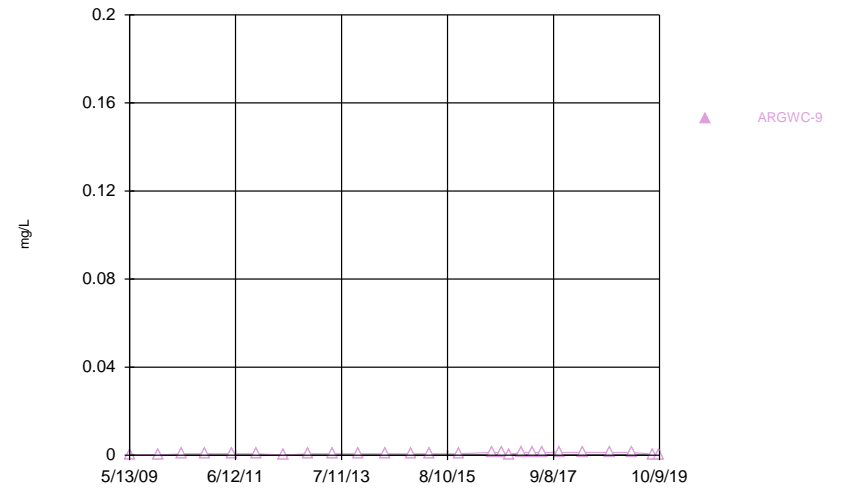
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Time Series



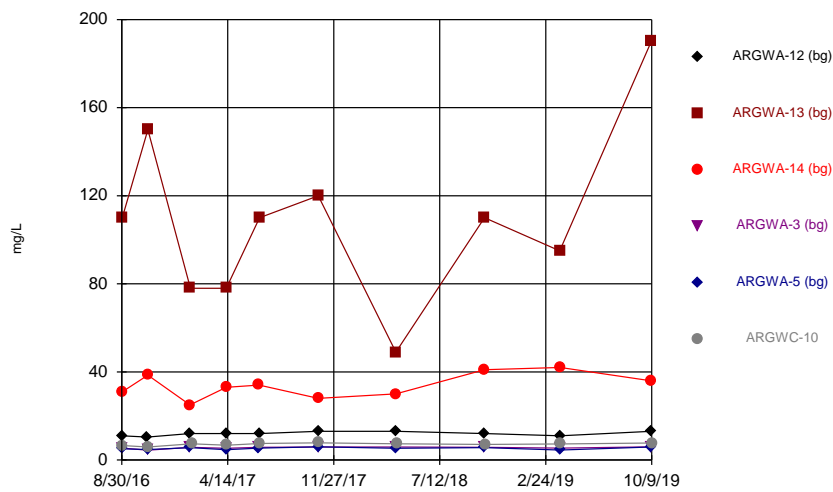
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Time Series



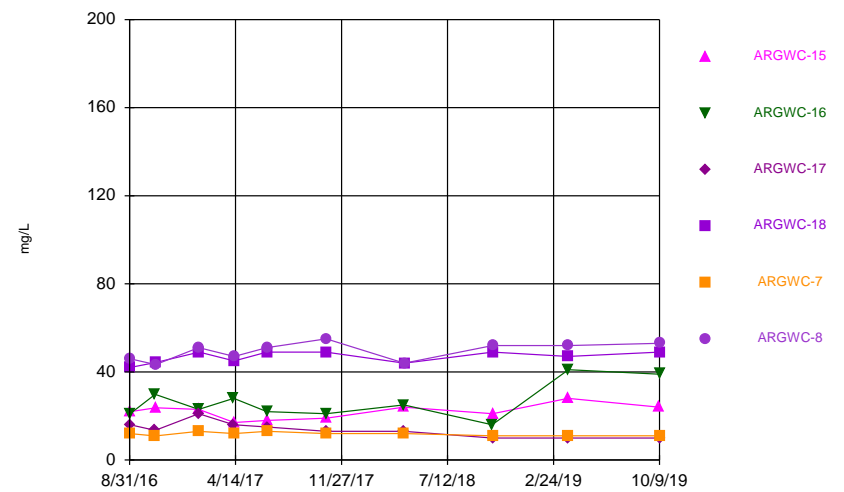
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Time Series



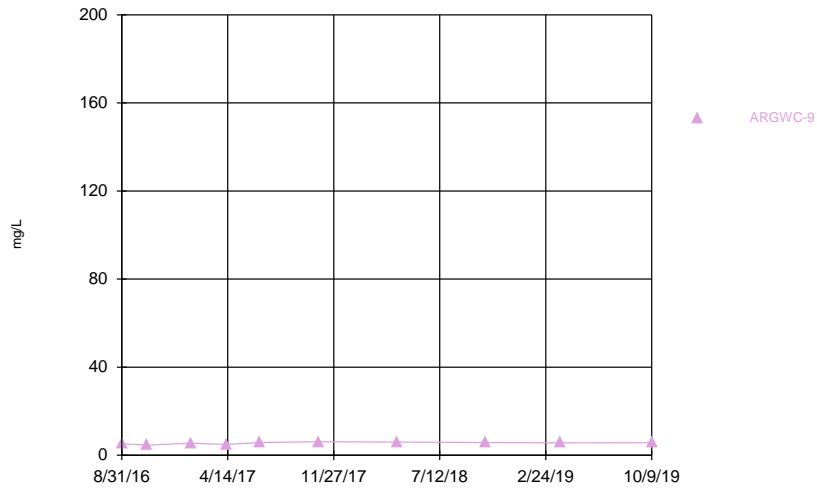
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Time Series



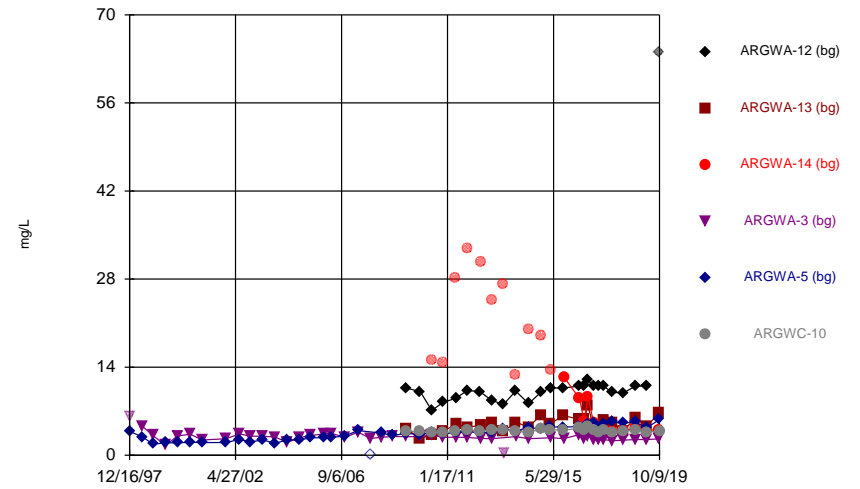
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Time Series



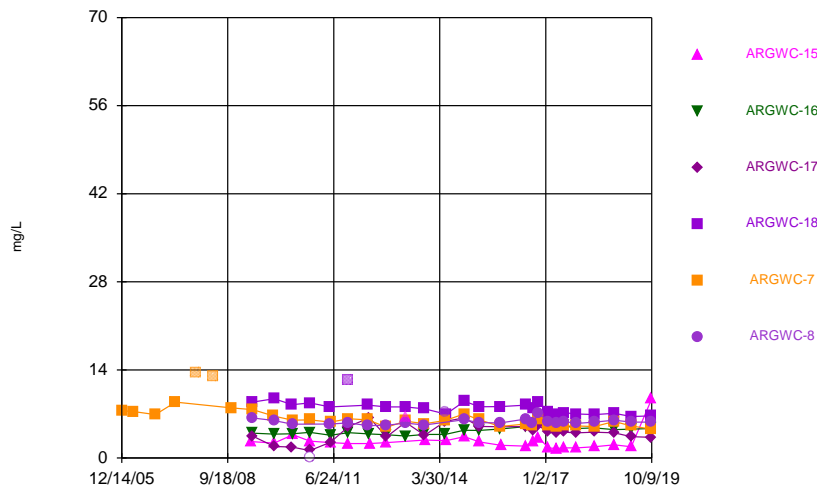
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Time Series



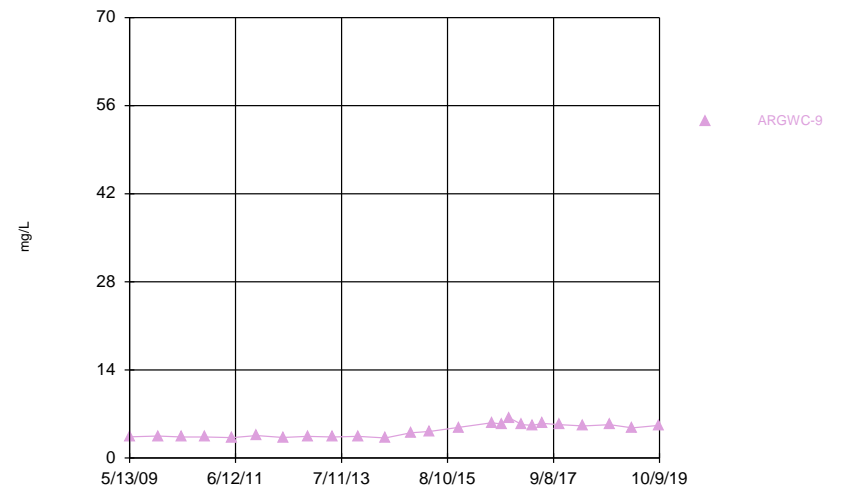
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Time Series



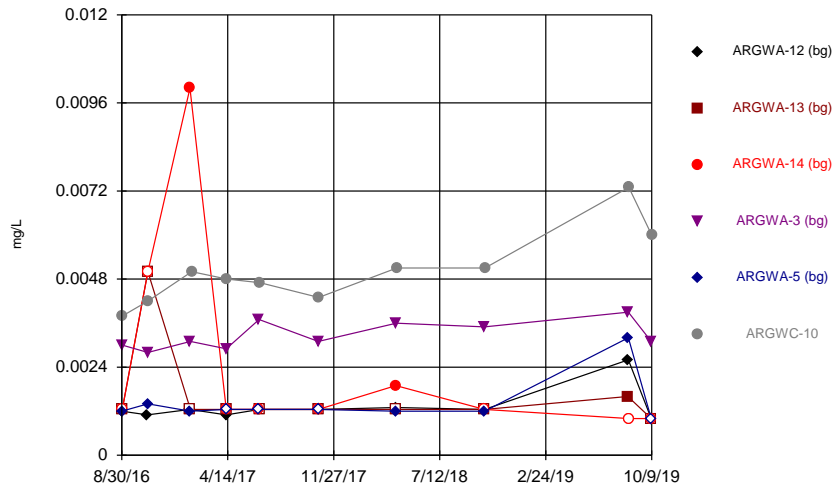
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Time Series



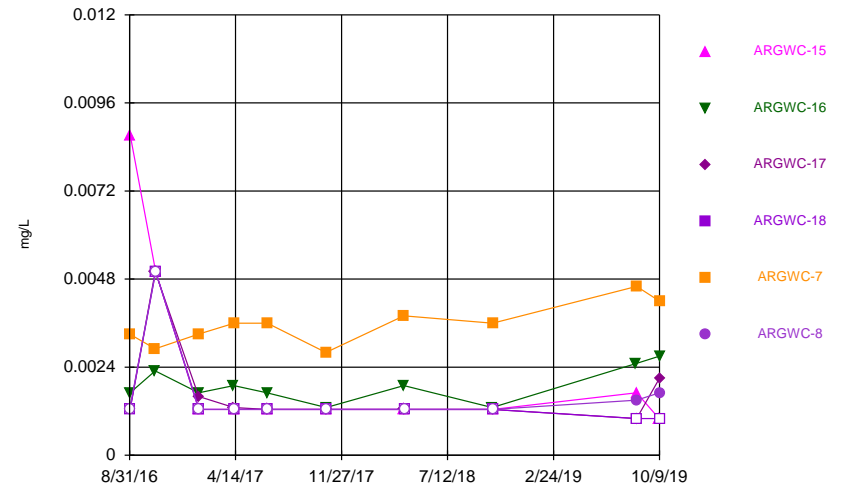
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Time Series



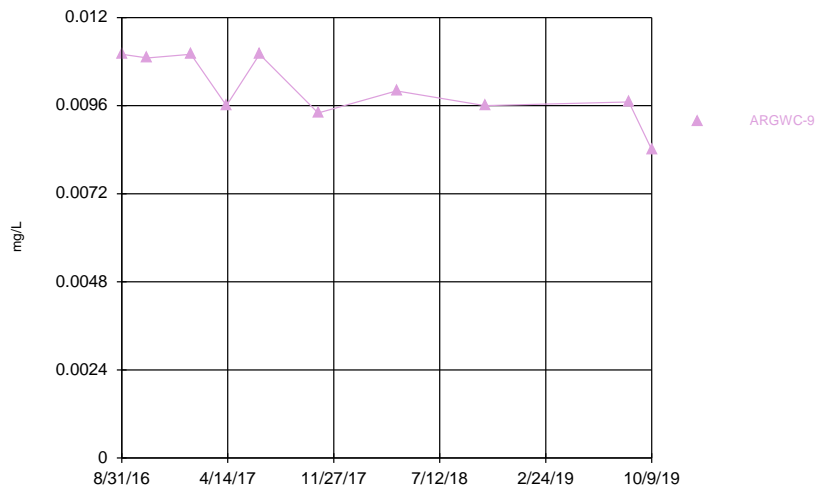
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Time Series



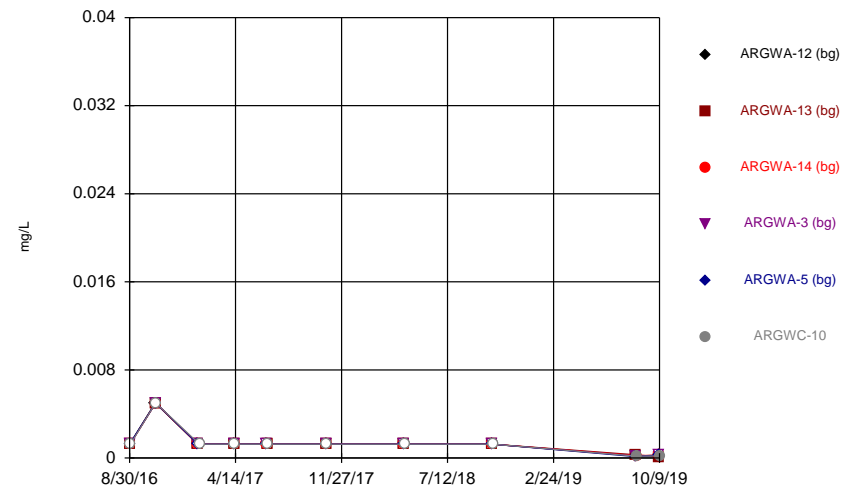
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Time Series



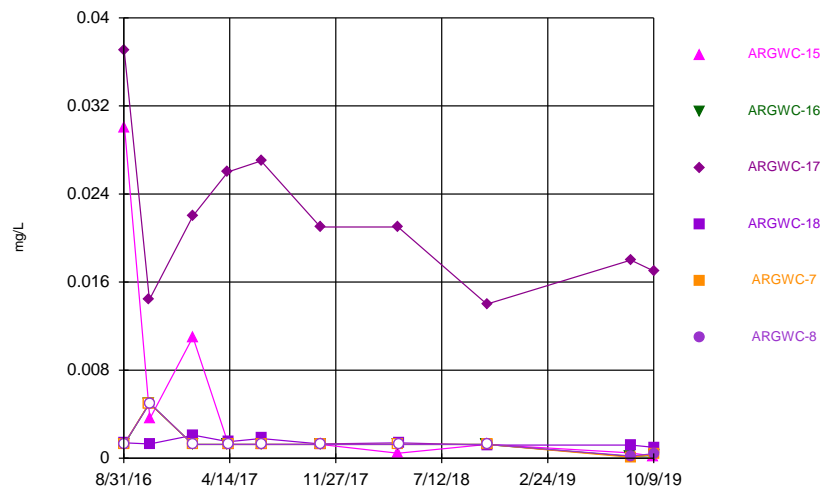
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Time Series



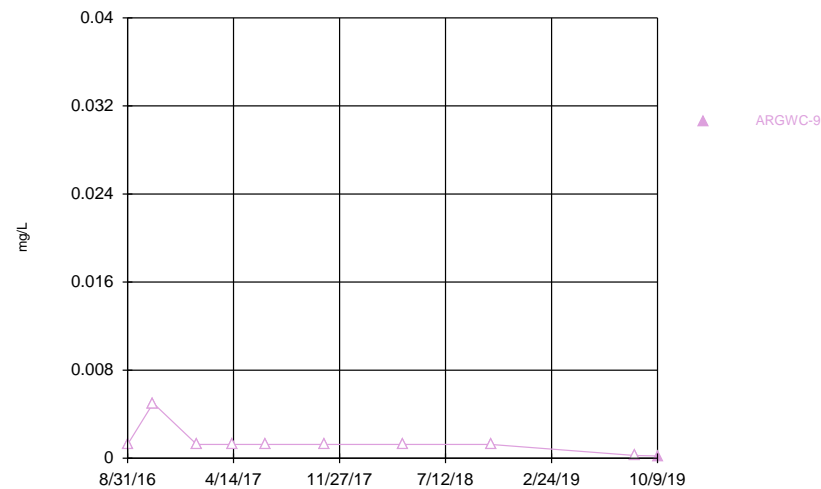
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Time Series



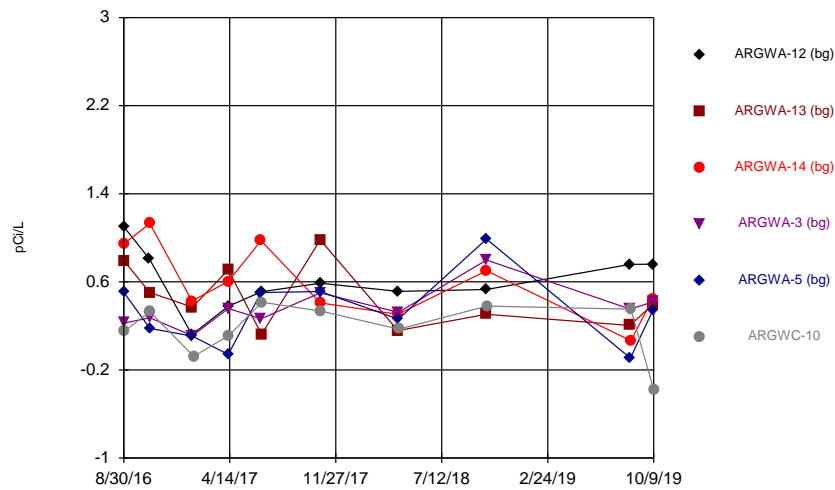
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Time Series



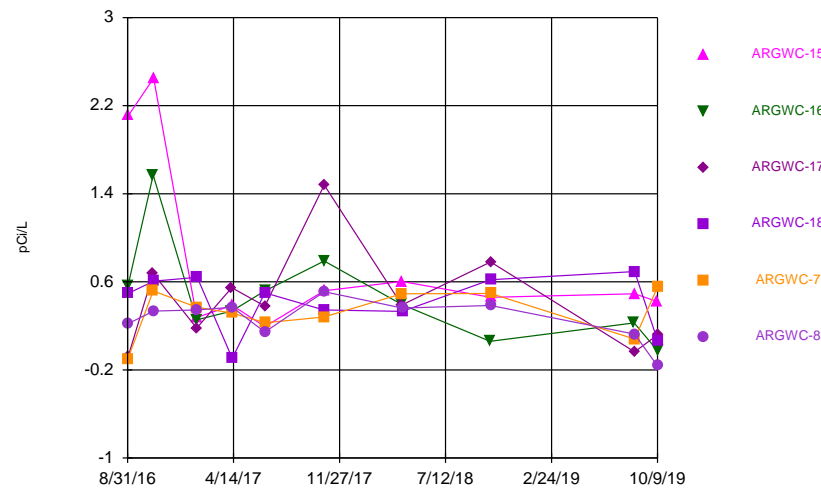
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Time Series



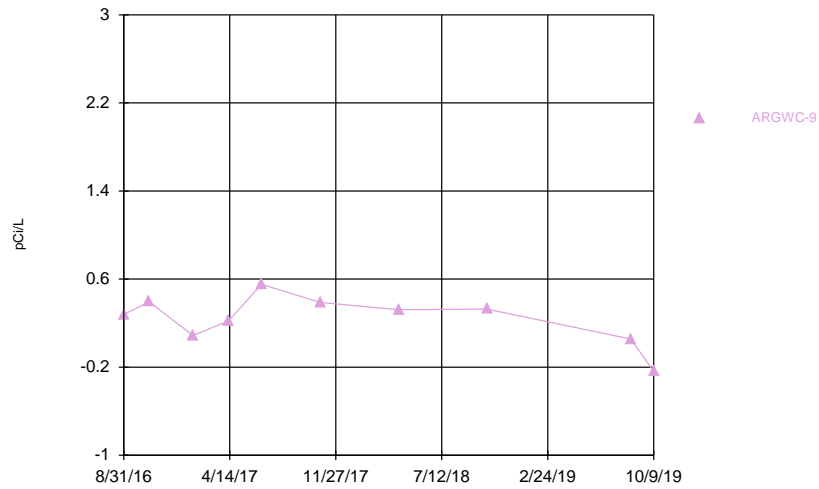
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Plant Arkwright Client: Southern Company Data: Arkwright No 3

Time Series

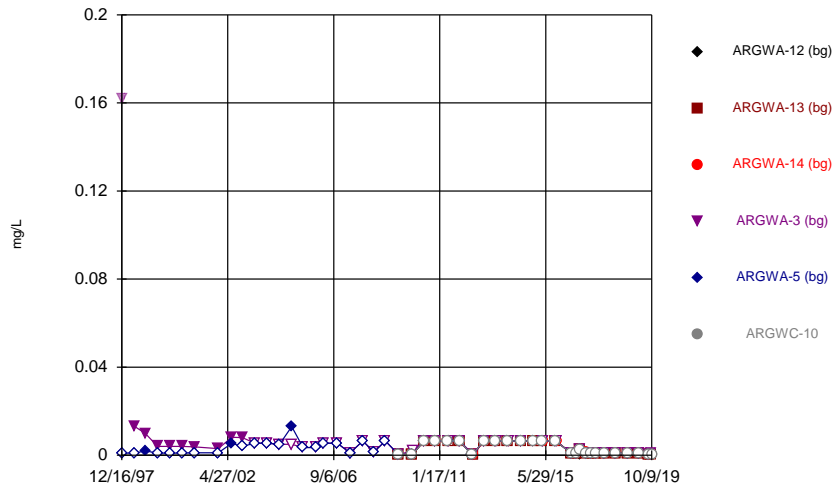


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Plant Arkwright Client: Southern Company Data: Arkwright No 3

Time Series

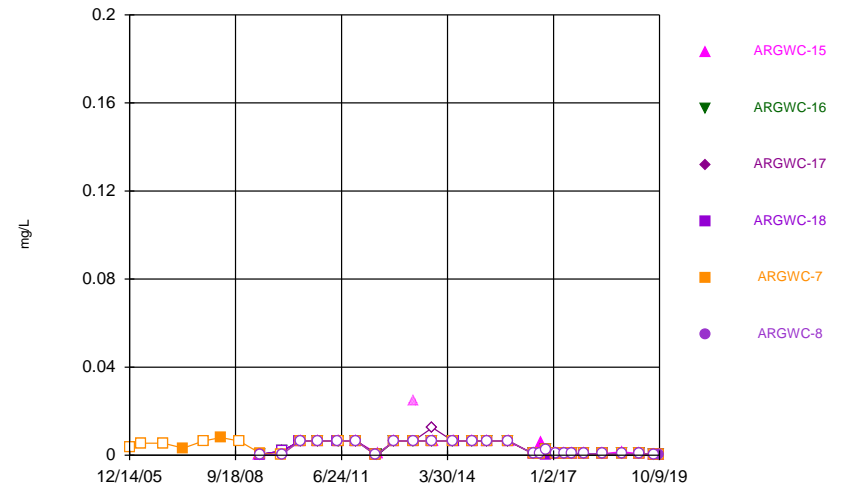


Time Series



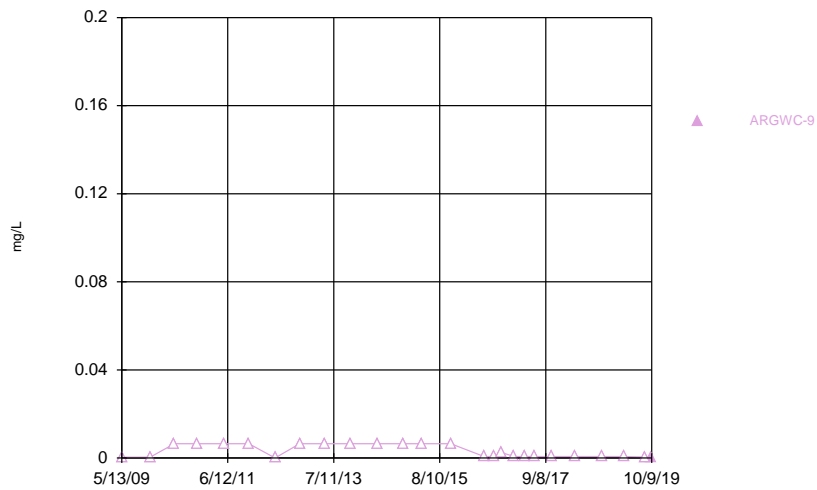
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Time Series



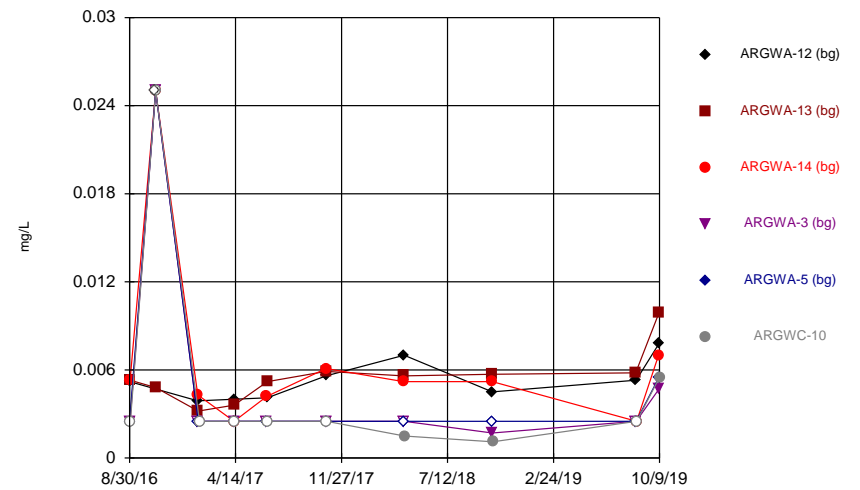
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Time Series



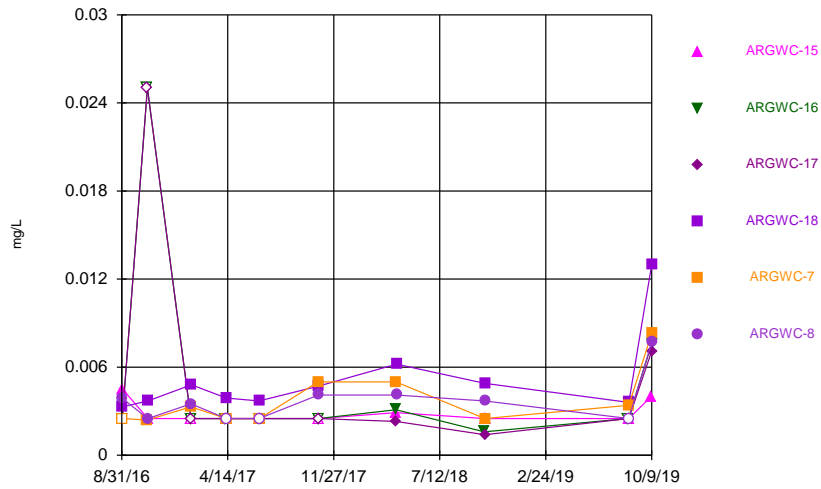
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Time Series



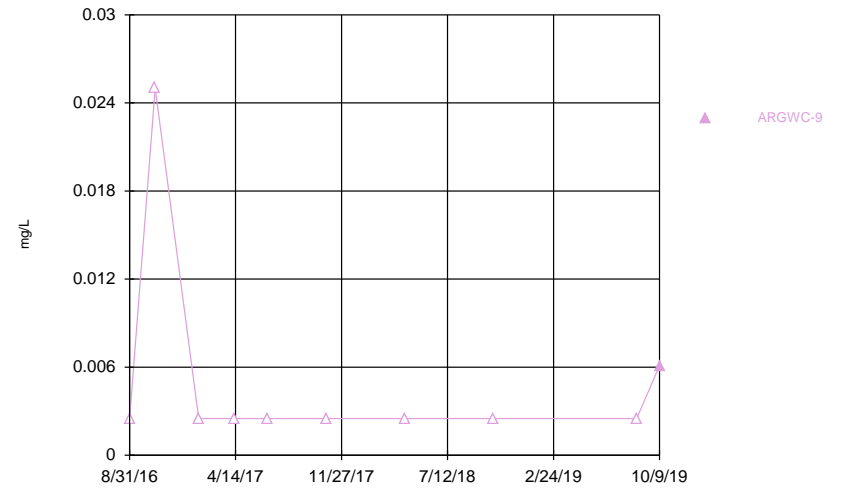
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Time Series



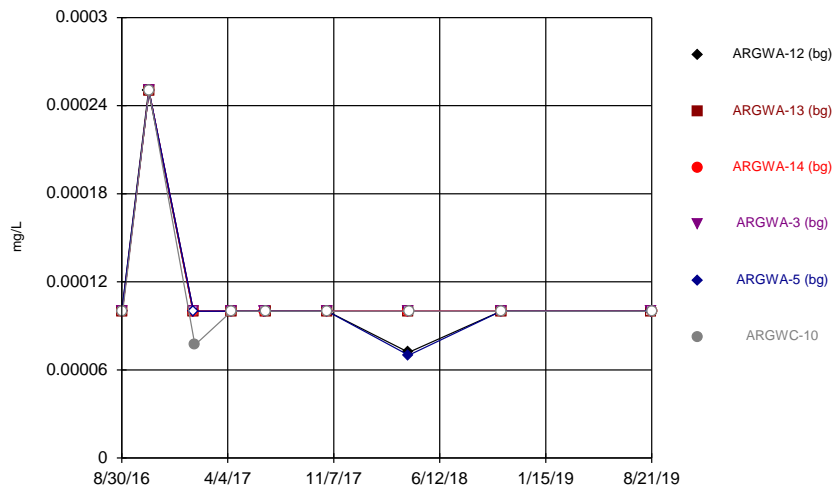
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Time Series



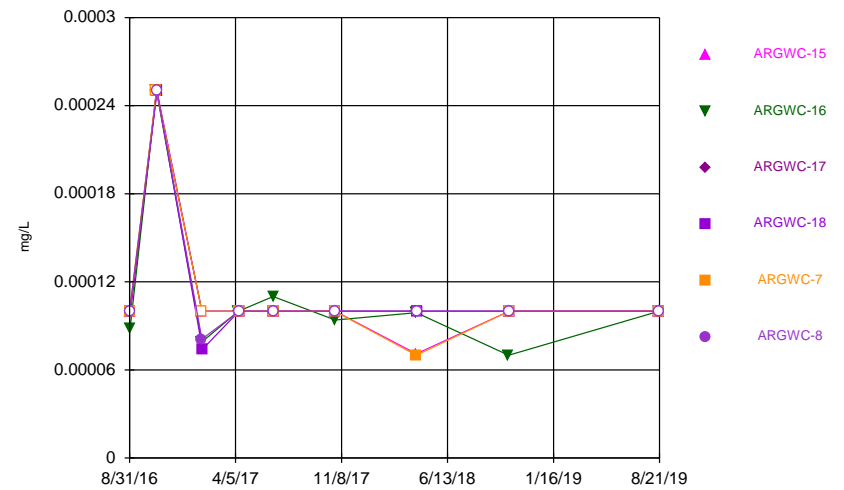
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Time Series



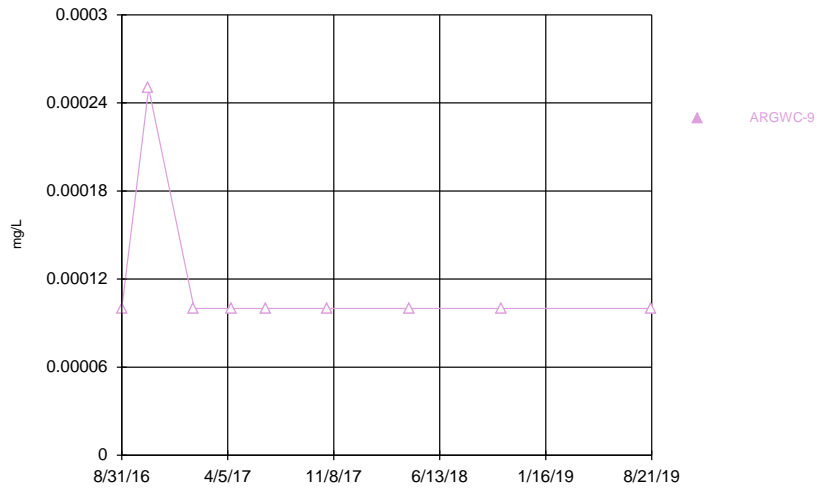
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Time Series



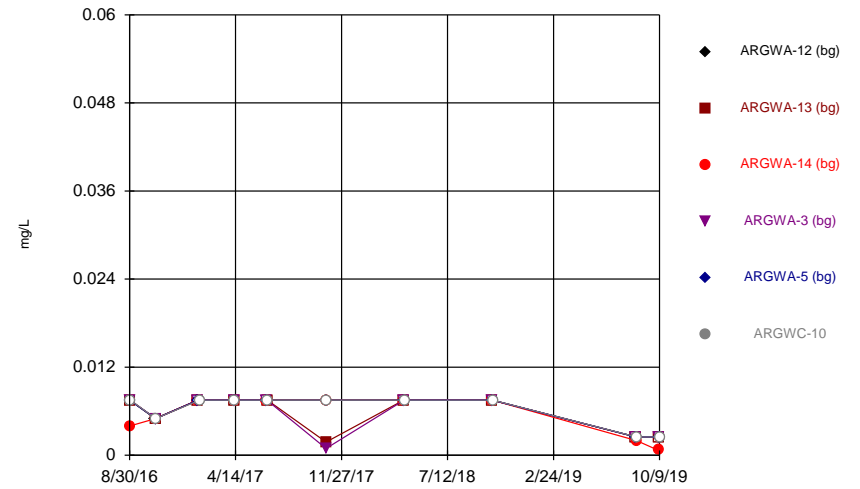
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Time Series



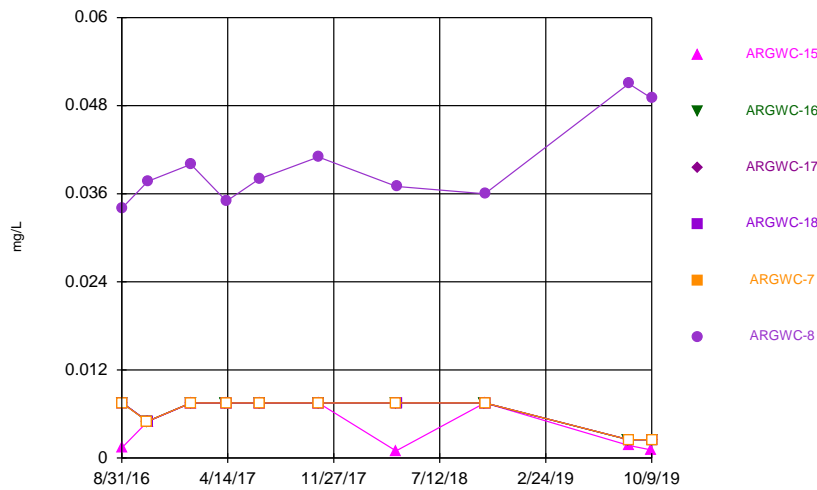
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Time Series



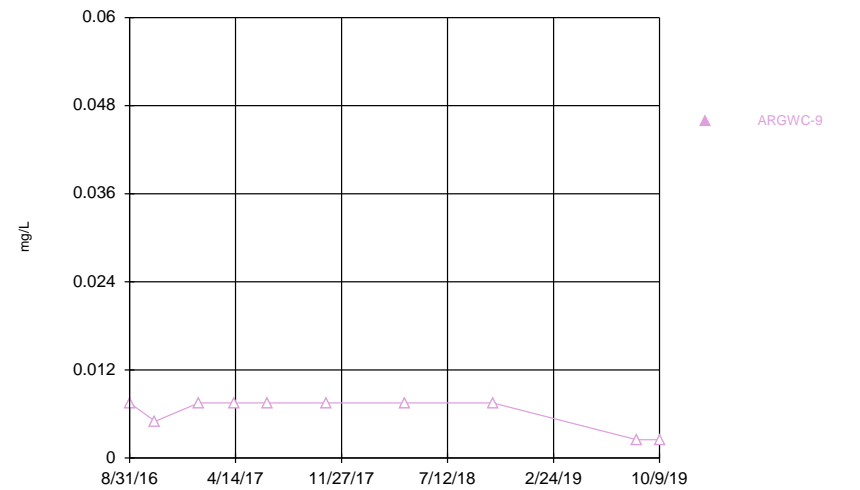
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Plant Arkwright Client: Southern Company Data: Arkwright No 3

Time Series



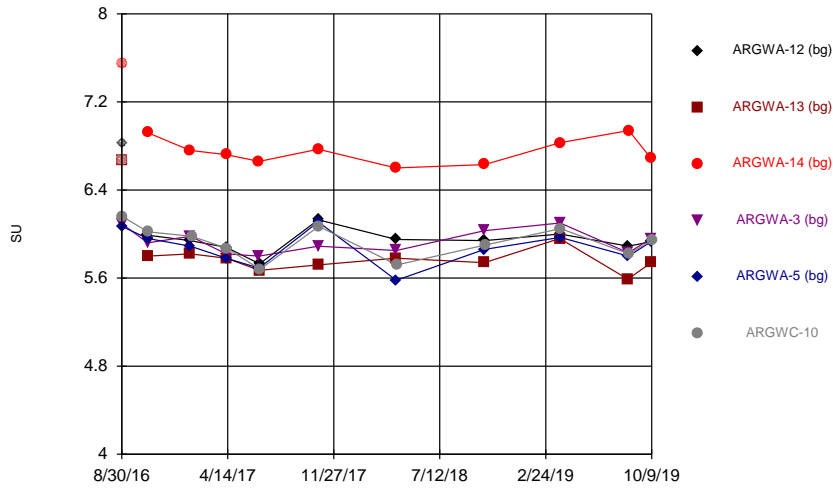
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Time Series



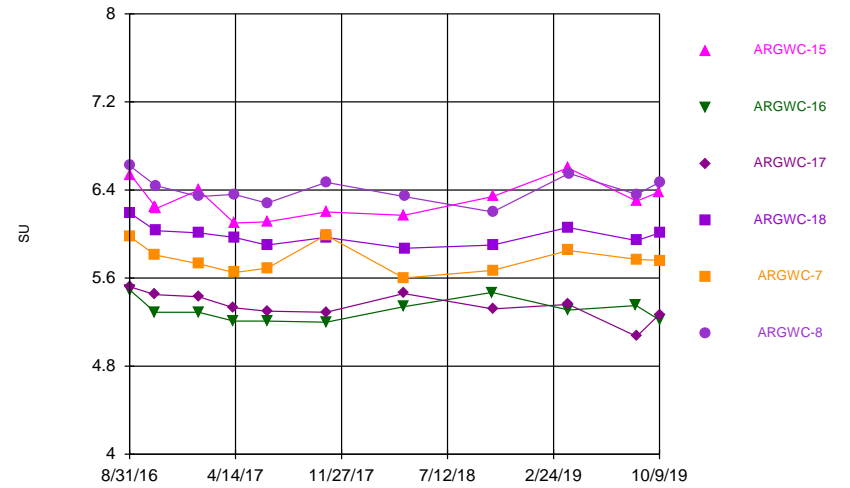
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Time Series



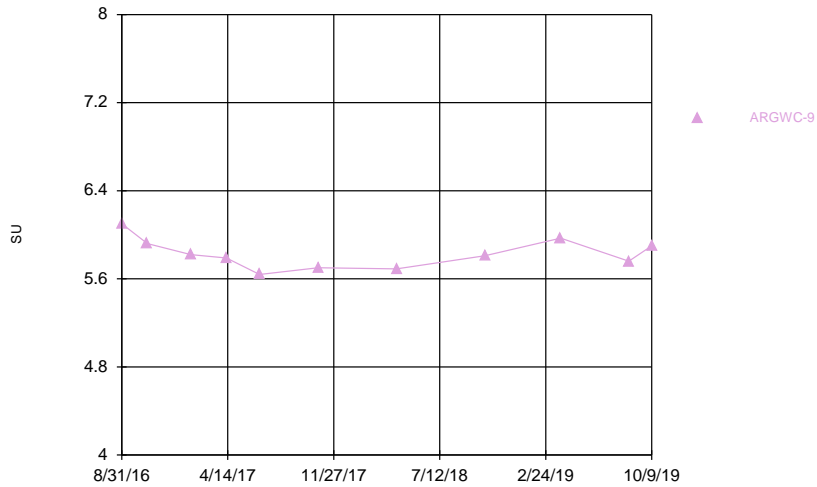
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Time Series



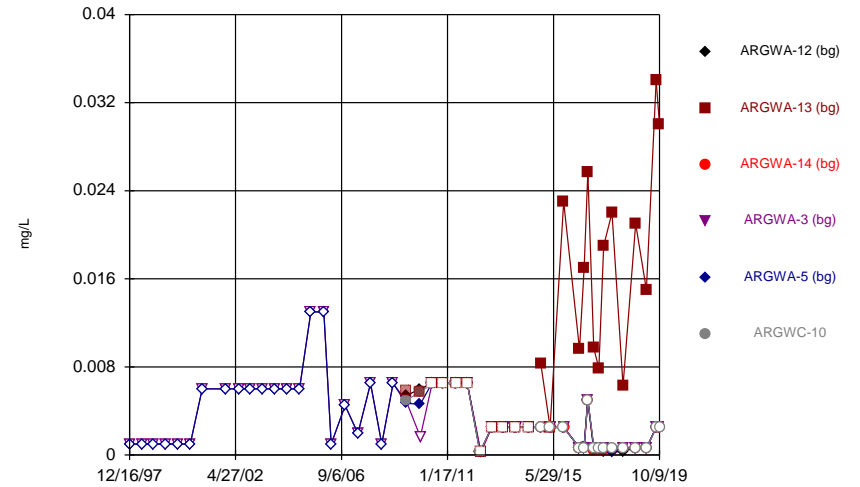
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Time Series



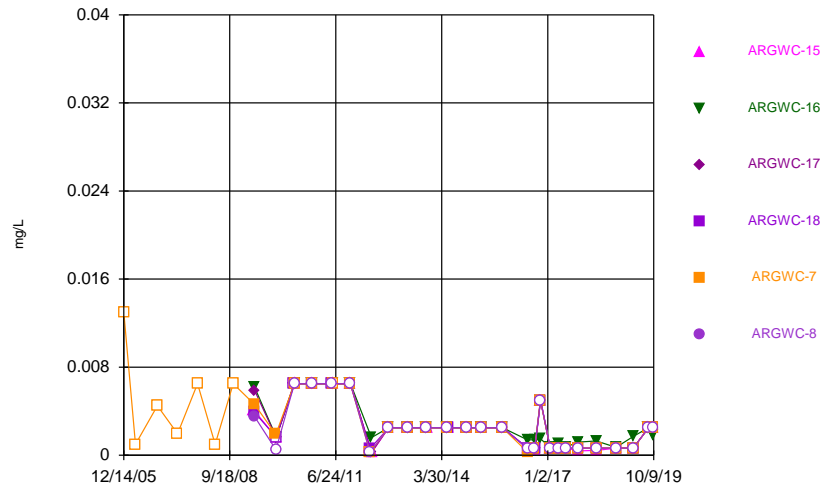
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Time Series



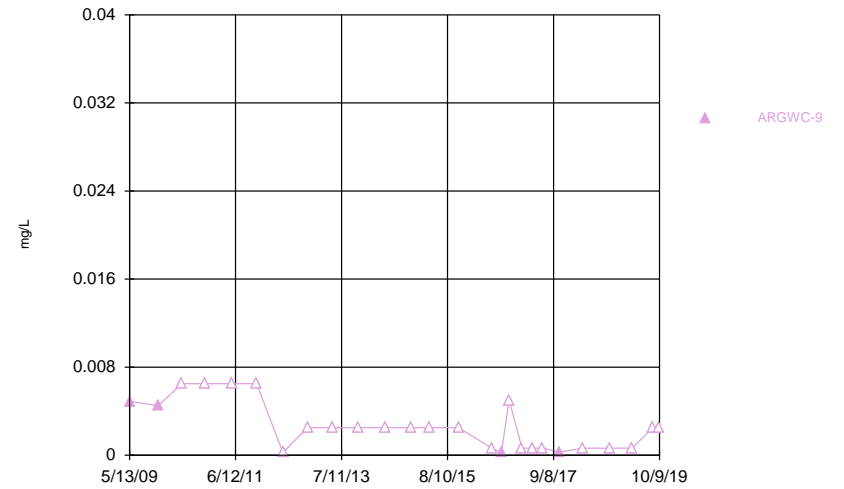
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Time Series



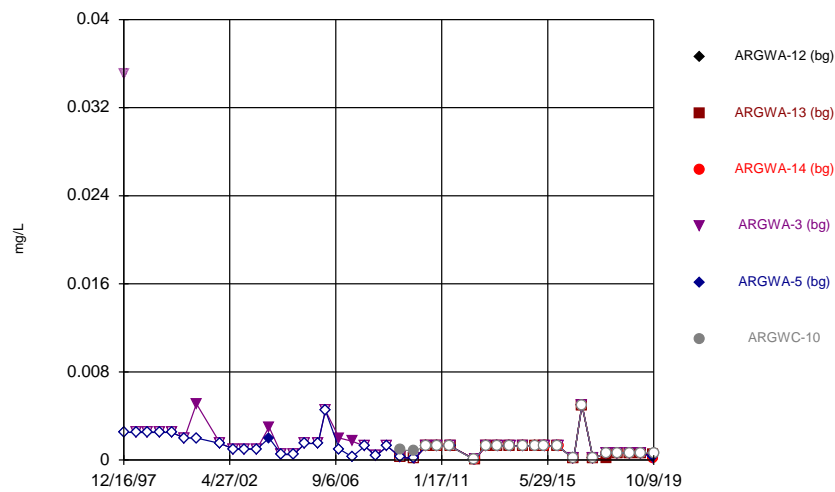
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Time Series



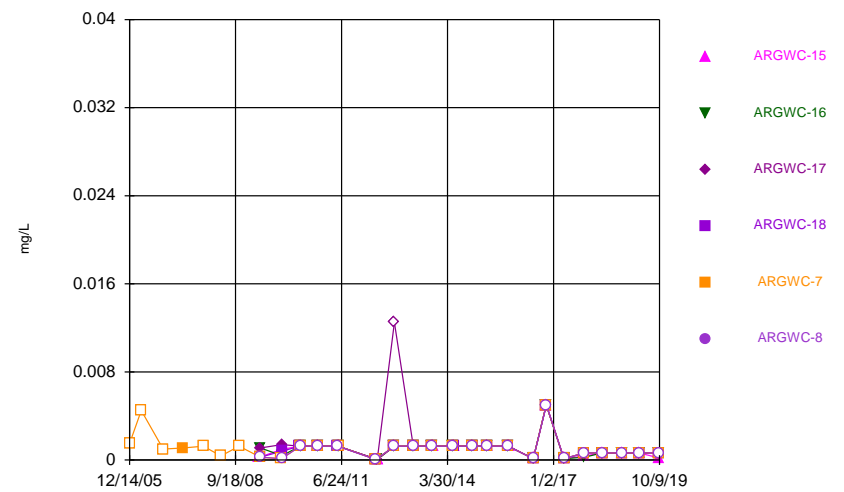
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Time Series



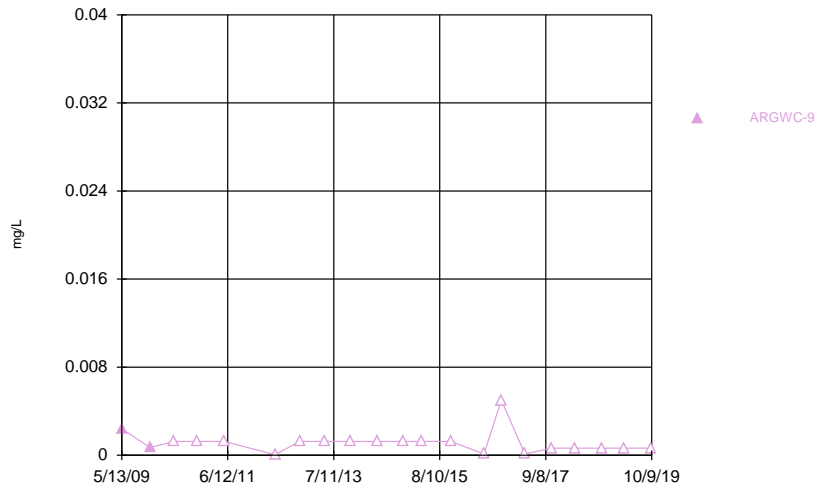
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Plant Arkwright Client: Southern Company Data: Arkwright No 3

Time Series



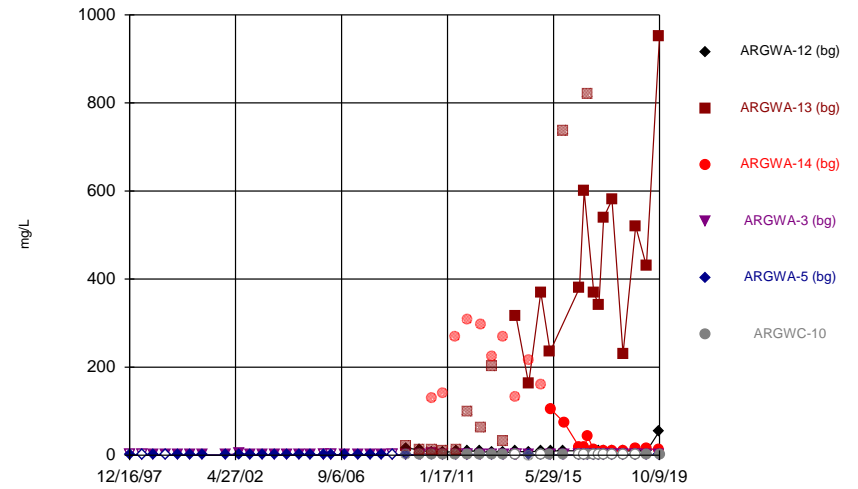
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Time Series



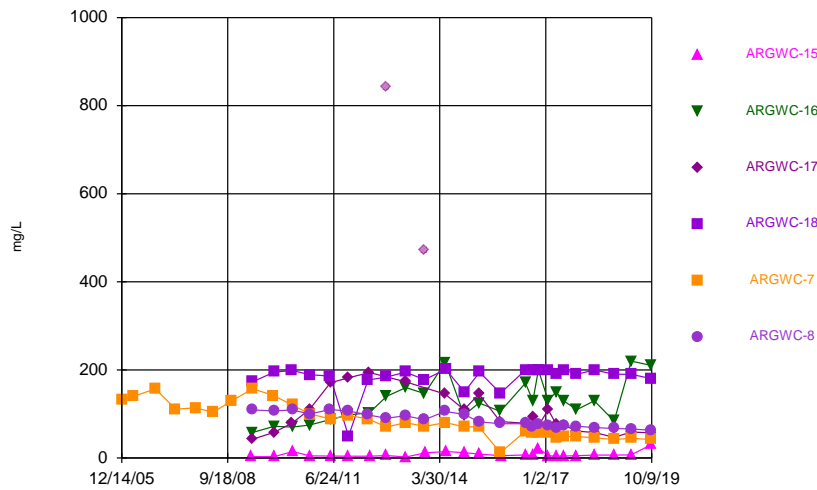
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Time Series



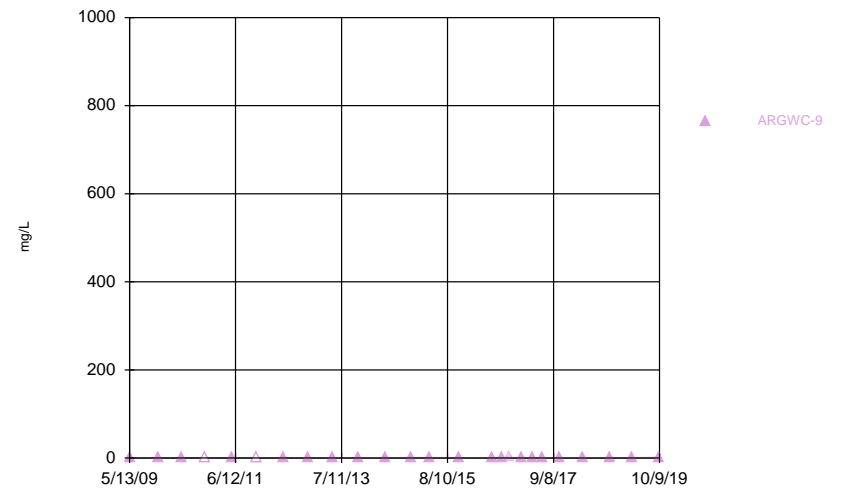
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Time Series



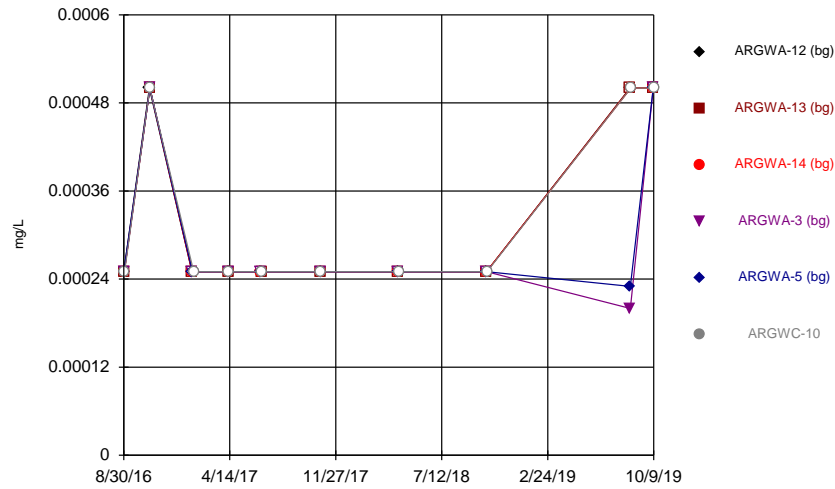
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Time Series



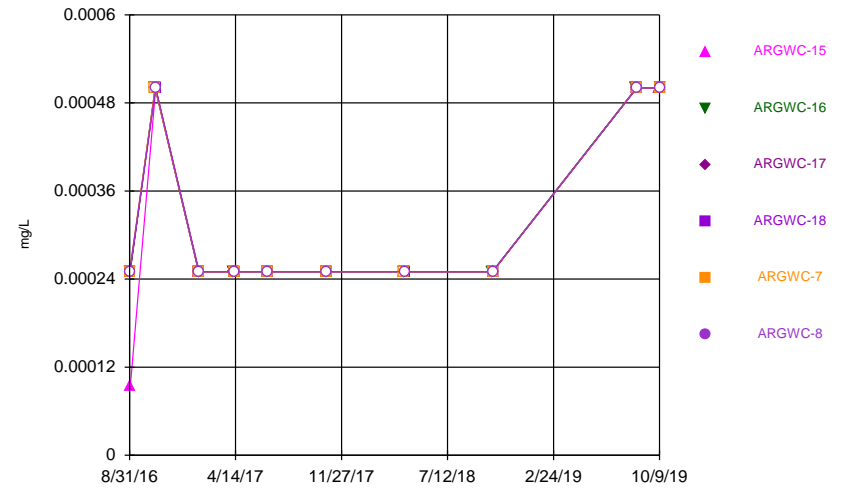
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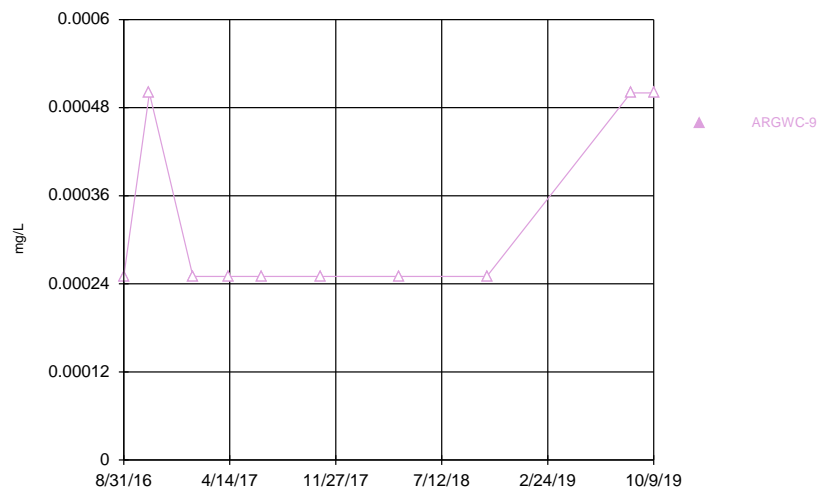
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Time Series



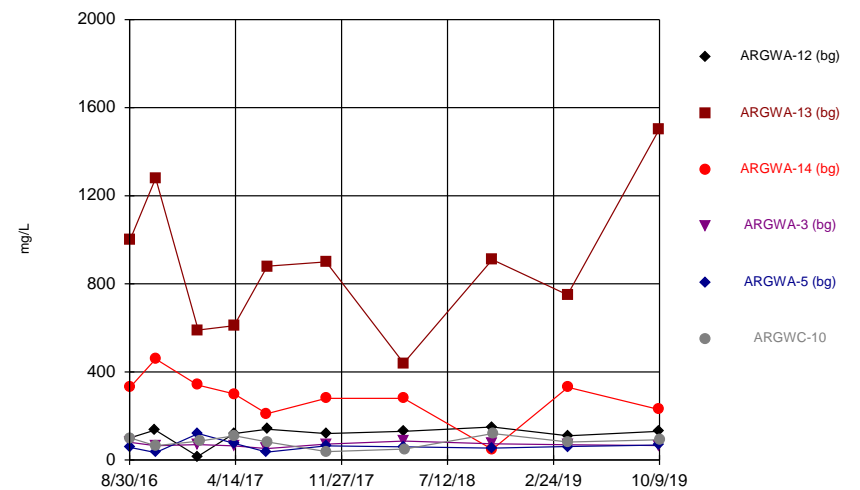
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Time Series



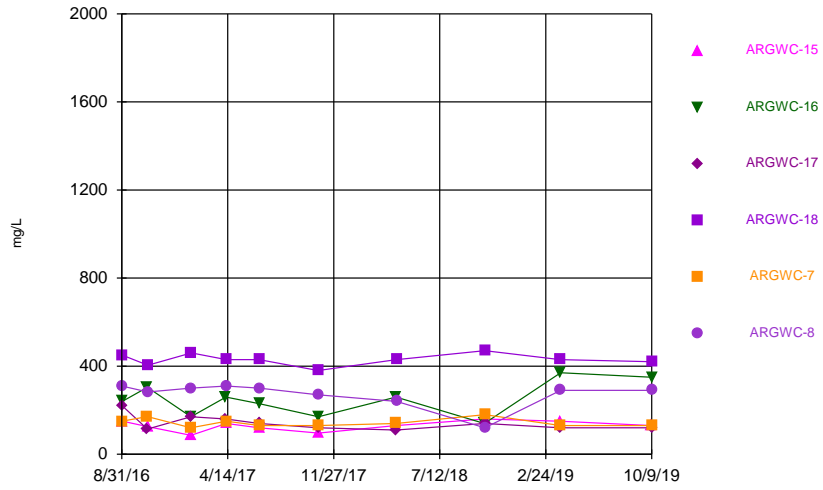
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Time Series



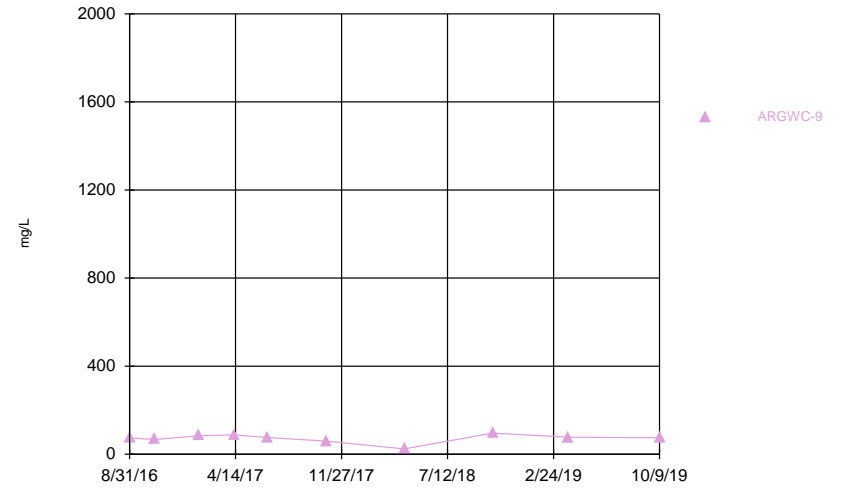
Constituent: Total Dissolved Solids Analysis Run 3/31/2020 10:27 AM View: Confidence Interval
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Time Series



Constituent: Total Dissolved Solids Analysis Run 3/31/2020 10:27 AM View: Confidence Interval
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Time Series



Constituent: Total Dissolved Solids Analysis Run 3/31/2020 10:27 AM View: Confidence Interval
Plant Arkwright Client: Southern Company Data: Arkwright No 3

GROUNDWATER STATS CONSULTING

July 27, 2020

Southern Company Services
Attn: Mr. Joju Abraham
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308-3374

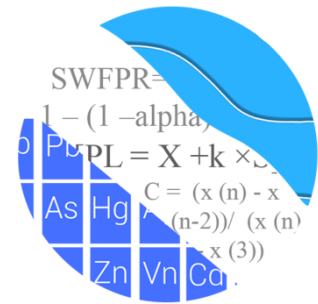
Re: Plant Arkwright #3 Ash Pond
April 2020 Statistical Analysis

Dear Mr. Abraham,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the statistical analysis of groundwater data for the April 2020 sample event for Georgia Power Company's Plant Arkwright #3 Landfill. The analysis complies with the Georgia Environmental Protection Division Rules for Solid Waste Management Chapter 391-3-4-.10 and follows the United States Environmental Protection Agency (USEPA) Unified Guidance (2009).

Semi-annual sampling is conducted for USEPA's CCR Appendix III and IV, parameters in addition to 6 parameters in accordance with the Georgia Department of Natural Resources, Environmental Protection Division groundwater monitoring regulations. The monitoring well network, as provided by Southern Company Services, consists of the following:

- **Upgradient wells:** ARGWA-3, ARGWA-5, ARGWA-12, ARGWA-13, and ARGWA-14
- **Downgradient wells:** ARGWC-7, ARGWC-8, ARGWC-9, ARGWC-10, ARGWC-15, ARGWC-16, ARGWC-17, and ARGWC-18



Data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was reviewed by Kristina Rayner, Groundwater Statistician and Founder of Groundwater Stats Consulting.

The following constituents are evaluated:

- **Georgia Appendix I:** arsenic, barium, cadmium, lead, selenium, and silver
- **CCR Appendix III:** boron, calcium, chloride, fluoride, pH, sulfate, and TDS
- **CCR Appendix IV:** antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, combined radium 226 + 228, fluoride, lithium, lead, mercury, molybdenum, selenium, and thallium

Note that when there are no detections present in downgradient wells for a given constituent, statistical analyses are not required. A summary of well/constituent pairs with 100% nondetects since 2016 follows this letter.

Time series plots for all well/constituent pairs are provided and are particularly useful for screening parameters detected in downgradient wells which require statistical analyses (Figure A). Additionally, a separate section of box plots is included for all constituents at upgradient and downgradient wells (Figure B). The time series plots are used to initially screen for suspected outliers and trends, while the box plots provide visual representation of variation within individual wells and between all wells. Values in background which have been flagged as outliers may be seen in a lighter font and as a disconnected symbol on the graphs. A summary of flagged outliers follows this report (Figure C).

Based on the previous screenings, data at all wells for constituents detected in downgradient wells were evaluated for the following: 1) outliers; 2) trends; 3) most appropriate statistical method based on site characteristics of groundwater data upgradient of the facility; and 4) eligibility of downgradient wells when intrawell statistical methods are recommended. Power curves were provided with the screening report to demonstrate that the selected statistical methods for the parameters listed above comply with the USEPA Unified Guidance and the Georgia Environmental Protection Division Rules for Solid Waste Management Chapter 391-3-4-.10. The EPA suggests the selected statistical method should provide at least 55% power at 3 standard deviations or at least 80% power at 4 standard deviations. Power curves were based on the following:

Georgia Appendix I Constituents:

- Semi-Annual Sampling
- Interwell Prediction Limits with 1-of-2 resample plan (all parameters)
- # Constituents: 6
- # Downgradient wells: 8

CCR Appendix III Constituents:

- Semi-Annual Sampling
- Interwell Prediction Limits with 1-of-2 resample plan – (all parameters)
- # Constituents: 7
- # Downgradient wells: 8

Parametric prediction limits are utilized when the screened historical data follow a normal or transformed-normal distribution. When data cannot be normalized or the majority of data are nondetects, a nonparametric test is utilized. While the false positive rate associated with the parametric limits is based on an annual 10% (5% per semi-annual event) as recommended by the EPA Unified Guidance (2009), the false positive rate associated with the nonparametric limits is dependent upon the available background sample size, number of future comparisons, and verification resample plan. The distribution of data is tested using the Shapiro-Wilk/Shapiro-Francia test for normality. After testing for normality and performing any adjustments as discussed below (US EPA, 2009) data are analyzed using either parametric or non-parametric prediction limits.

- No statistical analyses are required on wells and analytes containing 100% nondetects (USEPA Unified Guidance, 2009, Chapter 6).
- When data contain <15% nondetects in background, simple substitution of one-half the reporting limit is utilized in the statistical analysis. The reporting limit utilized for nondetects is the practical quantification limit (PQL) as reported by the laboratory.
- When data contain between 15-50% nondetects, the Kaplan-Meier nondetect adjustment is applied to the background data. This technique adjusts the mean and standard deviation of the historical concentrations to account for concentrations below the reporting limit.
- Nonparametric prediction limits are used on data containing greater than 50% nondetects.

Natural systems continuously evolve due to physical changes made to the environment. Examples include capping a landfill, paving areas near a well, or lining a drainage channel

to prevent erosion. Periodic updating of background statistical limits is necessary to accommodate these types of changes. In the interwell case, prediction limits are updated with upgradient well data during each event after careful screening for any new outliers. In some cases, the earlier portion of data are deselected prior to construction of limits to provide sensitive limits that will rapidly detect changes in groundwater quality. Even though the data are excluded from the calculation, the values will continue to be reported and shown in tables and graphs.

Summary of Background Screening (Conducted in 2019)

Outliers

Time series plots are used to identify suspected outliers, or extreme values that would result in limits that are not representative of the current background data population. Suspected outliers at all wells and parameters are formally tested using Tukey's box plot method and, when identified, flagged in the computer database with "o" and deselected prior to construction of statistical limits. Several values were flagged as outliers as a result of the Tukey's tests. In some cases, high values not identified by this test were flagged as outliers so that resulting prediction limits will be lower and capable of detecting future changes at these wells. Only the highest values for chloride in upgradient wells ARGWA-12 and ARGWA-14 were flagged as outliers. All remaining reported concentrations were similar to at least one neighboring upgradient well. While selenium and sulfate concentrations are highest in upgradient well ARGWA-13, none of the reported values were flagged as outliers as these data are assumed to represent groundwater quality upgradient of the facility.

A summary of flagged values is included in Figure C. For information purposes, when the most recent values are identified as outliers, values are not flagged in the database at this time (except in cases where they would cause background limits to be elevated) as they may represent a possible trend. If future values do not remain at similar concentrations, these values will be flagged as outliers and deselected. Several low values exist in the data sets and appear on the graphs as possible low outliers relative to the laboratory's Practical Quantitation Limit. However, these values are observed trace values (i.e. measurements reported by the laboratory between the Method Detection Limit and the Practical Quantitation Limit) and, therefore, were not flagged as outliers. Due to changing reporting limits, when nondetects are replaced with the most recent reporting limit, previously flagged "J" values (or estimated values) are sometimes flagged as outliers if they are much higher than current reporting limits.

Additionally, when any values are flagged in the database as outliers, they are plotted in a disconnected and lighter symbol on the time series graph. The accompanying data pages display the flagged value in a lighter font as well. A substitution of the most recent reporting limit was applied when varying detection limits existed in data.

Seasonality

No obvious seasonal patterns were observed on the time series plots for any of the detected data; therefore, no deseasonalizing adjustments were made to the data. When seasonal patterns are observed, data may be deseasonalized so that the resulting limits will correctly account for the seasonality as a predictable pattern rather than random variation or a release.

Trends

While trends may be identified by visual inspection, a quantification of the trend and its significance is needed. The Sen's Slope/Mann Kendall trend test, which tests for statistically significant increasing or decreasing trends, was used to evaluate data at all upgradient wells and downgradient wells with detections.

In the absence of suspected contamination, significant trending data are typically not included as part of the background data used for construction of prediction limits. This step serves to eliminate the trend and, thus, reduce variation in background. When statistically significant decreasing trends are present, all available data are evaluated to determine whether earlier concentration levels are significantly different from current reported concentrations and will be deselected as necessary. When any records of data are truncated for the reasons above, a summary report will be provided to show the date ranges used in construction of the statistical limits.

Several statistically significant increasing and decreasing trends were noted for constituents in both upgradient and downgradient wells and the results of these trend tests were included with the previous screening. With one exception, no adjustments were required to these records as the magnitudes of the trends are low relative to the average concentrations at these wells. The exception is selenium at upgradient well ARGWA-13 which has higher reported values since 2014 than those previously reported. Because this is an upgradient well, this suggests groundwater concentrations are naturally changing unrelated to the landfill. Therefore, the earlier portion of the record is truncated so that resulting all analyses of this well, including prediction limits, will be representative of present-day conditions in this upgradient well. Truncated data are shown in a lighter font

on the data pages this report. Adjusted date ranges are presented in the Date Range Table.

Additionally, in all cases it was noted that at least one upgradient well had higher concentrations than those observed in any of the downgradient wells which further suggests natural spatial variation.

Determination of Spatial Variation

The Analysis of Variance (ANOVA) was used to statistically evaluate differences in average concentrations among upgradient wells for constituents detected in downgradient wells. The ANOVA assists in identifying the most appropriate statistical approach. Interwell tests, which compare downgradient well data to statistical limits constructed from pooled upgradient well data, are appropriate when average concentrations are similar across upgradient wells. Intrawell tests, which compare compliance data from a single well to screened historical data within the same well, are appropriate when upgradient wells exhibit spatial variation; when statistical limits constructed from upgradient wells are not representative of the current background data population; and when downgradient water quality is unimpacted compared to upgradient water quality for the same parameter.

The ANOVA identified significant differences among upgradient well data for several constituents. While data were further tested for intrawell eligibility during the screening, interwell methods will be used for all Appendix I and Appendix III constituents in accordance with Georgia EPD requirements.

Statistical Limits Appendix I Metals & Appendix III Parameters – April 2020

Interwell prediction limits, combined with a 1-of-2 resample plan, were constructed using all historical upgradient well data through April 2020 for Appendix I metals and Appendix III constituents (Figures D & E, respectively). Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent. The most recent sample from each downgradient well is compared to the background limit to determine whether there are statistically significant increases (SSIs).

In the event of an initial exceedance of compliance well data, the 1-of-2 resample plan allows for collection of one additional sample to determine whether the initial exceedance is confirmed. When a resample confirms the initial exceedance, a statistically significant increase is identified and further research would be required to identify the cause of the exceedance (i.e. impact from the site, natural variation, or an off-site source). If the resample falls within the statistical limit, the initial exceedance is considered to be a false

positive result and, therefore, no exceedance is noted and no further action is necessary. If no resample is collected, the original result is considered a confirmed exceedance. A summary table of the interwell prediction limits follows this letter. The following exceedances were noted for Appendix I metals and Appendix III well/constituent pairs:

Appendix I metals:

- Lead: ARGWC-10

Appendix III constituents:

- Boron: ARGWC-8 and ARGWC-18
- pH: ARGWC-16 and ARGWC-17

When prediction limit exceedances are identified in downgradient wells, data are further evaluated using the Sen's Slope/Mann Kendall trend test to determine whether concentrations are statistically increasing, decreasing, or stable (Figure F). Upgradient wells are included in the trend analyses for all parameters found to exceed their prediction limit in downgradient wells to identify whether similar patterns exist upgradient of the site which is an indication of natural variability in groundwater unrelated to practices at the site. No statistically significant increasing trends were noted. The following statistically significant trends were identified:

Decreasing trends:

- pH: ARGWC-17
- Lead: ARGWA-3 (upgradient) and ARGWA-5 (upgradient)

Note that the Sen Slopes for lead are calculated as zero due to a large number of nondetects. The fewer detected values are often above the reporting limit. It is possible to have a statistically significant trend due to a few detected values even when the Sen Slope is zero. A summary of the trend test results follows this letter.

Statistical Analysis of Appendix I Metals & Appendix IV Parameters – April 2020

Interwell tolerance limits were used to calculate the site-specific background limits from pooled upgradient well data for Appendix I metals and Appendix IV constituents (Figure G). Parametric tolerance limits are used when data follow a normal or transformed-normal distribution such as for combined radium 226 + 228. When data contained greater than 50% nondetects or did not follow a normal or transformed-normal distribution, non-parametric tolerance limits were used. The background limits were then

used when determining the groundwater protection standard (GWPS) under 40 CFR §257.95(h) and Georgia EPD Rule 391-3-4-.10(6)(a).

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

- The maximum contaminant level (MCL) established under §141.62 and §141.66 of this title
- Where an MCL has not been established for a constituent, CCR-rule specified level (RSLs) have been specified for cobalt (0.006 mg/L), lead (0.015 mg/L), lithium (0.040 mg/L), and molybdenum (0.100 mg/L)
- The respective background level for a constituent when the background level is higher than the MCL or Federal CCR Rule identified GWPS

On July 30, 2018, USEPA revised the Federal CCR rule updating GWPS for cobalt, lead, lithium, and molybdenum as described above in 40 CFR §257.95(h)(2). Georgia EPD has not incorporated the updated GWPS into the current Georgia EPD Rules for Solid Waste Management 391-3-4-.10(6)(a); therefore, for sites regulated under Georgia EPD Rules, the GWPS is:

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

Following the above Georgia EPD Rule requirements, GWPS were established for statistical comparison of Appendix I metals and Appendix IV constituents for the April 2020 sample event for the federal and state rules (Figures H and I, respectively). To complete the statistical comparison to GWPS, confidence intervals were constructed using data from 2016 to the present for each of the Appendix I metals and Appendix IV constituents in accordance with the federal and state requirements in each downgradient well (Figures J and K, respectively). The Sanitas software was used to calculate the tolerance limits and the confidence intervals. Those confidence intervals were compared to the GWPS established using the CCR Rules for the federal requirements and the Georgia EPD Rules 391-3-4-.10(6)(a) for the State requirements. Only when the entire confidence interval is above a GWPS is the downgradient well/constituent pair considered to exceed its respective standard. If there is an exceedance of the GWPS, a statistically significant level (SSL) exceedance is identified. Summaries of the confidence intervals follow this letter.

Exceedances were noted for the following well/constituent pairs:

Federal:

- Cobalt: ARGWC-17

State:

- Cobalt: ARGWC-17
- Molybdenum: ARGWC-8

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for Plant Arkwright #3 Landfill. If you have any questions or comments, please feel free to contact us.

For Groundwater Stats Consulting,



Andrew Collins
Groundwater Analyst



Kristina Rayner
Groundwater Statistician

100% Nondetect Well-Constituent Pairs

Date: 6/8/2020 9:58 AM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

Antimony (mg/L)

ARGWA-12, ARGWA-13, ARGWA-3, ARGWA-5, ARGWC-15, ARGWC-16, ARGWC-17, ARGWC-18, ARGWC-8

Beryllium (mg/L)

ARGWA-12, ARGWA-13, ARGWA-14, ARGWC-10, ARGWC-15

Cadmium (mg/L)

ARGWA-12, ARGWA-13, ARGWA-5, ARGWC-10, ARGWC-15, ARGWC-18, ARGWC-7, ARGWC-8, ARGWC-9

Chromium (mg/L)

ARGWC-18

Lead (mg/L)

ARGWC-16, ARGWC-17, ARGWC-7

Mercury (mg/L)

ARGWA-13, ARGWA-14, ARGWC-17, ARGWC-9

Molybdenum (mg/L)

ARGWA-12, ARGWA-5, ARGWC-10, ARGWC-16, ARGWC-17, ARGWC-18, ARGWC-7, ARGWC-9

Selenium (mg/L)

ARGWC-10, ARGWC-17, ARGWC-18, ARGWC-8

Silver (mg/L)

ARGWA-12, ARGWC-10, ARGWC-17, ARGWC-18, ARGWC-7, ARGWC-8, ARGWC-9

Thallium (mg/L)

ARGWA-12, ARGWA-13, ARGWA-14, ARGWC-10, ARGWC-16, ARGWC-17, ARGWC-18, ARGWC-7, ARGWC-8, ARGWC-9

Date Ranges

Date: 6/8/2020 8:32 AM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

Selenium (mg/L)

ARGWA-13 overall:11/18/2014-4/9/2020

Appendix III Interwell Prediction Limits - Significant Results

Plant Arkwright Client: Southern Company Data: Arkwright No 3 Printed 6/8/2020, 8:23 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	ARGWC-18	0.68	n/a	4/9/2020	2.3	Yes	55	n/a	n/a	45.45	n/a	n/a	0.000627	NP Inter (normality) 1 of 2
Boron (mg/L)	ARGWC-8	0.68	n/a	4/9/2020	1.1	Yes	55	n/a	n/a	45.45	n/a	n/a	0.000627	NP Inter (normality) 1 of 2
pH (SU)	ARGWC-16	6.9	5.6	4/8/2020	5.07	Yes	57	n/a	n/a	0	n/a	n/a	0.001168	NP Inter (normality) 1 of 2
pH (SU)	ARGWC-17	6.9	5.6	4/8/2020	5.02	Yes	57	n/a	n/a	0	n/a	n/a	0.001168	NP Inter (normality) 1 of 2

Appendix III Interwell Prediction Limits - All Results

Plant Arkwright Client: Southern Company Data: Arkwright No 3 Printed 6/8/2020, 8:23 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	ARGWC-10	0.68	n/a	4/8/2020	0.08ND	No	55	n/a	n/a	45.45	n/a	n/a	0.000627	NP Inter (normality) 1 of 2
Boron (mg/L)	ARGWC-15	0.68	n/a	4/8/2020	0.08ND	No	55	n/a	n/a	45.45	n/a	n/a	0.000627	NP Inter (normality) 1 of 2
Boron (mg/L)	ARGWC-16	0.68	n/a	4/8/2020	0.059	No	55	n/a	n/a	45.45	n/a	n/a	0.000627	NP Inter (normality) 1 of 2
Boron (mg/L)	ARGWC-17	0.68	n/a	4/8/2020	0.08ND	No	55	n/a	n/a	45.45	n/a	n/a	0.000627	NP Inter (normality) 1 of 2
Boron (mg/L)	ARGWC-18	0.68	n/a	4/9/2020	2.3	Yes	55	n/a	n/a	45.45	n/a	n/a	0.000627	NP Inter (normality) 1 of 2
Boron (mg/L)	ARGWC-7	0.68	n/a	4/8/2020	0.086	No	55	n/a	n/a	45.45	n/a	n/a	0.000627	NP Inter (normality) 1 of 2
Boron (mg/L)	ARGWC-8	0.68	n/a	4/9/2020	1.1	Yes	55	n/a	n/a	45.45	n/a	n/a	0.000627	NP Inter (normality) 1 of 2
Boron (mg/L)	ARGWC-9	0.68	n/a	4/9/2020	0.08ND	No	55	n/a	n/a	45.45	n/a	n/a	0.000627	NP Inter (normality) 1 of 2
Calcium (mg/L)	ARGWC-10	190	n/a	4/8/2020	7.5	No	55	n/a	n/a	0	n/a	n/a	0.000627	NP Inter (normality) 1 of 2
Calcium (mg/L)	ARGWC-15	190	n/a	4/8/2020	21	No	55	n/a	n/a	0	n/a	n/a	0.000627	NP Inter (normality) 1 of 2
Calcium (mg/L)	ARGWC-16	190	n/a	4/8/2020	40	No	55	n/a	n/a	0	n/a	n/a	0.000627	NP Inter (normality) 1 of 2
Calcium (mg/L)	ARGWC-17	190	n/a	4/8/2020	8.3	No	55	n/a	n/a	0	n/a	n/a	0.000627	NP Inter (normality) 1 of 2
Calcium (mg/L)	ARGWC-18	190	n/a	4/9/2020	46	No	55	n/a	n/a	0	n/a	n/a	0.000627	NP Inter (normality) 1 of 2
Calcium (mg/L)	ARGWC-7	190	n/a	4/8/2020	11	No	55	n/a	n/a	0	n/a	n/a	0.000627	NP Inter (normality) 1 of 2
Calcium (mg/L)	ARGWC-8	190	n/a	4/9/2020	47	No	55	n/a	n/a	0	n/a	n/a	0.000627	NP Inter (normality) 1 of 2
Calcium (mg/L)	ARGWC-9	190	n/a	4/9/2020	5.3	No	55	n/a	n/a	0	n/a	n/a	0.000627	NP Inter (normality) 1 of 2
Chloride (mg/L)	ARGWC-10	15	n/a	4/8/2020	3.9	No	163	n/a	n/a	0.6135	n/a	n/a	0.00007409	NP Inter (normality) 1 of 2
Chloride (mg/L)	ARGWC-15	15	n/a	4/8/2020	1.9	No	163	n/a	n/a	0.6135	n/a	n/a	0.00007409	NP Inter (normality) 1 of 2
Chloride (mg/L)	ARGWC-16	15	n/a	4/8/2020	5.1	No	163	n/a	n/a	0.6135	n/a	n/a	0.00007409	NP Inter (normality) 1 of 2
Chloride (mg/L)	ARGWC-17	15	n/a	4/8/2020	3.7	No	163	n/a	n/a	0.6135	n/a	n/a	0.00007409	NP Inter (normality) 1 of 2
Chloride (mg/L)	ARGWC-18	15	n/a	4/9/2020	7.3	No	163	n/a	n/a	0.6135	n/a	n/a	0.00007409	NP Inter (normality) 1 of 2
Chloride (mg/L)	ARGWC-7	15	n/a	4/8/2020	4.4	No	163	n/a	n/a	0.6135	n/a	n/a	0.00007409	NP Inter (normality) 1 of 2
Chloride (mg/L)	ARGWC-8	15	n/a	4/9/2020	7.7	No	163	n/a	n/a	0.6135	n/a	n/a	0.00007409	NP Inter (normality) 1 of 2
Chloride (mg/L)	ARGWC-9	15	n/a	4/9/2020	5.6	No	163	n/a	n/a	0.6135	n/a	n/a	0.00007409	NP Inter (normality) 1 of 2
Fluoride (mg/L)	ARGWC-10	0.53	n/a	4/8/2020	0.071	No	60	n/a	n/a	46.67	n/a	n/a	0.0005192	NP Inter (normality) 1 of 2
Fluoride (mg/L)	ARGWC-15	0.53	n/a	4/8/2020	0.12	No	60	n/a	n/a	46.67	n/a	n/a	0.0005192	NP Inter (normality) 1 of 2
Fluoride (mg/L)	ARGWC-16	0.53	n/a	4/8/2020	0.051	No	60	n/a	n/a	46.67	n/a	n/a	0.0005192	NP Inter (normality) 1 of 2
Fluoride (mg/L)	ARGWC-17	0.53	n/a	4/8/2020	0.053	No	60	n/a	n/a	46.67	n/a	n/a	0.0005192	NP Inter (normality) 1 of 2
Fluoride (mg/L)	ARGWC-18	0.53	n/a	4/9/2020	0.11	No	60	n/a	n/a	46.67	n/a	n/a	0.0005192	NP Inter (normality) 1 of 2
Fluoride (mg/L)	ARGWC-7	0.53	n/a	4/8/2020	0.062	No	60	n/a	n/a	46.67	n/a	n/a	0.0005192	NP Inter (normality) 1 of 2
Fluoride (mg/L)	ARGWC-8	0.53	n/a	4/9/2020	0.16	No	60	n/a	n/a	46.67	n/a	n/a	0.0005192	NP Inter (normality) 1 of 2
Fluoride (mg/L)	ARGWC-9	0.53	n/a	4/9/2020	0.066	No	60	n/a	n/a	46.67	n/a	n/a	0.0005192	NP Inter (normality) 1 of 2
pH (SU)	ARGWC-10	6.9	5.6	4/8/2020	5.95	No	57	n/a	n/a	0	n/a	n/a	0.001168	NP Inter (normality) 1 of 2
pH (SU)	ARGWC-15	6.9	5.6	4/8/2020	6.26	No	57	n/a	n/a	0	n/a	n/a	0.001168	NP Inter (normality) 1 of 2
pH (SU)	ARGWC-16	6.9	5.6	4/8/2020	5.07	Yes	57	n/a	n/a	0	n/a	n/a	0.001168	NP Inter (normality) 1 of 2
pH (SU)	ARGWC-17	6.9	5.6	4/8/2020	5.02	Yes	57	n/a	n/a	0	n/a	n/a	0.001168	NP Inter (normality) 1 of 2
pH (SU)	ARGWC-18	6.9	5.6	4/9/2020	5.98	No	57	n/a	n/a	0	n/a	n/a	0.001168	NP Inter (normality) 1 of 2
pH (SU)	ARGWC-7	6.9	5.6	4/8/2020	5.75	No	57	n/a	n/a	0	n/a	n/a	0.001168	NP Inter (normality) 1 of 2
pH (SU)	ARGWC-8	6.9	5.6	4/9/2020	6.42	No	57	n/a	n/a	0	n/a	n/a	0.001168	NP Inter (normality) 1 of 2
pH (SU)	ARGWC-9	6.9	5.6	4/9/2020	5.9	No	57	n/a	n/a	0	n/a	n/a	0.001168	NP Inter (normality) 1 of 2
Sulfate (mg/L)	ARGWC-10	950	n/a	4/8/2020	0.5ND	No	171	n/a	n/a	16.96	n/a	n/a	0.00006773	NP Inter (normality) 1 of 2
Sulfate (mg/L)	ARGWC-15	950	n/a	4/8/2020	5.9	No	171	n/a	n/a	16.96	n/a	n/a	0.00006773	NP Inter (normality) 1 of 2
Sulfate (mg/L)	ARGWC-16	950	n/a	4/8/2020	200	No	171	n/a	n/a	16.96	n/a	n/a	0.00006773	NP Inter (normality) 1 of 2
Sulfate (mg/L)	ARGWC-17	950	n/a	4/8/2020	47	No	171	n/a	n/a	16.96	n/a	n/a	0.00006773	NP Inter (normality) 1 of 2
Sulfate (mg/L)	ARGWC-18	950	n/a	4/9/2020	190	No	171	n/a	n/a	16.96	n/a	n/a	0.00006773	NP Inter (normality) 1 of 2
Sulfate (mg/L)	ARGWC-7	950	n/a	4/8/2020	39	No	171	n/a	n/a	16.96	n/a	n/a	0.00006773	NP Inter (normality) 1 of 2
Sulfate (mg/L)	ARGWC-8	950	n/a	4/9/2020	59	No	171	n/a	n/a	16.96	n/a	n/a	0.00006773	NP Inter (normality) 1 of 2
Sulfate (mg/L)	ARGWC-9	950	n/a	4/9/2020	1.1	No	171	n/a	n/a	16.96	n/a	n/a	0.00006773	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	ARGWC-10	1200	n/a	4/8/2020	82	No	55	5.034	1.064	0	None	ln(x)	0.0009403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	ARGWC-15	1200	n/a	4/8/2020	130	No	55	5.034	1.064	0	None	ln(x)	0.0009403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	ARGWC-16	1200	n/a	4/8/2020	350	No	55	5.034	1.064	0	None	ln(x)	0.0009403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	ARGWC-17	1200	n/a	4/8/2020	91	No	55	5.034	1.064	0	None	ln(x)	0.0009403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	ARGWC-18	1200	n/a	4/9/2020	440	No	55	5.034	1.064	0	None	ln(x)	0.0009403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	ARGWC-7	1200	n/a	4/8/2020	130	No	55	5.034	1.064	0	None	ln(x)	0.0009403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	ARGWC-8	1200	n/a	4/9/2020	270	No	55	5.034	1.064	0	None	ln(x)	0.0009403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	ARGWC-9	1200	n/a	4/9/2020	70	No	55	5.034	1.064	0	None	ln(x)	0.0009403	Param Inter 1 of 2

Appendix I Interwell Prediction Limits - Significant Results

Plant Arkwright Client: Southern Company Data: Arkwright No 3 Printed 6/8/2020, 8:43 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lead (mg/L)	ARGWC-10	0.013	n/a	4/8/2020	0.031	Yes	174	n/a	n/a	88.51	n/a	n/a	0.00006534	NP Inter (NDs) 1 of 2

Appendix I Interwell Prediction Limits - All Results

Plant Arkwright Client: Southern Company Data: Arkwright No 3 Printed 6/8/2020, 8:43 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	ARGWC-10	0.0050	n/a	4/8/2020	0.001ND	No	176	n/a	n/a	78.98	n/a	n/a	0.00006375	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	ARGWC-15	0.0050	n/a	4/8/2020	0.001ND	No	176	n/a	n/a	78.98	n/a	n/a	0.00006375	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	ARGWC-16	0.0050	n/a	4/8/2020	0.001ND	No	176	n/a	n/a	78.98	n/a	n/a	0.00006375	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	ARGWC-17	0.0050	n/a	4/8/2020	0.001ND	No	176	n/a	n/a	78.98	n/a	n/a	0.00006375	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	ARGWC-18	0.0050	n/a	4/9/2020	0.001ND	No	176	n/a	n/a	78.98	n/a	n/a	0.00006375	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	ARGWC-7	0.0050	n/a	4/8/2020	0.001ND	No	176	n/a	n/a	78.98	n/a	n/a	0.00006375	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	ARGWC-8	0.0050	n/a	4/9/2020	0.001ND	No	176	n/a	n/a	78.98	n/a	n/a	0.00006375	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	ARGWC-9	0.0050	n/a	4/9/2020	0.001ND	No	176	n/a	n/a	78.98	n/a	n/a	0.00006375	NP Inter (NDs) 1 of 2
Barium (mg/L)	ARGWC-10	0.24	n/a	4/8/2020	0.031	No	172	n/a	n/a	0	n/a	n/a	0.00006694	NP Inter (normality) 1 of 2
Barium (mg/L)	ARGWC-15	0.24	n/a	4/8/2020	0.03	No	172	n/a	n/a	0	n/a	n/a	0.00006694	NP Inter (normality) 1 of 2
Barium (mg/L)	ARGWC-16	0.24	n/a	4/8/2020	0.042	No	172	n/a	n/a	0	n/a	n/a	0.00006694	NP Inter (normality) 1 of 2
Barium (mg/L)	ARGWC-17	0.24	n/a	4/8/2020	0.045	No	172	n/a	n/a	0	n/a	n/a	0.00006694	NP Inter (normality) 1 of 2
Barium (mg/L)	ARGWC-18	0.24	n/a	4/9/2020	0.041	No	172	n/a	n/a	0	n/a	n/a	0.00006694	NP Inter (normality) 1 of 2
Barium (mg/L)	ARGWC-7	0.24	n/a	4/8/2020	0.039	No	172	n/a	n/a	0	n/a	n/a	0.00006694	NP Inter (normality) 1 of 2
Barium (mg/L)	ARGWC-8	0.24	n/a	4/9/2020	0.045	No	172	n/a	n/a	0	n/a	n/a	0.00006694	NP Inter (normality) 1 of 2
Barium (mg/L)	ARGWC-9	0.24	n/a	4/9/2020	0.044	No	172	n/a	n/a	0	n/a	n/a	0.00006694	NP Inter (normality) 1 of 2
Cadmium (mg/L)	ARGWC-10	0.0043	n/a	4/8/2020	0.0025ND	No	173	n/a	n/a	93.64	n/a	n/a	0.00006614	NP Inter (NDs) 1 of 2
Cadmium (mg/L)	ARGWC-15	0.0043	n/a	4/8/2020	0.0025ND	No	173	n/a	n/a	93.64	n/a	n/a	0.00006614	NP Inter (NDs) 1 of 2
Cadmium (mg/L)	ARGWC-16	0.0043	n/a	4/8/2020	0.0025ND	No	173	n/a	n/a	93.64	n/a	n/a	0.00006614	NP Inter (NDs) 1 of 2
Cadmium (mg/L)	ARGWC-17	0.0043	n/a	4/8/2020	0.0025ND	No	173	n/a	n/a	93.64	n/a	n/a	0.00006614	NP Inter (NDs) 1 of 2
Cadmium (mg/L)	ARGWC-18	0.0043	n/a	4/9/2020	0.0025ND	No	173	n/a	n/a	93.64	n/a	n/a	0.00006614	NP Inter (NDs) 1 of 2
Cadmium (mg/L)	ARGWC-7	0.0043	n/a	4/8/2020	0.0025ND	No	173	n/a	n/a	93.64	n/a	n/a	0.00006614	NP Inter (NDs) 1 of 2
Cadmium (mg/L)	ARGWC-8	0.0043	n/a	4/9/2020	0.0025ND	No	173	n/a	n/a	93.64	n/a	n/a	0.00006614	NP Inter (NDs) 1 of 2
Cadmium (mg/L)	ARGWC-9	0.0043	n/a	4/9/2020	0.0025ND	No	173	n/a	n/a	93.64	n/a	n/a	0.00006614	NP Inter (NDs) 1 of 2
Lead (mg/L)	ARGWC-10	0.013	n/a	4/8/2020	0.031	Yes	174	n/a	n/a	88.51	n/a	n/a	0.00006534	NP Inter (NDs) 1 of 2
Lead (mg/L)	ARGWC-15	0.013	n/a	4/8/2020	0.001ND	No	174	n/a	n/a	88.51	n/a	n/a	0.00006534	NP Inter (NDs) 1 of 2
Lead (mg/L)	ARGWC-16	0.013	n/a	4/8/2020	0.001ND	No	174	n/a	n/a	88.51	n/a	n/a	0.00006534	NP Inter (NDs) 1 of 2
Lead (mg/L)	ARGWC-17	0.013	n/a	4/8/2020	0.001ND	No	174	n/a	n/a	88.51	n/a	n/a	0.00006534	NP Inter (NDs) 1 of 2
Lead (mg/L)	ARGWC-18	0.013	n/a	4/9/2020	0.001ND	No	174	n/a	n/a	88.51	n/a	n/a	0.00006534	NP Inter (NDs) 1 of 2
Lead (mg/L)	ARGWC-7	0.013	n/a	4/8/2020	0.001ND	No	174	n/a	n/a	88.51	n/a	n/a	0.00006534	NP Inter (NDs) 1 of 2
Lead (mg/L)	ARGWC-8	0.013	n/a	4/9/2020	0.001ND	No	174	n/a	n/a	88.51	n/a	n/a	0.00006534	NP Inter (NDs) 1 of 2
Lead (mg/L)	ARGWC-9	0.013	n/a	4/9/2020	0.001ND	No	174	n/a	n/a	88.51	n/a	n/a	0.00006534	NP Inter (NDs) 1 of 2
Selenium (mg/L)	ARGWC-10	0.034	n/a	4/8/2020	0.005ND	No	165	n/a	n/a	82.42	n/a	n/a	0.0000725	NP Inter (NDs) 1 of 2
Selenium (mg/L)	ARGWC-15	0.034	n/a	4/8/2020	0.005ND	No	165	n/a	n/a	82.42	n/a	n/a	0.0000725	NP Inter (NDs) 1 of 2
Selenium (mg/L)	ARGWC-16	0.034	n/a	4/8/2020	0.0022	No	165	n/a	n/a	82.42	n/a	n/a	0.0000725	NP Inter (NDs) 1 of 2
Selenium (mg/L)	ARGWC-17	0.034	n/a	4/8/2020	0.005ND	No	165	n/a	n/a	82.42	n/a	n/a	0.0000725	NP Inter (NDs) 1 of 2
Selenium (mg/L)	ARGWC-18	0.034	n/a	4/9/2020	0.005ND	No	165	n/a	n/a	82.42	n/a	n/a	0.0000725	NP Inter (NDs) 1 of 2
Selenium (mg/L)	ARGWC-7	0.034	n/a	4/8/2020	0.005ND	No	165	n/a	n/a	82.42	n/a	n/a	0.0000725	NP Inter (NDs) 1 of 2
Selenium (mg/L)	ARGWC-8	0.034	n/a	4/9/2020	0.005ND	No	165	n/a	n/a	82.42	n/a	n/a	0.0000725	NP Inter (NDs) 1 of 2
Selenium (mg/L)	ARGWC-9	0.034	n/a	4/9/2020	0.005ND	No	165	n/a	n/a	82.42	n/a	n/a	0.0000725	NP Inter (NDs) 1 of 2
Silver (mg/L)	ARGWC-10	0.0051	n/a	4/8/2020	0.001ND	No	149	n/a	n/a	93.29	n/a	n/a	0.00008915	NP Inter (NDs) 1 of 2
Silver (mg/L)	ARGWC-15	0.0051	n/a	4/8/2020	0.001ND	No	149	n/a	n/a	93.29	n/a	n/a	0.00008915	NP Inter (NDs) 1 of 2
Silver (mg/L)	ARGWC-16	0.0051	n/a	4/8/2020	0.001ND	No	149	n/a	n/a	93.29	n/a	n/a	0.00008915	NP Inter (NDs) 1 of 2
Silver (mg/L)	ARGWC-17	0.0051	n/a	4/8/2020	0.001ND	No	149	n/a	n/a	93.29	n/a	n/a	0.00008915	NP Inter (NDs) 1 of 2
Silver (mg/L)	ARGWC-18	0.0051	n/a	4/9/2020	0.001ND	No	149	n/a	n/a	93.29	n/a	n/a	0.00008915	NP Inter (NDs) 1 of 2
Silver (mg/L)	ARGWC-7	0.0051	n/a	4/8/2020	0.001ND	No	149	n/a	n/a	93.29	n/a	n/a	0.00008915	NP Inter (NDs) 1 of 2
Silver (mg/L)	ARGWC-8	0.0051	n/a	4/9/2020	0.001ND	No	149	n/a	n/a	93.29	n/a	n/a	0.00008915	NP Inter (NDs) 1 of 2
Silver (mg/L)	ARGWC-9	0.0051	n/a	4/9/2020	0.001ND	No	149	n/a	n/a	93.29	n/a	n/a	0.00008915	NP Inter (NDs) 1 of 2

Appendix I & Appendix III Trend Tests - Significant Results

Plant Arkwright Client: Southern Company Data: Arkwright No 3 Printed 6/8/2020, 8:28 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Lead (mg/L)	ARGWA-3 (bg)	0	-4.801	-2.33	Yes	47	74.47	n/a	n/a	0.02	NP
Lead (mg/L)	ARGWA-5 (bg)	0	-2.887	-2.33	Yes	48	91.67	n/a	n/a	0.02	NP
pH (SU)	ARGWC-17	-0.1036	-42	-35	Yes	12	0	n/a	n/a	0.02	NP

Appendix I & Appendix III Trend Tests - All Results

Plant Arkwright Client: Southern Company Data: Arkwright No 3 Printed 6/8/2020, 8:28 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	ARGWA-12 (bg)	0.006636	14	31	No	11	36.36	n/a	n/a	0.02	NP
Boron (mg/L)	ARGWA-13 (bg)	0.08562	23	31	No	11	0	n/a	n/a	0.02	NP
Boron (mg/L)	ARGWA-14 (bg)	0.0005014	7	31	No	11	9.091	n/a	n/a	0.02	NP
Boron (mg/L)	ARGWA-3 (bg)	0	8	31	No	11	90.91	n/a	n/a	0.02	NP
Boron (mg/L)	ARGWA-5 (bg)	0	8	31	No	11	90.91	n/a	n/a	0.02	NP
Boron (mg/L)	ARGWC-18	-0.03339	-6	-31	No	11	0	n/a	n/a	0.02	NP
Boron (mg/L)	ARGWC-8	-0.03219	-14	-31	No	11	0	n/a	n/a	0.02	NP
Lead (mg/L)	ARGWA-12 (bg)	0	-6	-112	No	27	96.3	n/a	n/a	0.02	NP
Lead (mg/L)	ARGWA-13 (bg)	0	-24	-112	No	27	96.3	n/a	n/a	0.02	NP
Lead (mg/L)	ARGWA-14 (bg)	0	-13	-101	No	25	92	n/a	n/a	0.02	NP
Lead (mg/L)	ARGWA-3 (bg)	0	-4.801	-2.33	Yes	47	74.47	n/a	n/a	0.02	NP
Lead (mg/L)	ARGWA-5 (bg)	0	-2.887	-2.33	Yes	48	91.67	n/a	n/a	0.02	NP
Lead (mg/L)	ARGWC-10	0	26	112	No	27	96.3	n/a	n/a	0.02	NP
pH (SU)	ARGWA-12 (bg)	-0.01337	-8	-31	No	11	0	n/a	n/a	0.02	NP
pH (SU)	ARGWA-13 (bg)	-0.01375	-3	-31	No	11	0	n/a	n/a	0.02	NP
pH (SU)	ARGWA-14 (bg)	-0.02589	-9	-31	No	11	0	n/a	n/a	0.02	NP
pH (SU)	ARGWA-3 (bg)	-0.006595	-2	-35	No	12	0	n/a	n/a	0.02	NP
pH (SU)	ARGWA-5 (bg)	-0.03695	-11	-35	No	12	0	n/a	n/a	0.02	NP
pH (SU)	ARGWC-16	-0.02992	-12	-35	No	12	0	n/a	n/a	0.02	NP
pH (SU)	ARGWC-17	-0.1036	-42	-35	Yes	12	0	n/a	n/a	0.02	NP

Tolerance Limit Summary Table

Plant Arkwright Client: Southern Company Data: Arkwright No 3 Printed 6/8/2020, 9:33 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	n/a	0.0020	n/a	n/a	n/a	n/a	55	n/a	n/a	96.36	n/a	n/a	0.05954	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.0050	n/a	n/a	n/a	n/a	176	n/a	n/a	78.98	n/a	n/a	NaN	NP Inter(NDs)
Barium (mg/L)	n/a	0.24	n/a	n/a	n/a	n/a	172	n/a	n/a	0	n/a	n/a	NaN	NP Inter(normality)
Beryllium (mg/L)	n/a	0.0025	n/a	n/a	n/a	n/a	55	n/a	n/a	94.55	n/a	n/a	0.05954	NP Inter(NDs)
Cadmium (mg/L)	n/a	0.0043	n/a	n/a	n/a	n/a	173	n/a	n/a	93.64	n/a	n/a	NaN	NP Inter(NDs)
Chromium (mg/L)	n/a	0.010	n/a	n/a	n/a	n/a	55	n/a	n/a	52.73	n/a	n/a	0.05954	NP Inter(NDs)
Cobalt (mg/L)	n/a	0.0025	n/a	n/a	n/a	n/a	55	n/a	n/a	85.45	n/a	n/a	0.05954	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	n/a	1.1	n/a	n/a	n/a	n/a	55	0.4472	0.3011	0	None	No	0.05	Inter
Fluoride (mg/L)	n/a	0.53	n/a	n/a	n/a	n/a	60	n/a	n/a	46.67	n/a	n/a	0.04607	NP Inter(normality)
Lead (mg/L)	n/a	0.013	n/a	n/a	n/a	n/a	174	n/a	n/a	88.51	n/a	n/a	NaN	NP Inter(NDs)
Lithium (mg/L)	n/a	0.0099	n/a	n/a	n/a	n/a	54	n/a	n/a	42.59	n/a	n/a	0.06267	NP Inter(normality)
Mercury (mg/L)	n/a	0.00020	n/a	n/a	n/a	n/a	50	n/a	n/a	94	n/a	n/a	0.07694	NP Inter(NDs)
Molybdenum (mg/L)	n/a	0.015	n/a	n/a	n/a	n/a	55	n/a	n/a	89.09	n/a	n/a	0.05954	NP Inter(NDs)
Selenium (mg/L)	n/a	0.034	n/a	n/a	n/a	n/a	165	n/a	n/a	82.42	n/a	n/a	0.0002111	NP Inter(NDs)
Silver (mg/L)	n/a	0.0051	n/a	n/a	n/a	n/a	149	n/a	n/a	93.29	n/a	n/a	0.0004795	NP Inter(NDs)
Thallium (mg/L)	n/a	0.0010	n/a	n/a	n/a	n/a	55	n/a	n/a	94.55	n/a	n/a	0.05954	NP Inter(NDs)

PLANT ARKWRIGHT LF #3 GWPS - FEDERAL				
Constituent Name	MCL	CCR-Rule Specified	Background Limit	GWPS
Antimony, Total (mg/L)	0.006		0.002	0.006
Arsenic, Total (mg/L)	0.01		0.005	0.01
Barium, Total (mg/L)	2		0.24	2
Beryllium, Total (mg/L)	0.004		0.0025	0.004
Cadmium, Total (mg/L)	0.005		0.0043	0.005
Chromium, Total (mg/L)	0.1		0.01	0.1
Cobalt, Total (mg/L)	n/a	0.006	0.0025	0.006
Combined Radium, Total (pCi/L)	5		1.1	5
Fluoride, Total (mg/L)	4		0.53	4
Lead, Total (mg/L)	n/a	0.015	0.013	0.015
Lithium, Total (mg/L)	n/a	0.04	0.0099	0.04
Mercury, Total (mg/L)	0.002		0.0002	0.002
Molybdenum, Total (mg/L)	n/a	0.1	0.015	0.1
Selenium, Total (mg/L)	0.05		0.034	0.05
Silver, Total (mg/L)			0.0051	0.0051
Thallium, Total (mg/L)	0.002		0.001	0.002

**CCR = Coal Combustion Residuals*

**MCL = Maximum Contaminant Level*

**GWPS = Groundwater Protection Standard*

PLANT ARKWRIGHT LF #3 GWPS - STATE				
Constituent Name	MCL	CCR-Rule Specified	Background Limit	GWPS
Antimony, Total (mg/L)	0.006		0.002	0.006
Arsenic, Total (mg/L)	0.01		0.005	0.01
Barium, Total (mg/L)	2		0.24	2
Beryllium, Total (mg/L)	0.004		0.0025	0.004
Cadmium, Total (mg/L)	0.005		0.0043	0.005
Chromium, Total (mg/L)	0.1		0.01	0.1
Cobalt, Total (mg/L)	n/a	0.006	0.0025	0.0025
Combined Radium, Total (pCi/L)	5		1.1	5
Fluoride, Total (mg/L)	4		0.53	4
Lead, Total (mg/L)	n/a	0.015	0.013	0.013
Lithium, Total (mg/L)	n/a	0.04	0.0099	0.0099
Mercury, Total (mg/L)	0.002		0.0002	0.002
Molybdenum, Total (mg/L)	n/a	0.1	0.015	0.015
Selenium, Total (mg/L)	0.05		0.034	0.05
Silver, Total (mg/L)			0.0051	0.0051
Thallium, Total (mg/L)	0.002		0.001	0.002

**CCR = Coal Combustion Residuals*

**MCL = Maximum Contaminant Level*

**GWPS = Groundwater Protection Standard*

Federal Confidence Intervals - Significant Results

Plant Arkwright Client: Southern Company Data: Arkwright No 3 Printed 6/8/2020, 3:46 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Compliance</u>	<u>Sig. N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Cobalt (mg/L)	ARGWC-17	0.02687	0.01557	0.006	Yes 11	0.02122	0.006783	0	None	No	0.01	Param.

Federal Confidence Intervals - All Results

Plant Arkwright Client: Southern Company Data: Arkwright No 3 Printed 6/8/2020, 3:46 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig. N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	ARGWC-10	0.002	0.002	0.006	No 11	0.001904	0.0003196	90.91	None	No	0.006	NP (NDs)
Antimony (mg/L)	ARGWC-7	0.002	0.002	0.006	No 11	0.001936	0.0002111	90.91	None	No	0.006	NP (NDs)
Antimony (mg/L)	ARGWC-9	0.002	0.002	0.006	No 11	0.001862	0.0004583	90.91	None	No	0.006	NP (NDs)
Arsenic (mg/L)	ARGWC-10	0.0011	0.0004	0.01	No 13	0.001031	0.0003119	76.92	None	No	0.01	NP (NDs)
Arsenic (mg/L)	ARGWC-15	0.001	0.00062	0.01	No 13	0.0009215	0.0001987	84.62	None	No	0.01	NP (NDs)
Arsenic (mg/L)	ARGWC-16	0.001	0.00067	0.01	No 13	0.0009415	0.0001442	76.92	None	No	0.01	NP (NDs)
Arsenic (mg/L)	ARGWC-17	0.0015	0.00084	0.01	No 13	0.0009731	0.000223	69.23	None	No	0.01	NP (NDs)
Arsenic (mg/L)	ARGWC-18	0.0016	0.00066	0.01	No 13	0.0009685	0.0002756	76.92	None	No	0.01	NP (NDs)
Arsenic (mg/L)	ARGWC-7	0.0015	0.00078	0.01	No 13	0.001022	0.0001561	84.62	None	No	0.01	NP (NDs)
Arsenic (mg/L)	ARGWC-8	0.0014	0.00063	0.01	No 13	0.0009315	0.0002456	69.23	None	No	0.01	NP (NDs)
Arsenic (mg/L)	ARGWC-9	0.0011	0.00051	0.01	No 13	0.00097	0.0001409	84.62	None	No	0.01	NP (NDs)
Barium (mg/L)	ARGWC-10	0.03351	0.02966	2	No 13	0.03158	0.00259	0	None	No	0.01	Param.
Barium (mg/L)	ARGWC-15	0.0408	0.028	2	No 13	0.03491	0.01236	0	None	No	0.01	NP (normality)
Barium (mg/L)	ARGWC-16	0.05699	0.04681	2	No 13	0.0519	0.006842	0	None	No	0.01	Param.
Barium (mg/L)	ARGWC-17	0.04769	0.04256	2	No 13	0.04512	0.003449	0	None	No	0.01	Param.
Barium (mg/L)	ARGWC-18	0.03892	0.03414	2	No 13	0.03653	0.003211	0	None	No	0.01	Param.
Barium (mg/L)	ARGWC-7	0.04001	0.03348	2	No 13	0.03675	0.00439	0	None	No	0.01	Param.
Barium (mg/L)	ARGWC-8	0.0481	0.0418	2	No 13	0.04495	0.004235	0	None	No	0.01	Param.
Barium (mg/L)	ARGWC-9	0.04927	0.04342	2	No 13	0.04635	0.003934	0	None	No	0.01	Param.
Beryllium (mg/L)	ARGWC-16	0.0025	0.0025	0.004	No 11	0.002297	0.0006724	90.91	None	No	0.006	NP (NDs)
Beryllium (mg/L)	ARGWC-17	0.0025	0.00025	0.004	No 11	0.001527	0.001127	54.55	None	No	0.006	NP (NDs)
Beryllium (mg/L)	ARGWC-18	0.0025	0.0025	0.004	No 11	0.002304	0.0006513	90.91	None	No	0.006	NP (NDs)
Beryllium (mg/L)	ARGWC-7	0.0025	0.00041	0.004	No 11	0.002092	0.0009108	81.82	None	No	0.006	NP (NDs)
Beryllium (mg/L)	ARGWC-8	0.0025	0.0025	0.004	No 11	0.002315	0.0006121	90.91	None	No	0.006	NP (NDs)
Beryllium (mg/L)	ARGWC-9	0.0025	0.0025	0.004	No 11	0.002306	0.0006422	90.91	None	No	0.006	NP (NDs)
Cadmium (mg/L)	ARGWC-16	0.0025	0.0001	0.005	No 13	0.002315	0.0006656	92.31	None	No	0.01	NP (NDs)
Cadmium (mg/L)	ARGWC-17	0.0025	0.00013	0.005	No 13	0.001955	0.001037	76.92	None	No	0.01	NP (NDs)
Chromium (mg/L)	ARGWC-10	0.005789	0.004193	0.1	No 11	0.004991	0.0009576	0	None	No	0.01	Param.
Chromium (mg/L)	ARGWC-15	0.002	0.002	0.1	No 11	0.002582	0.002031	81.82	None	No	0.006	NP (NDs)
Chromium (mg/L)	ARGWC-16	0.002294	0.001542	0.1	No 11	0.001918	0.0004513	0	None	No	0.01	Param.
Chromium (mg/L)	ARGWC-17	0.002	0.0016	0.1	No 11	0.001909	0.0002386	72.73	None	No	0.006	NP (NDs)
Chromium (mg/L)	ARGWC-7	0.003976	0.003006	0.1	No 11	0.003491	0.0005822	0	None	No	0.01	Param.
Chromium (mg/L)	ARGWC-8	0.002	0.0017	0.1	No 11	0.001927	0.0001679	81.82	None	No	0.006	NP (NDs)
Chromium (mg/L)	ARGWC-9	0.01083	0.008713	0.1	No 11	0.009773	0.001272	0	None	No	0.01	Param.
Cobalt (mg/L)	ARGWC-10	0.0025	0.00019	0.006	No 11	0.002078	0.0009385	81.82	None	No	0.006	NP (NDs)
Cobalt (mg/L)	ARGWC-15	0.005687	0.0001022	0.006	No 11	0.005089	0.008801	36.36	Kaplan-Meier	x^(1/3)	0.01	Param.
Cobalt (mg/L)	ARGWC-16	0.0025	0.00026	0.006	No 11	0.002084	0.0009266	81.82	Kaplan-Meier	No	0.006	NP (NDs)
Cobalt (mg/L)	ARGWC-17	0.02687	0.01557	0.006	Yes 11	0.02122	0.006783	0	None	No	0.01	Param.
Cobalt (mg/L)	ARGWC-18	0.001657	0.001089	0.006	No 11	0.001373	0.0003406	0	None	No	0.01	Param.
Cobalt (mg/L)	ARGWC-7	0.0025	0.00034	0.006	No 11	0.002084	0.0009269	81.82	None	No	0.006	NP (NDs)
Cobalt (mg/L)	ARGWC-8	0.0025	0.00021	0.006	No 11	0.001886	0.001053	72.73	None	No	0.006	NP (NDs)
Cobalt (mg/L)	ARGWC-9	0.0025	0.00021	0.006	No 11	0.002078	0.0009386	81.82	None	No	0.006	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	ARGWC-10	0.3626	-0.04499	5	No 11	0.1588	0.2446	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	ARGWC-15	1.026	0.2769	5	No 11	0.7474	0.7703	0	None	ln(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	ARGWC-16	0.79	0.0598	5	No 11	0.4519	0.4358	0	None	No	0.006	NP (normality)
Combined Radium 226 + 228 (pCi/L)	ARGWC-17	0.8068	0.07236	5	No 11	0.4396	0.4407	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	ARGWC-18	0.6264	0.2145	5	No 11	0.4204	0.2472	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	ARGWC-7	0.4946	0.1588	5	No 11	0.3267	0.2015	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	ARGWC-8	0.4129	0.1117	5	No 11	0.2623	0.1807	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	ARGWC-9	0.4245	0.06987	5	No 11	0.2472	0.2128	0	None	No	0.01	Param.
Fluoride (mg/L)	ARGWC-10	0.2	0.047	4	No 12	0.1418	0.07376	58.33	None	No	0.01	NP (NDs)
Fluoride (mg/L)	ARGWC-15	0.178	0.05881	4	No 12	0.1681	0.07651	33.33	Kaplan-Meier	No	0.01	Param.
Fluoride (mg/L)	ARGWC-16	0.2	0.033	4	No 12	0.1496	0.07541	66.67	Kaplan-Meier	No	0.01	NP (NDs)
Fluoride (mg/L)	ARGWC-17	0.2	0.031	4	No 12	0.1495	0.0756	66.67	Kaplan-Meier	No	0.01	NP (NDs)
Fluoride (mg/L)	ARGWC-18	0.1022	0.07292	4	No 11	0.08755	0.01755	0	None	No	0.01	Param.

Federal Confidence Intervals - All Results

Plant Arkwright Client: Southern Company Data: Arkwright No 3 Printed 6/8/2020, 3:46 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride (mg/L)	ARGWC-7	0.2	0.032	4	No	12	0.1595	0.07385	75	None	No	0.01	NP (NDs)
Fluoride (mg/L)	ARGWC-8	0.1461	0.1056	4	No	11	0.1258	0.02432	0	None	No	0.01	Param.
Fluoride (mg/L)	ARGWC-9	0.2	0.038	4	No	12	0.1612	0.07071	66.67	None	No	0.01	NP (NDs)
Lead (mg/L)	ARGWC-10	0.031	0.001	0.015	No	13	0.003308	0.008321	92.31	None	No	0.01	NP (NDs)
Lead (mg/L)	ARGWC-15	0.0016	0.0003	0.015	No	13	0.001346	0.001306	76.92	None	No	0.01	NP (NDs)
Lead (mg/L)	ARGWC-18	0.001	0.0002	0.015	No	13	0.0009385	0.0002219	92.31	None	No	0.01	NP (NDs)
Lead (mg/L)	ARGWC-8	0.001	0.00019	0.015	No	13	0.0009377	0.0002247	92.31	None	No	0.01	NP (NDs)
Lead (mg/L)	ARGWC-9	0.001	0.00016	0.015	No	13	0.0009354	0.000233	92.31	None	No	0.01	NP (NDs)
Lithium (mg/L)	ARGWC-10	0.005	0.0015	0.04	No	11	0.004373	0.001529	72.73	None	No	0.006	NP (NDs)
Lithium (mg/L)	ARGWC-15	0.005	0.0029	0.04	No	11	0.004445	0.0009234	63.64	None	No	0.006	NP (NDs)
Lithium (mg/L)	ARGWC-16	0.005	0.0031	0.04	No	11	0.004755	0.001458	72.73	None	No	0.006	NP (NDs)
Lithium (mg/L)	ARGWC-17	0.005	0.0023	0.04	No	11	0.004618	0.001518	72.73	None	No	0.006	NP (NDs)
Lithium (mg/L)	ARGWC-18	0.0062	0.0036	0.04	No	11	0.005164	0.002734	9.091	None	No	0.006	NP (normality)
Lithium (mg/L)	ARGWC-7	0.004709	0.002366	0.04	No	11	0.004536	0.001643	36.36	Kaplan-Meier	sqrt(x)	0.01	Param.
Lithium (mg/L)	ARGWC-8	0.004992	0.002802	0.04	No	11	0.0045	0.001325	36.36	Kaplan-Meier	No	0.01	Param.
Lithium (mg/L)	ARGWC-9	0.005	0.005	0.04	No	11	0.0051	0.0003317	90.91	Kaplan-Meier	No	0.006	NP (NDs)
Mercury (mg/L)	ARGWC-10	0.0002	0.0002	0.002	No	10	0.0001877	0.0000389	90	None	No	0.011	NP (NDs)
Mercury (mg/L)	ARGWC-15	0.0002	0.0002	0.002	No	10	0.0001871	0.00004079	90	None	No	0.011	NP (NDs)
Mercury (mg/L)	ARGWC-16	0.0002	0.000079	0.002	No	10	0.000134	0.00005779	40	None	No	0.011	NP (normality)
Mercury (mg/L)	ARGWC-18	0.0002	0.0002	0.002	No	10	0.0001874	0.00003984	90	None	No	0.011	NP (NDs)
Mercury (mg/L)	ARGWC-7	0.0002	0.0002	0.002	No	10	0.000187	0.00004111	90	None	No	0.011	NP (NDs)
Mercury (mg/L)	ARGWC-8	0.0002	0.0002	0.002	No	10	0.0001881	0.00003763	90	None	No	0.011	NP (NDs)
Molybdenum (mg/L)	ARGWC-15	0.015	0.00097	0.1	No	11	0.008729	0.007209	54.55	None	No	0.006	NP (NDs)
Molybdenum (mg/L)	ARGWC-8	0.04416	0.03535	0.1	No	11	0.03979	0.005466	0	None	sqrt(x)	0.01	Param.
Selenium (mg/L)	ARGWC-15	0.005	0.00044	0.05	No	13	0.003949	0.001997	76.92	None	No	0.01	NP (NDs)
Selenium (mg/L)	ARGWC-16	0.002037	0.0009332	0.05	No	13	0.001598	0.001112	7.692	None	ln(x)	0.01	Param.
Selenium (mg/L)	ARGWC-7	0.005	0.00029	0.05	No	13	0.004638	0.001306	92.31	None	No	0.01	NP (NDs)
Selenium (mg/L)	ARGWC-9	0.005	0.00029	0.05	No	13	0.004272	0.001778	84.62	None	No	0.01	NP (NDs)
Thallium (mg/L)	ARGWC-15	0.001	0.001	0.002	No	11	0.0009177	0.0002729	90.91	None	No	0.006	NP (NDs)

State Confidence Intervals - Significant Results

Plant Arkwright Client: Southern Company Data: Arkwright No 3 Printed 6/25/2020, 11:42 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig. N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Cobalt (mg/L)	ARGWC-17	0.02687	0.01557	0.0025	Yes 11	0.02122	0.006783	0	None	No	0.01	Param.
Molybdenum (mg/L)	ARGWC-8	0.04416	0.03535	0.015	Yes 11	0.03979	0.005466	0	None	sqrt(x)	0.01	Param.

State Confidence Intervals - All Results

Plant Arkwright Client: Southern Company Data: Arkwright No 3 Printed 6/25/2020, 11:42 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig. N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	ARGWC-10	0.002	0.002	0.006	No 11	0.001904	0.0003196	90.91	None	No	0.006	NP (NDs)
Antimony (mg/L)	ARGWC-7	0.002	0.002	0.006	No 11	0.001936	0.0002111	90.91	None	No	0.006	NP (NDs)
Antimony (mg/L)	ARGWC-9	0.002	0.002	0.006	No 11	0.001862	0.0004583	90.91	None	No	0.006	NP (NDs)
Arsenic (mg/L)	ARGWC-10	0.0011	0.0004	0.01	No 13	0.001031	0.0003119	76.92	None	No	0.01	NP (NDs)
Arsenic (mg/L)	ARGWC-15	0.001	0.00062	0.01	No 13	0.0009215	0.0001987	84.62	None	No	0.01	NP (NDs)
Arsenic (mg/L)	ARGWC-16	0.001	0.00067	0.01	No 13	0.0009415	0.0001442	76.92	None	No	0.01	NP (NDs)
Arsenic (mg/L)	ARGWC-17	0.0015	0.00084	0.01	No 13	0.0009731	0.000223	69.23	None	No	0.01	NP (NDs)
Arsenic (mg/L)	ARGWC-18	0.0016	0.00066	0.01	No 13	0.0009685	0.0002756	76.92	None	No	0.01	NP (NDs)
Arsenic (mg/L)	ARGWC-7	0.0015	0.00078	0.01	No 13	0.001022	0.0001561	84.62	None	No	0.01	NP (NDs)
Arsenic (mg/L)	ARGWC-8	0.0014	0.00063	0.01	No 13	0.0009315	0.0002456	69.23	None	No	0.01	NP (NDs)
Arsenic (mg/L)	ARGWC-9	0.0011	0.00051	0.01	No 13	0.00097	0.0001409	84.62	None	No	0.01	NP (NDs)
Barium (mg/L)	ARGWC-10	0.03351	0.02966	2	No 13	0.03158	0.00259	0	None	No	0.01	Param.
Barium (mg/L)	ARGWC-15	0.0408	0.028	2	No 13	0.03491	0.01236	0	None	No	0.01	NP (normality)
Barium (mg/L)	ARGWC-16	0.05699	0.04681	2	No 13	0.0519	0.006842	0	None	No	0.01	Param.
Barium (mg/L)	ARGWC-17	0.04769	0.04256	2	No 13	0.04512	0.003449	0	None	No	0.01	Param.
Barium (mg/L)	ARGWC-18	0.03892	0.03414	2	No 13	0.03653	0.003211	0	None	No	0.01	Param.
Barium (mg/L)	ARGWC-7	0.04001	0.03348	2	No 13	0.03675	0.00439	0	None	No	0.01	Param.
Barium (mg/L)	ARGWC-8	0.0481	0.0418	2	No 13	0.04495	0.004235	0	None	No	0.01	Param.
Barium (mg/L)	ARGWC-9	0.04927	0.04342	2	No 13	0.04635	0.003934	0	None	No	0.01	Param.
Beryllium (mg/L)	ARGWC-16	0.0025	0.0025	0.004	No 11	0.002297	0.0006724	90.91	None	No	0.006	NP (NDs)
Beryllium (mg/L)	ARGWC-17	0.0025	0.00025	0.004	No 11	0.001527	0.001127	54.55	None	No	0.006	NP (NDs)
Beryllium (mg/L)	ARGWC-18	0.0025	0.0025	0.004	No 11	0.002304	0.0006513	90.91	None	No	0.006	NP (NDs)
Beryllium (mg/L)	ARGWC-7	0.0025	0.00041	0.004	No 11	0.002092	0.0009108	81.82	None	No	0.006	NP (NDs)
Beryllium (mg/L)	ARGWC-8	0.0025	0.0025	0.004	No 11	0.002315	0.0006121	90.91	None	No	0.006	NP (NDs)
Beryllium (mg/L)	ARGWC-9	0.0025	0.0025	0.004	No 11	0.002306	0.0006422	90.91	None	No	0.006	NP (NDs)
Cadmium (mg/L)	ARGWC-16	0.0025	0.0001	0.005	No 13	0.002315	0.0006656	92.31	None	No	0.01	NP (NDs)
Cadmium (mg/L)	ARGWC-17	0.0025	0.00013	0.005	No 13	0.001955	0.001037	76.92	None	No	0.01	NP (NDs)
Chromium (mg/L)	ARGWC-10	0.005789	0.004193	0.1	No 11	0.004991	0.0009576	0	None	No	0.01	Param.
Chromium (mg/L)	ARGWC-15	0.002	0.002	0.1	No 11	0.002582	0.002031	81.82	None	No	0.006	NP (NDs)
Chromium (mg/L)	ARGWC-16	0.002294	0.001542	0.1	No 11	0.001918	0.0004513	0	None	No	0.01	Param.
Chromium (mg/L)	ARGWC-17	0.002	0.0016	0.1	No 11	0.001909	0.0002386	72.73	None	No	0.006	NP (NDs)
Chromium (mg/L)	ARGWC-7	0.003976	0.003006	0.1	No 11	0.003491	0.0005822	0	None	No	0.01	Param.
Chromium (mg/L)	ARGWC-8	0.002	0.0017	0.1	No 11	0.001927	0.0001679	81.82	None	No	0.006	NP (NDs)
Chromium (mg/L)	ARGWC-9	0.01083	0.008713	0.1	No 11	0.009773	0.001272	0	None	No	0.01	Param.
Cobalt (mg/L)	ARGWC-10	0.0025	0.00019	0.0025	No 11	0.002078	0.0009385	81.82	None	No	0.006	NP (NDs)
Cobalt (mg/L)	ARGWC-15	0.005687	0.0001022	0.0025	No 11	0.005089	0.008801	36.36	Kaplan-Meier	x^(1/3)	0.01	Param.
Cobalt (mg/L)	ARGWC-16	0.0025	0.00026	0.0025	No 11	0.002084	0.0009266	81.82	Kaplan-Meier	No	0.006	NP (NDs)
Cobalt (mg/L)	ARGWC-17	0.02687	0.01557	0.0025	Yes 11	0.02122	0.006783	0	None	No	0.01	Param.
Cobalt (mg/L)	ARGWC-18	0.001657	0.001089	0.0025	No 11	0.001373	0.0003406	0	None	No	0.01	Param.
Cobalt (mg/L)	ARGWC-7	0.0025	0.00034	0.0025	No 11	0.002084	0.0009269	81.82	None	No	0.006	NP (NDs)
Cobalt (mg/L)	ARGWC-8	0.0025	0.00021	0.0025	No 11	0.001886	0.001053	72.73	None	No	0.006	NP (NDs)
Cobalt (mg/L)	ARGWC-9	0.0025	0.00021	0.0025	No 11	0.002078	0.0009386	81.82	None	No	0.006	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	ARGWC-10	0.3626	-0.04499	5	No 11	0.1588	0.2446	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	ARGWC-15	1.026	0.2769	5	No 11	0.7474	0.7703	0	None	ln(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	ARGWC-16	0.79	0.0598	5	No 11	0.4519	0.4358	0	None	No	0.006	NP (normality)
Combined Radium 226 + 228 (pCi/L)	ARGWC-17	0.8068	0.07236	5	No 11	0.4396	0.4407	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	ARGWC-18	0.6264	0.2145	5	No 11	0.4204	0.2472	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	ARGWC-7	0.4946	0.1588	5	No 11	0.3267	0.2015	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	ARGWC-8	0.4129	0.1117	5	No 11	0.2623	0.1807	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	ARGWC-9	0.4245	0.06987	5	No 11	0.2472	0.2128	0	None	No	0.01	Param.
Fluoride (mg/L)	ARGWC-10	0.2	0.047	4	No 12	0.1418	0.07376	58.33	None	No	0.01	NP (NDs)
Fluoride (mg/L)	ARGWC-15	0.178	0.05881	4	No 12	0.1681	0.07651	33.33	Kaplan-Meier	No	0.01	Param.
Fluoride (mg/L)	ARGWC-16	0.2	0.033	4	No 12	0.1496	0.07541	66.67	Kaplan-Meier	No	0.01	NP (NDs)
Fluoride (mg/L)	ARGWC-17	0.2	0.031	4	No 12	0.1495	0.0756	66.67	Kaplan-Meier	No	0.01	NP (NDs)
Fluoride (mg/L)	ARGWC-18	0.1022	0.07292	4	No 11	0.08755	0.01755	0	None	No	0.01	Param.

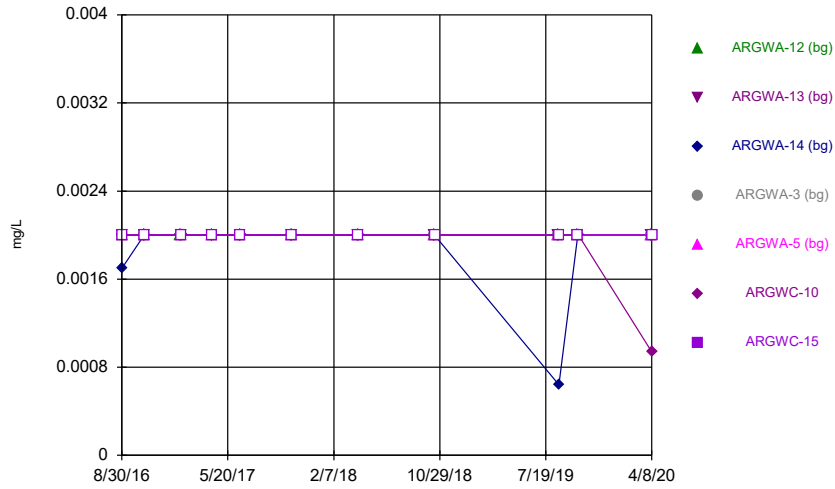
State Confidence Intervals - All Results

Plant Arkwright Client: Southern Company Data: Arkwright No 3 Printed 6/25/2020, 11:42 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride (mg/L)	ARGWC-7	0.2	0.032	4	No	12	0.1595	0.07385	75	None	No	0.01	NP (NDs)
Fluoride (mg/L)	ARGWC-8	0.1461	0.1056	4	No	11	0.1258	0.02432	0	None	No	0.01	Param.
Fluoride (mg/L)	ARGWC-9	0.2	0.038	4	No	12	0.1612	0.07071	66.67	None	No	0.01	NP (NDs)
Lead (mg/L)	ARGWC-10	0.031	0.001	0.013	No	13	0.003308	0.008321	92.31	None	No	0.01	NP (NDs)
Lead (mg/L)	ARGWC-15	0.0016	0.0003	0.013	No	13	0.001346	0.001306	76.92	None	No	0.01	NP (NDs)
Lead (mg/L)	ARGWC-18	0.001	0.0002	0.013	No	13	0.0009385	0.0002219	92.31	None	No	0.01	NP (NDs)
Lead (mg/L)	ARGWC-8	0.001	0.00019	0.013	No	13	0.0009377	0.0002247	92.31	None	No	0.01	NP (NDs)
Lead (mg/L)	ARGWC-9	0.001	0.00016	0.013	No	13	0.0009354	0.000233	92.31	None	No	0.01	NP (NDs)
Lithium (mg/L)	ARGWC-10	0.005	0.0015	0.0099	No	11	0.004373	0.001529	72.73	None	No	0.006	NP (NDs)
Lithium (mg/L)	ARGWC-15	0.005	0.0029	0.0099	No	11	0.004445	0.0009234	63.64	None	No	0.006	NP (NDs)
Lithium (mg/L)	ARGWC-16	0.005	0.0031	0.0099	No	11	0.004755	0.001458	72.73	None	No	0.006	NP (NDs)
Lithium (mg/L)	ARGWC-17	0.005	0.0023	0.0099	No	11	0.004618	0.001518	72.73	None	No	0.006	NP (NDs)
Lithium (mg/L)	ARGWC-18	0.0062	0.0036	0.0099	No	11	0.005164	0.002734	9.091	None	No	0.006	NP (normality)
Lithium (mg/L)	ARGWC-7	0.004709	0.002366	0.0099	No	11	0.004536	0.001643	36.36	Kaplan-Meier	sqrt(x)	0.01	Param.
Lithium (mg/L)	ARGWC-8	0.004992	0.002802	0.0099	No	11	0.0045	0.001325	36.36	Kaplan-Meier	No	0.01	Param.
Lithium (mg/L)	ARGWC-9	0.005	0.005	0.0099	No	11	0.0051	0.0003317	90.91	Kaplan-Meier	No	0.006	NP (NDs)
Mercury (mg/L)	ARGWC-10	0.0002	0.0002	0.002	No	10	0.0001877	0.0000389	90	None	No	0.011	NP (NDs)
Mercury (mg/L)	ARGWC-15	0.0002	0.0002	0.002	No	10	0.0001871	0.00004079	90	None	No	0.011	NP (NDs)
Mercury (mg/L)	ARGWC-16	0.0002	0.000079	0.002	No	10	0.000134	0.00005779	40	None	No	0.011	NP (normality)
Mercury (mg/L)	ARGWC-18	0.0002	0.0002	0.002	No	10	0.0001874	0.00003984	90	None	No	0.011	NP (NDs)
Mercury (mg/L)	ARGWC-7	0.0002	0.0002	0.002	No	10	0.000187	0.00004111	90	None	No	0.011	NP (NDs)
Mercury (mg/L)	ARGWC-8	0.0002	0.0002	0.002	No	10	0.0001881	0.00003763	90	None	No	0.011	NP (NDs)
Molybdenum (mg/L)	ARGWC-15	0.015	0.00097	0.015	No	11	0.008729	0.007209	54.55	None	No	0.006	NP (NDs)
Molybdenum (mg/L)	ARGWC-8	0.04416	0.03535	0.015	Yes	11	0.03979	0.005466	0	None	sqrt(x)	0.01	Param.
Selenium (mg/L)	ARGWC-15	0.005	0.00044	0.05	No	13	0.003949	0.001997	76.92	None	No	0.01	NP (NDs)
Selenium (mg/L)	ARGWC-16	0.002037	0.0009332	0.05	No	13	0.001598	0.001112	7.692	None	ln(x)	0.01	Param.
Selenium (mg/L)	ARGWC-7	0.005	0.00029	0.05	No	13	0.004638	0.001306	92.31	None	No	0.01	NP (NDs)
Selenium (mg/L)	ARGWC-9	0.005	0.00029	0.05	No	13	0.004272	0.001778	84.62	None	No	0.01	NP (NDs)
Silver (mg/L)	ARGWC-15	0.001	0.00018	0.0051	No	9	0.0008389	0.0003232	77.78	None	No	0.002	NP (NDs)
Silver (mg/L)	ARGWC-16	0.001	0.00026	0.0051	No	9	0.0009178	0.0002467	88.89	None	No	0.002	NP (NDs)
Thallium (mg/L)	ARGWC-15	0.001	0.001	0.002	No	11	0.0009177	0.0002729	90.91	None	No	0.006	NP (NDs)

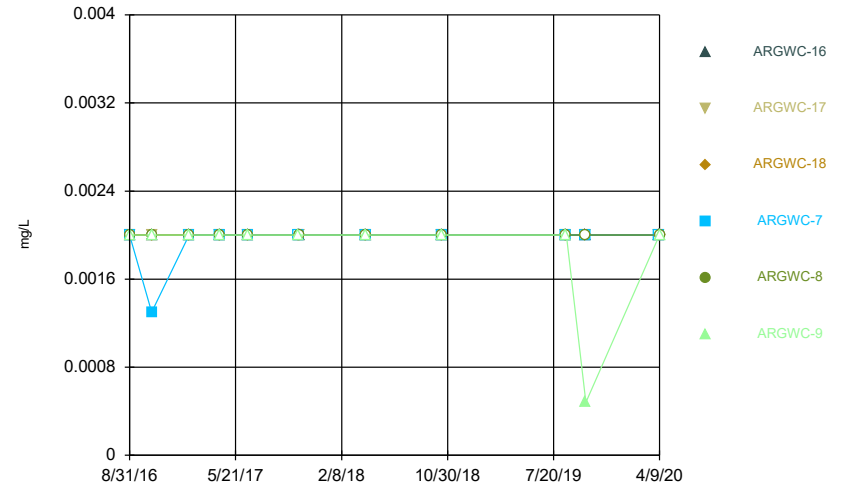
FIGURE A.

Time Series



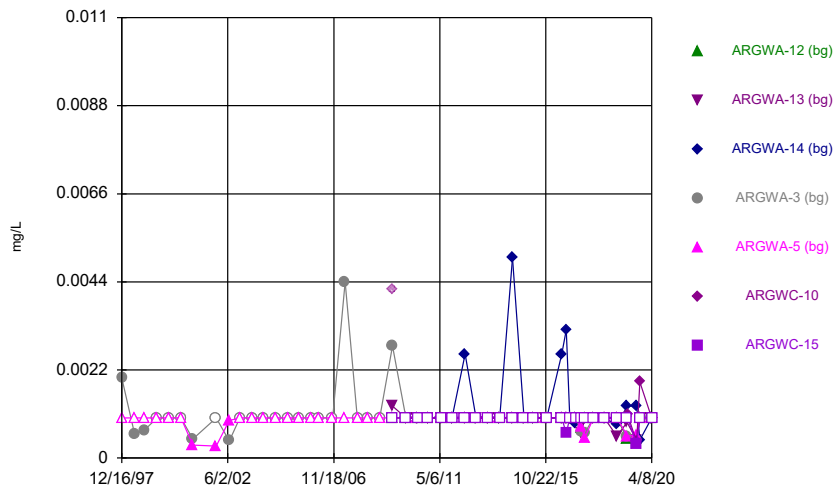
Constituent: Antimony Analysis Run 6/8/2020 9:59 AM
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Time Series



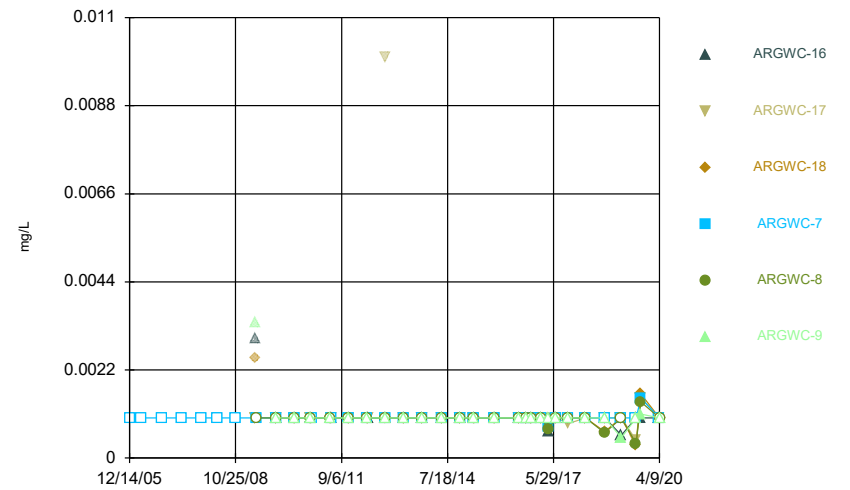
Constituent: Antimony Analysis Run 6/8/2020 9:59 AM
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Time Series



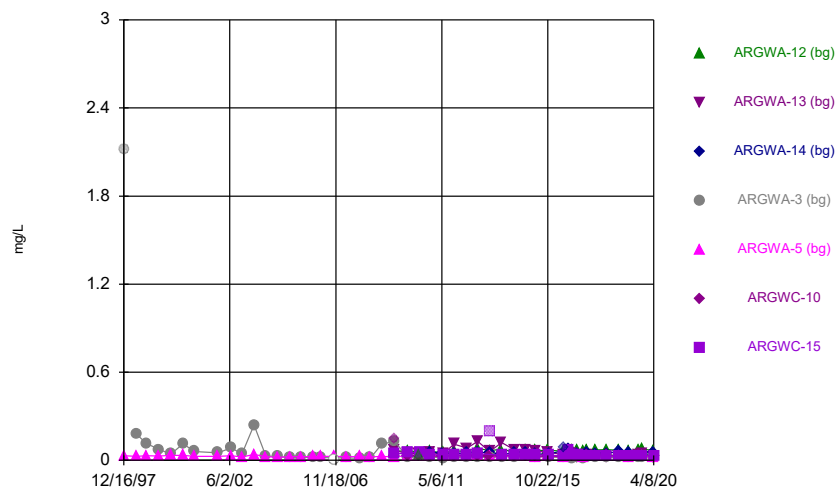
Constituent: Arsenic Analysis Run 6/8/2020 9:59 AM
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Time Series



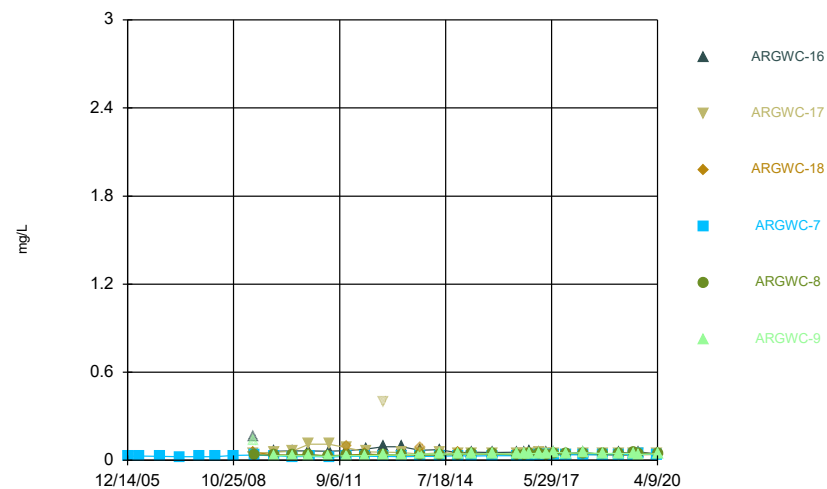
Constituent: Arsenic Analysis Run 6/8/2020 9:59 AM
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Time Series



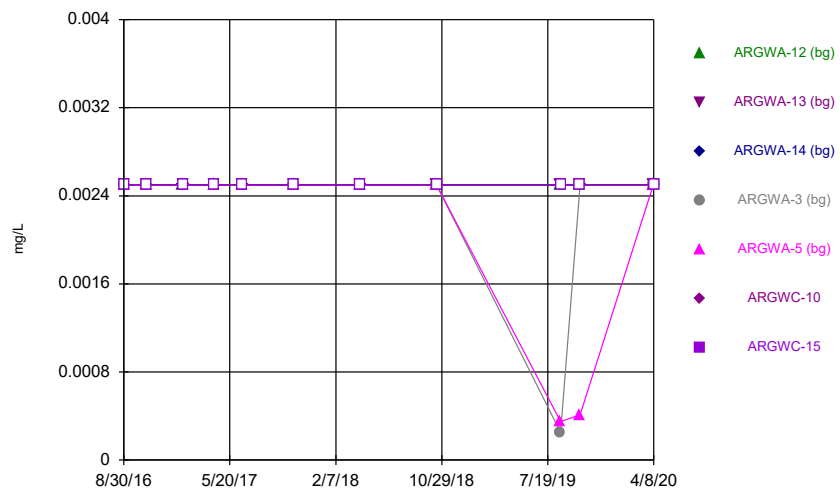
Constituent: Barium Analysis Run 6/8/2020 9:59 AM
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

Time Series



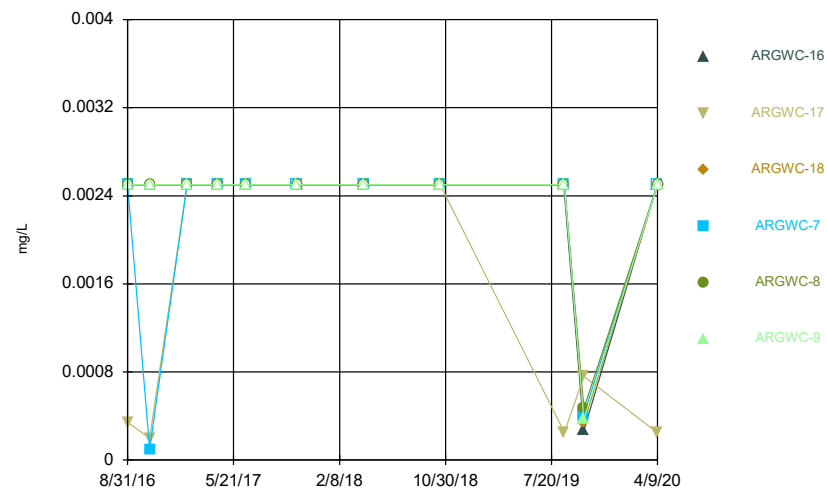
Constituent: Barium Analysis Run 6/8/2020 9:59 AM
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

Time Series



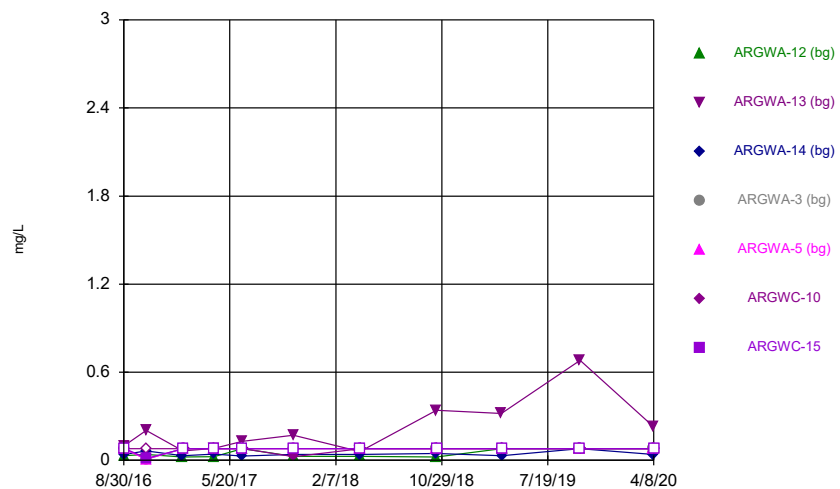
Constituent: Beryllium Analysis Run 6/8/2020 9:59 AM
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

Time Series



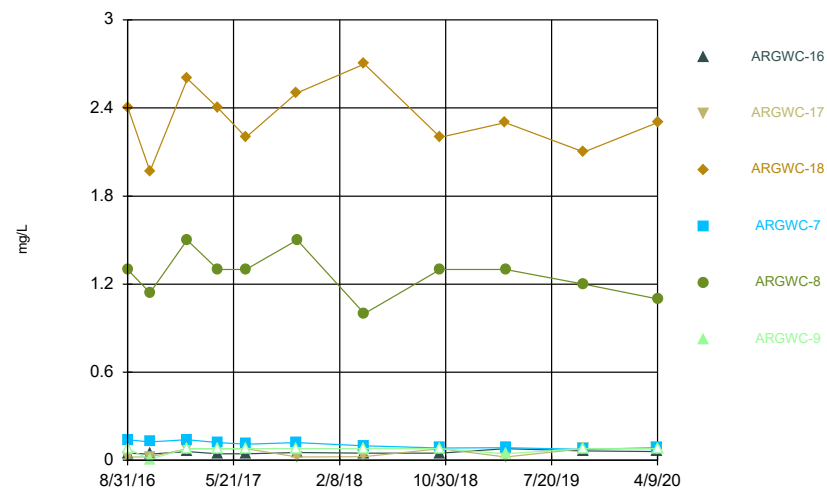
Constituent: Beryllium Analysis Run 6/8/2020 9:59 AM
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

Time Series



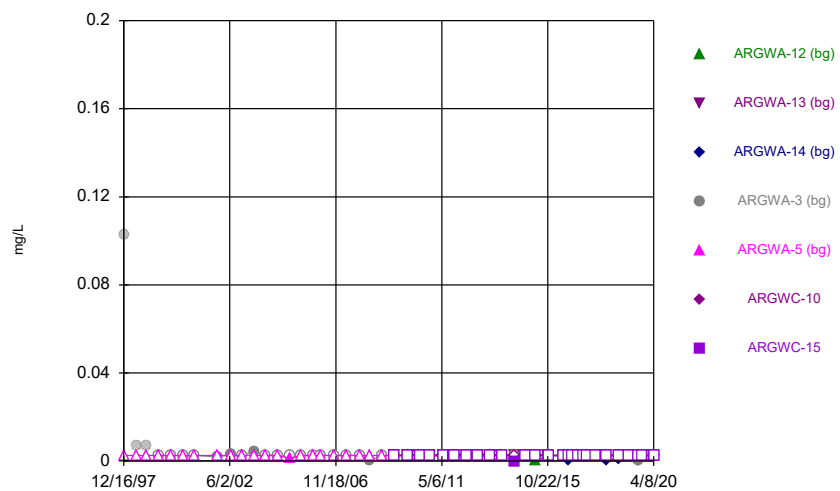
Constituent: Boron Analysis Run 6/8/2020 9:59 AM
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Time Series



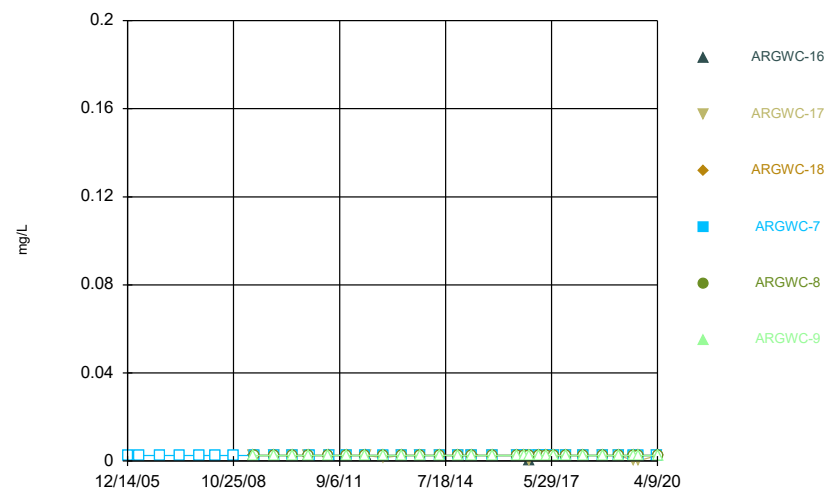
Constituent: Boron Analysis Run 6/8/2020 9:59 AM
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Time Series



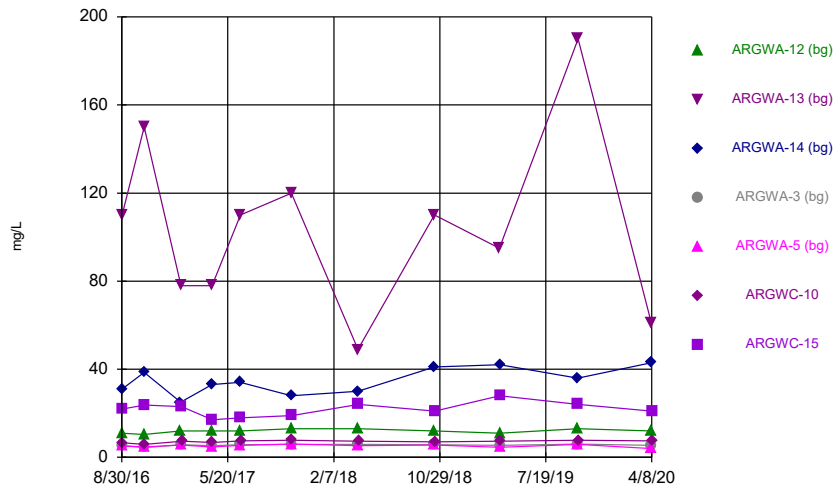
Constituent: Cadmium Analysis Run 6/8/2020 9:59 AM
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Time Series



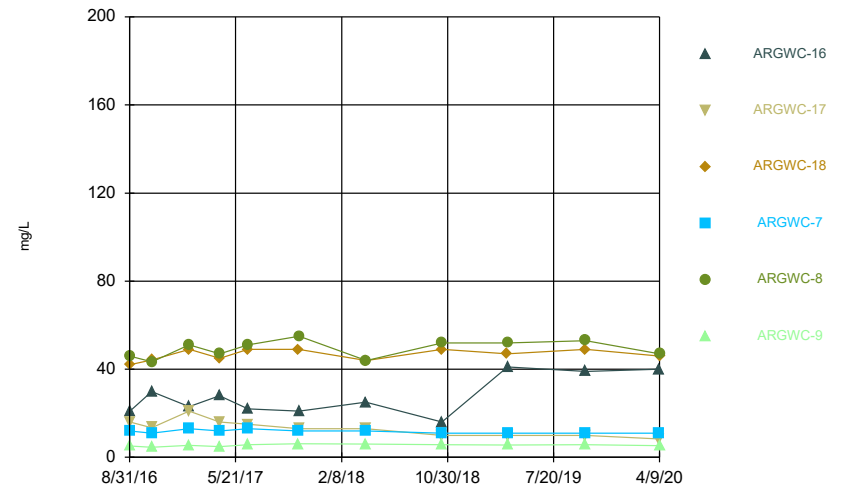
Constituent: Cadmium Analysis Run 6/8/2020 9:59 AM
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Time Series



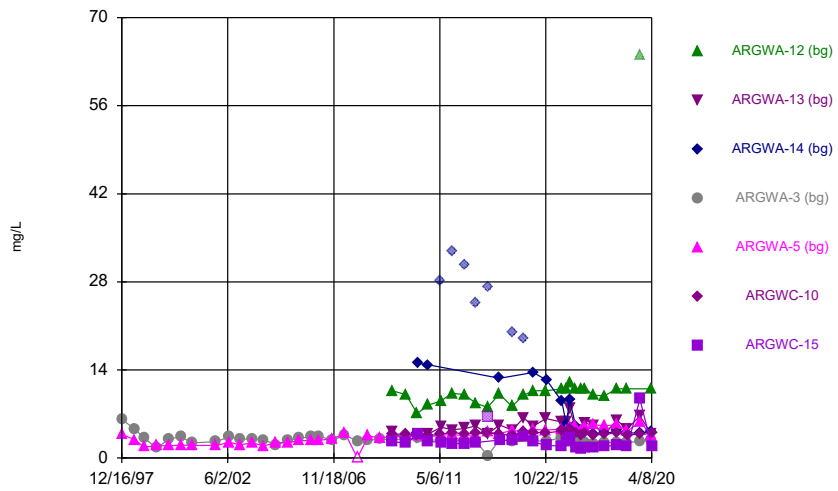
Constituent: Calcium Analysis Run 6/8/2020 9:59 AM
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

Time Series



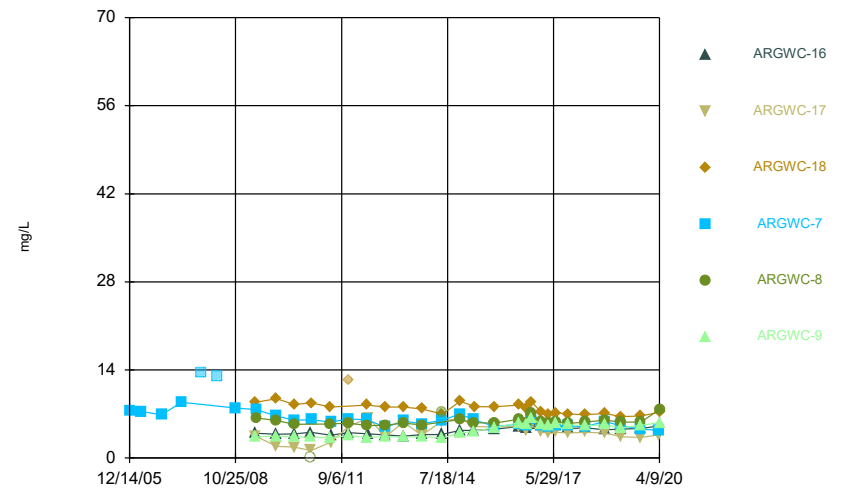
Constituent: Calcium Analysis Run 6/8/2020 9:59 AM
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

Time Series



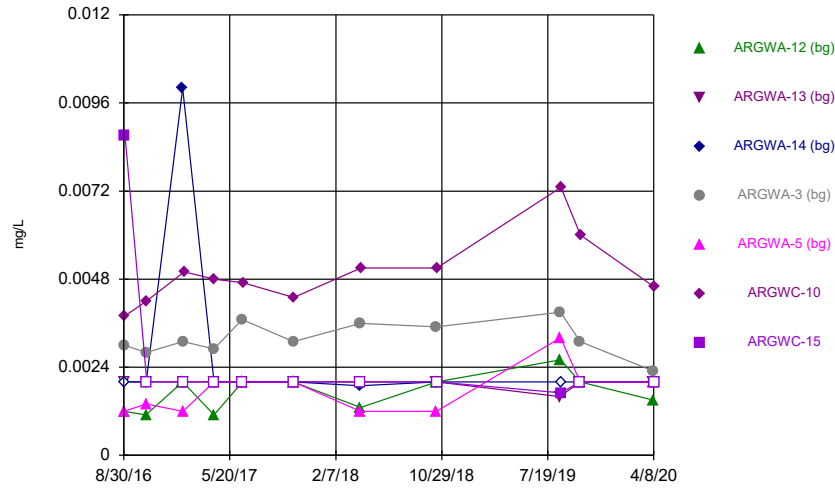
Constituent: Chloride Analysis Run 6/8/2020 9:59 AM
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

Time Series



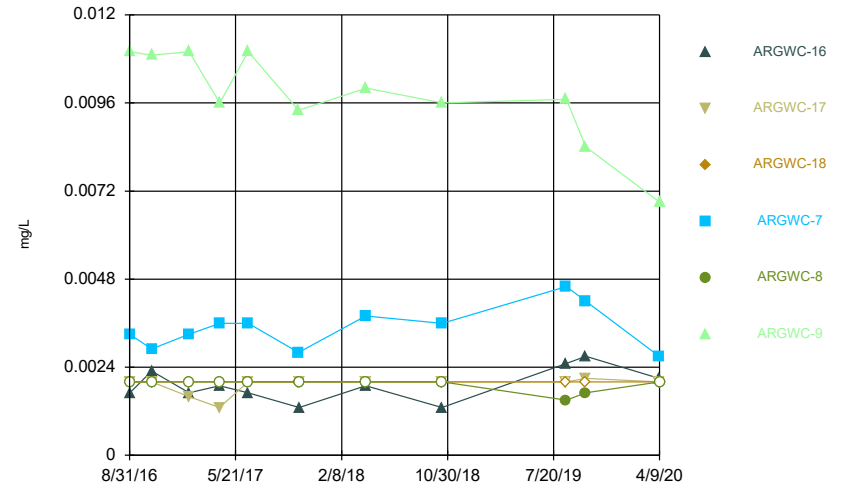
Constituent: Chloride Analysis Run 6/8/2020 9:59 AM
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

Time Series



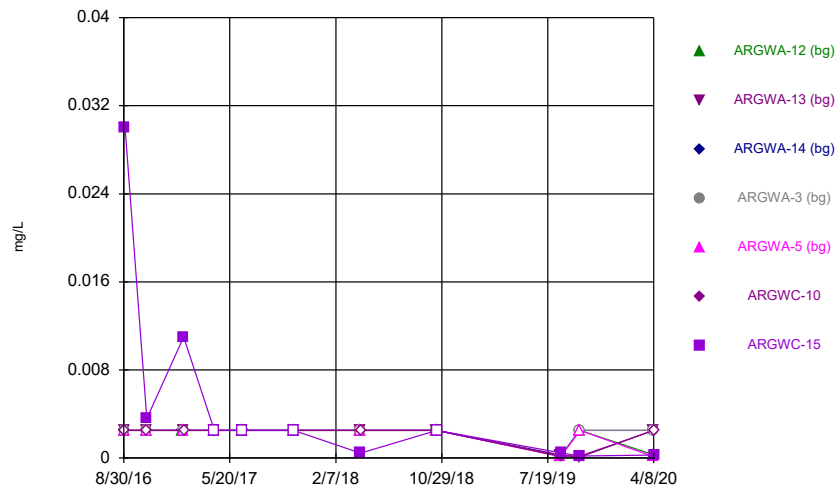
Constituent: Chromium Analysis Run 6/8/2020 9:59 AM
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Time Series



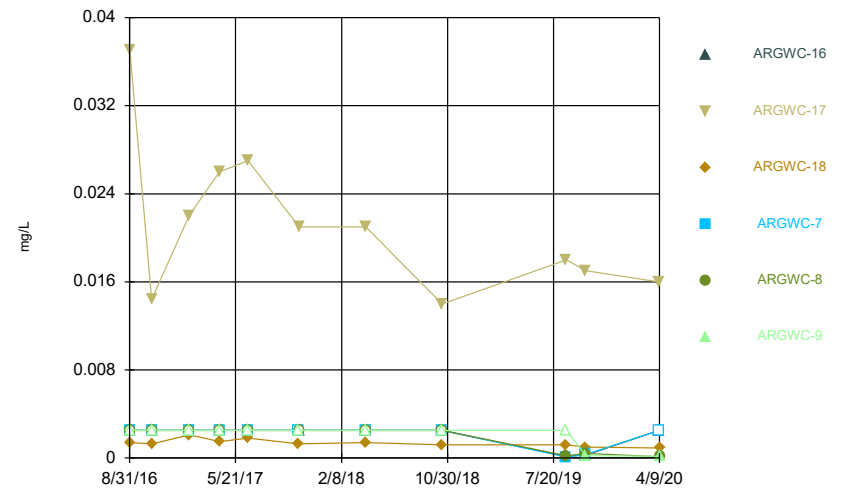
Constituent: Chromium Analysis Run 6/8/2020 9:59 AM
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Time Series



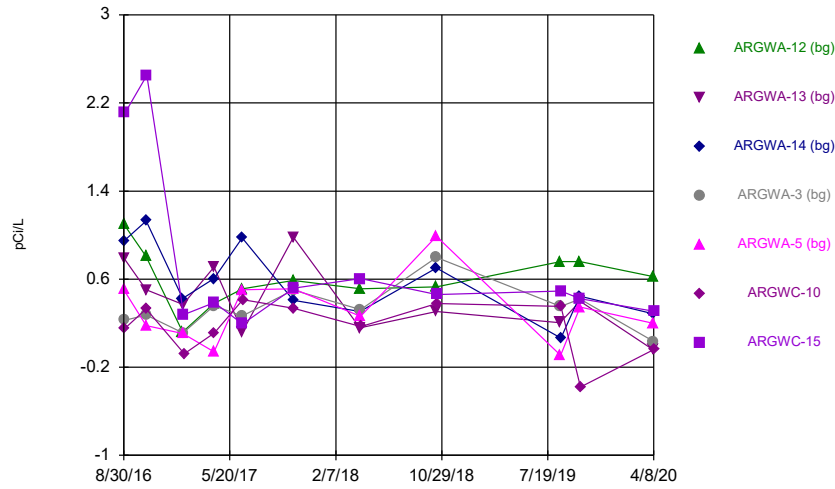
Constituent: Cobalt Analysis Run 6/8/2020 9:59 AM
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Time Series



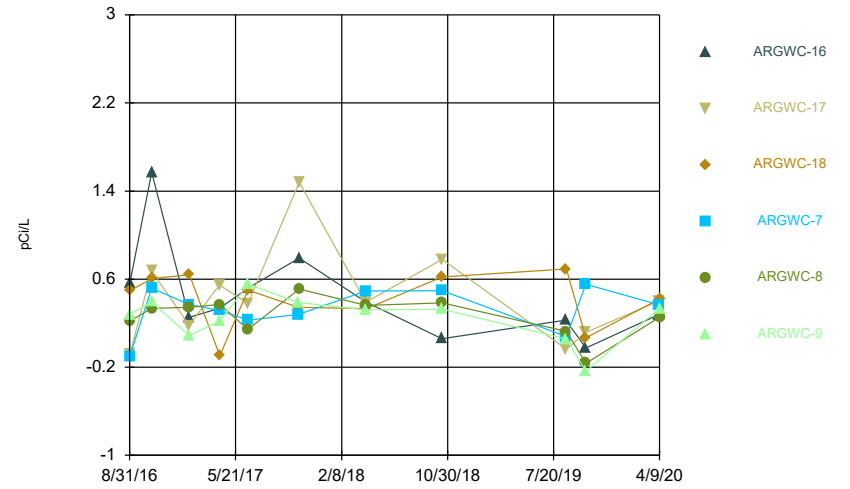
Constituent: Cobalt Analysis Run 6/8/2020 9:59 AM
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Time Series



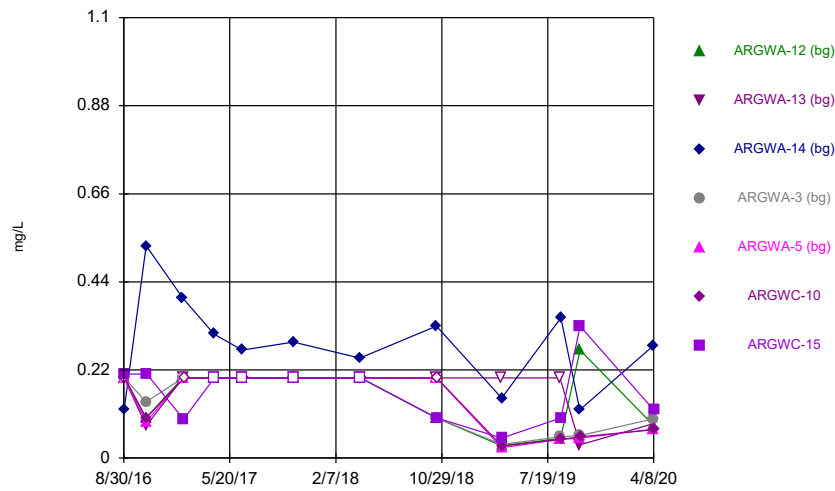
Constituent: Combined Radium 226 + 228 Analysis Run 6/8/2020 9:59 AM
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

Time Series



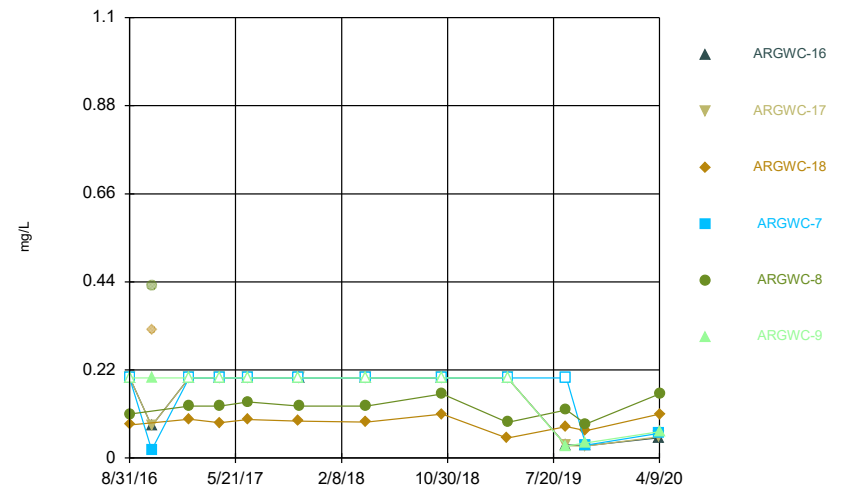
Constituent: Combined Radium 226 + 228 Analysis Run 6/8/2020 9:59 AM
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

Time Series



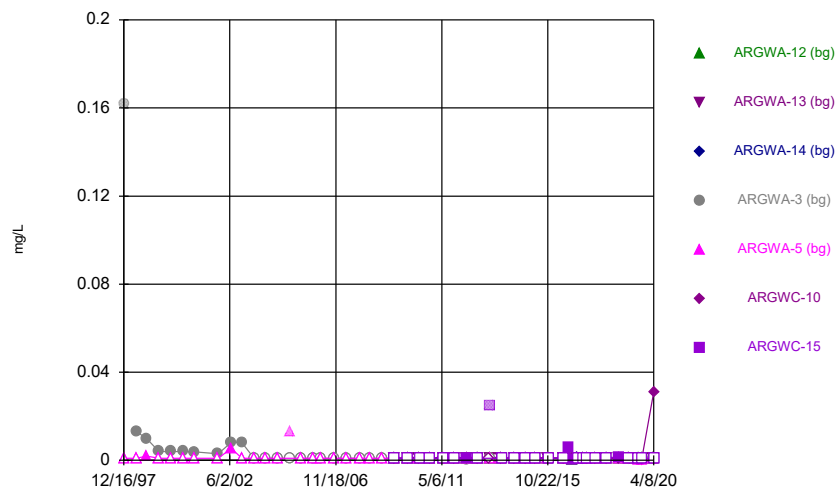
Constituent: Fluoride Analysis Run 6/8/2020 10:00 AM
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

Time Series



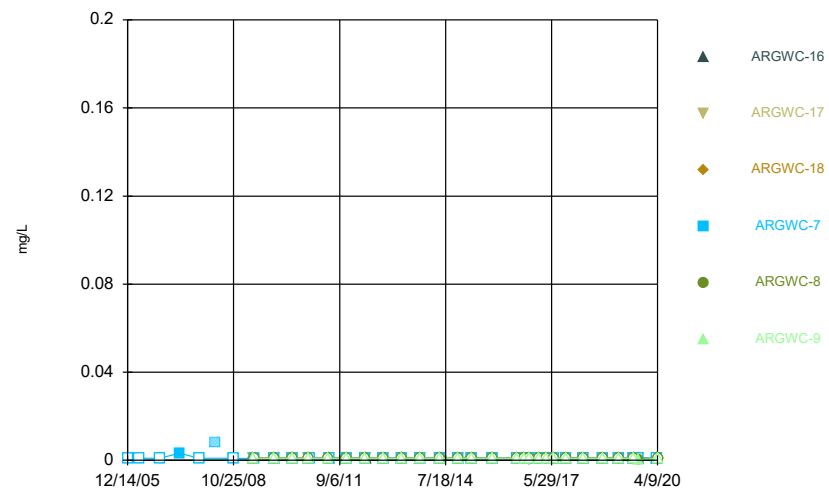
Constituent: Fluoride Analysis Run 6/8/2020 10:00 AM
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

Time Series



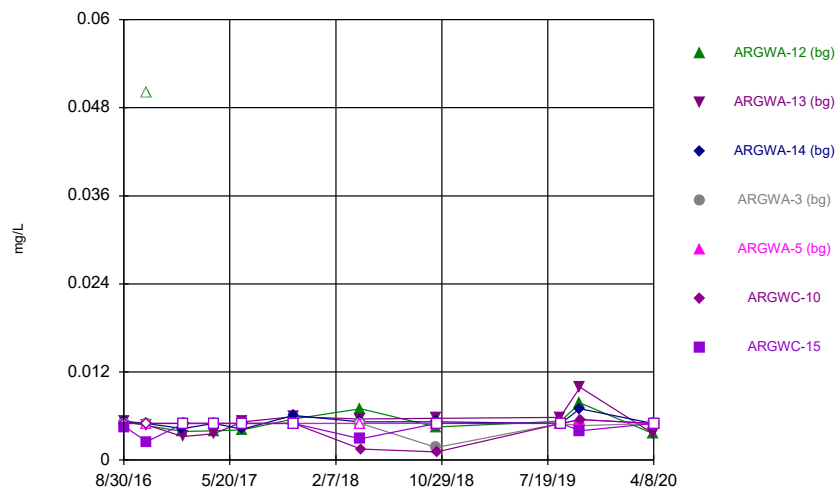
Constituent: Lead Analysis Run 6/8/2020 10:00 AM
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Time Series



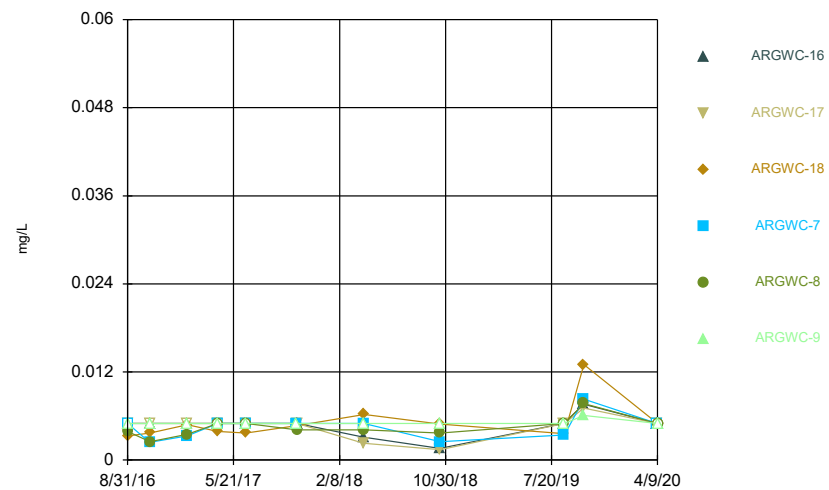
Constituent: Lead Analysis Run 6/8/2020 10:00 AM
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Time Series



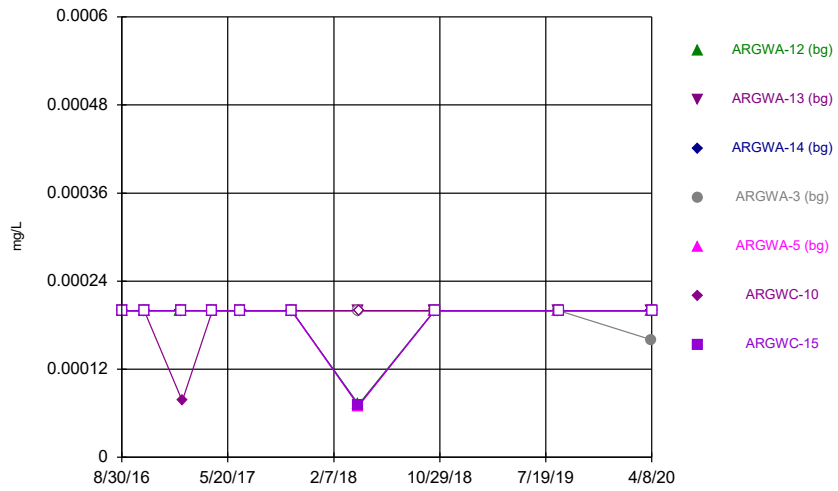
Constituent: Lithium Analysis Run 6/8/2020 10:00 AM
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Time Series



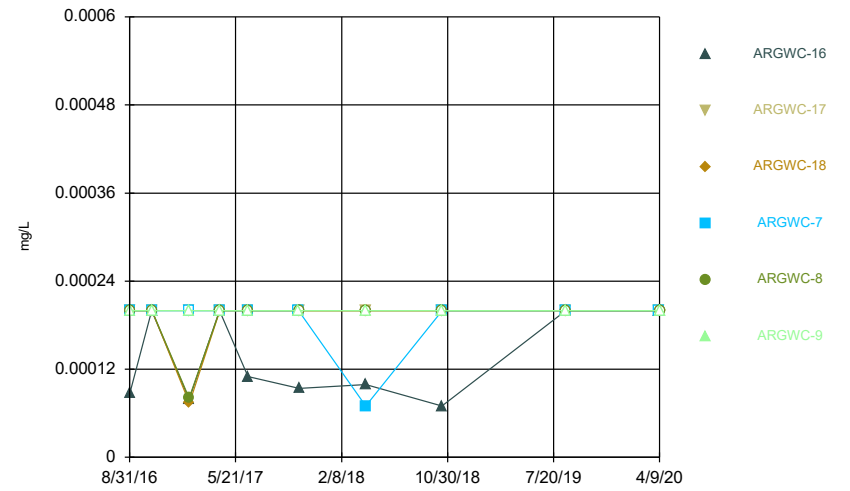
Constituent: Lithium Analysis Run 6/8/2020 10:00 AM
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Time Series



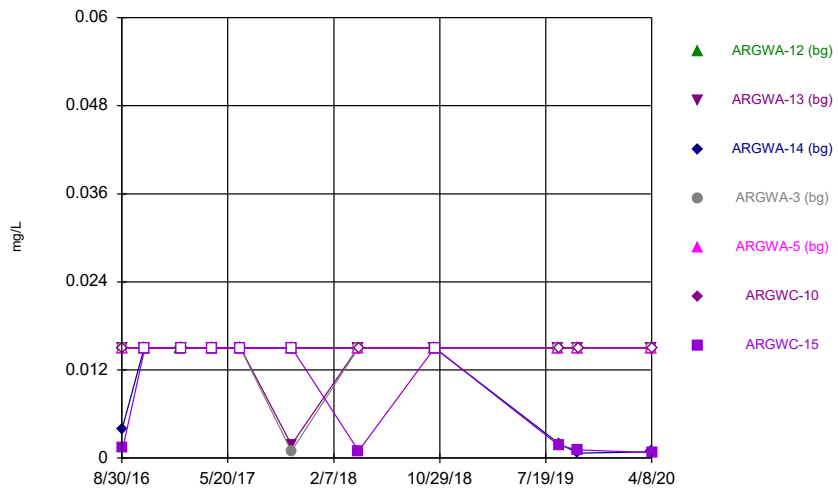
Constituent: Mercury Analysis Run 6/8/2020 10:00 AM
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Time Series



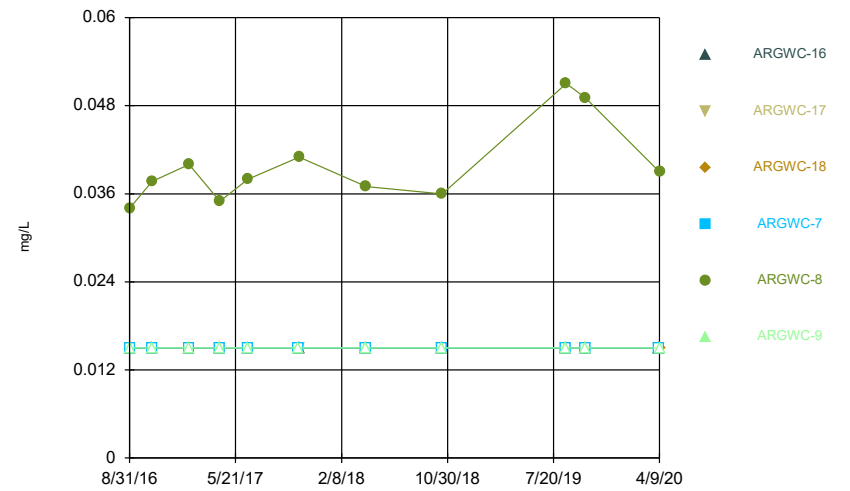
Constituent: Mercury Analysis Run 6/8/2020 10:00 AM
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Time Series



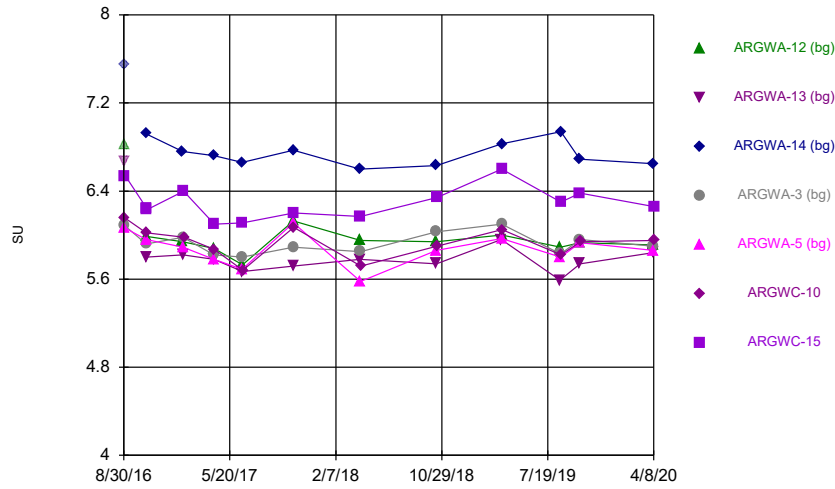
Constituent: Molybdenum Analysis Run 6/8/2020 10:00 AM
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Time Series



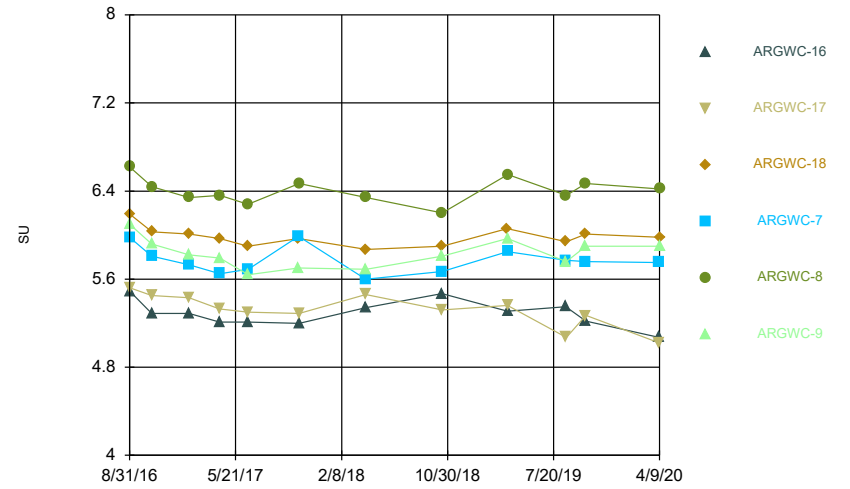
Constituent: Molybdenum Analysis Run 6/8/2020 10:00 AM
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Time Series



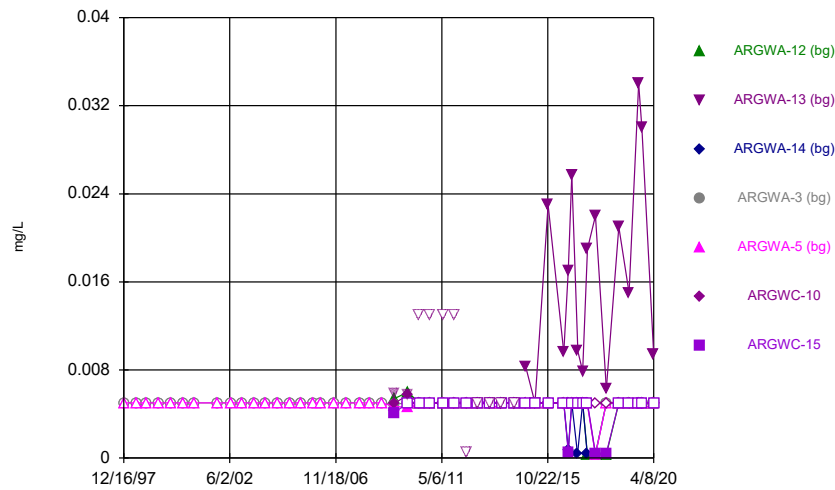
Constituent: pH Analysis Run 6/8/2020 10:00 AM
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Time Series



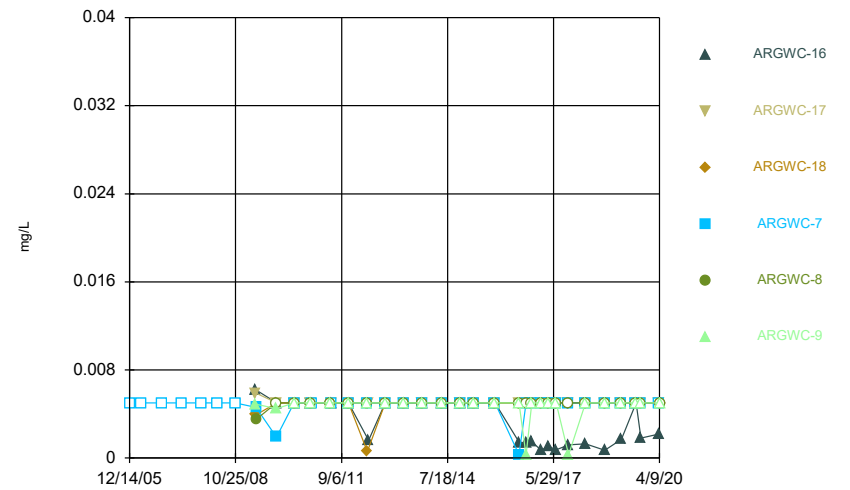
Constituent: pH Analysis Run 6/8/2020 10:00 AM
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Time Series



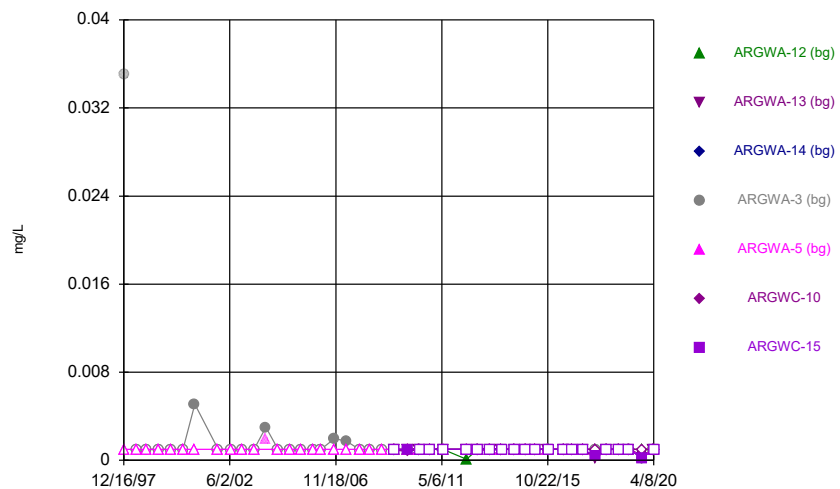
Constituent: Selenium Analysis Run 6/8/2020 10:00 AM
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Time Series



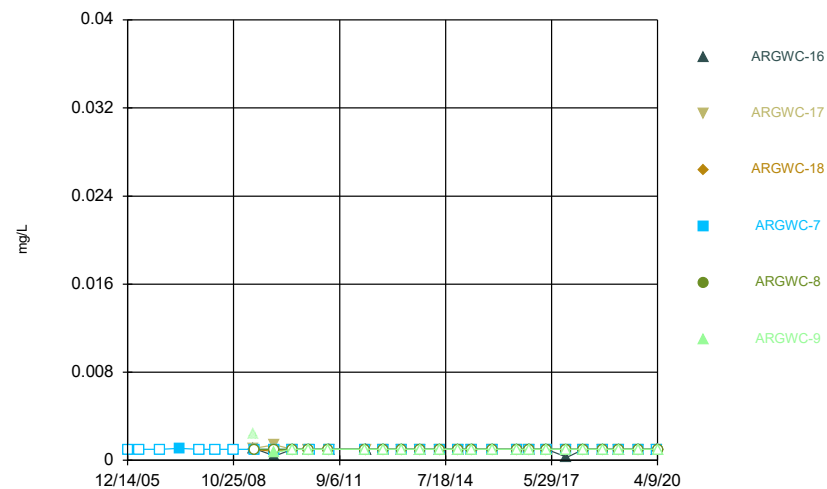
Constituent: Selenium Analysis Run 6/8/2020 10:00 AM
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Time Series



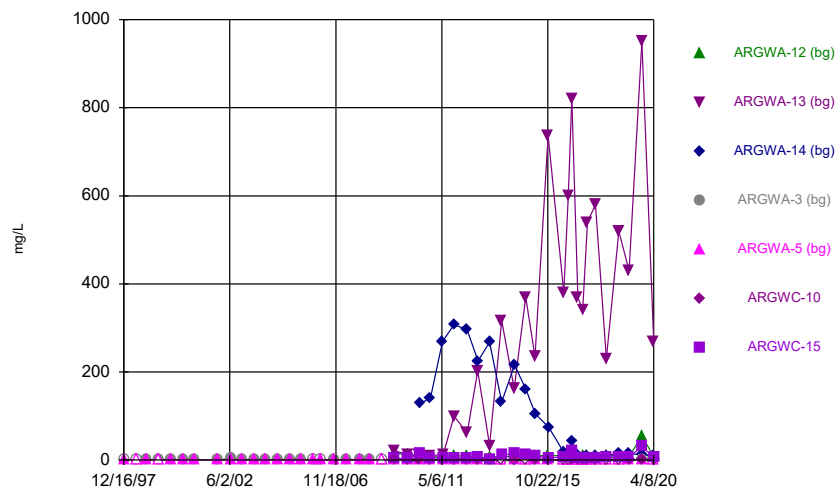
Constituent: Silver Analysis Run 6/8/2020 10:00 AM
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

Time Series



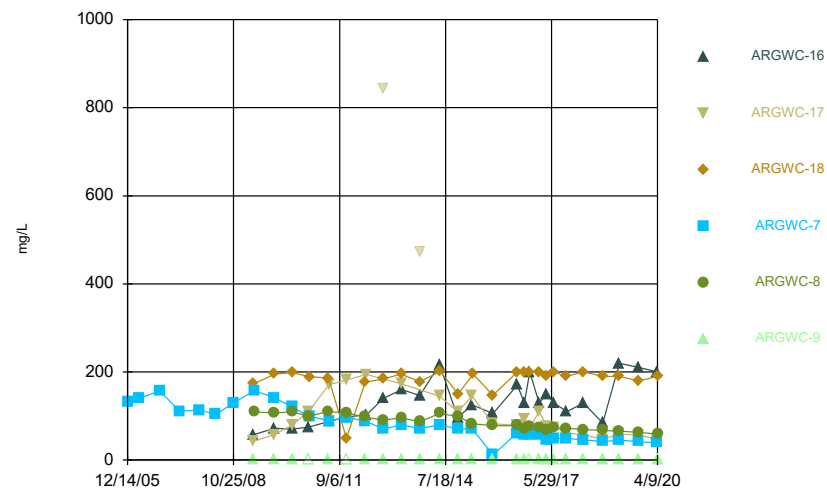
Constituent: Silver Analysis Run 6/8/2020 10:00 AM
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

Time Series



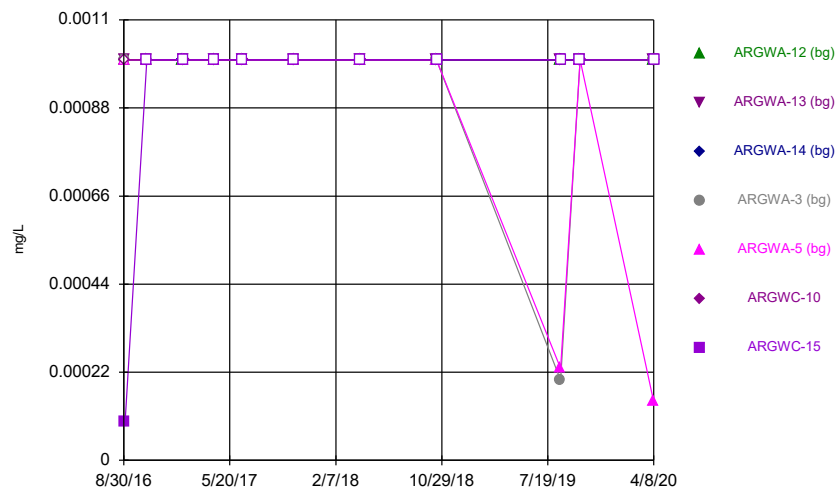
Constituent: Sulfate Analysis Run 6/8/2020 10:00 AM
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

Time Series



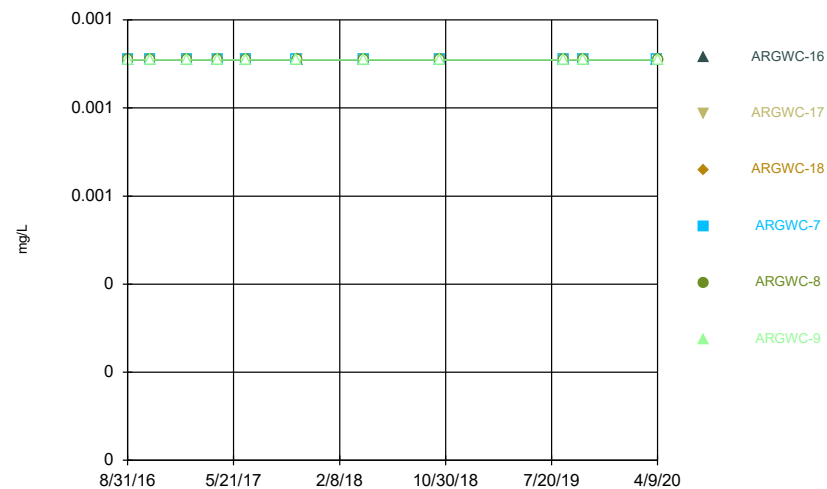
Constituent: Sulfate Analysis Run 6/8/2020 10:00 AM
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

Time Series



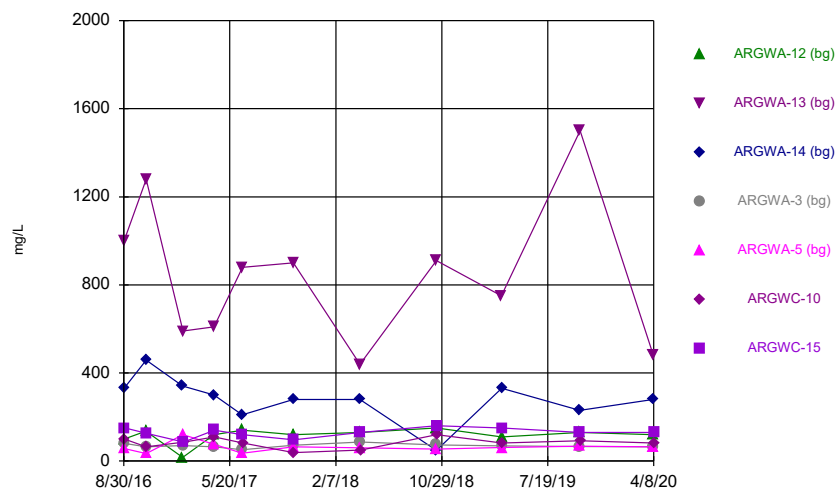
Constituent: Thallium Analysis Run 6/8/2020 10:00 AM
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Time Series



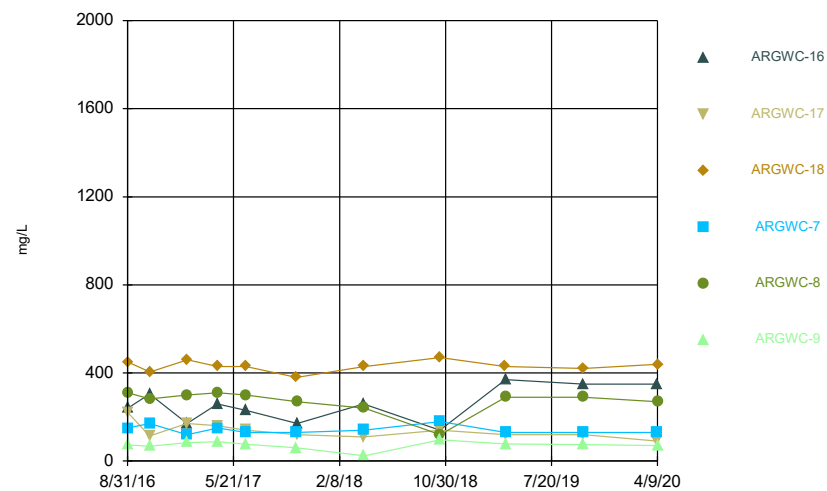
Constituent: Thallium Analysis Run 6/8/2020 10:00 AM
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Time Series



Constituent: Total Dissolved Solids Analysis Run 6/8/2020 10:00 AM
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Time Series



Constituent: Total Dissolved Solids Analysis Run 6/8/2020 10:00 AM
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Time Series

Constituent: Antimony (mg/L) Analysis Run 6/8/2020 10:00 AM
Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-12 (bg)	ARGWA-13 (bg)	ARGWA-14 (bg)	ARGWA-3 (bg)	ARGWA-5 (bg)	ARGWC-10	ARGWC-15
8/30/2016	<0.002				<0.002		
8/31/2016		<0.002	0.0017 (J)	<0.002			
9/1/2016						<0.002	
9/2/2016							<0.002
10/24/2016	<0.002						
10/25/2016		<0.002	<0.002	<0.002	<0.002	<0.002	
10/26/2016							<0.002
1/23/2017	<0.002		<0.002				
1/24/2017		<0.002		<0.002	<0.002		
1/26/2017							<0.002
1/27/2017						<0.002	
4/11/2017	<0.002	<0.002	<0.002	<0.002	<0.002		
4/12/2017						<0.002	<0.002
6/20/2017			<0.002	<0.002	<0.002		
6/21/2017	<0.002	<0.002					<0.002
6/22/2017						<0.002	
10/25/2017	<0.002	<0.002	<0.002	<0.002	<0.002		
10/26/2017						<0.002	<0.002
4/9/2018		<0.002	<0.002				
4/10/2018	<0.002			<0.002	<0.002		<0.002
4/11/2018						<0.002	
10/16/2018	<0.002	<0.002	<0.002	<0.002	<0.002		
10/17/2018						<0.002	<0.002
8/19/2019		<0.002					
8/20/2019	<0.002			<0.002	<0.002		
8/21/2019			0.00064 (J)			<0.002	<0.002
10/7/2019			<0.002				
10/8/2019	<0.002	<0.002		<0.002	<0.002		<0.002
10/9/2019						<0.002	
4/6/2020			<0.002				
4/7/2020	<0.002	<0.002		<0.002	<0.002		
4/8/2020						0.00094 (J)	<0.002

Time Series

Constituent: Antimony (mg/L) Analysis Run 6/8/2020 10:00 AM
Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-16	ARGWC-17	ARGWC-18	ARGWC-7	ARGWC-8	ARGWC-9
8/31/2016				<0.002	<0.002	<0.002
9/1/2016	<0.002	<0.002	<0.002			
10/25/2016	<0.002	<0.002		0.0013 (J)		<0.002
10/26/2016			<0.002		<0.002	
1/26/2017	<0.002	<0.002		<0.002	<0.002	<0.002
1/27/2017			<0.002			
4/11/2017	<0.002	<0.002				
4/12/2017			<0.002	<0.002	<0.002	<0.002
6/21/2017	<0.002	<0.002	<0.002		<0.002	
6/22/2017				<0.002		<0.002
10/25/2017			<0.002	<0.002		<0.002
10/26/2017	<0.002	<0.002			<0.002	
4/10/2018	<0.002	<0.002		<0.002		
4/11/2018			<0.002		<0.002	<0.002
10/16/2018	<0.002					
10/17/2018		<0.002	<0.002	<0.002	<0.002	<0.002
8/20/2019	<0.002					
8/21/2019		<0.002	<0.002	<0.002	<0.002	<0.002
10/9/2019	<0.002	<0.002	<0.002	<0.002	<0.002	0.00048 (J)
4/8/2020	<0.002	<0.002		<0.002		
4/9/2020			<0.002		<0.002	<0.002

Time Series

Constituent: Arsenic (mg/L) Analysis Run 6/8/2020 10:00 AM
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-12 (bg)	ARGWA-13 (bg)	ARGWA-14 (bg)	ARGWA-3 (bg)	ARGWA-5 (bg)	ARGWC-10	ARGWC-15
12/16/1997				0.002	<0.001		
6/30/1998				0.0006	<0.001		
12/2/1998				0.0007	<0.001		
6/8/1999				<0.001	<0.001		
12/7/1999				<0.001	<0.001		
6/15/2000				<0.001	<0.001		
12/12/2000				0.000475	0.00032		
12/5/2001				<0.001	0.0003		
6/26/2002				0.000431	0.000939		
12/3/2002				<0.001	<0.001		
6/11/2003				<0.001	<0.001		
12/10/2003				<0.001	<0.001		
6/15/2004				<0.001	<0.001		
12/14/2004				<0.001	<0.001		
6/2/2005				<0.001	<0.001		
12/14/2005				<0.001	<0.001		
4/5/2006				<0.001	<0.001		
10/30/2006				<0.001	<0.001		
5/10/2007				0.0044	<0.001		
11/17/2007				<0.001	<0.001		
5/3/2008				<0.001	<0.001		
10/22/2008				<0.001	<0.001		
5/5/2009							<0.001
5/6/2009	<0.001				<0.001		
5/7/2009		0.0013		0.0028			
5/13/2009						0.0042 (o)	
12/1/2009					<0.001		
12/3/2009	<0.001	<0.001				<0.001	
12/4/2009				<0.001			<0.001
5/25/2010	<0.001	<0.001			<0.001		
5/26/2010						<0.001	
6/1/2010				<0.001			<0.001
6/2/2010			<0.001				
11/9/2010	<0.001				<0.001	<0.001	
11/10/2010		<0.001	<0.001	<0.001			<0.001
5/19/2011			<0.001			<0.001	
5/24/2011	<0.001				<0.001		
5/25/2011		<0.001		<0.001			<0.001
11/9/2011			<0.001				<0.001
11/10/2011	<0.001	<0.001			<0.001		
11/11/2011						<0.001	
11/12/2011				<0.001			
5/17/2012						<0.001	
5/18/2012	<0.001				<0.001		
5/30/2012		<0.001	0.0026 (J)				
5/31/2012				<0.001			<0.001
11/9/2012	<0.001	<0.001			<0.001	<0.001	
11/10/2012							<0.001
11/11/2012			<0.001	<0.001			
5/7/2013						<0.001	
5/8/2013	<0.001				<0.001		
5/9/2013		<0.001	<0.001				

Time Series

Constituent: Arsenic (mg/L) Analysis Run 6/8/2020 10:00 AM
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-12 (bg)	ARGWA-13 (bg)	ARGWA-14 (bg)	ARGWA-3 (bg)	ARGWA-5 (bg)	ARGWC-10	ARGWC-15
5/13/2013				<0.001			<0.001
11/6/2013	<0.001				<0.001	<0.001	
11/11/2013		<0.001	<0.001				
11/12/2013				<0.001			<0.001
5/20/2014	<0.001				<0.001	<0.001	
5/21/2014		<0.001					
5/28/2014							<0.001
5/29/2014			0.005 (J)	<0.001			
11/17/2014					<0.001		
11/18/2014	<0.001	<0.001				<0.001	
11/19/2014			<0.001				
11/20/2014							<0.001
4/7/2015		<0.001			<0.001	<0.001	
4/14/2015	<0.001		<0.001	<0.001			<0.001
10/28/2015		<0.001			<0.001	<0.001	
10/29/2015	<0.001						
11/3/2015				<0.001			<0.001
11/4/2015			<0.001				
6/23/2016	<0.001	<0.001	0.0026	<0.001	<0.001	<0.001	<0.001
8/30/2016	<0.001				<0.001		
8/31/2016		<0.001	0.0032	<0.001			
9/1/2016						<0.001	
9/2/2016							0.00062 (J)
10/24/2016	<0.001						
10/25/2016		<0.001	<0.001	<0.001	<0.001	<0.001	
10/26/2016							<0.001
1/23/2017	<0.001		0.00088 (J)				
1/24/2017		<0.001		<0.001	<0.001		
1/26/2017							<0.001
1/27/2017						<0.001	
4/11/2017	0.00076 (J)	0.00063 (J)	0.00095 (J)	0.00067 (J)	0.00077 (J)		
4/12/2017						<0.001	<0.001
6/20/2017			0.00099 (J)	0.00064 (J)	0.00052 (J)		
6/21/2017	<0.001	<0.001					<0.001
6/22/2017						<0.001	
10/25/2017	<0.001	<0.001	<0.001	<0.001	<0.001		
10/26/2017						<0.001	<0.001
4/9/2018		<0.001	<0.001				
4/10/2018	<0.001			<0.001	<0.001		<0.001
4/11/2018						<0.001	
10/16/2018	<0.001	0.00055 (J)	0.00083 (J)	<0.001	<0.001		
10/17/2018						<0.001	<0.001
3/26/2019		0.00089 (J)					
3/27/2019	0.00049 (J)		0.0013	0.00055 (J)	0.00055 (J)		<0.001
3/28/2019						0.0011 (J)	
8/19/2019		0.00045 (J)					
8/20/2019	0.00046 (J)			0.00045 (J)	0.00058 (J)		
8/21/2019			0.0013			0.0004 (J)	0.00036 (J)
10/7/2019			0.00045 (J)				
10/8/2019	<0.001	<0.001		<0.001	<0.001		<0.001
10/9/2019						0.0019	
4/6/2020			<0.001				

Time Series

Constituent: Arsenic (mg/L) Analysis Run 6/8/2020 10:00 AM
Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-12 (bg)	ARGWA-13 (bg)	ARGWA-14 (bg)	ARGWA-3 (bg)	ARGWA-5 (bg)	ARGWC-10	ARGWC-15
4/7/2020	<0.001	<0.001		<0.001	<0.001		
4/8/2020						<0.001	<0.001

Time Series

Constituent: Arsenic (mg/L) Analysis Run 6/8/2020 10:00 AM
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-16	ARGWC-17	ARGWC-18	ARGWC-7	ARGWC-8	ARGWC-9
12/14/2005				<0.001		
4/5/2006				<0.001		
10/30/2006				<0.001		
5/10/2007				<0.001		
11/17/2007				<0.001		
5/2/2008				<0.001		
10/22/2008				<0.001		
5/12/2009	0.003 (o)	<0.001	0.0025 (o)			
5/13/2009						0.0034 (o)
5/14/2009				<0.001	<0.001	
12/1/2009				<0.001		
12/3/2009					<0.001	<0.001
12/4/2009		<0.001	<0.001			
12/5/2009	<0.001					
5/25/2010		<0.001	<0.001			
5/26/2010	<0.001			<0.001	<0.001	<0.001
11/9/2010	<0.001	<0.001			<0.001	<0.001
11/10/2010			<0.001	<0.001		
5/18/2011					<0.001	
5/19/2011			<0.001			<0.001
5/24/2011	<0.001	<0.001				
5/25/2011				<0.001		
11/11/2011				<0.001	<0.001	<0.001
11/12/2011	<0.001	<0.001	<0.001			
5/17/2012			<0.001	<0.001	<0.001	<0.001
5/30/2012	<0.001	<0.001				
11/9/2012	<0.001	0.01 (o)		<0.001	<0.001	<0.001
11/10/2012			<0.001			
5/7/2013			<0.001		<0.001	<0.001
5/8/2013		<0.001		<0.001		
5/13/2013	<0.001					
11/5/2013			<0.001	<0.001	<0.001	
11/6/2013	<0.001	<0.001				<0.001
5/20/2014		<0.001				
5/21/2014	<0.001			<0.001	<0.001	<0.001
5/28/2014			<0.001			
11/17/2014	<0.001	<0.001		<0.001		
11/18/2014					<0.001	<0.001
11/19/2014			<0.001			
4/7/2015	<0.001	<0.001		<0.001	<0.001	<0.001
4/15/2015			<0.001			
10/28/2015	<0.001	<0.001		<0.001	<0.001	<0.001
10/29/2015			<0.001			
6/23/2016				<0.001	<0.001	<0.001
6/24/2016	<0.001	<0.001	<0.001			
8/31/2016				<0.001	<0.001	<0.001
9/1/2016	<0.001	<0.001	<0.001			
10/25/2016	<0.001	<0.001		<0.001		<0.001
10/26/2016			<0.001		<0.001	
1/26/2017	<0.001	<0.001		<0.001	<0.001	<0.001
1/27/2017			<0.001			
4/11/2017	0.00067 (J)	0.00084 (J)				

Time Series

Constituent: Arsenic (mg/L) Analysis Run 6/8/2020 10:00 AM
Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-16	ARGWC-17	ARGWC-18	ARGWC-7	ARGWC-8	ARGWC-9
4/12/2017			<0.001	0.00078 (J)	0.00072 (J)	<0.001
6/21/2017	<0.001	<0.001	<0.001		<0.001	
6/22/2017				<0.001		<0.001
10/25/2017			<0.001	<0.001		<0.001
10/26/2017	<0.001	0.00087 (J)			<0.001	
4/10/2018	<0.001	<0.001		<0.001		
4/11/2018			<0.001		<0.001	<0.001
10/16/2018	<0.001					
10/17/2018		<0.001	0.00066 (J)	<0.001	0.00063 (J)	<0.001
3/27/2019			<0.001			
3/28/2019	0.00057 (J)	<0.001		<0.001	<0.001	0.00051 (J)
8/20/2019	<0.001					
8/21/2019		0.00044 (J)	0.00033 (J)	<0.001	0.00036 (J)	<0.001
10/9/2019	0.001	0.0015	0.0016	0.0015	0.0014	0.0011
4/8/2020	<0.001	<0.001		<0.001		
4/9/2020			<0.001		<0.001	<0.001

Time Series

Constituent: Barium (mg/L) Analysis Run 6/8/2020 10:00 AM
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-12 (bg)	ARGWA-13 (bg)	ARGWA-14 (bg)	ARGWA-3 (bg)	ARGWA-5 (bg)	ARGWC-10	ARGWC-15
12/16/1997				2.12 (o)	0.032		
6/30/1998				0.177	0.028		
12/2/1998				0.115	0.032		
6/8/1999				0.074	0.0287		
12/7/1999				0.043	0.034		
6/15/2000				0.113	0.034		
12/12/2000				0.059	0.027		
12/5/2001				0.052	0.027		
6/26/2002				0.087	0.032		
12/3/2002				0.043	0.023		
6/11/2003				0.24	0.04		
12/10/2003				0.03	0.024		
6/15/2004				0.028	0.021		
12/14/2004				0.017	0.025		
6/2/2005				0.019	0.025		
12/14/2005				0.02	0.026		
4/5/2006				0.019	0.027		
10/30/2006				<0.001 (o)	0.027		
5/10/2007				0.017	0.024		
11/17/2007				0.015	0.026		
5/3/2008				0.017	0.022		
10/22/2008				0.11	0.027		
5/5/2009							0.042
5/6/2009	0.065				0.023		
5/7/2009		0.068		0.13			
5/13/2009						0.15 (o)	
12/1/2009					0.033		
12/3/2009	0.062	0.044				0.03	
12/4/2009				0.019			0.051
5/25/2010	0.038 (o)	0.049			0.03		
5/26/2010						0.029	
6/1/2010				0.027			0.055
6/2/2010			0.046				
11/9/2010	0.059				0.033	0.029	
11/10/2010		0.052	0.057	0.025			0.041
5/19/2011			0.048			0.027	
5/24/2011	0.054				0.027		
5/25/2011		0.045		0.015			0.035
11/9/2011			0.045				0.035
11/10/2011	0.063	0.11			0.032		
11/11/2011						0.031	
11/12/2011				0.021			
5/17/2012						0.0299	
5/18/2012	0.0646				0.0311		
5/30/2012		0.0831	0.0519				
5/31/2012				0.0222			0.0372
11/9/2012	0.081	0.13			0.034	0.03	
11/10/2012							0.044
11/11/2012			0.051	0.022			
5/7/2013						0.028	
5/8/2013	0.066				0.026		
5/9/2013		0.059	0.056				

Time Series

Constituent: Barium (mg/L) Analysis Run 6/8/2020 10:00 AM
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-12 (bg)	ARGWA-13 (bg)	ARGWA-14 (bg)	ARGWA-3 (bg)	ARGWA-5 (bg)	ARGWC-10	ARGWC-15
5/13/2013				0.019			0.2 (o)
11/6/2013	0.074				0.028	0.033	
11/11/2013		0.12	0.041				
11/12/2013				0.025			0.035
5/20/2014	0.057				0.027	0.029	
5/21/2014		0.073					
5/28/2014							0.038
5/29/2014			0.051	0.024			
11/17/2014					0.029		
11/18/2014	0.069	0.072				0.029	
11/19/2014			0.051				
11/20/2014							0.037
4/7/2015		0.06			0.024	0.028	
4/14/2015	0.067		0.043	0.022			0.035
10/28/2015		0.057			0.028	0.029	
10/29/2015	0.069						
11/3/2015				0.022			0.038
11/4/2015			0.042				
6/23/2016	0.063	0.036	0.084 (o)	0.019	0.025	0.028	0.028
8/30/2016	0.062				0.026		
8/31/2016		0.041	0.076	0.018			
9/1/2016						0.027	
9/2/2016							0.074
10/24/2016	0.0674						
10/25/2016		0.0429	0.039	0.016	0.0293	0.0296	
10/26/2016							0.0408
1/23/2017	0.069		0.044				
1/24/2017		0.025		0.017	0.028		
1/26/2017							0.038
1/27/2017						0.035	
4/11/2017	0.064	0.024	0.038	0.016	0.024		
4/12/2017						0.031	0.03
6/20/2017			0.057	0.02	0.027		
6/21/2017	0.074	0.034					0.028
6/22/2017						0.035	
10/25/2017	0.07	0.03	0.05	0.019	0.03		
10/26/2017						0.032	0.029
4/9/2018		0.023	0.049				
4/10/2018	0.073			0.019	0.028		0.032
4/11/2018						0.034	
10/16/2018	0.069	0.028	0.06	0.018	0.027		
10/17/2018						0.031	0.028
3/26/2019		0.029					
3/27/2019	0.063		0.054	0.019	0.024		0.032
3/28/2019						0.031	
8/19/2019		0.035					
8/20/2019	0.075			0.02	0.029		
8/21/2019			0.031			0.035	0.033
10/7/2019			0.033				
10/8/2019	0.078	0.042		0.02	0.03		0.031
10/9/2019						0.031	
4/6/2020			0.051				

Time Series

Constituent: Barium (mg/L) Analysis Run 6/8/2020 10:00 AM
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-16	ARGWC-17	ARGWC-18	ARGWC-7	ARGWC-8	ARGWC-9
12/14/2005				0.027		
4/5/2006				0.029		
10/30/2006				0.028		
5/10/2007				0.025		
11/17/2007				0.026		
5/2/2008				0.026		
10/22/2008				0.033		
5/12/2009	0.16 (o)	0.048	0.055			
5/13/2009						0.14 (o)
5/14/2009				0.035	0.039	
12/1/2009				0.031		
12/3/2009					0.036	0.032
12/4/2009		0.055	0.036			
12/5/2009	0.062					
5/25/2010		0.063	0.033			
5/26/2010	0.065			0.025	0.036	0.031
11/9/2010	0.065	0.11			0.038	0.03
11/10/2010			0.038	0.027		
5/18/2011					0.032	
5/19/2011			0.028			0.028
5/24/2011	0.062	0.11				
5/25/2011				0.022		
11/11/2011				0.027	0.036	0.032
11/12/2011	0.067	0.086	0.092 (o)			
5/17/2012			0.0427	0.0265	0.0353	0.0319
5/30/2012	0.0767	0.0586				
11/9/2012	0.093	0.4 (o)		0.028	0.038	0.036
11/10/2012			0.038			
5/7/2013			0.03		0.037	0.035
5/8/2013		0.054		0.026		
5/13/2013	0.093					
11/5/2013			0.087 (o)	0.027	0.037	
11/6/2013	0.068	0.043				0.043
5/20/2014		0.051				
5/21/2014	0.072			0.028	0.037	0.042
5/28/2014			0.032			
11/17/2014	0.05	0.049		0.031		
11/18/2014					0.038	0.044
11/19/2014			0.058			
4/7/2015	0.055	0.043		0.029	0.045	0.043
4/15/2015			0.039			
10/28/2015	0.054	0.047		0.032	0.042	0.045
10/29/2015			0.04			
6/23/2016				0.031	0.039	0.043
6/24/2016	0.056	0.044	0.034			
8/31/2016				0.03	0.037	0.042
9/1/2016	0.051	0.046	0.033			
10/25/2016	0.0637	0.0436		0.0317		0.0455
10/26/2016			0.0339		0.0423	
1/26/2017	0.055	0.051		0.035	0.046	0.048
1/27/2017			0.037			
4/11/2017	0.055	0.043				

Time Series

Constituent: Barium (mg/L) Analysis Run 6/8/2020 10:00 AM
Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-16	ARGWC-17	ARGWC-18	ARGWC-7	ARGWC-8	ARGWC-9
4/12/2017			0.032	0.034	0.041	0.045
6/21/2017	0.054	0.043	0.036		0.049	
6/22/2017				0.038		0.055
10/25/2017			0.041	0.038		0.049
10/26/2017	0.046	0.038			0.046	
4/10/2018	0.056	0.046		0.038		
4/11/2018			0.04		0.048	0.052
10/16/2018	0.039					
10/17/2018		0.043	0.039	0.038	0.045	0.046
3/27/2019			0.033			
3/28/2019	0.054	0.045		0.038	0.045	0.047
8/20/2019	0.046					
8/21/2019		0.05	0.036	0.041	0.052	0.045
10/9/2019	0.057	0.049	0.039	0.046	0.049	0.041
4/8/2020	0.042	0.045		0.039		
4/9/2020			0.041		0.045	0.044

Time Series

Constituent: Beryllium (mg/L) Analysis Run 6/8/2020 10:00 AM
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-12 (bg)	ARGWA-13 (bg)	ARGWA-14 (bg)	ARGWA-3 (bg)	ARGWA-5 (bg)	ARGWC-10	ARGWC-15
8/30/2016	<0.0025				<0.0025		
8/31/2016		<0.0025	<0.0025	<0.0025			
9/1/2016						<0.0025	
9/2/2016							<0.0025
10/24/2016	<0.0025						
10/25/2016		<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	
10/26/2016							<0.0025
1/23/2017	<0.0025		<0.0025				
1/24/2017		<0.0025		<0.0025	<0.0025		
1/26/2017							<0.0025
1/27/2017						<0.0025	
4/11/2017	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025		
4/12/2017						<0.0025	<0.0025
6/20/2017			<0.0025	<0.0025	<0.0025		
6/21/2017	<0.0025	<0.0025					<0.0025
6/22/2017						<0.0025	
10/25/2017	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025		
10/26/2017						<0.0025	<0.0025
4/9/2018		<0.0025	<0.0025				
4/10/2018	<0.0025			<0.0025	<0.0025		<0.0025
4/11/2018						<0.0025	
10/16/2018	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025		
10/17/2018						<0.0025	<0.0025
8/19/2019		<0.0025					
8/20/2019	<0.0025			0.00025 (J)	0.00035 (J)		
8/21/2019			<0.0025			<0.0025	<0.0025
10/7/2019			<0.0025				
10/8/2019	<0.0025	<0.0025		<0.0025	0.00041 (J)		<0.0025
10/9/2019						<0.0025	
4/6/2020			<0.0025				
4/7/2020	<0.0025	<0.0025		<0.0025	<0.0025		
4/8/2020						<0.0025	<0.0025

Time Series

Constituent: Beryllium (mg/L) Analysis Run 6/8/2020 10:00 AM
Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-16	ARGWC-17	ARGWC-18	ARGWC-7	ARGWC-8	ARGWC-9
8/31/2016				<0.0025	<0.0025	<0.0025
9/1/2016	<0.0025	0.00034 (J)	<0.0025			
10/25/2016	<0.0025	0.0002 (J)		0.0001 (J)		<0.0025
10/26/2016			<0.0025		<0.0025	
1/26/2017	<0.0025	<0.0025		<0.0025	<0.0025	<0.0025
1/27/2017			<0.0025			
4/11/2017	<0.0025	<0.0025				
4/12/2017			<0.0025	<0.0025	<0.0025	<0.0025
6/21/2017	<0.0025	<0.0025	<0.0025		<0.0025	
6/22/2017				<0.0025		<0.0025
10/25/2017			<0.0025	<0.0025		<0.0025
10/26/2017	<0.0025	<0.0025			<0.0025	
4/10/2018	<0.0025	<0.0025		<0.0025		
4/11/2018			<0.0025		<0.0025	<0.0025
10/16/2018	<0.0025					
10/17/2018		<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
8/20/2019	<0.0025					
8/21/2019		0.00025 (J)	<0.0025	<0.0025	<0.0025	<0.0025
10/9/2019	0.00027 (J)	0.00076 (J)	0.00034 (J)	0.00041 (J)	0.00047 (J)	0.00037 (J)
4/8/2020	<0.0025	0.00025 (J)		<0.0025		
4/9/2020			<0.0025		<0.0025	<0.0025

Time Series

Constituent: Boron (mg/L) Analysis Run 6/8/2020 10:00 AM
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-12 (bg)	ARGWA-13 (bg)	ARGWA-14 (bg)	ARGWA-3 (bg)	ARGWA-5 (bg)	ARGWC-10	ARGWC-15
8/30/2016	0.032 (J)				<0.08		
8/31/2016		0.1	0.04 (J)	<0.08			
9/1/2016						<0.08	
9/2/2016							<0.08
10/24/2016	0.0406 (J)						
10/25/2016		0.204	0.065 (J)	0.0068 (J)	0.0073 (J)	<0.08	
10/26/2016							0.0138 (J)
1/23/2017	0.023 (J)		0.031 (J)				
1/24/2017		0.064		<0.08	<0.08		
1/26/2017							<0.08
1/27/2017						<0.08	
4/11/2017	0.025 (J)	0.081	0.043 (J)	<0.08	<0.08		
4/12/2017						<0.08	<0.08
6/20/2017			0.029 (J)	<0.08	<0.08		
6/21/2017	<0.08	0.13					<0.08
6/22/2017						<0.08	
10/25/2017	0.028 (J)	0.17	0.041 (J)	<0.08	<0.08		
10/26/2017						0.026 (J)	<0.08
4/9/2018		0.059	0.04 (J)				
4/10/2018	0.027 (J)			<0.08	<0.08		<0.08
4/11/2018						<0.08	
10/16/2018	0.023 (J)	0.34	0.046 (J)	<0.08	<0.08		
10/17/2018						<0.08	<0.08
3/26/2019		0.32					
3/27/2019	<0.08		0.032 (J)	<0.08	<0.08		<0.08
3/28/2019						<0.08	
10/7/2019			<0.08				
10/8/2019	<0.08	0.68		<0.08	<0.08		<0.08
10/9/2019						<0.08	
4/6/2020			0.041 (J)				
4/7/2020	<0.08	0.23		<0.08	<0.08		
4/8/2020						<0.08	<0.08

Time Series

Constituent: Boron (mg/L) Analysis Run 6/8/2020 10:00 AM
Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-16	ARGWC-17	ARGWC-18	ARGWC-7	ARGWC-8	ARGWC-9
8/31/2016				0.14	1.3	<0.08
9/1/2016	0.049 (J)	0.022 (J)	2.4			
10/25/2016	0.042 (J)	0.0219 (J)		0.126		0.0071 (J)
10/26/2016			1.97		1.14	
1/26/2017	0.059	<0.08		0.14	1.5	<0.08
1/27/2017			2.6			
4/11/2017	0.045 (J)	<0.08				
4/12/2017			2.4	0.12	1.3	<0.08
6/21/2017	0.045 (J)	<0.08	2.2		1.3	
6/22/2017				0.11		<0.08
10/25/2017			2.5	0.12		<0.08
10/26/2017	0.054	0.023 (J)			1.5	
4/10/2018	0.048 (J)	0.026 (J)		0.1		
4/11/2018			2.7		1	<0.08
10/16/2018	0.048 (J)					
10/17/2018		<0.08	2.2	0.084	1.3	<0.08
3/27/2019			2.3			
3/28/2019	0.08	0.022 (J)		0.087	1.3	0.044 (J)
10/9/2019	0.065 (J)	<0.08	2.1	0.076 (J)	1.2	<0.08
4/8/2020	0.059 (J)	<0.08		0.086		
4/9/2020			2.3		1.1	<0.08

Time Series

Constituent: Cadmium (mg/L) Analysis Run 6/8/2020 10:00 AM
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-12 (bg)	ARGWA-13 (bg)	ARGWA-14 (bg)	ARGWA-3 (bg)	ARGWA-5 (bg)	ARGWC-10	ARGWC-15
12/16/1997				0.103 (o)	<0.0025		
6/30/1998				0.007 (o)	<0.0025		
12/2/1998				0.007 (o)	<0.0025		
6/8/1999				<0.0025	<0.0025		
12/7/1999				<0.0025	<0.0025		
6/15/2000				<0.0025	<0.0025		
12/12/2000				<0.0025	<0.0025		
12/5/2001				0.002	<0.0025		
6/26/2002				0.003	<0.0025		
12/3/2002				<0.0025	<0.0025		
6/11/2003				0.0043	<0.0025		
12/10/2003				<0.0025	<0.0025		
6/15/2004				<0.0025	<0.0025		
12/14/2004				<0.0025	0.0012		
6/2/2005				<0.0025	<0.0025		
12/14/2005				<0.0025	<0.0025		
4/5/2006				<0.0025	<0.0025		
10/30/2006				<0.0025	<0.0025		
5/10/2007				<0.0025	<0.0025		
11/17/2007				<0.0025	<0.0025		
5/3/2008				0.00033	<0.0025		
10/22/2008				<0.0025	<0.0025		
5/5/2009							<0.0025
5/6/2009	<0.0025				<0.0025		
5/7/2009		<0.0025		<0.0025			
5/13/2009						<0.0025	
12/1/2009					<0.0025		
12/3/2009	<0.0025	<0.0025				<0.0025	
12/4/2009				<0.0025			<0.0025
5/25/2010	<0.0025	<0.0025			<0.0025		
5/26/2010						<0.0025	
6/1/2010				<0.0025			<0.0025
6/2/2010			<0.0025				
11/9/2010	<0.0025				<0.0025	<0.0025	
11/10/2010		<0.0025	<0.0025	<0.0025			<0.0025
5/19/2011			<0.0025			<0.0025	
5/24/2011	<0.0025				<0.0025		
5/25/2011		<0.0025		<0.0025			<0.0025
11/9/2011			<0.0025				<0.0025
11/10/2011	<0.0025	<0.0025			<0.0025		
11/11/2011						<0.0025	
11/12/2011				<0.0025			
5/17/2012						<0.0025	
5/18/2012	<0.0025				<0.0025		
5/30/2012		<0.0025	<0.0025				
5/31/2012				<0.0025			<0.0025
11/9/2012	<0.0025	<0.0025			<0.0025	<0.0025	
11/10/2012							<0.0025
11/11/2012			<0.0025	<0.0025			
5/7/2013						<0.0025	
5/8/2013	<0.0025				<0.0025		
5/9/2013		<0.0025	<0.0025				

Time Series

Constituent: Cadmium (mg/L) Analysis Run 6/8/2020 10:00 AM
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-12 (bg)	ARGWA-13 (bg)	ARGWA-14 (bg)	ARGWA-3 (bg)	ARGWA-5 (bg)	ARGWC-10	ARGWC-15
5/13/2013				<0.0025			<0.0025
11/6/2013	<0.0025				<0.0025	<0.0025	
11/11/2013		<0.0025	<0.0025				
11/12/2013				<0.0025			<0.0025
5/20/2014	<0.0025				<0.0025	<0.0025	
5/21/2014		<0.0025					
5/28/2014							0
5/29/2014			<0.0025	<0.0025			
11/17/2014					<0.0025		
11/18/2014	<0.0025	<0.0025				<0.0025	
11/19/2014			<0.0025				
11/20/2014							<0.0025
4/7/2015		<0.0025			<0.0025	<0.0025	
4/14/2015	0.00026		<0.0025	<0.0025			<0.0025
10/28/2015		<0.0025			<0.0025	<0.0025	
10/29/2015	<0.0025						
11/3/2015				<0.0025			<0.0025
11/4/2015			<0.0025				
6/23/2016	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
8/30/2016	<0.0025				<0.0025		
8/31/2016		<0.0025	0.00039 (J)	<0.0025			
9/1/2016						<0.0025	
9/2/2016							<0.0025
10/24/2016	<0.0025						
10/25/2016		<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	
10/26/2016							<0.0025
1/23/2017	<0.0025		<0.0025				
1/24/2017		<0.0025		<0.0025	<0.0025		
1/26/2017							<0.0025
1/27/2017						<0.0025	
4/11/2017	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025		
4/12/2017						<0.0025	<0.0025
6/20/2017			<0.0025	<0.0025	<0.0025		
6/21/2017	<0.0025	<0.0025					<0.0025
6/22/2017						<0.0025	
10/25/2017	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025		
10/26/2017						<0.0025	<0.0025
4/9/2018		<0.0025	0.00052 (J)				
4/10/2018	<0.0025			<0.0025	<0.0025		<0.0025
4/11/2018						<0.0025	
10/16/2018	<0.0025	<0.0025	0.00071 (J)	<0.0025	<0.0025		
10/17/2018						<0.0025	<0.0025
3/26/2019		<0.0025					
3/27/2019	<0.0025		<0.0025	<0.0025	<0.0025		<0.0025
3/28/2019						<0.0025	
8/19/2019		<0.0025					
8/20/2019	<0.0025			0.00014 (J)	<0.0025		
8/21/2019			0.00015 (J)			<0.0025	<0.0025
10/7/2019			<0.0025				
10/8/2019	<0.0025	<0.0025		<0.0025	<0.0025		<0.0025
10/9/2019						<0.0025	
4/6/2020			<0.0025				

Time Series

Constituent: Cadmium (mg/L) Analysis Run 6/8/2020 10:00 AM
Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-12 (bg)	ARGWA-13 (bg)	ARGWA-14 (bg)	ARGWA-3 (bg)	ARGWA-5 (bg)	ARGWC-10	ARGWC-15
4/7/2020	<0.0025	<0.0025		<0.0025	<0.0025		
4/8/2020						<0.0025	<0.0025

Time Series

Constituent: Cadmium (mg/L) Analysis Run 6/8/2020 10:00 AM
Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-16	ARGWC-17	ARGWC-18	ARGWC-7	ARGWC-8	ARGWC-9
12/14/2005				<0.0025		
4/5/2006				<0.0025		
10/30/2006				<0.0025		
5/10/2007				<0.0025		
11/17/2007				<0.0025		
5/2/2008				<0.0025		
10/22/2008				<0.0025		
5/12/2009	<0.0025	<0.0025	<0.0025			
5/13/2009						<0.0025
5/14/2009				<0.0025	<0.0025	
12/1/2009				<0.0025		
12/3/2009					<0.0025	<0.0025
12/4/2009		<0.0025	<0.0025			
12/5/2009	<0.0025					
5/25/2010		<0.0025	<0.0025			
5/26/2010	<0.0025			<0.0025	<0.0025	<0.0025
11/9/2010	<0.0025	<0.0025			<0.0025	<0.0025
11/10/2010			<0.0025	<0.0025		
5/18/2011					<0.0025	
5/19/2011			<0.0025			<0.0025
5/24/2011	<0.0025	<0.0025				
5/25/2011				<0.0025		
11/11/2011				<0.0025	<0.0025	<0.0025
11/12/2011	<0.0025	<0.0025	<0.0025			
5/17/2012			<0.0025	<0.0025	<0.0025	<0.0025
5/30/2012	<0.0025	<0.0025				
11/9/2012	<0.0025	0.0015		<0.0025	<0.0025	<0.0025
11/10/2012			<0.0025			
5/7/2013			<0.0025		<0.0025	<0.0025
5/8/2013		<0.0025		<0.0025		
5/13/2013	<0.0025					
11/5/2013			<0.0025	<0.0025	<0.0025	
11/6/2013	<0.0025	<0.0025				<0.0025
5/20/2014		<0.0025				
5/21/2014	<0.0025			<0.0025	<0.0025	<0.0025
5/28/2014			<0.0025			
11/17/2014	<0.0025	<0.0025		<0.0025		
11/18/2014					<0.0025	<0.0025
11/19/2014			<0.0025			
4/7/2015	<0.0025	<0.0025		<0.0025	<0.0025	<0.0025
4/15/2015			<0.0025			
10/28/2015	<0.0025	<0.0025		<0.0025	<0.0025	<0.0025
10/29/2015			<0.0025			
6/23/2016				<0.0025	<0.0025	<0.0025
6/24/2016	<0.0025	<0.0025	<0.0025			
8/31/2016				<0.0025	<0.0025	<0.0025
9/1/2016	<0.0025	<0.0025	<0.0025			
10/25/2016	0.0001 (J)	0.0001 (J)		<0.0025		<0.0025
10/26/2016			<0.0025		<0.0025	
1/26/2017	<0.0025	<0.0025		<0.0025	<0.0025	<0.0025
1/27/2017			<0.0025			
4/11/2017	<0.0025	<0.0025				

Time Series

Constituent: Cadmium (mg/L) Analysis Run 6/8/2020 10:00 AM
Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-16	ARGWC-17	ARGWC-18	ARGWC-7	ARGWC-8	ARGWC-9
4/12/2017			<0.0025	<0.0025	<0.0025	<0.0025
6/21/2017	<0.0025	<0.0025	<0.0025		<0.0025	
6/22/2017				<0.0025		<0.0025
10/25/2017			<0.0025	<0.0025		<0.0025
10/26/2017	<0.0025	<0.0025			<0.0025	
4/10/2018	<0.0025	<0.0025		<0.0025		
4/11/2018			<0.0025		<0.0025	<0.0025
10/16/2018	<0.0025					
10/17/2018		<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
3/27/2019			<0.0025			
3/28/2019	<0.0025	<0.0025		<0.0025	<0.0025	<0.0025
8/20/2019	<0.0025					
8/21/2019		0.00013 (J)	<0.0025	<0.0025	<0.0025	<0.0025
10/9/2019	<0.0025	0.00018 (J)	<0.0025	<0.0025	<0.0025	<0.0025
4/8/2020	<0.0025	<0.0025		<0.0025		
4/9/2020			<0.0025		<0.0025	<0.0025

Time Series

Constituent: Calcium (mg/L) Analysis Run 6/8/2020 10:00 AM
Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-12 (bg)	ARGWA-13 (bg)	ARGWA-14 (bg)	ARGWA-3 (bg)	ARGWA-5 (bg)	ARGWC-10	ARGWC-15
8/30/2016	11				5.1		
8/31/2016		110	31	5.4			
9/1/2016						6.6	
9/2/2016							22
10/24/2016	10.4						
10/25/2016		150	38.5	4.47	4.76	5.89	
10/26/2016							23.7
1/23/2017	12		25				
1/24/2017		78		5.8	5.6		
1/26/2017							23
1/27/2017						7.4	
4/11/2017	12	78	33	5.3	4.7		
4/12/2017						6.7	17
6/20/2017			34	5.8	5.4		
6/21/2017	12	110					18
6/22/2017						7.5	
10/25/2017	13	120	28	5.9	6		
10/26/2017						7.8	19
4/9/2018		49	30				
4/10/2018	13			5.9	5.3		24
4/11/2018						7.4	
10/16/2018	12	110	41	5.8	5.6		
10/17/2018						7.1	21
3/26/2019		95					
3/27/2019	11		42	5.4	4.5		28
3/28/2019						7.3	
10/7/2019			36				
10/8/2019	13	190		6	5.9		24
10/9/2019						7.7	
4/6/2020			43				
4/7/2020	12	61		5.5	4		
4/8/2020						7.5	21

Time Series

Constituent: Calcium (mg/L) Analysis Run 6/8/2020 10:00 AM
Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-16	ARGWC-17	ARGWC-18	ARGWC-7	ARGWC-8	ARGWC-9
8/31/2016				12	46	5.2
9/1/2016	21	16	42			
10/25/2016	29.8	13.5		10.9		4.64
10/26/2016			44.3		43.3	
1/26/2017	23	21		13	51	5.5
1/27/2017			49			
4/11/2017	28	16				
4/12/2017			45	12	47	4.9
6/21/2017	22	15	49		51	
6/22/2017				13		5.8
10/25/2017			49	12		6.1
10/26/2017	21	13			55	
4/10/2018	25	13		12		
4/11/2018			44		44	6
10/16/2018	16					
10/17/2018		10	49	11	52	5.8
3/27/2019			47			
3/28/2019	41	10		11	52	5.6
10/9/2019	39	10	49	11	53	5.7
4/8/2020	40	8.3		11		
4/9/2020			46		47	5.3

Time Series

Constituent: Chloride (mg/L) Analysis Run 6/8/2020 10:00 AM
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-12 (bg)	ARGWA-13 (bg)	ARGWA-14 (bg)	ARGWA-3 (bg)	ARGWA-5 (bg)	ARGWC-10	ARGWC-15
12/16/1997				6.2	3.8		
6/30/1998				4.6	2.9		
12/2/1998				3.13	1.76		
6/8/1999				1.56	1.97		
12/7/1999				3.05	1.98		
6/15/2000				3.35	2.08		
12/12/2000				2.42	2.02		
12/5/2001				2.62	2.03		
6/26/2002				3.4	2.52		
12/3/2002				3.04	2.12		
6/11/2003				3.02	2.43		
12/10/2003				2.9	1.93		
6/15/2004				2.05	2.42		
12/14/2004				2.78	2.44		
6/2/2005				3.15	2.79		
12/14/2005				3.38	2.77		
4/5/2006				3.49	2.8		
10/30/2006				2.84	3.09		
5/10/2007				3.68	3.93		
11/17/2007				2.69	<0.021		
5/3/2008				2.85	3.52		
10/22/2008				2.99	3.15		
5/5/2009							2.61
5/6/2009	10.7				3.49		
5/7/2009		4.24		2.96			
5/13/2009						3.85	
12/1/2009					3.26		
12/3/2009	10.1	2.66				3.73	
12/4/2009				2.97			2.37
5/25/2010	7.11	3.29			3.62		
5/26/2010						3.7	
6/1/2010				3.23			3.71
6/2/2010			15.1				
11/9/2010	8.4				3.38	3.6	
11/10/2010		3.82	14.8	2.86			2.69
5/19/2011			28.2 (o)			3.79	
5/24/2011	9.07				3.62		
5/25/2011		4.92		2.86			2.44
11/9/2011			32.8 (o)				2.3
11/10/2011	10.3	4.48			3.74		
11/11/2011						4.07	
11/12/2011				2.83			
5/17/2012						3.84	
5/18/2012	10.1				3.6		
5/30/2012		4.72	30.8 (o)				
5/31/2012				2.68			2.29
11/9/2012	8.73	5.1			3.66	3.99	
11/10/2012							2.46
11/11/2012			24.6 (o)	2.63			
5/7/2013						3.94	
5/8/2013	8.06				4.16		
5/9/2013		3.85	27.2 (o)				

Time Series

Constituent: Chloride (mg/L) Analysis Run 6/8/2020 10:00 AM
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-12 (bg)	ARGWA-13 (bg)	ARGWA-14 (bg)	ARGWA-3 (bg)	ARGWA-5 (bg)	ARGWC-10	ARGWC-15
5/13/2013				0.364			6.55 (o)
11/6/2013	10.2				3.87	3.89	
11/11/2013		5.26	12.7				
11/12/2013				2.95			2.86
5/20/2014	8.2				4.4	3.54	
5/21/2014		4.47					
5/28/2014							2.75
5/29/2014			20 (o)	2.64			
11/17/2014					4.2		
11/18/2014	10	6.4				4.2	
11/19/2014			19 (o)				
11/20/2014							3.4
4/7/2015		5.04			4.53	4.09	
4/14/2015	10.7		13.6	2.78			2.56
10/28/2015		6.3			4.47	3.98	
10/29/2015	10.7						
11/3/2015				2.66			2.01
11/4/2015			12.4				
6/23/2016	11	5.7	9	3.3	4.6	4.3	1.9
8/30/2016	11				4.3		
8/31/2016		5.7	5.4	2.7			
9/1/2016						4	
9/2/2016							2.7
10/24/2016	12						
10/25/2016		7.9	9.3	3.1	5	4.6	
10/26/2016							3.3
1/23/2017	11		5.1				
1/24/2017		4.4		2.5	5.1		
1/26/2017							1.6
1/27/2017						3.9	
4/11/2017	11	4.3	4.1	2.4	4.4		
4/12/2017						3.7	1.5
6/20/2017			4.1	2.5	5		
6/21/2017	11	5.5					1.6
6/22/2017						3.9	
10/25/2017	10	5.2	3.8	2.3	5.3		
10/26/2017						3.7	1.6
4/9/2018		3.8	3.9				
4/10/2018	9.9			2.4	5.1		1.8
4/11/2018						3.8	
10/16/2018	11	6	4.3	2.5	5.3		
10/17/2018						4	2.1
3/26/2019		4.6					
3/27/2019	11		4	2.5	4.3		1.8
3/28/2019						3.7	
10/7/2019			4				
10/8/2019	64 (o)	6.7		2.6	5.7		9.4
10/9/2019						3.8	
4/6/2020			4.2				
4/7/2020	11	3.8		2.9	3.7		
4/8/2020						3.9	1.9

Time Series

Constituent: Chloride (mg/L) Analysis Run 6/8/2020 10:00 AM
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-16	ARGWC-17	ARGWC-18	ARGWC-7	ARGWC-8	ARGWC-9
12/14/2005				7.52		
4/5/2006				7.38		
10/30/2006				6.9		
5/10/2007				8.88		
11/17/2007				13.5 (o)		
5/2/2008				12.9 (o)		
10/22/2008				7.97		
5/12/2009	3.96	3.5	8.89			
5/13/2009						3.37
5/14/2009				7.68	6.38	
12/1/2009				6.66		
12/3/2009					5.96	3.49
12/4/2009		1.85	9.43			
12/5/2009	3.81					
5/25/2010		1.74	8.49			
5/26/2010	3.85			6	5.37	3.35
11/9/2010	4.08	1.18			<0.071 (o)	3.34
11/10/2010			8.77	6.07		
5/18/2011					5.4	
5/19/2011			8.11			3.25
5/24/2011	3.63	2.51				
5/25/2011				5.7		
11/11/2011				6.23	5.58	3.57
11/12/2011	4.03	4.99	12.3 (o)			
5/17/2012			8.4	6.06	5.15	3.27
5/30/2012	3.82	6.4				
11/9/2012	3.69	3.37		4.9	5.2	3.45
11/10/2012			8.13			
5/7/2013			8.11		5.56	3.35
5/8/2013		5.67		5.85		
5/13/2013	3.5					
11/5/2013			7.82	5.44	5.24	
11/6/2013	3.74	3.62				3.45
5/20/2014		5.82				
5/21/2014	3.74			5.96	7.34 (o)	3.18
5/28/2014			6.99			
11/17/2014	4.4	6.4		7		
11/18/2014					6.1	4
11/19/2014			9			
4/7/2015	4.38	5.02		6.08	5.62	4.22
4/15/2015			8.14			
10/28/2015	4.62	4.98		5.02	5.58	4.87
10/29/2015			8.17			
6/23/2016				5.4	6.2	5.6
6/24/2016	5	5	8.4			
8/31/2016				5.1	5.6	5.4
9/1/2016	4.8	4.4	7.8			
10/25/2016	5.4	5.1		6.2		6.4
10/26/2016			8.9		7.1	
1/26/2017	5.2	4.2		5.1	5.8	5.3
1/27/2017			7.3			
4/11/2017	4.8	3.9				

Time Series

Constituent: Chloride (mg/L) Analysis Run 6/8/2020 10:00 AM
Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-16	ARGWC-17	ARGWC-18	ARGWC-7	ARGWC-8	ARGWC-9
4/12/2017			7	4.9	5.6	5.2
6/21/2017	5.2	4.1	7.2		5.8	
6/22/2017				5.1		5.5
10/25/2017			7	5.1		5.3
10/26/2017	4.7	4			5.5	
4/10/2018	4.8	4.1		5		
4/11/2018			6.9		5.7	5.1
10/16/2018	4.5					
10/17/2018		4	7.1	5.8	6	5.3
3/27/2019			6.6			
3/28/2019	4.6	3.4		5.1	5.7	4.8
10/9/2019	4.7	3.3	6.7	4.6	5.7	5.2
4/8/2020	5.1	3.7		4.4		
4/9/2020			7.3		7.7	5.6

Time Series

Constituent: Chromium (mg/L) Analysis Run 6/8/2020 10:00 AM
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-12 (bg)	ARGWA-13 (bg)	ARGWA-14 (bg)	ARGWA-3 (bg)	ARGWA-5 (bg)	ARGWC-10	ARGWC-15
8/30/2016	0.0012 (J)				0.0012 (J)		
8/31/2016		<0.002	<0.002	0.003			
9/1/2016						0.0038	
9/2/2016							0.0087
10/24/2016	0.0011 (J)						
10/25/2016		<0.002	<0.002	0.0028 (J)	0.0014 (J)	0.0042 (J)	
10/26/2016							<0.002
1/23/2017	<0.002		0.01				
1/24/2017		<0.002		0.0031	0.0012 (J)		
1/26/2017							<0.002
1/27/2017						0.005	
4/11/2017	0.0011 (J)	<0.002	<0.002	0.0029	<0.002		
4/12/2017						0.0048	<0.002
6/20/2017			<0.002	0.0037	<0.002		
6/21/2017	<0.002	<0.002					<0.002
6/22/2017						0.0047	
10/25/2017	<0.002	<0.002	<0.002	0.0031	<0.002		
10/26/2017						0.0043	<0.002
4/9/2018		<0.002	0.0019 (J)				
4/10/2018	0.0013 (J)			0.0036	0.0012 (J)		<0.002
4/11/2018						0.0051	
10/16/2018	<0.002	<0.002	<0.002	0.0035	0.0012 (J)		
10/17/2018						0.0051	<0.002
8/19/2019		0.0016 (J)					
8/20/2019	0.0026			0.0039	0.0032		
8/21/2019			<0.002			0.0073	0.0017 (J)
10/7/2019			<0.002				
10/8/2019	<0.002	<0.002		0.0031	<0.002		<0.002
10/9/2019						0.006	
4/6/2020			<0.002				
4/7/2020	0.0015 (J)	<0.002		0.0023	<0.002		
4/8/2020						0.0046	<0.002

Time Series

Constituent: Chromium (mg/L) Analysis Run 6/8/2020 10:00 AM
Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-16	ARGWC-17	ARGWC-18	ARGWC-7	ARGWC-8	ARGWC-9
8/31/2016				0.0033	<0.002	0.011
9/1/2016	0.0017 (J)	<0.002	<0.002			
10/25/2016	0.0023 (J)	<0.002		0.0029 (J)		0.0109
10/26/2016			<0.002		<0.002	
1/26/2017	0.0017 (J)	0.0016 (J)		0.0033	<0.002	0.011
1/27/2017			<0.002			
4/11/2017	0.0019 (J)	0.0013 (J)				
4/12/2017			<0.002	0.0036	<0.002	0.0096
6/21/2017	0.0017 (J)	<0.002	<0.002		<0.002	
6/22/2017				0.0036		0.011
10/25/2017			<0.002	0.0028		0.0094
10/26/2017	0.0013 (J)	<0.002			<0.002	
4/10/2018	0.0019 (J)	<0.002		0.0038		
4/11/2018			<0.002		<0.002	0.01
10/16/2018	0.0013 (J)					
10/17/2018		<0.002	<0.002	0.0036	<0.002	0.0096
8/20/2019	0.0025					
8/21/2019		<0.002	<0.002	0.0046	0.0015 (J)	0.0097
10/9/2019	0.0027	0.0021	<0.002	0.0042	0.0017 (J)	0.0084
4/8/2020	0.0021	<0.002		0.0027		
4/9/2020			<0.002		<0.002	0.0069

Time Series

Constituent: Cobalt (mg/L) Analysis Run 6/8/2020 10:00 AM
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-12 (bg)	ARGWA-13 (bg)	ARGWA-14 (bg)	ARGWA-3 (bg)	ARGWA-5 (bg)	ARGWC-10	ARGWC-15
8/30/2016	<0.0025				<0.0025		
8/31/2016		<0.0025	<0.0025	<0.0025			
9/1/2016						<0.0025	
9/2/2016							0.03
10/24/2016	<0.0025						
10/25/2016		<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	
10/26/2016							0.0036 (J)
1/23/2017	<0.0025		<0.0025				
1/24/2017		<0.0025		<0.0025	<0.0025		
1/26/2017							0.011
1/27/2017						<0.0025	
4/11/2017	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025		
4/12/2017						<0.0025	<0.0025
6/20/2017			<0.0025	<0.0025	<0.0025		
6/21/2017	<0.0025	<0.0025					<0.0025
6/22/2017						<0.0025	
10/25/2017	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025		
10/26/2017						<0.0025	<0.0025
4/9/2018		<0.0025	<0.0025				
4/10/2018	<0.0025			<0.0025	<0.0025		0.00045 (J)
4/11/2018						<0.0025	
10/16/2018	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025		
10/17/2018						<0.0025	<0.0025
8/19/2019		0.00029 (J)					
8/20/2019	0.00019 (J)			0.00018 (J)	0.00012 (J)		
8/21/2019			0.00022 (J)			0.00017 (J)	0.00048 (J)
10/7/2019			<0.0025				
10/8/2019	<0.0025	0.00011 (J)		<0.0025	<0.0025		0.00019 (J)
10/9/2019						0.00019 (J)	
4/6/2020			<0.0025				
4/7/2020	0.00029 (J)	<0.0025		<0.0025	0.00014 (J)		
4/8/2020						<0.0025	0.00026 (J)

Time Series

Constituent: Cobalt (mg/L) Analysis Run 6/8/2020 10:00 AM
Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-16	ARGWC-17	ARGWC-18	ARGWC-7	ARGWC-8	ARGWC-9
8/31/2016				<0.0025	<0.0025	<0.0025
9/1/2016	<0.0025	0.037	0.0014 (J)			
10/25/2016	<0.0025	0.0144		<0.0025		<0.0025
10/26/2016			0.0013 (J)		<0.0025	
1/26/2017	<0.0025	0.022		<0.0025	<0.0025	<0.0025
1/27/2017			0.0021 (J)			
4/11/2017	<0.0025	0.026				
4/12/2017			0.0015 (J)	<0.0025	<0.0025	<0.0025
6/21/2017	<0.0025	0.027	0.0018 (J)		<0.0025	
6/22/2017				<0.0025		<0.0025
10/25/2017			0.0013 (J)	<0.0025		<0.0025
10/26/2017	<0.0025	0.021			<0.0025	
4/10/2018	<0.0025	0.021		<0.0025		
4/11/2018			0.0014 (J)		<0.0025	<0.0025
10/16/2018	<0.0025					
10/17/2018		0.014	0.0012 (J)	<0.0025	<0.0025	<0.0025
8/20/2019	0.00016 (J)					
8/21/2019		0.018	0.0012	8.6E-05 (J)	0.00021 (J)	<0.0025
10/9/2019	0.00026 (J)	0.017	0.00099	0.00034 (J)	0.00041 (J)	0.00021 (J)
4/8/2020	<0.0025	0.016		<0.0025		
4/9/2020			0.00091 (J)		0.00013 (J)	0.00015 (J)

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 6/8/2020 10:00 AM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-12 (bg)	ARGWA-13 (bg)	ARGWA-14 (bg)	ARGWA-3 (bg)	ARGWA-5 (bg)	ARGWC-10	ARGWC-15
8/30/2016	1.1				0.505 (U)		
8/31/2016		0.788	0.949 (U)	0.226 (U)			
9/1/2016						0.153 (U)	
9/2/2016							2.11
10/24/2016	0.808 (U)						
10/25/2016		0.503 (U)	1.13	0.273 (U)	0.177 (U)	0.328 (U)	
10/26/2016							2.45
1/23/2017	0.121 (U)		0.426				
1/24/2017		0.369		0.11 (U)	0.107 (U)		
1/26/2017							0.276 (U)
1/27/2017						-0.0761 (U)	
4/11/2017	0.378 (U)	0.71	0.604	0.358 (U)	-0.0587 (U)		
4/12/2017						0.112 (U)	0.387 (U)
6/20/2017			0.974	0.265 (U)	0.503		
6/21/2017	0.511	0.124 (U)					0.194 (U)
6/22/2017						0.414	
10/25/2017	0.587	0.981	0.409 (U)	0.5	0.512		
10/26/2017						0.334 (U)	0.519
4/9/2018		0.157 (U)	0.306 (U)				
4/10/2018	0.513			0.323	0.262 (U)		0.604
4/11/2018						0.17 (U)	
10/16/2018	0.53	0.305 (U)	0.701	0.798	0.989		
10/17/2018						0.38 (U)	0.46 (U)
8/19/2019		0.204 (U)					
8/20/2019	0.759			0.352 (U)	-0.0925 (U)		
8/21/2019			0.0663 (U)			0.352 (U)	0.491
10/7/2019			0.447 (U)				
10/8/2019	0.76	0.398 (U)		0.419 (U)	0.348 (U)		0.421 (U)
10/9/2019						-0.38 (U)	
4/6/2020			0.286 (U)				
4/7/2020	0.622	-0.0414 (U)		0.0354 (U)	0.198 (U)		
4/8/2020						-0.0401 (U)	0.309 (U)

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 6/8/2020 10:00 AM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-16	ARGWC-17	ARGWC-18	ARGWC-7	ARGWC-8	ARGWC-9
8/31/2016				-0.106 (U)	0.218 (U)	0.279 (U)
9/1/2016	0.568	-0.081 (U)	0.495 (U)			
10/25/2016	1.57	0.675 (U)		0.518 (U)		0.393 (U)
10/26/2016			0.606 (U)		0.335 (U)	
1/26/2017	0.255 (U)	0.18 (U)		0.37	0.345 (U)	0.0879 (U)
1/27/2017			0.641			
4/11/2017	0.334 (U)	0.547				
4/12/2017			-0.0936 (U)	0.316 (U)	0.37 (U)	0.219 (U)
6/21/2017	0.518	0.38	0.5		0.144 (U)	
6/22/2017				0.229 (U)		0.552
10/25/2017			0.345 (U)	0.281 (U)		0.388 (U)
10/26/2017	0.79	1.48			0.51	
4/10/2018	0.394	0.39		0.492		
4/11/2018			0.331 (U)		0.362	0.322
10/16/2018	0.0598 (U)					
10/17/2018		0.781	0.62	0.495 (U)	0.385 (U)	0.327 (U)
8/20/2019	0.227 (U)					
8/21/2019		-0.0366 (U)	0.693	0.0805 (U)	0.125 (U)	0.0554 (U)
10/9/2019	-0.0245 (U)	0.118 (U)	0.0684 (U)	0.552	-0.164 (U)	-0.238 (U)
4/8/2020	0.28 (U)	0.402 (U)		0.366 (U)		
4/9/2020			0.419 (U)		0.255 (U)	0.334 (U)

Time Series

Constituent: Fluoride (mg/L) Analysis Run 6/8/2020 10:00 AM
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-12 (bg)	ARGWA-13 (bg)	ARGWA-14 (bg)	ARGWA-3 (bg)	ARGWA-5 (bg)	ARGWC-10	ARGWC-15
8/30/2016	<0.2				<0.2		
8/31/2016		<0.2	0.12 (J)	<0.2			
9/1/2016						<0.2	
9/2/2016							0.21
10/24/2016	0.1 (J)						
10/25/2016		0.08 (J)	0.53	0.14 (J)	0.09 (J)	0.1 (J)	
10/26/2016							0.21 (J)
1/23/2017	<0.2		0.4				
1/24/2017		<0.2		<0.2	<0.2		
1/26/2017							0.097 (J)
1/27/2017						<0.2	
4/11/2017	<0.2	<0.2	0.31	<0.2	<0.2		
4/12/2017						<0.2	<0.2
6/20/2017			0.27	<0.2	<0.2		
6/21/2017	<0.2	<0.2					<0.2
6/22/2017						<0.2	
10/25/2017	<0.2	<0.2	0.29	<0.2	<0.2		
10/26/2017						<0.2	<0.2
4/9/2018		<0.2	0.25				
4/10/2018	<0.2			<0.2	<0.2		<0.2
4/11/2018						<0.2	
10/16/2018	0.1 (J)	<0.2	0.33	0.1 (J)	<0.2		
10/17/2018						<0.2	0.1 (J)
3/26/2019		<0.2					
3/27/2019	0.031 (J)		0.15 (J)	0.034 (J)	0.026 (J)		0.05 (J)
3/28/2019						0.03 (J)	
8/19/2019		<0.2					
8/20/2019	0.049 (J)			0.053 (J)	0.047 (J)		
8/21/2019			0.35			0.047 (J)	0.1 (J)
10/7/2019			0.12 (J)				
10/8/2019	0.27 (J)	0.033 (J)		0.056 (J)	0.05 (J)		0.33 (J)
10/9/2019						0.053 (J)	
4/6/2020			0.28				
4/7/2020	0.082 (J)	0.086 (J)		0.098 (J)	0.072 (J)		
4/8/2020						0.071 (J)	0.12

Time Series

Constituent: Fluoride (mg/L) Analysis Run 6/8/2020 10:00 AM
Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-16	ARGWC-17	ARGWC-18	ARGWC-7	ARGWC-8	ARGWC-9
8/31/2016				<0.2	0.11 (J)	<0.2
9/1/2016	<0.2	<0.2	0.083 (J)			
10/25/2016	0.08 (J)	0.08 (J)		0.02 (J)		0.2 (J)
10/26/2016			0.32 (o)		0.43 (o)	
1/26/2017	<0.2	<0.2		<0.2	0.13 (J)	<0.2
1/27/2017			0.097 (J)			
4/11/2017	<0.2	<0.2				
4/12/2017			0.088 (J)	<0.2	0.13 (J)	<0.2
6/21/2017	<0.2	<0.2	0.096 (J)		0.14 (J)	
6/22/2017				<0.2		<0.2
10/25/2017			0.092 (J)	<0.2		<0.2
10/26/2017	<0.2	<0.2			0.13 (J)	
4/10/2018	<0.2	<0.2		<0.2		
4/11/2018			0.09 (J)		0.13 (J)	<0.2
10/16/2018	<0.2					
10/17/2018		<0.2	0.11 (J)	<0.2	0.16 (J)	<0.2
3/27/2019			0.05 (J)			
3/28/2019	<0.2	<0.2		<0.2	0.089 (J)	<0.2
8/20/2019	0.033 (J)					
8/21/2019		0.031 (J)	0.079 (J)	<0.2	0.12 (J)	0.03 (J)
10/9/2019	0.031 (J)	0.03 (J)	0.068 (J)	0.032 (J)	0.085 (J)	0.038 (J)
4/8/2020	0.051 (J)	0.053 (J)		0.062 (J)		
4/9/2020			0.11		0.16	0.066 (J)

Time Series

Constituent: Lead (mg/L) Analysis Run 6/8/2020 10:00 AM
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-12 (bg)	ARGWA-13 (bg)	ARGWA-14 (bg)	ARGWA-3 (bg)	ARGWA-5 (bg)	ARGWC-10	ARGWC-15
12/16/1997				0.162 (o)	<0.001		
6/30/1998				0.013	<0.001		
12/2/1998				0.01	0.002		
6/8/1999				0.004	<0.001		
12/7/1999				0.004	<0.001		
6/15/2000				0.004	<0.001		
12/12/2000				0.00378	<0.001		
12/5/2001				0.003	<0.001		
6/26/2002				0.00815	0.00539		
12/3/2002				0.008	<0.001		
6/11/2003				<0.001	<0.001		
12/10/2003				<0.001	<0.001		
6/15/2004				<0.001	<0.001		
12/14/2004				<0.001	0.013 (o)		
6/2/2005				<0.001	<0.001		
12/14/2005				<0.001	<0.001		
4/5/2006				<0.001	<0.001		
10/30/2006				<0.001	<0.001		
5/10/2007				<0.001	<0.001		
11/17/2007				<0.001	<0.001		
5/3/2008				<0.001	<0.001		
10/22/2008				<0.001	<0.001		
5/5/2009							<0.001
5/6/2009	<0.001				<0.001		
5/7/2009		<0.001		<0.001			
5/13/2009						<0.001	
12/1/2009					<0.001		
12/3/2009	<0.001	<0.001				<0.001	
12/4/2009				<0.001			<0.001
5/25/2010	<0.001	<0.001			<0.001		
5/26/2010						<0.001	
6/1/2010				<0.001			<0.001
6/2/2010			<0.001				
11/9/2010	<0.001				<0.001	<0.001	
11/10/2010		<0.001	<0.001	<0.001			<0.001
5/19/2011			<0.001			<0.001	
5/24/2011	<0.001				<0.001		
5/25/2011		<0.001		<0.001			<0.001
11/9/2011			<0.001				<0.001
11/10/2011	<0.001	<0.001			<0.001		
11/11/2011						<0.001	
11/12/2011				<0.001			
5/17/2012						<0.001	
5/18/2012	<0.001				<0.001		
5/30/2012		<0.001	<0.001				
5/31/2012				0.0005 (J)			0.0008 (J)
11/9/2012	<0.001	<0.001			<0.001	<0.001	
11/10/2012							<0.001
11/11/2012			<0.001	<0.001			
5/7/2013						<0.001	
5/8/2013	<0.001				<0.001		
5/9/2013		<0.001	<0.001				

Time Series

Constituent: Lead (mg/L) Analysis Run 6/8/2020 10:00 AM
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-12 (bg)	ARGWA-13 (bg)	ARGWA-14 (bg)	ARGWA-3 (bg)	ARGWA-5 (bg)	ARGWC-10	ARGWC-15
5/13/2013				<0.001			0.025 (o)
11/6/2013	<0.001				<0.001	<0.001	
11/11/2013		<0.001	<0.001				
11/12/2013				<0.001			<0.001
5/20/2014	<0.001				<0.001	<0.001	
5/21/2014		<0.001					
5/28/2014							<0.001
5/29/2014			<0.001	<0.001			
11/17/2014					<0.001		
11/18/2014	<0.001	<0.001				<0.001	
11/19/2014			<0.001				
11/20/2014							<0.001
4/7/2015		<0.001			<0.001	<0.001	
4/14/2015	<0.001		<0.001	<0.001			<0.001
10/28/2015		<0.001			<0.001	<0.001	
10/29/2015	<0.001						
11/3/2015				<0.001			<0.001
11/4/2015			<0.001				
6/23/2016	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
8/30/2016	<0.001				<0.001		
8/31/2016		<0.001	<0.001	<0.001			
9/1/2016						<0.001	
9/2/2016							0.0056
10/24/2016	0.0002 (J)						
10/25/2016		<0.001	<0.001	<0.001	<0.001	<0.001	
10/26/2016							0.0003 (J)
1/23/2017	<0.001		0.0013				
1/24/2017		<0.001		<0.001	<0.001		
1/26/2017							<0.001
1/27/2017						<0.001	
4/11/2017	<0.001	<0.001	<0.001	<0.001	<0.001		
4/12/2017						<0.001	<0.001
6/20/2017			<0.001	<0.001	<0.001		
6/21/2017	<0.001	<0.001					<0.001
6/22/2017						<0.001	
10/25/2017	<0.001	<0.001	<0.001	<0.001	<0.001		
10/26/2017						<0.001	<0.001
4/9/2018		<0.001	<0.001				
4/10/2018	<0.001			<0.001	<0.001		<0.001
4/11/2018						<0.001	
10/16/2018	<0.001	<0.001	<0.001	<0.001	<0.001		
10/17/2018						<0.001	0.0016
3/26/2019		<0.001					
3/27/2019	<0.001		<0.001	<0.001	<0.001		<0.001
3/28/2019						<0.001	
8/19/2019		<0.001					
8/20/2019	<0.001			0.00014 (J)	0.00014 (J)		
8/21/2019			0.00019 (J)			<0.001	<0.001
10/7/2019			<0.001				
10/8/2019	<0.001	0.00013 (J)		0.001	0.00016 (J)		<0.001
10/9/2019						<0.001	
4/6/2020			<0.001				

Time Series

Constituent: Lead (mg/L) Analysis Run 6/8/2020 10:00 AM
Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-12 (bg)	ARGWA-13 (bg)	ARGWA-14 (bg)	ARGWA-3 (bg)	ARGWA-5 (bg)	ARGWC-10	ARGWC-15
4/7/2020	<0.001	<0.001		<0.001	<0.001		
4/8/2020						0.031	<0.001

Time Series

Constituent: Lead (mg/L) Analysis Run 6/8/2020 10:00 AM
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-16	ARGWC-17	ARGWC-18	ARGWC-7	ARGWC-8	ARGWC-9
12/14/2005				<0.001		
4/5/2006				<0.001		
10/30/2006				<0.001		
5/10/2007				0.0032		
11/17/2007				<0.001		
5/2/2008				0.008 (o)		
10/22/2008				<0.001		
5/12/2009	<0.001	<0.001	<0.001			
5/13/2009						<0.001
5/14/2009				0.00083	<0.001	
12/1/2009				<0.001		
12/3/2009					<0.001	<0.001
12/4/2009		<0.001	<0.001			
12/5/2009	<0.001					
5/25/2010		<0.001	<0.001			
5/26/2010	<0.001			<0.001	<0.001	<0.001
11/9/2010	<0.001	<0.001			<0.001	<0.001
11/10/2010			<0.001	<0.001		
5/18/2011					<0.001	
5/19/2011			<0.001			<0.001
5/24/2011	<0.001	<0.001				
5/25/2011				<0.001		
11/11/2011				<0.001	<0.001	<0.001
11/12/2011	<0.001	<0.001	<0.001			
5/17/2012			<0.001	<0.001	<0.001	<0.001
5/30/2012	<0.001	<0.001				
11/9/2012	<0.001	<0.001		<0.001	<0.001	<0.001
11/10/2012			<0.001			
5/7/2013			<0.001		<0.001	<0.001
5/8/2013		<0.001		<0.001		
5/13/2013	<0.001					
11/5/2013			<0.001	<0.001	<0.001	
11/6/2013	<0.001	<0.001				<0.001
5/20/2014		<0.001				
5/21/2014	<0.001			<0.001	<0.001	<0.001
5/28/2014			<0.001			
11/17/2014	<0.001	<0.001		<0.001		
11/18/2014					<0.001	<0.001
11/19/2014			<0.001			
4/7/2015	<0.001	<0.001		<0.001	<0.001	<0.001
4/15/2015			<0.001			
10/28/2015	<0.001	<0.001		<0.001	<0.001	<0.001
10/29/2015			<0.001			
6/23/2016				<0.001	<0.001	<0.001
6/24/2016	<0.001	<0.001	<0.001			
8/31/2016				<0.001	<0.001	<0.001
9/1/2016	<0.001	<0.001	<0.001			
10/25/2016	<0.001	<0.001		<0.001		<0.001
10/26/2016			0.0002 (J)		<0.001	
1/26/2017	<0.001	<0.001		<0.001	<0.001	<0.001
1/27/2017			<0.001			
4/11/2017	<0.001	<0.001				

Time Series

Constituent: Lead (mg/L) Analysis Run 6/8/2020 10:00 AM
Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-16	ARGWC-17	ARGWC-18	ARGWC-7	ARGWC-8	ARGWC-9
4/12/2017			<0.001	<0.001	<0.001	<0.001
6/21/2017	<0.001	<0.001	<0.001		<0.001	
6/22/2017				<0.001		<0.001
10/25/2017			<0.001	<0.001		<0.001
10/26/2017	<0.001	<0.001			<0.001	
4/10/2018	<0.001	<0.001		<0.001		
4/11/2018			<0.001		<0.001	<0.001
10/16/2018	<0.001					
10/17/2018		<0.001	<0.001	<0.001	<0.001	<0.001
3/27/2019			<0.001			
3/28/2019	<0.001	<0.001		<0.001	<0.001	<0.001
8/20/2019	<0.001					
8/21/2019		<0.001	<0.001	<0.001	<0.001	<0.001
10/9/2019	<0.001	<0.001	<0.001	<0.001	0.00019 (J)	0.00016 (J)
4/8/2020	<0.001	<0.001		<0.001		
4/9/2020			<0.001		<0.001	<0.001

Time Series

Constituent: Lithium (mg/L) Analysis Run 6/8/2020 10:00 AM
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-12 (bg)	ARGWA-13 (bg)	ARGWA-14 (bg)	ARGWA-3 (bg)	ARGWA-5 (bg)	ARGWC-10	ARGWC-15
8/30/2016	0.0052				<0.005		
8/31/2016		0.0053	0.0053	<0.005			
9/1/2016						<0.005	
9/2/2016							0.0045 (J)
10/24/2016	<0.05 (o)						
10/25/2016		0.0048 (J)	<0.005	<0.005	<0.005	<0.005	
10/26/2016							0.0025 (J)
1/23/2017	0.0039 (J)		0.0043 (J)				
1/24/2017		0.0032 (J)		<0.005	<0.005		
1/26/2017							<0.005
1/27/2017						<0.005	
4/11/2017	0.004 (J)	0.0036 (J)	<0.005	<0.005	<0.005		
4/12/2017						<0.005	<0.005
6/20/2017			0.0042 (J)	<0.005	<0.005		
6/21/2017	0.0041 (J)	0.0052					<0.005
6/22/2017						<0.005	
10/25/2017	0.0056	0.0059	0.0061	<0.005	<0.005		
10/26/2017						<0.005	<0.005
4/9/2018		0.0056	0.0052				
4/10/2018	0.007			<0.005	<0.005		0.0029 (J)
4/11/2018						0.0015 (J)	
10/16/2018	0.0045 (J)	0.0057	0.0052	0.0017 (J)	<0.005		
10/17/2018						0.0011 (J)	<0.005
8/19/2019		0.0058					
8/20/2019	0.0053			<0.005	<0.005		
8/21/2019			<0.005			<0.005	<0.005
10/7/2019			0.007				
10/8/2019	0.0078	0.0099		0.0047 (J)	0.0055		0.004 (J)
10/9/2019						0.0055	
4/6/2020			<0.005				
4/7/2020	0.0036 (J)	0.0036 (J)		<0.005	<0.005		
4/8/2020						<0.005	<0.005

Time Series

Constituent: Lithium (mg/L) Analysis Run 6/8/2020 10:00 AM
Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-16	ARGWC-17	ARGWC-18	ARGWC-7	ARGWC-8	ARGWC-9
8/31/2016				<0.005	0.0039 (J)	<0.005
9/1/2016	<0.005	<0.005	0.0033 (J)			
10/25/2016	<0.005	<0.005		0.0024 (J)		<0.005
10/26/2016			0.0037 (J)		0.0025 (J)	
1/26/2017	<0.005	<0.005		0.0033 (J)	0.0035 (J)	<0.005
1/27/2017			0.0048 (J)			
4/11/2017	<0.005	<0.005				
4/12/2017			0.0039 (J)	<0.005	<0.005	<0.005
6/21/2017	<0.005	<0.005	0.0037 (J)		<0.005	
6/22/2017				<0.005		<0.005
10/25/2017			0.0047 (J)	0.005		<0.005
10/26/2017	<0.005	<0.005			0.0041 (J)	
4/10/2018	0.0031 (J)	0.0023 (J)		0.005		
4/11/2018			0.0062		0.0041 (J)	<0.005
10/16/2018	0.0016 (J)					
10/17/2018		0.0014 (J)	0.0049 (J)	0.0025 (J)	0.0037 (J)	<0.005
8/20/2019	<0.005					
8/21/2019		<0.005	0.0036 (J)	0.0034 (J)	<0.005	<0.005
10/9/2019	0.0076	0.0071	0.013	0.0083	0.0077	0.0061
4/8/2020	<0.005	<0.005		<0.005		
4/9/2020			<0.005		<0.005	<0.005

Time Series

Constituent: Mercury (mg/L) Analysis Run 6/8/2020 10:00 AM
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-12 (bg)	ARGWA-13 (bg)	ARGWA-14 (bg)	ARGWA-3 (bg)	ARGWA-5 (bg)	ARGWC-10	ARGWC-15
8/30/2016	<0.0002				<0.0002		
8/31/2016		<0.0002	<0.0002	<0.0002			
9/1/2016						<0.0002	
9/2/2016							<0.0002
10/24/2016	<0.0002						
10/25/2016		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
10/26/2016							<0.0002
1/23/2017	<0.0002		<0.0002				
1/24/2017		<0.0002		<0.0002	<0.0002		
1/26/2017							<0.0002
1/27/2017						7.7E-05 (J)	
4/11/2017	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		
4/12/2017						<0.0002	<0.0002
6/20/2017			<0.0002	<0.0002	<0.0002		
6/21/2017	<0.0002	<0.0002					<0.0002
6/22/2017						<0.0002	
10/25/2017	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		
10/26/2017						<0.0002	<0.0002
4/9/2018		<0.0002	<0.0002				
4/10/2018	7.2E-05 (J)			<0.0002	7E-05 (J)		7.1E-05 (J)
4/11/2018						<0.0002	
10/16/2018	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		
10/17/2018						<0.0002	<0.0002
8/19/2019		<0.0002					
8/20/2019	<0.0002			<0.0002	<0.0002		
8/21/2019			<0.0002			<0.0002	<0.0002
4/6/2020			<0.0002				
4/7/2020	<0.0002	<0.0002		0.00016 (J)	<0.0002		
4/8/2020						<0.0002	<0.0002

Time Series

Constituent: Mercury (mg/L) Analysis Run 6/8/2020 10:00 AM
Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-16	ARGWC-17	ARGWC-18	ARGWC-7	ARGWC-8	ARGWC-9
8/31/2016				<0.0002	<0.0002	<0.0002
9/1/2016	8.8E-05 (J)	<0.0002	<0.0002			
10/25/2016	<0.0002	<0.0002		<0.0002		<0.0002
10/26/2016			<0.0002		<0.0002	
1/26/2017	7.9E-05 (J)	<0.0002		<0.0002	8.1E-05 (J)	<0.0002
1/27/2017			7.4E-05 (J)			
4/11/2017	<0.0002	<0.0002				
4/12/2017			<0.0002	<0.0002	<0.0002	<0.0002
6/21/2017	0.00011 (J)	<0.0002	<0.0002		<0.0002	
6/22/2017				<0.0002		<0.0002
10/25/2017			<0.0002	<0.0002		<0.0002
10/26/2017	9.4E-05 (J)	<0.0002			<0.0002	
4/10/2018	9.9E-05 (J)	<0.0002		7E-05 (J)		
4/11/2018			<0.0002		<0.0002	<0.0002
10/16/2018	7E-05 (J)					
10/17/2018		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
8/20/2019	<0.0002					
8/21/2019		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
4/8/2020	<0.0002	<0.0002		<0.0002		
4/9/2020			<0.0002		<0.0002	<0.0002

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 6/8/2020 10:00 AM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-12 (bg)	ARGWA-13 (bg)	ARGWA-14 (bg)	ARGWA-3 (bg)	ARGWA-5 (bg)	ARGWC-10	ARGWC-15
8/30/2016	<0.015				<0.015		
8/31/2016		<0.015	0.004 (J)	<0.015			
9/1/2016						<0.015	
9/2/2016							0.0015 (J)
10/24/2016	<0.015						
10/25/2016		<0.015	<0.015	<0.015	<0.015	<0.015	
10/26/2016							<0.015
1/23/2017	<0.015		<0.015				
1/24/2017		<0.015		<0.015	<0.015		
1/26/2017							<0.015
1/27/2017						<0.015	
4/11/2017	<0.015	<0.015	<0.015	<0.015	<0.015		
4/12/2017						<0.015	<0.015
6/20/2017			<0.015	<0.015	<0.015		
6/21/2017	<0.015	<0.015					<0.015
6/22/2017						<0.015	
10/25/2017	<0.015	0.0018 (J)	<0.015	0.00093 (J)	<0.015		
10/26/2017						<0.015	<0.015
4/9/2018		<0.015	<0.015				
4/10/2018	<0.015			<0.015	<0.015		0.00097 (J)
4/11/2018						<0.015	
10/16/2018	<0.015	<0.015	<0.015	<0.015	<0.015		
10/17/2018						<0.015	<0.015
8/19/2019		<0.015					
8/20/2019	<0.015			<0.015	<0.015		
8/21/2019			0.002 (J)			<0.015	0.0017 (J)
10/7/2019			0.00067 (J)				
10/8/2019	<0.015	<0.015		<0.015	<0.015		0.0011 (J)
10/9/2019						<0.015	
4/6/2020			0.00084 (J)				
4/7/2020	<0.015	<0.015		<0.015	<0.015		
4/8/2020						<0.015	0.00075 (J)

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 6/8/2020 10:00 AM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-16	ARGWC-17	ARGWC-18	ARGWC-7	ARGWC-8	ARGWC-9
8/31/2016				<0.015	0.034	<0.015
9/1/2016	<0.015	<0.015	<0.015			
10/25/2016	<0.015	<0.015		<0.015		<0.015
10/26/2016			<0.015		0.0377	
1/26/2017	<0.015	<0.015		<0.015	0.04	<0.015
1/27/2017			<0.015			
4/11/2017	<0.015	<0.015				
4/12/2017			<0.015	<0.015	0.035	<0.015
6/21/2017	<0.015	<0.015	<0.015		0.038	
6/22/2017				<0.015		<0.015
10/25/2017			<0.015	<0.015		<0.015
10/26/2017	<0.015	<0.015			0.041	
4/10/2018	<0.015	<0.015		<0.015		
4/11/2018			<0.015		0.037	<0.015
10/16/2018	<0.015					
10/17/2018		<0.015	<0.015	<0.015	0.036	<0.015
8/20/2019	<0.015					
8/21/2019		<0.015	<0.015	<0.015	0.051	<0.015
10/9/2019	<0.015	<0.015	<0.015	<0.015	0.049	<0.015
4/8/2020	<0.015	<0.015		<0.015		
4/9/2020			<0.015		0.039	<0.015

Time Series

Constituent: pH (SU) Analysis Run 6/8/2020 10:00 AM
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-12 (bg)	ARGWA-13 (bg)	ARGWA-14 (bg)	ARGWA-3 (bg)	ARGWA-5 (bg)	ARGWC-10	ARGWC-15
8/30/2016	6.82 (o)				6.07		
8/31/2016		6.67 (o)	7.55 (o)	6.09		6.16	
9/2/2016							6.54
10/24/2016	5.99						
10/25/2016		5.8	6.92	5.92	5.96	6.02	6.25
10/26/2016							6.23
1/23/2017	5.94		6.76				
1/24/2017		5.82		5.98	5.89		
1/26/2017							6.4
1/27/2017						5.98	
4/11/2017	5.88	5.78	6.72	5.82	5.78		
4/12/2017						5.87	6.1
6/20/2017			6.66	5.8	5.69		
6/21/2017	5.73	5.67					6.11
6/22/2017						5.68	
10/25/2017	6.13	5.72	6.77	5.89	6.11		
10/26/2017						6.07	6.2
4/9/2018		5.78	6.6				
4/10/2018	5.95			5.85	5.58		6.17
4/11/2018						5.72	
10/16/2018	5.94	5.74	6.63	6.03	5.86		
10/17/2018						5.9	6.34
3/26/2019		5.96					
3/27/2019	6		6.83	6.1	5.97		6.6
3/28/2019						6.05	
8/19/2019		5.59					
8/20/2019	5.89			5.83	5.8		
8/21/2019			6.94			5.82	6.3
10/7/2019			6.69				
10/8/2019	5.93	5.74		5.96	5.93		6.38
10/9/2019						5.94	
4/6/2020			6.65				
4/7/2020	5.91	5.84		5.9	5.86		
4/8/2020						5.95	6.26

Time Series

Constituent: pH (SU) Analysis Run 6/8/2020 10:00 AM
Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-16	ARGWC-17	ARGWC-18	ARGWC-7	ARGWC-8	ARGWC-9
8/31/2016				5.98	6.62	6.1
9/1/2016	5.49	5.52	6.19			
10/25/2016	5.29	5.45		5.81		5.92
10/26/2016			6.03		6.44	
1/26/2017	5.29	5.43		5.73	6.34	5.82
1/27/2017			6.01			
4/11/2017	5.21	5.33				
4/12/2017			5.97	5.65	6.36	5.79
6/21/2017	5.21	5.3	5.9		6.28	
6/22/2017				5.69		5.64
10/25/2017			5.97	5.99		5.7
10/26/2017	5.2	5.29			6.47	
4/10/2018	5.34	5.46		5.6		
4/11/2018			5.87		6.34	5.69
10/16/2018	5.47					
10/17/2018		5.32	5.9	5.67	6.2	5.81
3/27/2019			6.06			
3/28/2019	5.31	5.36		5.85		5.97
3/29/2019					6.55	
8/20/2019	5.35					
8/21/2019		5.07	5.94	5.77	6.36	5.76
10/9/2019	5.22	5.27	6.01	5.76	6.47	5.9
4/8/2020	5.07	5.02		5.75		
4/9/2020			5.98		6.42	5.9

Time Series

Constituent: Selenium (mg/L) Analysis Run 6/8/2020 10:00 AM
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-12 (bg)	ARGWA-13 (bg)	ARGWA-14 (bg)	ARGWA-3 (bg)	ARGWA-5 (bg)	ARGWC-10	ARGWC-15
12/16/1997				<0.005	<0.005		
6/30/1998				<0.005	<0.005		
12/2/1998				<0.005	<0.005		
6/8/1999				<0.005	<0.005		
12/7/1999				<0.005	<0.005		
6/15/2000				<0.005	<0.005		
12/12/2000				<0.005	<0.005		
12/5/2001				<0.005	<0.005		
6/26/2002				<0.005	<0.005		
12/3/2002				<0.005	<0.005		
6/11/2003				<0.005	<0.005		
12/10/2003				<0.005	<0.005		
6/15/2004				<0.005	<0.005		
12/14/2004				<0.005	<0.005		
6/2/2005				<0.005	<0.005		
12/14/2005				<0.005	<0.005		
4/5/2006				<0.005	<0.005		
10/30/2006				<0.005	<0.005		
5/10/2007				<0.005	<0.005		
11/17/2007				<0.005	<0.005		
5/3/2008				<0.005	<0.005		
10/22/2008				<0.005	<0.005		
5/5/2009							0.0041
5/6/2009	0.0054				0.0047		
5/7/2009		0.0059		0.0049			
5/13/2009						0.005	
12/1/2009					0.0046		
12/3/2009	0.006	0.0057				0.0057	
12/4/2009				<0.005			<0.005
5/25/2010	<0.005	<0.013			<0.005		
5/26/2010						<0.005	
6/1/2010				<0.005			<0.005
6/2/2010			<0.005				
11/9/2010	<0.005				<0.005	<0.005	
11/10/2010		<0.013	<0.005	<0.005			<0.005
5/19/2011			<0.005			<0.005	
5/24/2011	<0.005				<0.005		
5/25/2011		<0.013		<0.005			<0.005
11/9/2011			<0.005				<0.005
11/10/2011	<0.005	<0.013			<0.005		
11/11/2011						<0.005	
11/12/2011				<0.005			
5/17/2012						<0.005	
5/18/2012	<0.005				<0.005		
5/30/2012		<0.0005	<0.005				
5/31/2012				<0.005			<0.005
11/9/2012	<0.005	<0.005			<0.005	<0.005	
11/10/2012							<0.005
11/11/2012			<0.005	<0.005			
5/7/2013						<0.005	
5/8/2013	<0.005				<0.005		
5/9/2013		<0.005	<0.005				

Time Series

Constituent: Selenium (mg/L) Analysis Run 6/8/2020 10:00 AM
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-12 (bg)	ARGWA-13 (bg)	ARGWA-14 (bg)	ARGWA-3 (bg)	ARGWA-5 (bg)	ARGWC-10	ARGWC-15
5/13/2013				<0.005			<0.005
11/6/2013	<0.005				<0.005	<0.005	
11/11/2013		<0.005	<0.005				
11/12/2013				<0.005			<0.005
5/20/2014	<0.005				<0.005	<0.005	
5/21/2014		<0.005					
5/28/2014							<0.005
5/29/2014			<0.005	<0.005			
11/17/2014					<0.005		
11/18/2014	<0.005	0.0083				<0.005	
11/19/2014			<0.005				
11/20/2014							<0.005
4/7/2015		<0.005			<0.005	<0.005	
4/14/2015	<0.005		<0.005	<0.005			<0.005
10/28/2015		0.023			<0.005	<0.005	
10/29/2015	<0.005						
11/3/2015				<0.005			<0.005
11/4/2015			<0.005				
6/23/2016	<0.005	0.0096	<0.005	<0.005	<0.005	<0.005	<0.005
8/30/2016	<0.005				<0.005		
8/31/2016		0.017	0.00077 (J)	<0.005			
9/1/2016						<0.005	
9/2/2016							0.0005 (J)
10/24/2016	<0.005						
10/25/2016		0.0257	<0.005	<0.005	<0.005	<0.005	
10/26/2016							<0.005
1/23/2017	<0.005		0.00037 (J)				
1/24/2017		0.0097		<0.005	<0.005		
1/26/2017							<0.005
1/27/2017						<0.005	
4/11/2017	<0.005	0.0079	<0.005	<0.005	<0.005		
4/12/2017						<0.005	<0.005
6/20/2017			0.00044 (J)	<0.005	<0.005		
6/21/2017	0.00025 (J)	0.019					<0.005
6/22/2017						<0.005	
10/25/2017	0.00027 (J)	0.022	0.00038 (J)	0.00032 (J)	0.00027 (J)		
10/26/2017						<0.005	0.0004 (J)
4/9/2018		0.0063	<0.005				
4/10/2018	0.00033 (J)			<0.005	<0.005		0.00044 (J)
4/11/2018						<0.005	
10/16/2018	<0.005	0.021	<0.005	<0.005	<0.005		
10/17/2018						<0.005	<0.005
3/26/2019		0.015					
3/27/2019	<0.005		<0.005	<0.005	<0.005		<0.005
3/28/2019						<0.005	
8/19/2019		0.034					
8/20/2019	<0.005			<0.005	<0.005		
8/21/2019			<0.005			<0.005	<0.005
10/7/2019			<0.005				
10/8/2019	<0.005	0.03		<0.005	<0.005		<0.005
10/9/2019						<0.005	
4/6/2020			<0.005				

Time Series

Constituent: Selenium (mg/L) Analysis Run 6/8/2020 10:00 AM
Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-12 (bg)	ARGWA-13 (bg)	ARGWA-14 (bg)	ARGWA-3 (bg)	ARGWA-5 (bg)	ARGWC-10	ARGWC-15
4/7/2020	<0.005	0.0094		<0.005	<0.005		
4/8/2020						<0.005	<0.005

Time Series

Constituent: Selenium (mg/L) Analysis Run 6/8/2020 10:00 AM
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-16	ARGWC-17	ARGWC-18	ARGWC-7	ARGWC-8	ARGWC-9
12/14/2005				<0.005		
4/5/2006				<0.005		
10/30/2006				<0.005		
5/10/2007				<0.005		
11/17/2007				<0.005		
5/2/2008				<0.005		
10/22/2008				<0.005		
5/12/2009	0.0062	0.0059	0.0039			
5/13/2009						0.0049
5/14/2009				0.0046	0.0035	
12/1/2009				0.0019		
12/3/2009					<0.005	0.0045
12/4/2009		<0.005	<0.005			
12/5/2009	<0.005					
5/25/2010		<0.005	<0.005			
5/26/2010	<0.005			<0.005	<0.005	<0.005
11/9/2010	<0.005	<0.005			<0.005	<0.005
11/10/2010			<0.005	<0.005		
5/18/2011					<0.005	
5/19/2011			<0.005			<0.005
5/24/2011	<0.005	<0.005				
5/25/2011				<0.005		
11/11/2011				<0.005	<0.005	<0.005
11/12/2011	<0.005	<0.005	<0.005			
5/17/2012			0.0006 (J)	<0.005	<0.005	<0.005
5/30/2012	0.0016 (J)	<0.005				
11/9/2012	<0.005	<0.005		<0.005	<0.005	<0.005
11/10/2012			<0.005			
5/7/2013			<0.005		<0.005	<0.005
5/8/2013		<0.005		<0.005		
5/13/2013	<0.005					
11/5/2013			<0.005	<0.005	<0.005	
11/6/2013	<0.005	<0.005				<0.005
5/20/2014		<0.005				
5/21/2014	<0.005			<0.005	<0.005	<0.005
5/28/2014			<0.005			
11/17/2014	<0.005	<0.005		<0.005		
11/18/2014					<0.005	<0.005
11/19/2014			<0.005			
4/7/2015	<0.005	<0.005		<0.005	<0.005	<0.005
4/15/2015			<0.005			
10/28/2015	<0.005	<0.005		<0.005	<0.005	<0.005
10/29/2015			<0.005			
6/23/2016				0.00029 (J)	<0.005	<0.005
6/24/2016	0.0014	<0.005	<0.005			
8/31/2016				<0.005	<0.005	0.00024 (J)
9/1/2016	0.0014	<0.005	<0.005			
10/25/2016	0.0015 (J)	<0.005		<0.005		<0.005
10/26/2016			<0.005		<0.005	
1/26/2017	0.00071 (J)	<0.005		<0.005	<0.005	<0.005
1/27/2017			<0.005			
4/11/2017	0.0011 (J)	<0.005				

Time Series

Constituent: Selenium (mg/L) Analysis Run 6/8/2020 10:00 AM
Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-16	ARGWC-17	ARGWC-18	ARGWC-7	ARGWC-8	ARGWC-9
4/12/2017			<0.005	<0.005	<0.005	<0.005
6/21/2017	0.00075 (J)	<0.005	<0.005		<0.005	
6/22/2017				<0.005		<0.005
10/25/2017			<0.005	<0.005		0.00029 (J)
10/26/2017	0.0012 (J)	<0.005			<0.005	
4/10/2018	0.0013	<0.005		<0.005		
4/11/2018			<0.005		<0.005	<0.005
10/16/2018	0.00072 (J)					
10/17/2018		<0.005	<0.005	<0.005	<0.005	<0.005
3/27/2019			<0.005			
3/28/2019	0.0017	<0.005		<0.005	<0.005	<0.005
8/20/2019	<0.005					
8/21/2019		<0.005	<0.005	<0.005	<0.005	<0.005
10/9/2019	0.0018 (J)	<0.005	<0.005	<0.005	<0.005	<0.005
4/8/2020	0.0022 (J)	<0.005		<0.005		
4/9/2020			<0.005		<0.005	<0.005

Time Series

Constituent: Silver (mg/L) Analysis Run 6/8/2020 10:00 AM
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-12 (bg)	ARGWA-13 (bg)	ARGWA-14 (bg)	ARGWA-3 (bg)	ARGWA-5 (bg)	ARGWC-10	ARGWC-15
12/16/1997				0.035 (o)	<0.001		
6/30/1998				<0.001	<0.001		
12/2/1998				<0.001	<0.001		
6/8/1999				<0.001	<0.001		
12/7/1999				<0.001	<0.001		
6/15/2000				<0.001	<0.001		
12/12/2000				0.0051	<0.001		
12/5/2001				<0.001	<0.001		
6/26/2002				<0.001	<0.001		
12/3/2002				<0.001	<0.001		
6/11/2003				<0.001	<0.001		
12/10/2003				0.003	0.002 (o)		
6/15/2004				<0.001	<0.001		
12/14/2004				<0.001	<0.001		
6/2/2005				<0.001	<0.001		
12/14/2005				<0.001	<0.001		
4/5/2006				<0.001	<0.001		
10/30/2006				0.002	<0.001		
5/10/2007				0.0017	<0.001		
11/17/2007				<0.001	<0.001		
5/3/2008				<0.001	<0.001		
10/22/2008				<0.001	<0.001		
5/5/2009							<0.001
5/6/2009	<0.001				<0.001		
5/7/2009		<0.001		<0.001			
5/13/2009						0.0009	
12/1/2009					<0.001		
12/3/2009	<0.001	<0.001				0.00083	
12/4/2009				<0.001			0.00098
5/25/2010	<0.001	<0.001			<0.001		
5/26/2010						<0.001	
6/1/2010				<0.001			<0.001
6/2/2010			<0.001				
11/9/2010	<0.001				<0.001	<0.001	
11/10/2010		<0.001	<0.001	<0.001			<0.001
5/19/2011			<0.001			<0.001	
5/24/2011	<0.001				<0.001		
5/25/2011		<0.001		<0.001			<0.001
5/17/2012						<0.001	
5/18/2012	0.0001 (J)				<0.001		
5/30/2012		<0.001	<0.001				
5/31/2012				<0.001			<0.001
11/9/2012	<0.001	<0.001			<0.001	<0.001	
11/10/2012							<0.001
11/11/2012			<0.001	<0.001			
5/7/2013						<0.001	
5/8/2013	<0.001				<0.001		
5/9/2013		<0.001	<0.001				
5/13/2013				<0.001			<0.001
11/6/2013	<0.001				<0.001	<0.001	
11/11/2013		<0.001	<0.001				
11/12/2013				<0.001			<0.001

Time Series

Constituent: Silver (mg/L) Analysis Run 6/8/2020 10:00 AM
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-12 (bg)	ARGWA-13 (bg)	ARGWA-14 (bg)	ARGWA-3 (bg)	ARGWA-5 (bg)	ARGWC-10	ARGWC-15
5/20/2014	<0.001				<0.001	<0.001	
5/21/2014		<0.001					
5/28/2014							<0.001
5/29/2014			<0.001	<0.001			
11/17/2014					<0.001		
11/18/2014	<0.001	<0.001				<0.001	
11/19/2014			<0.001				
11/20/2014							<0.001
4/7/2015		<0.001			<0.001	<0.001	
4/14/2015	<0.001		<0.001	<0.001			<0.001
10/28/2015		<0.001			<0.001	<0.001	
10/29/2015	<0.001						
11/3/2015				<0.001			<0.001
11/4/2015			<0.001				
6/23/2016	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
10/24/2016	<0.001						
10/25/2016		<0.001	<0.001	<0.001	<0.001	<0.001	
10/26/2016							<0.001
4/11/2017	<0.001	<0.001	<0.001	<0.001	<0.001		
4/12/2017						<0.001	<0.001
10/25/2017	<0.001	0.00013 (J)	<0.001	<0.001	<0.001		
10/26/2017						<0.001	0.00037 (J)
4/9/2018		<0.001	<0.001				
4/10/2018	<0.001			<0.001	<0.001		<0.001
4/11/2018						<0.001	
10/16/2018	<0.001	<0.001	<0.001	<0.001	<0.001		
10/17/2018						<0.001	<0.001
3/26/2019		<0.001					
3/27/2019	<0.001		<0.001	<0.001	<0.001		<0.001
3/28/2019						<0.001	
10/7/2019			0.00022 (J)				
10/8/2019	<0.001	0.00047 (J)		0.00019 (J)	0.0003 (J)		0.00018 (J)
10/9/2019						<0.001	
4/6/2020			<0.001				
4/7/2020	<0.001	<0.001		<0.001	<0.001		
4/8/2020						<0.001	<0.001

Time Series

Constituent: Silver (mg/L) Analysis Run 6/8/2020 10:00 AM
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-16	ARGWC-17	ARGWC-18	ARGWC-7	ARGWC-8	ARGWC-9
12/14/2005				<0.001		
4/5/2006				<0.001		
10/30/2006				<0.001		
5/10/2007				0.0011		
11/17/2007				<0.001		
5/2/2008				<0.001		
10/22/2008				<0.001		
5/12/2009	0.0011	0.0011	<0.001			
5/13/2009						0.0024 (o)
5/14/2009				<0.001	<0.001	
12/1/2009				<0.001		
12/3/2009					<0.001	0.0007
12/4/2009		0.0014	0.0008			
12/5/2009	0.0004					
5/25/2010		<0.001	<0.001			
5/26/2010	<0.001			<0.001	<0.001	<0.001
11/9/2010	<0.001	<0.001			<0.001	<0.001
11/10/2010			<0.001	<0.001		
5/18/2011					<0.001	
5/19/2011			<0.001			<0.001
5/24/2011	<0.001	<0.001				
5/25/2011				<0.001		
5/17/2012			<0.001	<0.001	<0.001	<0.001
5/30/2012	<0.001	<0.001				
11/9/2012	<0.001	<0.001		<0.001	<0.001	<0.001
11/10/2012			<0.001			
5/7/2013			<0.001		<0.001	<0.001
5/8/2013		<0.001		<0.001		
5/13/2013	<0.001					
11/5/2013			<0.001	<0.001	<0.001	
11/6/2013	<0.001	<0.001				<0.001
5/20/2014		<0.001				
5/21/2014	<0.001			<0.001	<0.001	<0.001
5/28/2014			<0.001			
11/17/2014	<0.001	<0.001		<0.001		
11/18/2014					<0.001	<0.001
11/19/2014			<0.001			
4/7/2015	<0.001	<0.001		<0.001	<0.001	<0.001
4/15/2015			<0.001			
10/28/2015	<0.001	<0.001		<0.001	<0.001	<0.001
10/29/2015			<0.001			
6/23/2016				<0.001	<0.001	<0.001
6/24/2016	<0.001	<0.001	<0.001			
10/25/2016	<0.001	<0.001		<0.001		<0.001
10/26/2016			<0.001		<0.001	
4/11/2017	<0.001	<0.001				
4/12/2017			<0.001	<0.001	<0.001	<0.001
10/25/2017			<0.001	<0.001		<0.001
10/26/2017	0.00026 (J)	<0.001			<0.001	
4/10/2018	<0.001	<0.001		<0.001		
4/11/2018			<0.001		<0.001	<0.001
10/16/2018	<0.001					

Time Series

Constituent: Silver (mg/L) Analysis Run 6/8/2020 10:00 AM
Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-16	ARGWC-17	ARGWC-18	ARGWC-7	ARGWC-8	ARGWC-9
10/17/2018		<0.001	<0.001	<0.001	<0.001	<0.001
3/27/2019			<0.001			
3/28/2019	<0.001	<0.001		<0.001	<0.001	<0.001
10/9/2019	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
4/8/2020	<0.001	<0.001		<0.001		
4/9/2020			<0.001		<0.001	<0.001

Time Series

Constituent: Sulfate (mg/L) Analysis Run 6/8/2020 10:00 AM
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-12 (bg)	ARGWA-13 (bg)	ARGWA-14 (bg)	ARGWA-3 (bg)	ARGWA-5 (bg)	ARGWC-10	ARGWC-15
12/16/1997				<1	2		
6/30/1998				<1	<1		
12/2/1998				0.654	0.709		
6/8/1999				1.46	<1		
12/7/1999				0.399	0.531		
6/15/2000				0.601	0.733		
12/12/2000				0.45	0.621		
12/5/2001				0.094	0.274		
6/26/2002				4.95	0.505		
12/3/2002				0.911	0.515		
6/11/2003				1.85	0.508		
12/10/2003				0.77	0.578		
6/15/2004				1.3	1.23		
12/14/2004				1.02	1.22		
6/2/2005				0.834	0.908		
12/14/2005				<1	0.825		
4/5/2006				<1	1.06		
10/30/2006				0.865	0.996		
5/10/2007				1.03	1.01		
11/17/2007				0.818	1.72		
5/3/2008				0.941	1.2		
10/22/2008				<1	<1		
5/5/2009							2.89
5/6/2009	16.6				0.807		
5/7/2009		21.4		0.46			
5/13/2009						0.984 (o)	
12/1/2009					0.644		
12/3/2009	12.3	11.6				0.544	
12/4/2009				1.06			3.13
5/25/2010	6.44	12.3			0.509		
5/26/2010						0.37	
6/1/2010				5.56			14.5
6/2/2010			129				
11/9/2010	6.83				0.348	0.299	
11/10/2010		10.6	140	0.241			5.04
5/19/2011			269			0.502	
5/24/2011	8.55				0.532		
5/25/2011		11.9		0.383			4.57
11/9/2011			308				4.15
11/10/2011	9.74	100			0.209		
11/11/2011						0.172	
11/12/2011				<1			
5/17/2012						0.438	
5/18/2012	8.72				0.471		
5/30/2012		61.3	296				
5/31/2012				0.426			4.05
11/9/2012	5.9	202			0.589	0.537	
11/10/2012							5.68
11/11/2012			225	0.455 (J)			
5/7/2013						0.437	
5/8/2013	5.66				0.504		
5/9/2013		33.4	268				

Time Series

Constituent: Sulfate (mg/L) Analysis Run 6/8/2020 10:00 AM
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-12 (bg)	ARGWA-13 (bg)	ARGWA-14 (bg)	ARGWA-3 (bg)	ARGWA-5 (bg)	ARGWC-10	ARGWC-15
5/13/2013				2.61			2.45
11/6/2013	9.04				<1	<1	
11/11/2013		316	132				
11/12/2013				<1			11.8
5/20/2014	7.25				0.5 (J)	0 (o)	
5/21/2014		162					
5/28/2014							14.6
5/29/2014			216	1.41			
11/17/2014					<1		
11/18/2014	10	370				<1	
11/19/2014			160				
11/20/2014							12
4/7/2015		235			0.469	0.464	
4/14/2015	9.61		105	0.377			8.71
10/28/2015		737			0.28	0.293	
10/29/2015	10.2						
11/3/2015				0.215			5.14
11/4/2015			74.4				
6/23/2016	9.8	380	18	<1	<1	<1	6.9
8/30/2016	9.5				<1		
8/31/2016		600	19	<1			
9/1/2016						<1	
9/2/2016							6.1
10/24/2016	11						
10/25/2016		820	42	0.3 (J)	0.4 (J)	0.38 (J)	
10/26/2016							22
1/23/2017	11		12				
1/24/2017		370		<1	<1		
1/26/2017							5.1
1/27/2017						<1	
4/11/2017	9.1	340	7.1	<1	<1		
4/12/2017						<1	4
6/20/2017			8.5	<1	<1		
6/21/2017	10	540					4.6
6/22/2017						<1	
10/25/2017	11	580	9.1	<1	<1		
10/26/2017						<1	5.4
4/9/2018		230	11				
4/10/2018	9.5			<1	<1		6.7
4/11/2018						<1	
10/16/2018	10	520	14	<1	<1		
10/17/2018						<1	6.8
3/26/2019		430					
3/27/2019	9.1		15	0.38 (J)	0.55 (J)		7.2
3/28/2019						0.38 (J)	
10/7/2019			12				
10/8/2019	55	950		0.7 (J)	0.7 (J)		31
10/9/2019						0.59 (J)	
4/6/2020			10				
4/7/2020	8	270		0.67 (J)	<1		
4/8/2020						<1	5.9

Time Series

Constituent: Sulfate (mg/L) Analysis Run 6/8/2020 10:00 AM
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-16	ARGWC-17	ARGWC-18	ARGWC-7	ARGWC-8	ARGWC-9
12/14/2005				133		
4/5/2006				140		
10/30/2006				157		
5/10/2007				111		
11/17/2007				114		
5/2/2008				104		
10/22/2008				129		
5/12/2009	57.9	42.6	173			
5/13/2009						0.938
5/14/2009				157	109	
12/1/2009				142		
12/3/2009					107	0.422
12/4/2009		58.4	195			
12/5/2009	72.1					
5/25/2010		79.4	199			
5/26/2010	70.3			120	109	0.262
11/9/2010	74.8	111			100	<1
11/10/2010			189	100		
5/18/2011					110	
5/19/2011			186			0.359
5/24/2011	87.2	171				
5/25/2011				88.8		
11/11/2011				96.6	107	<1
11/12/2011	97.9	182	49.9			
5/17/2012			177	88.9	98	0.398
5/30/2012	103	194				
11/9/2012	140	842 (o)		70.1	90.4	0.545
11/10/2012			184			
5/7/2013			195		96.2	0.797
5/8/2013		173		80.5		
5/13/2013	160					
11/5/2013			178	71.6	86.9	
11/6/2013	146	471 (o)				0.86
5/20/2014		145				
5/21/2014	217			80.4	106	1.02
5/28/2014			201			
11/17/2014	97	110		71		
11/18/2014					99	1.2
11/19/2014			150			
4/7/2015	125	145		70.6	82.3	1.14
4/15/2015			195			
10/28/2015	106	82.7		12.2	78	1.02
10/29/2015			147			
6/23/2016				61	78	1
6/24/2016	170	79	200			
8/31/2016				57	72	1.1
9/1/2016	130	94	200			
10/25/2016	200	73		56		4.7 (o)
10/26/2016			200		77	
1/26/2017	130	110		57	75	1.1
1/27/2017			200			
4/11/2017	150	77				

Time Series

Constituent: Sulfate (mg/L) Analysis Run 6/8/2020 10:01 AM
Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-16	ARGWC-17	ARGWC-18	ARGWC-7	ARGWC-8	ARGWC-9
4/12/2017			190	47	69	0.9 (J)
6/21/2017	130	75	200		73	
6/22/2017				49		0.99 (J)
10/25/2017			190	49		0.95 (J)
10/26/2017	110	61			72	
4/10/2018	130	58		46		
4/11/2018			200		69	0.9 (J)
10/16/2018	84					
10/17/2018		47	190	42	67	0.95 (J)
3/27/2019			190			
3/28/2019	220	59		45	66	1
10/9/2019	210	57	180	42	63	1.5
4/8/2020	200	47		39		
4/9/2020			190		59	1.1

Time Series

Constituent: Thallium (mg/L) Analysis Run 6/8/2020 10:01 AM
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-12 (bg)	ARGWA-13 (bg)	ARGWA-14 (bg)	ARGWA-3 (bg)	ARGWA-5 (bg)	ARGWC-10	ARGWC-15
8/30/2016	<0.001				<0.001		
8/31/2016		<0.001	<0.001	<0.001			
9/1/2016						<0.001	
9/2/2016							9.5E-05 (J)
10/24/2016	<0.001						
10/25/2016		<0.001	<0.001	<0.001	<0.001	<0.001	
10/26/2016							<0.001
1/23/2017	<0.001		<0.001				
1/24/2017		<0.001		<0.001	<0.001		
1/26/2017							<0.001
1/27/2017						<0.001	
4/11/2017	<0.001	<0.001	<0.001	<0.001	<0.001		
4/12/2017						<0.001	<0.001
6/20/2017			<0.001	<0.001	<0.001		
6/21/2017	<0.001	<0.001					<0.001
6/22/2017						<0.001	
10/25/2017	<0.001	<0.001	<0.001	<0.001	<0.001		
10/26/2017						<0.001	<0.001
4/9/2018		<0.001	<0.001				
4/10/2018	<0.001			<0.001	<0.001		<0.001
4/11/2018						<0.001	
10/16/2018	<0.001	<0.001	<0.001	<0.001	<0.001		
10/17/2018						<0.001	<0.001
8/19/2019		<0.001					
8/20/2019	<0.001			0.0002 (J)	0.00023 (J)		
8/21/2019			<0.001			<0.001	<0.001
10/7/2019			<0.001				
10/8/2019	<0.001	<0.001		<0.001	<0.001		<0.001
10/9/2019						<0.001	
4/6/2020			<0.001				
4/7/2020	<0.001	<0.001		<0.001	0.00015 (J)		
4/8/2020						<0.001	<0.001

Time Series

Constituent: Thallium (mg/L) Analysis Run 6/8/2020 10:01 AM
Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-16	ARGWC-17	ARGWC-18	ARGWC-7	ARGWC-8	ARGWC-9
8/31/2016				<0.001	<0.001	<0.001
9/1/2016	<0.001	<0.001	<0.001			
10/25/2016	<0.001	<0.001		<0.001		<0.001
10/26/2016			<0.001		<0.001	
1/26/2017	<0.001	<0.001		<0.001	<0.001	<0.001
1/27/2017			<0.001			
4/11/2017	<0.001	<0.001				
4/12/2017			<0.001	<0.001	<0.001	<0.001
6/21/2017	<0.001	<0.001	<0.001		<0.001	
6/22/2017				<0.001		<0.001
10/25/2017			<0.001	<0.001		<0.001
10/26/2017	<0.001	<0.001			<0.001	
4/10/2018	<0.001	<0.001		<0.001		
4/11/2018			<0.001		<0.001	<0.001
10/16/2018	<0.001					
10/17/2018		<0.001	<0.001	<0.001	<0.001	<0.001
8/20/2019	<0.001					
8/21/2019		<0.001	<0.001	<0.001	<0.001	<0.001
10/9/2019	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
4/8/2020	<0.001	<0.001		<0.001		
4/9/2020			<0.001		<0.001	<0.001

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 6/8/2020 10:01 AM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-12 (bg)	ARGWA-13 (bg)	ARGWA-14 (bg)	ARGWA-3 (bg)	ARGWA-5 (bg)	ARGWC-10	ARGWC-15
8/30/2016	100				58		
8/31/2016		1000	330	80			
9/1/2016						100	
9/2/2016							150
10/24/2016	136						
10/25/2016		1280	459	65	34	65	
10/26/2016							125
1/23/2017	16		340				
1/24/2017		590		70	120		
1/26/2017							86
1/27/2017						86	
4/11/2017	120	610	300	64	76		
4/12/2017						110	140
6/20/2017			210	52	36		
6/21/2017	140	880					120
6/22/2017						82	
10/25/2017	120	900	280	72	64		
10/26/2017						38	96
4/9/2018		440	280				
4/10/2018	130			86	60		130
4/11/2018						50	
10/16/2018	150	910	48	74	54		
10/17/2018						120	160
3/26/2019		750					
3/27/2019	110		330	69	61		150
3/28/2019						82	
10/7/2019			230				
10/8/2019	130	1500		66	68		130
10/9/2019						92	
4/6/2020			280				
4/7/2020	120	480		64	65		
4/8/2020						82	130

Time Series

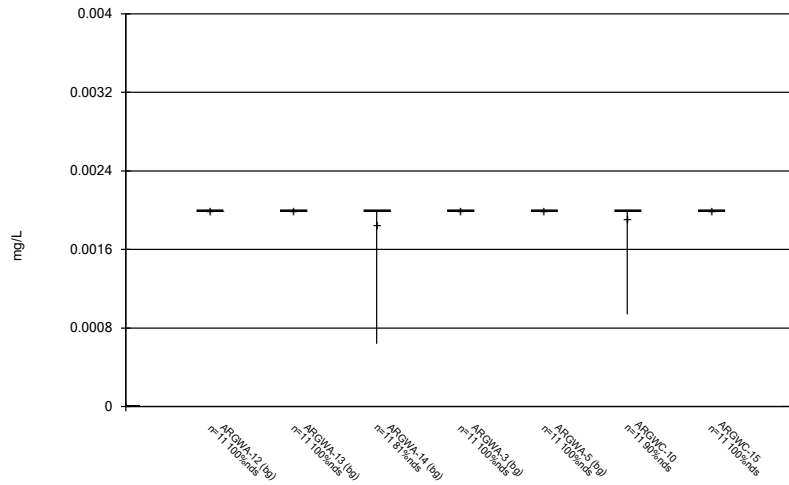
Constituent: Total Dissolved Solids (mg/L) Analysis Run 6/8/2020 10:01 AM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-16	ARGWC-17	ARGWC-18	ARGWC-7	ARGWC-8	ARGWC-9
8/31/2016				150	310	74
9/1/2016	240	220	450			
10/25/2016	304	114		171		67
10/26/2016			404		283	
1/26/2017	170	170		120	300	84
1/27/2017			460			
4/11/2017	260	160				
4/12/2017			430	150	310	88
6/21/2017	230	140	430		300	
6/22/2017				130		76
10/25/2017			380	130		60
10/26/2017	170	120			270	
4/10/2018	260	110		140		
4/11/2018			430		240	24
10/16/2018	140					
10/17/2018		140	470	180	120	96
3/27/2019			430			
3/28/2019	370	120		130	290	77
10/9/2019	350	120	420	130	290	75
4/8/2020	350	91		130		
4/9/2020			440		270	70

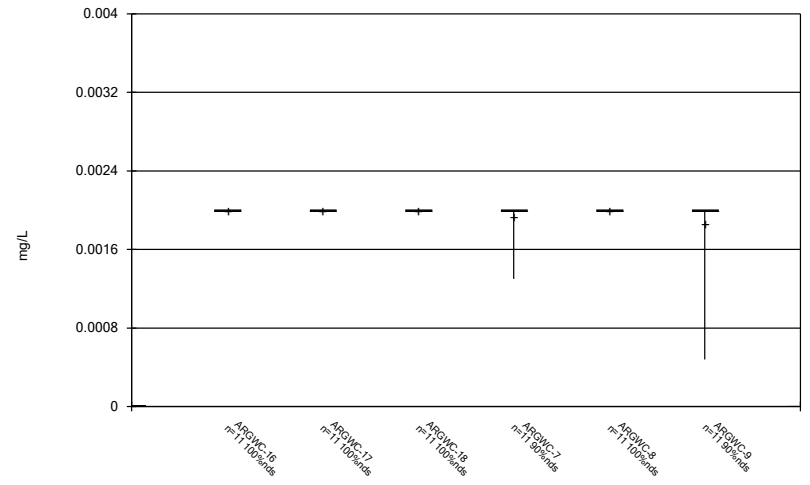
FIGURE B.

Box & Whiskers Plot



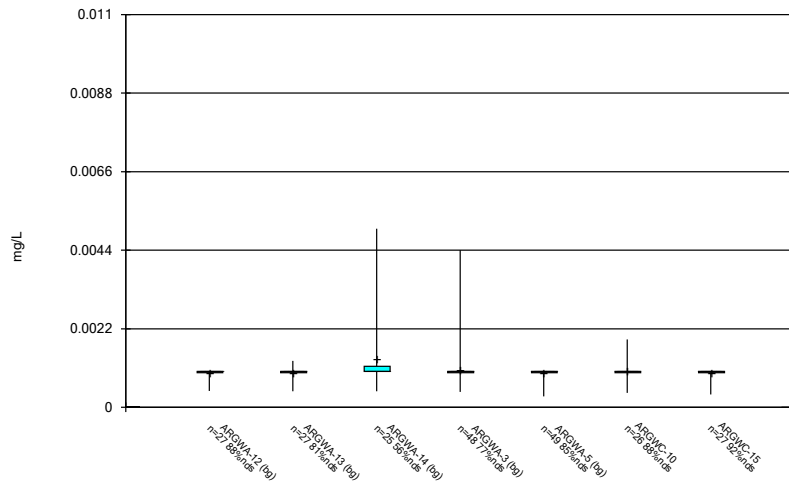
Constituent: Antimony Analysis Run 6/8/2020 10:01 AM
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

Box & Whiskers Plot



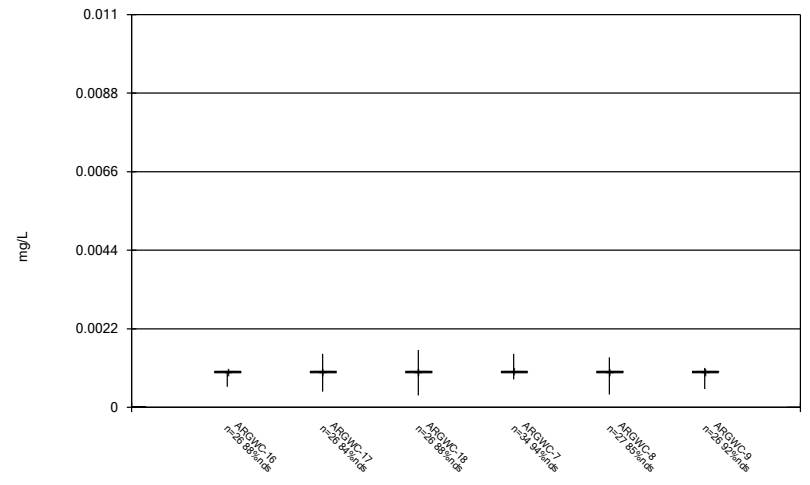
Constituent: Antimony Analysis Run 6/8/2020 10:01 AM
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

Box & Whiskers Plot



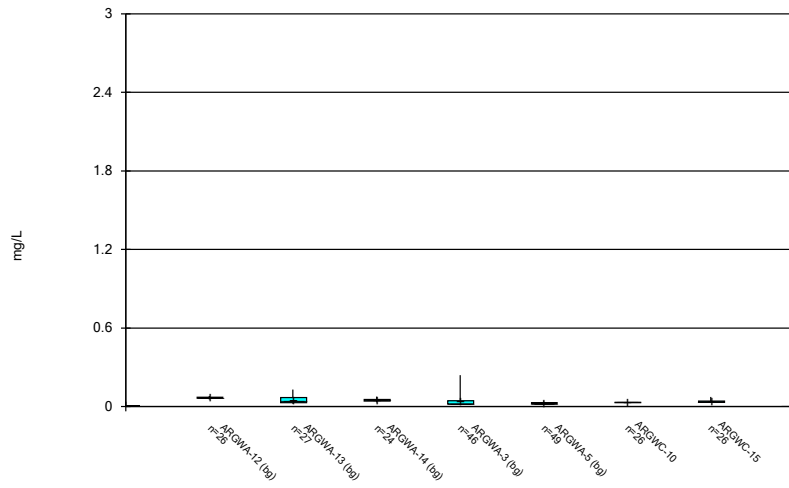
Constituent: Arsenic Analysis Run 6/8/2020 10:01 AM
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

Box & Whiskers Plot



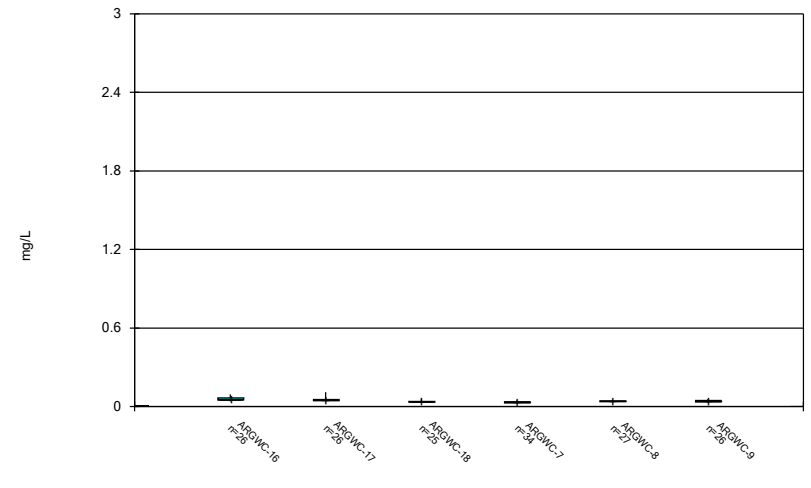
Constituent: Arsenic Analysis Run 6/8/2020 10:01 AM
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

Box & Whiskers Plot



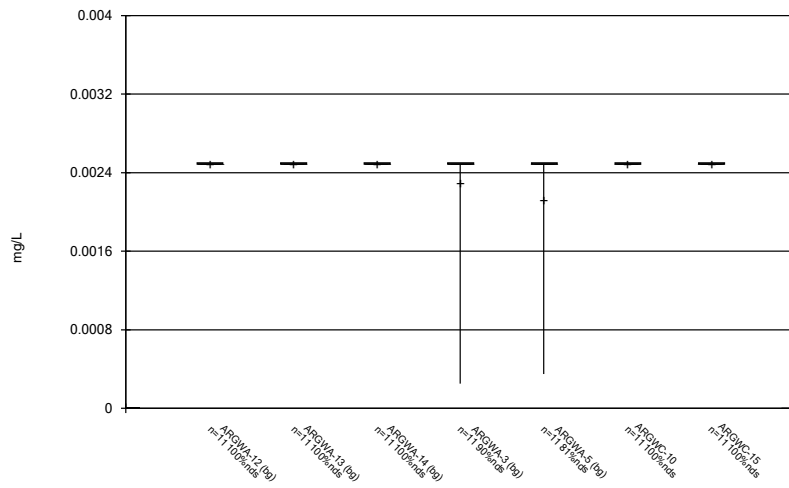
Constituent: Barium Analysis Run 6/8/2020 10:01 AM
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

Box & Whiskers Plot



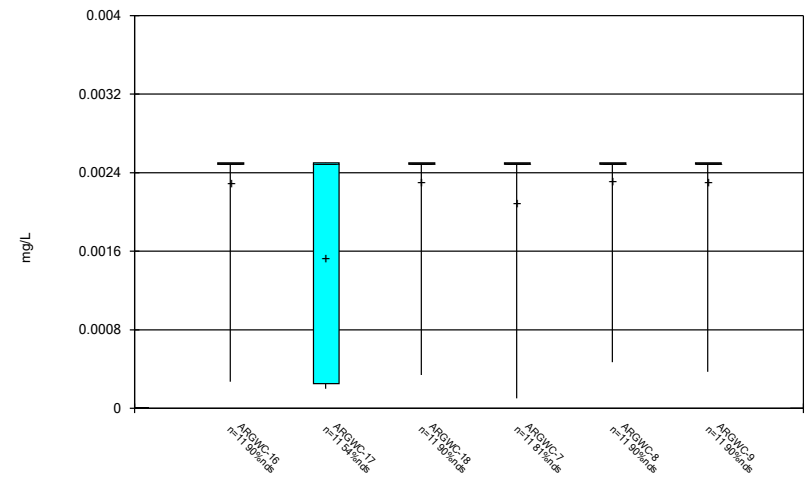
Constituent: Barium Analysis Run 6/8/2020 10:01 AM
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

Box & Whiskers Plot



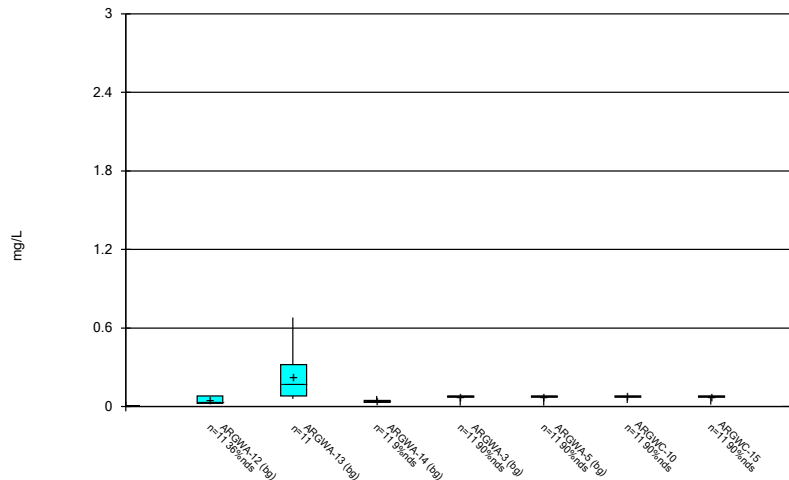
Constituent: Beryllium Analysis Run 6/8/2020 10:01 AM
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

Box & Whiskers Plot



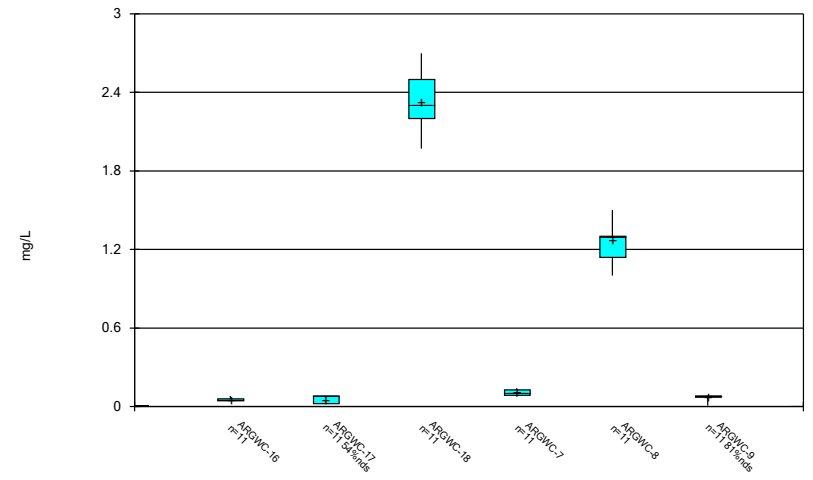
Constituent: Beryllium Analysis Run 6/8/2020 10:01 AM
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

Box & Whiskers Plot



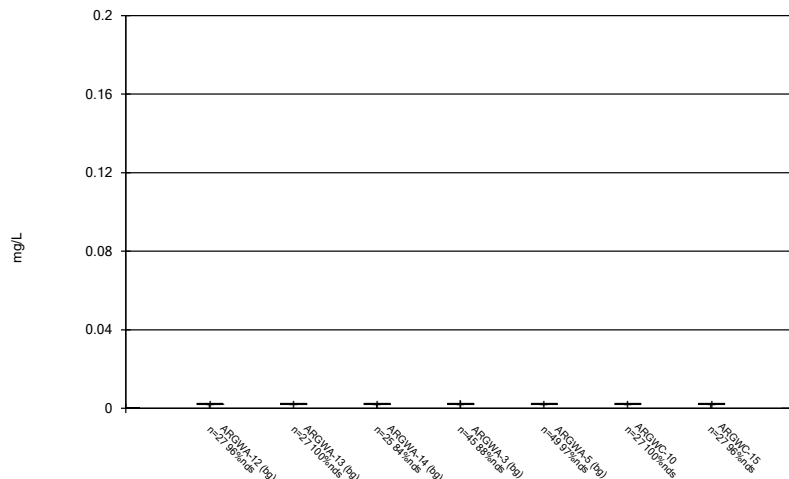
Constituent: Boron Analysis Run 6/8/2020 10:01 AM
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

Box & Whiskers Plot



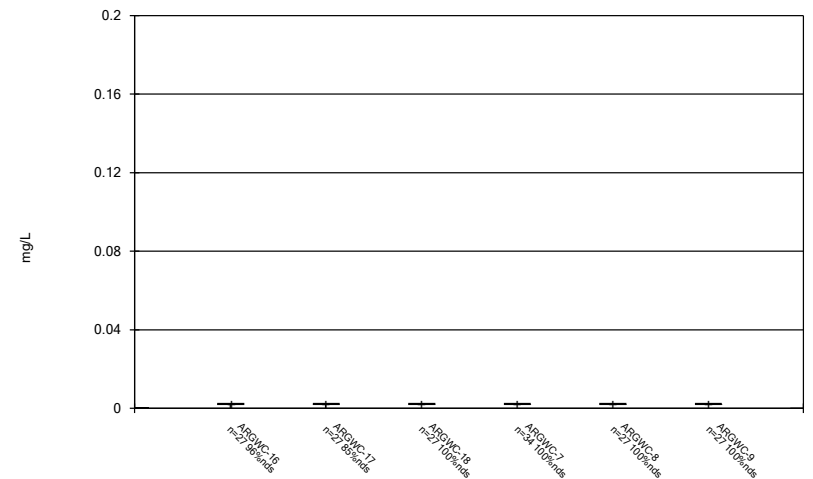
Constituent: Boron Analysis Run 6/8/2020 10:01 AM
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

Box & Whiskers Plot



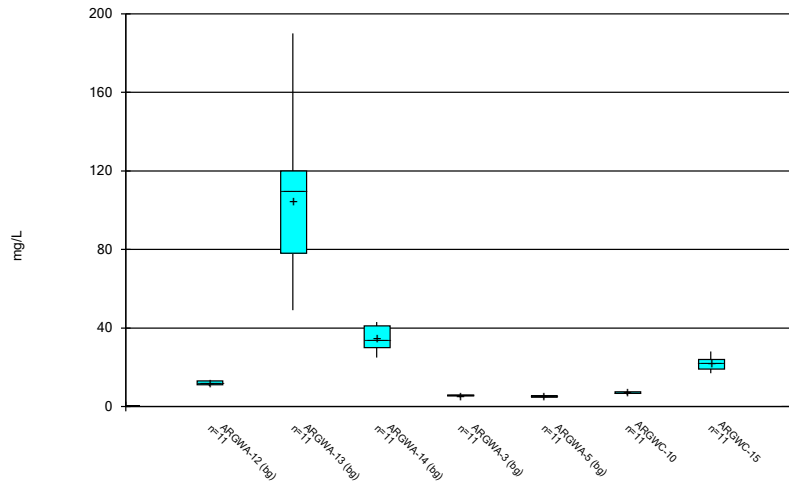
Constituent: Cadmium Analysis Run 6/8/2020 10:01 AM
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

Box & Whiskers Plot



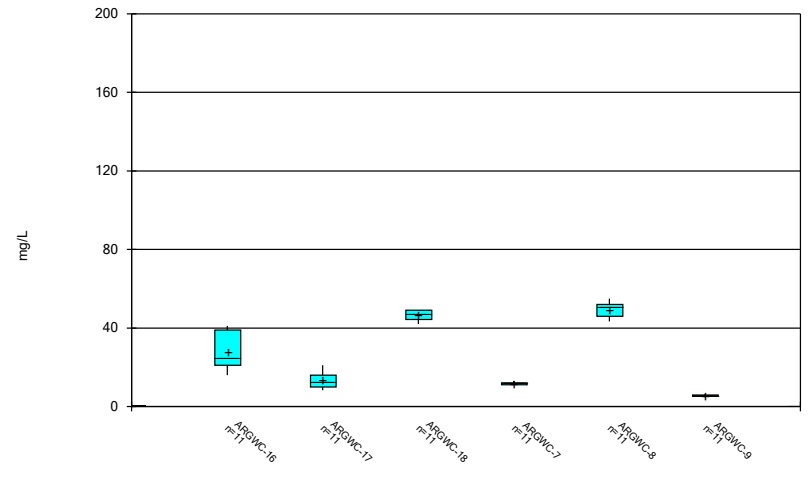
Constituent: Cadmium Analysis Run 6/8/2020 10:01 AM
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

Box & Whiskers Plot



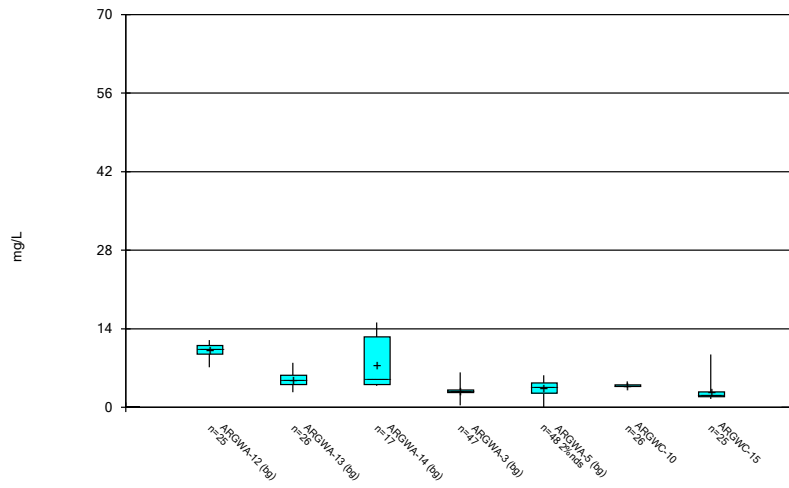
Constituent: Calcium Analysis Run 6/8/2020 10:01 AM
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

Box & Whiskers Plot



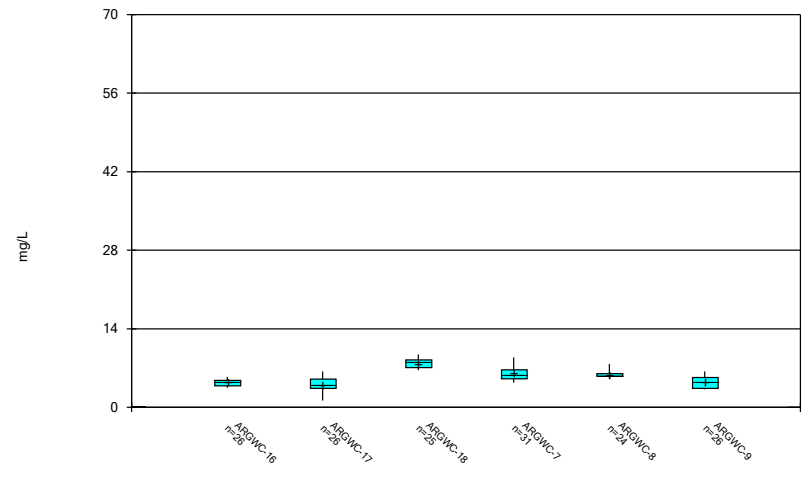
Constituent: Calcium Analysis Run 6/8/2020 10:01 AM
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

Box & Whiskers Plot



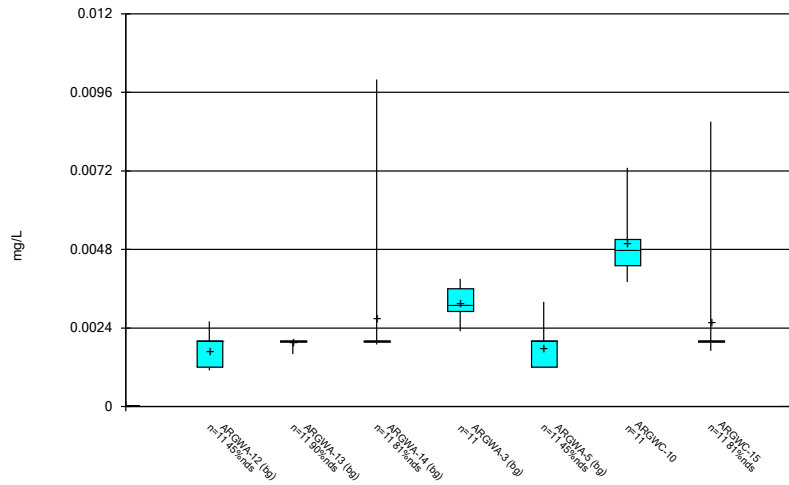
Constituent: Chloride Analysis Run 6/8/2020 10:01 AM
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

Box & Whiskers Plot



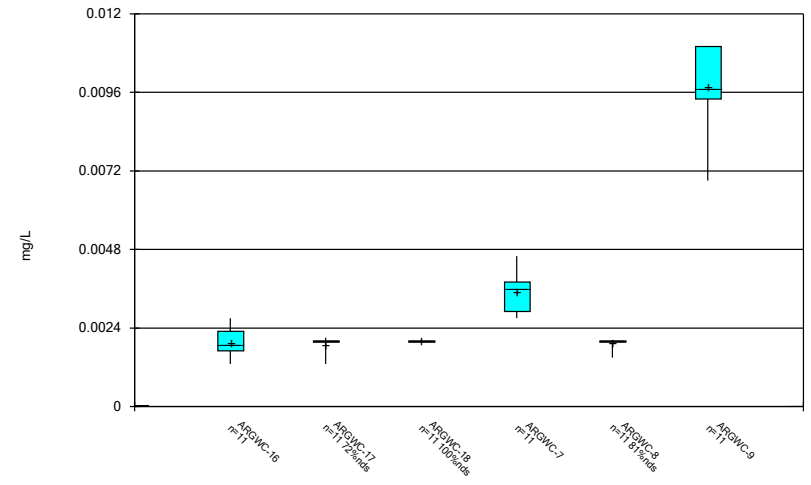
Constituent: Chloride Analysis Run 6/8/2020 10:01 AM
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

Box & Whiskers Plot



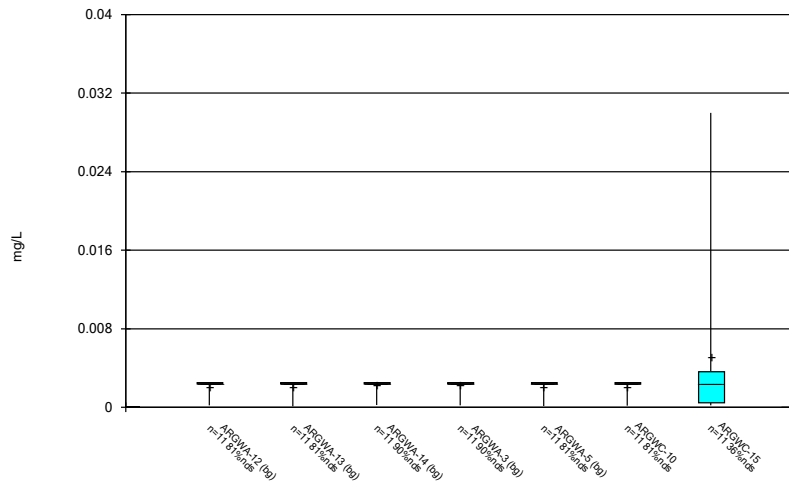
Constituent: Chromium Analysis Run 6/8/2020 10:01 AM
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

Box & Whiskers Plot



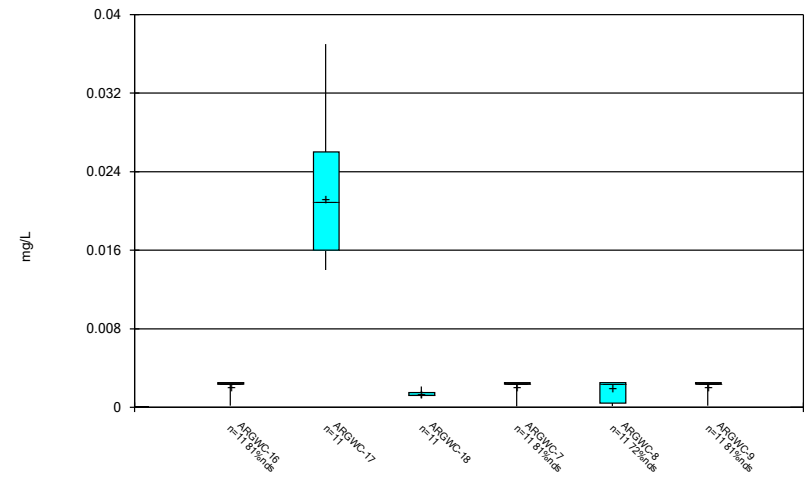
Constituent: Chromium Analysis Run 6/8/2020 10:01 AM
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

Box & Whiskers Plot



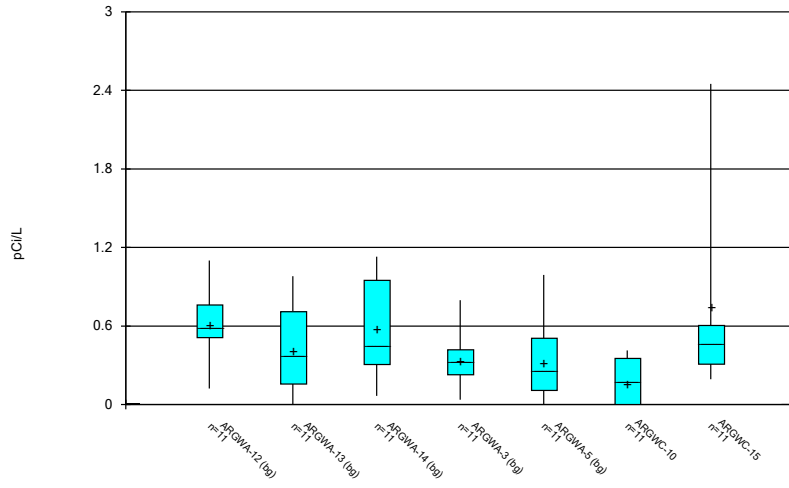
Constituent: Cobalt Analysis Run 6/8/2020 10:01 AM
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

Box & Whiskers Plot



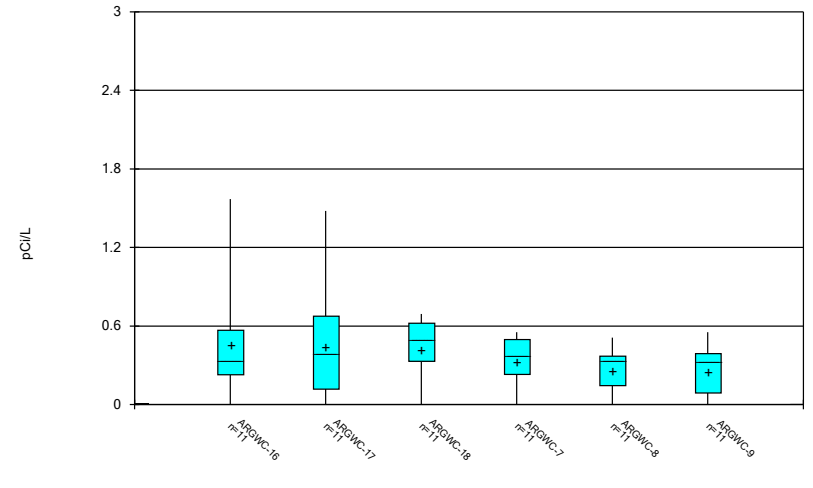
Constituent: Cobalt Analysis Run 6/8/2020 10:01 AM
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

Box & Whiskers Plot



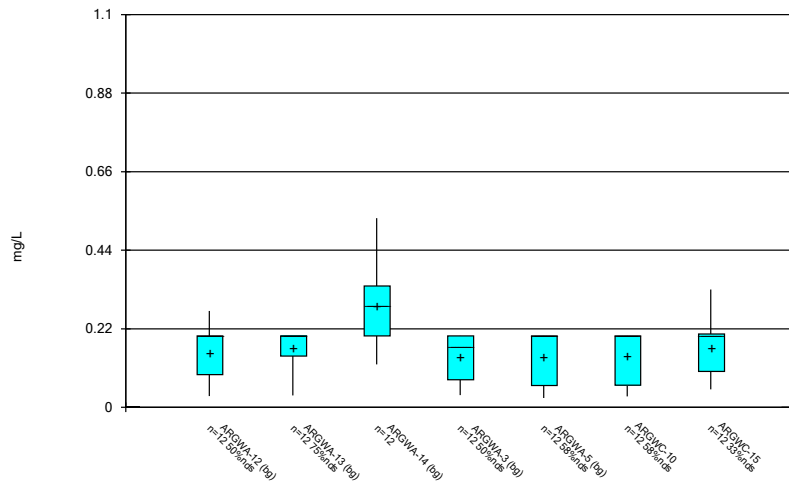
Constituent: Combined Radium 226 + 228 Analysis Run 6/8/2020 10:01 AM
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

Box & Whiskers Plot



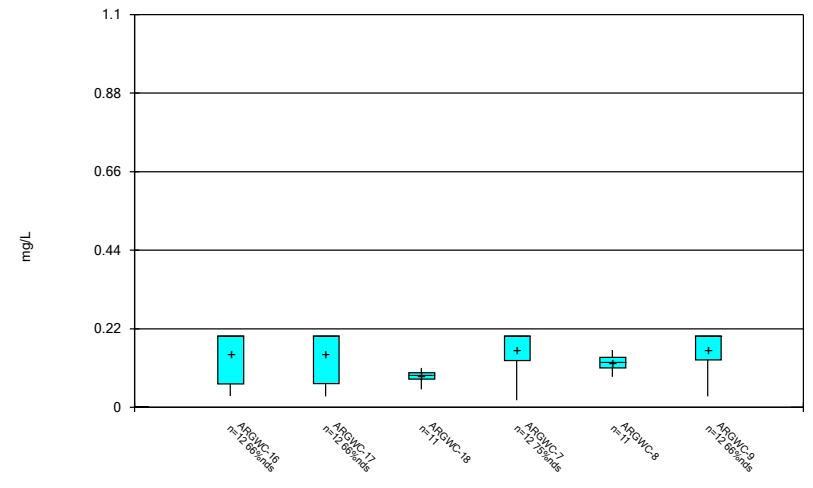
Constituent: Combined Radium 226 + 228 Analysis Run 6/8/2020 10:01 AM
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

Box & Whiskers Plot



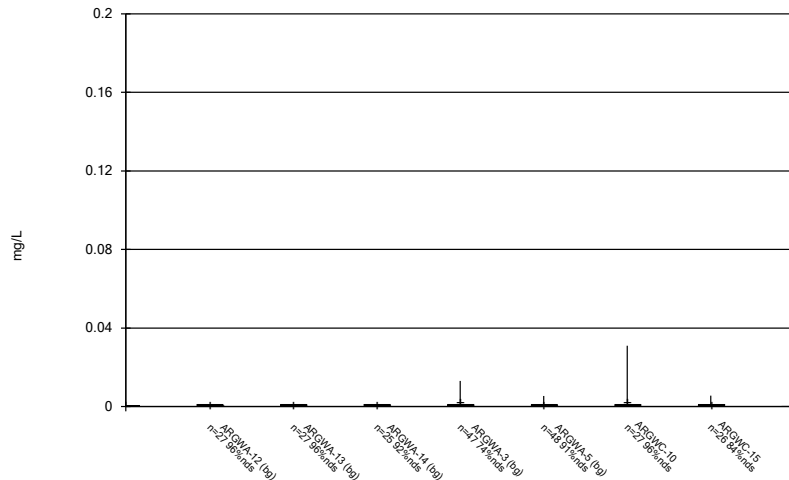
Constituent: Fluoride Analysis Run 6/8/2020 10:01 AM
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

Box & Whiskers Plot



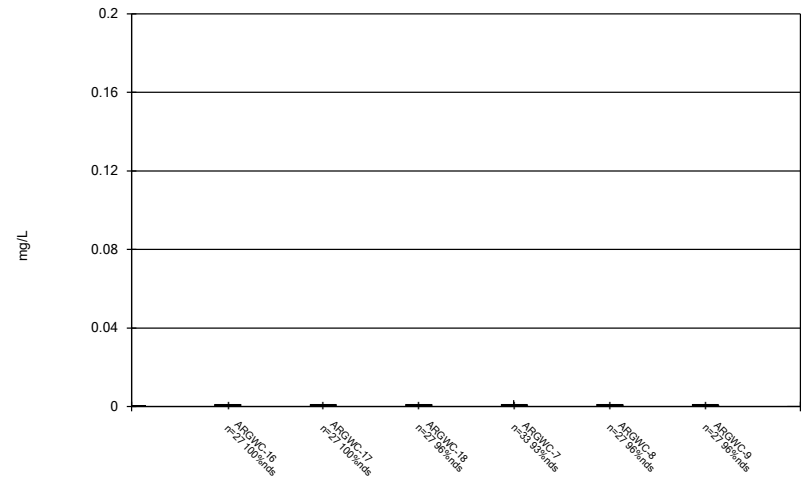
Constituent: Fluoride Analysis Run 6/8/2020 10:01 AM
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

Box & Whiskers Plot



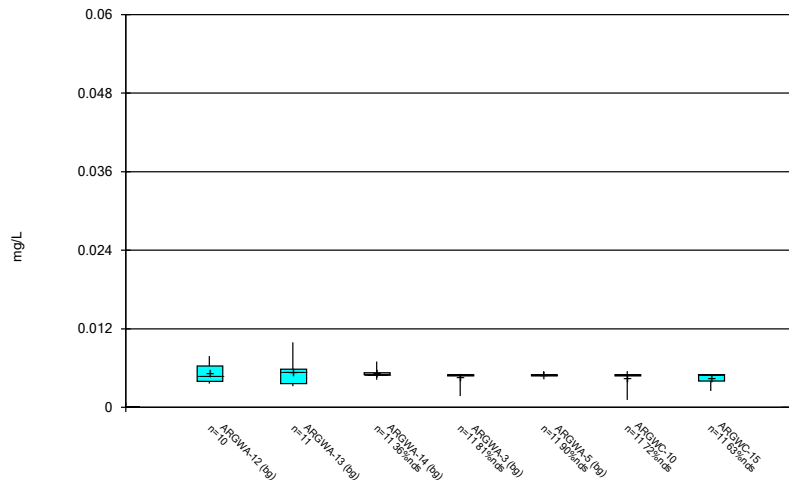
Constituent: Lead Analysis Run 6/8/2020 10:01 AM
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

Box & Whiskers Plot



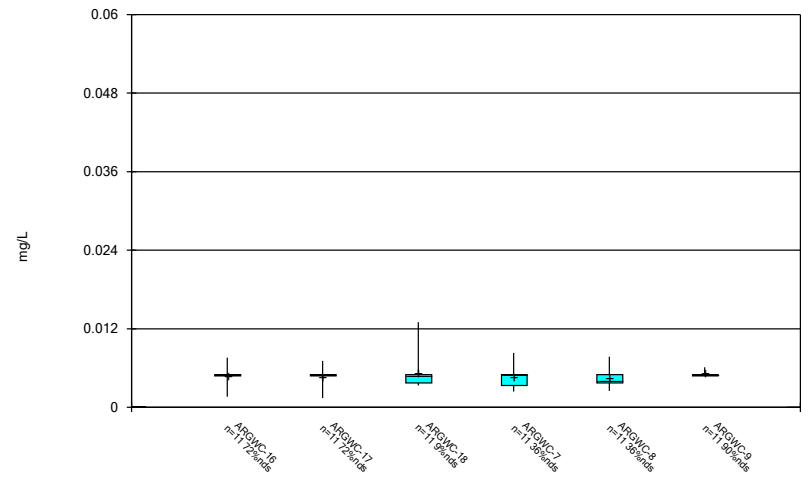
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 Plant Arkwright Client: Southern Company Data: Arkwright No 3

Box & Whiskers Plot



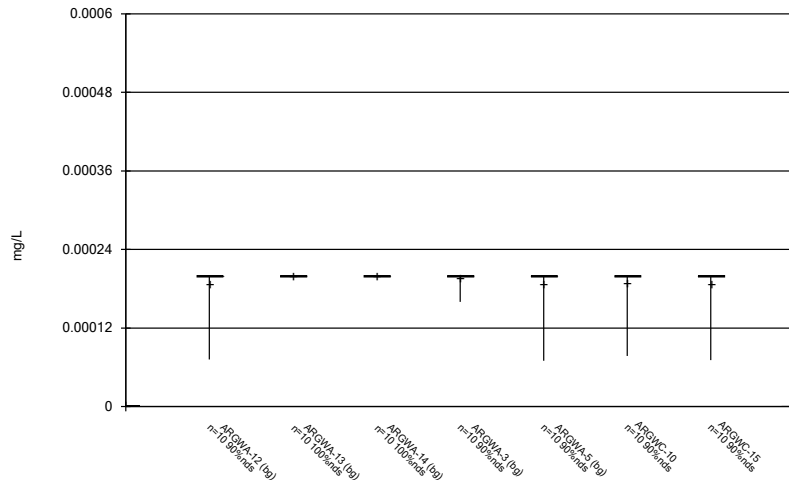
Constituent: Lithium Analysis Run 6/8/2020 10:01 AM
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

Box & Whiskers Plot



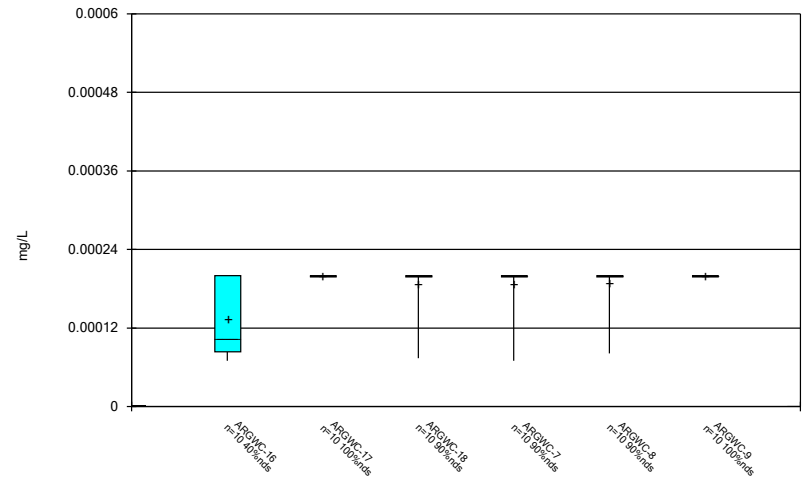
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 Plant Arkwright Client: Southern Company Data: Arkwright No 3

Box & Whiskers Plot



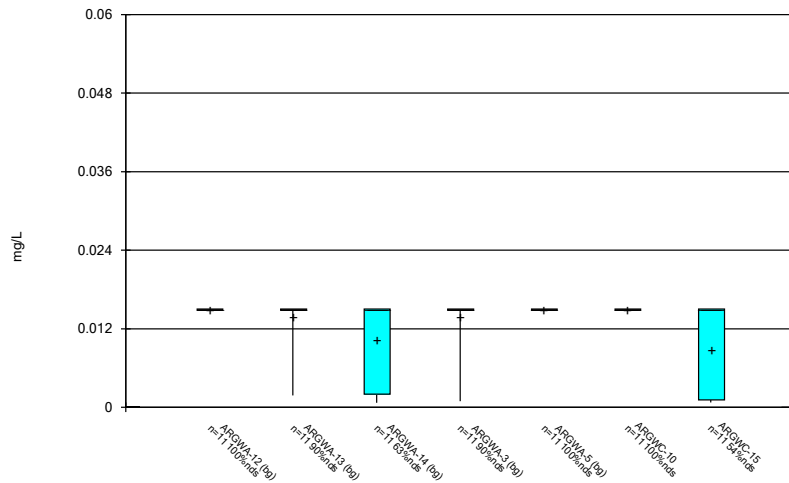
Constituent: Mercury Analysis Run 6/8/2020 10:01 AM
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

Box & Whiskers Plot



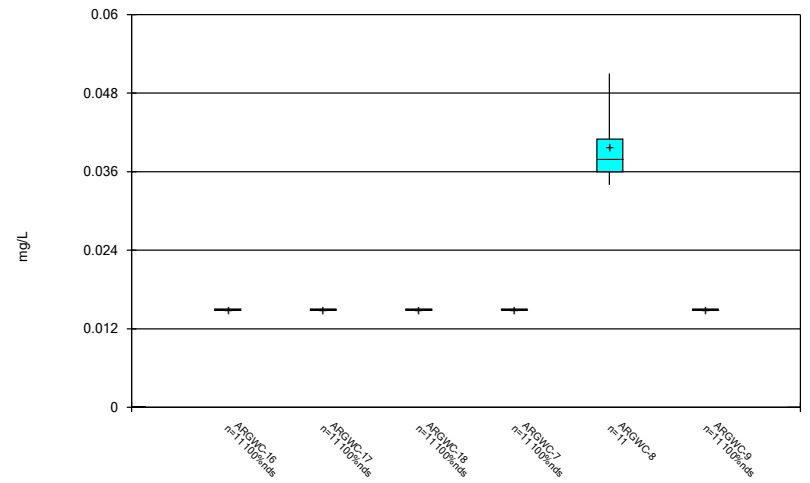
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 Plant Arkwright Client: Southern Company Data: Arkwright No 3

Box & Whiskers Plot



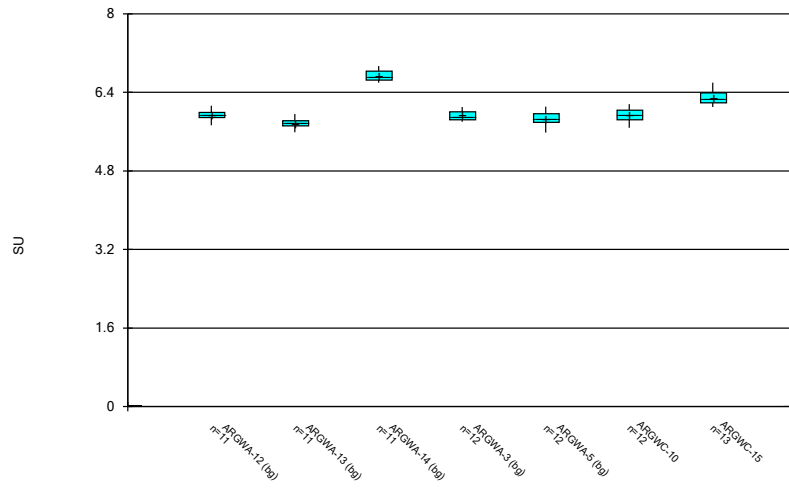
Constituent: Molybdenum Analysis Run 6/8/2020 10:01 AM
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

Box & Whiskers Plot



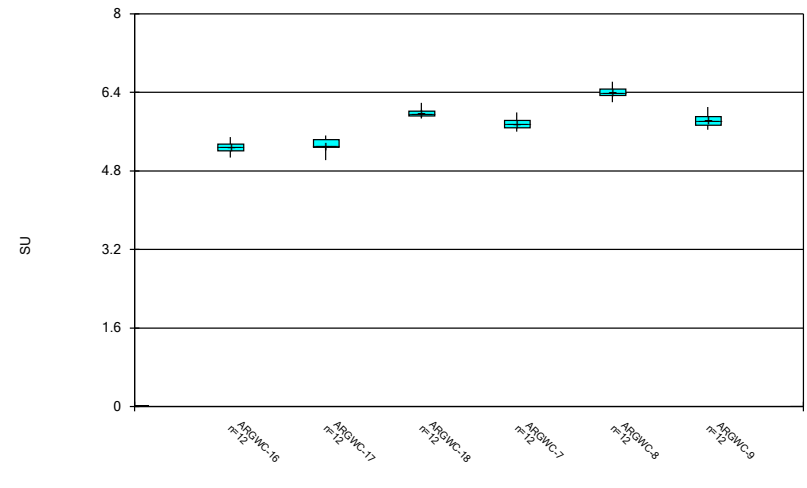
Constituent: Molybdenum Analysis Run 6/8/2020 10:02 AM
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

Box & Whiskers Plot



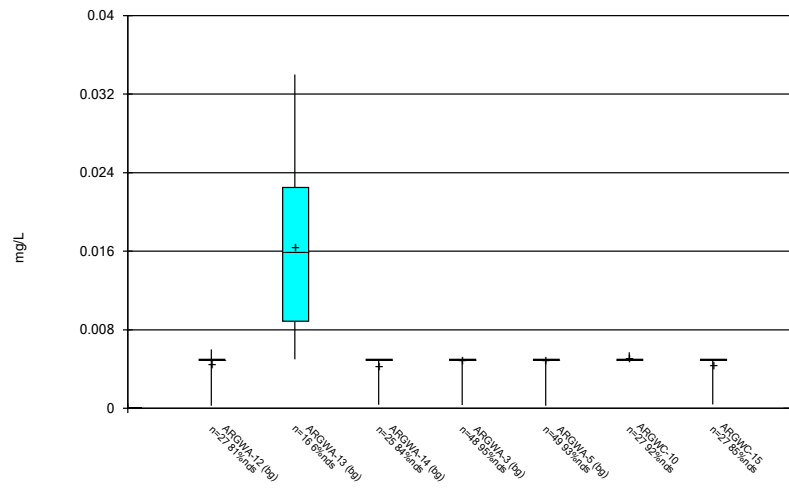
Constituent: pH Analysis Run 6/8/2020 10:02 AM
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

Box & Whiskers Plot



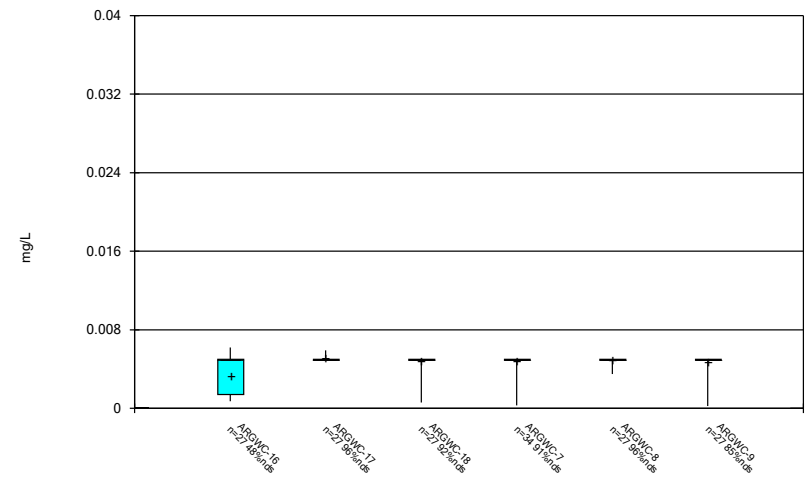
Constituent: pH Analysis Run 6/8/2020 10:02 AM
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

Box & Whiskers Plot



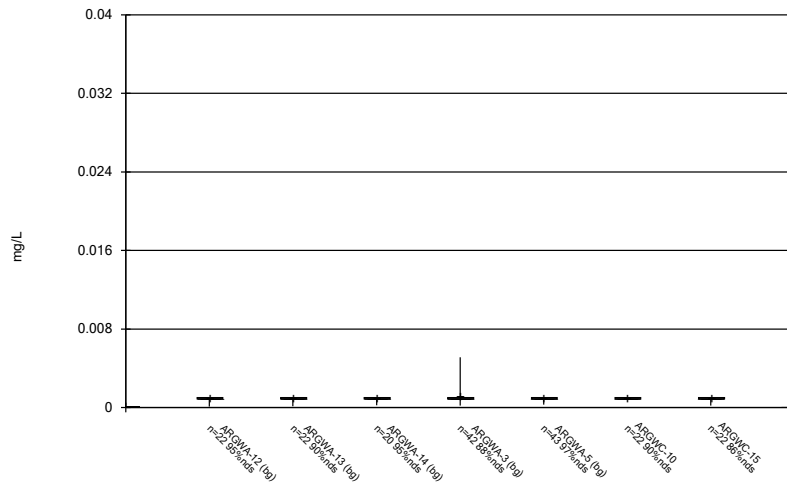
Constituent: Selenium Analysis Run 6/8/2020 10:02 AM
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

Box & Whiskers Plot



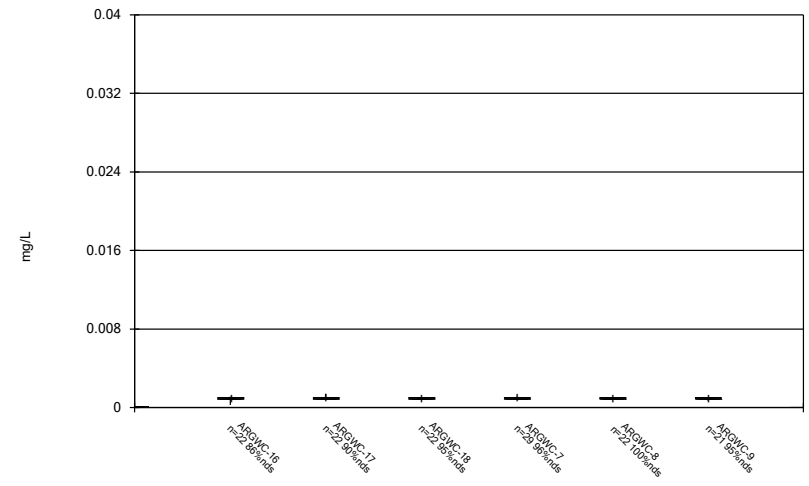
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 Plant Arkwright Client: Southern Company Data: Arkwright No 3

Box & Whiskers Plot



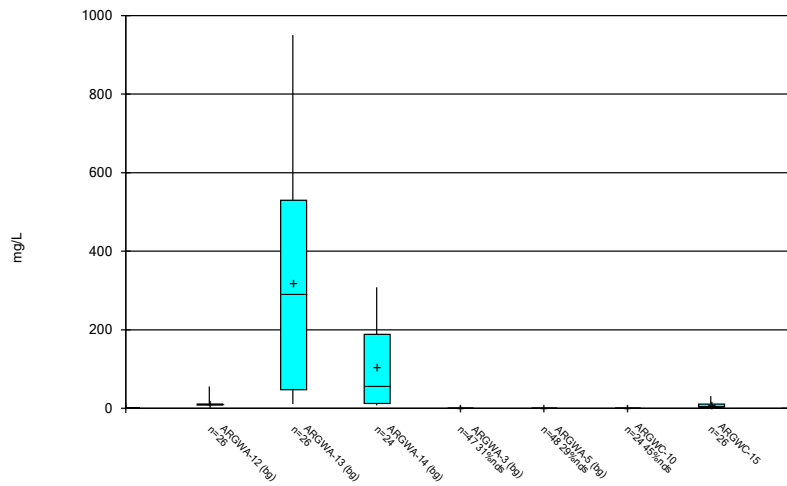
Constituent: Silver Analysis Run 6/8/2020 10:02 AM
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

Box & Whiskers Plot



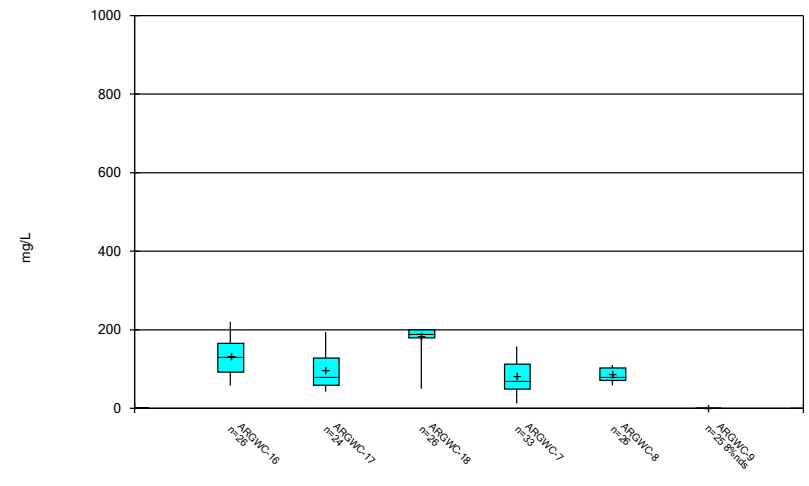
Constituent: Silver Analysis Run 6/8/2020 10:02 AM
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

Box & Whiskers Plot



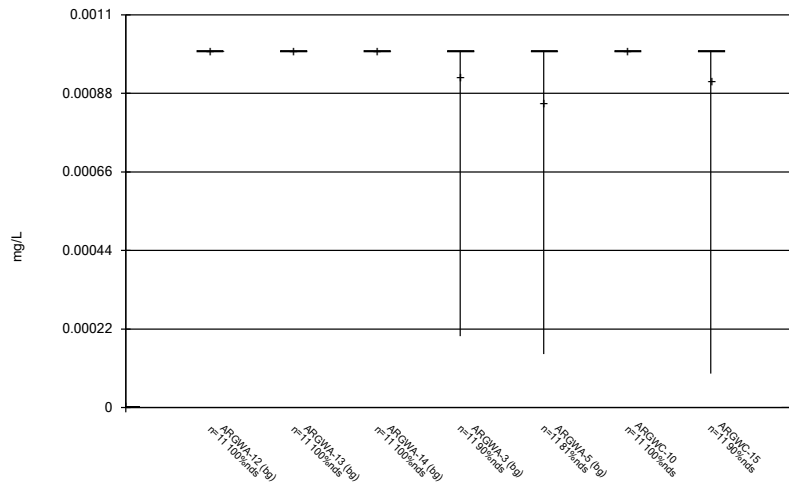
Constituent: Sulfate Analysis Run 6/8/2020 10:02 AM
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

Box & Whiskers Plot



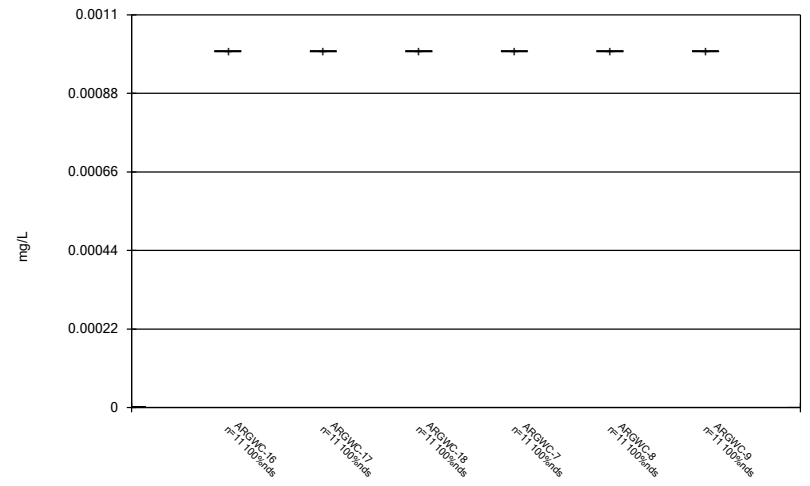
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 Plant Arkwright Client: Southern Company Data: Arkwright No 3

Box & Whiskers Plot



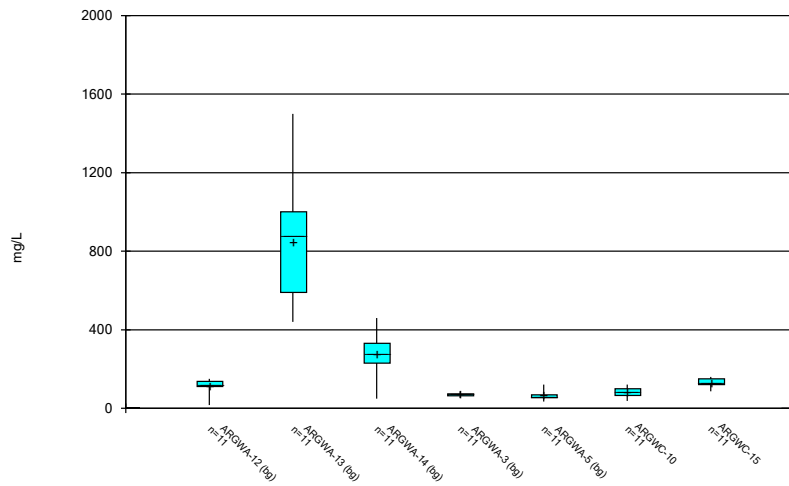
Constituent: Thallium Analysis Run 6/8/2020 10:02 AM
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

Box & Whiskers Plot



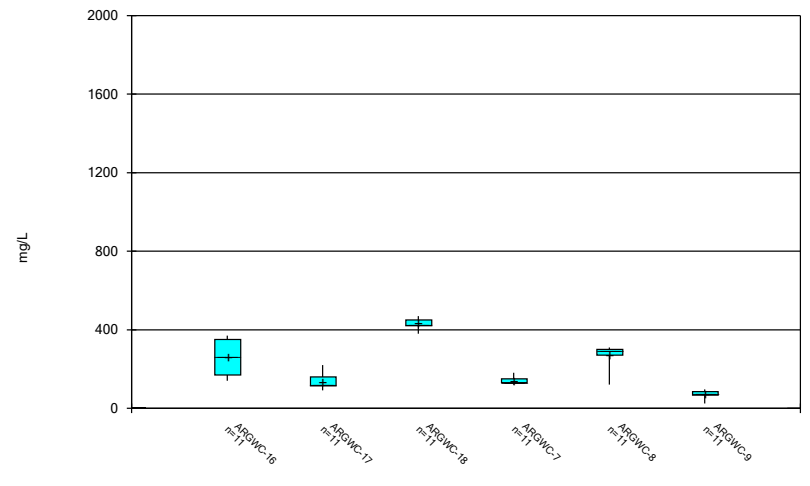
Constituent: Thallium Analysis Run 6/8/2020 10:02 AM
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 6/8/2020 10:02 AM
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 6/8/2020 10:02 AM
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

FIGURE C.

FIGURE D.

Appendix III Interwell Prediction Limits - Significant Results

Plant Arkwright Client: Southern Company Data: Arkwright No 3 Printed 6/8/2020, 8:23 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	ARGWC-18	0.68	n/a	4/9/2020	2.3	Yes	55	n/a	n/a	45.45	n/a	n/a	0.000627	NP Inter (normality) 1 of 2
Boron (mg/L)	ARGWC-8	0.68	n/a	4/9/2020	1.1	Yes	55	n/a	n/a	45.45	n/a	n/a	0.000627	NP Inter (normality) 1 of 2
pH (SU)	ARGWC-16	6.9	5.6	4/8/2020	5.07	Yes	57	n/a	n/a	0	n/a	n/a	0.001168	NP Inter (normality) 1 of 2
pH (SU)	ARGWC-17	6.9	5.6	4/8/2020	5.02	Yes	57	n/a	n/a	0	n/a	n/a	0.001168	NP Inter (normality) 1 of 2

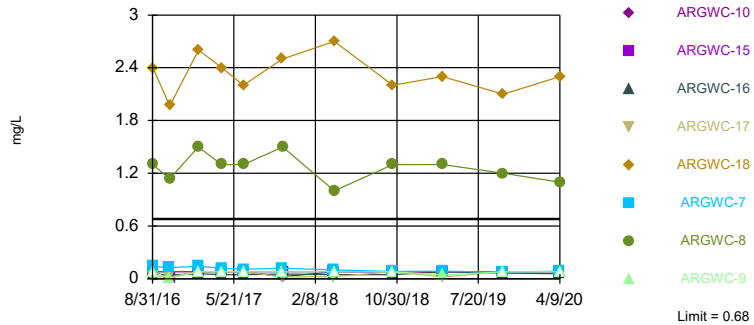
Appendix III Interwell Prediction Limits - All Results

Plant Arkwright Client: Southern Company Data: Arkwright No 3 Printed 6/8/2020, 8:23 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	ARGWC-10	0.68	n/a	4/8/2020	0.08ND	No	55	n/a	n/a	45.45	n/a	n/a	0.000627	NP Inter (normality) 1 of 2
Boron (mg/L)	ARGWC-15	0.68	n/a	4/8/2020	0.08ND	No	55	n/a	n/a	45.45	n/a	n/a	0.000627	NP Inter (normality) 1 of 2
Boron (mg/L)	ARGWC-16	0.68	n/a	4/8/2020	0.059	No	55	n/a	n/a	45.45	n/a	n/a	0.000627	NP Inter (normality) 1 of 2
Boron (mg/L)	ARGWC-17	0.68	n/a	4/8/2020	0.08ND	No	55	n/a	n/a	45.45	n/a	n/a	0.000627	NP Inter (normality) 1 of 2
Boron (mg/L)	ARGWC-18	0.68	n/a	4/9/2020	2.3	Yes	55	n/a	n/a	45.45	n/a	n/a	0.000627	NP Inter (normality) 1 of 2
Boron (mg/L)	ARGWC-7	0.68	n/a	4/8/2020	0.086	No	55	n/a	n/a	45.45	n/a	n/a	0.000627	NP Inter (normality) 1 of 2
Boron (mg/L)	ARGWC-8	0.68	n/a	4/9/2020	1.1	Yes	55	n/a	n/a	45.45	n/a	n/a	0.000627	NP Inter (normality) 1 of 2
Boron (mg/L)	ARGWC-9	0.68	n/a	4/9/2020	0.08ND	No	55	n/a	n/a	45.45	n/a	n/a	0.000627	NP Inter (normality) 1 of 2
Calcium (mg/L)	ARGWC-10	190	n/a	4/8/2020	7.5	No	55	n/a	n/a	0	n/a	n/a	0.000627	NP Inter (normality) 1 of 2
Calcium (mg/L)	ARGWC-15	190	n/a	4/8/2020	21	No	55	n/a	n/a	0	n/a	n/a	0.000627	NP Inter (normality) 1 of 2
Calcium (mg/L)	ARGWC-16	190	n/a	4/8/2020	40	No	55	n/a	n/a	0	n/a	n/a	0.000627	NP Inter (normality) 1 of 2
Calcium (mg/L)	ARGWC-17	190	n/a	4/8/2020	8.3	No	55	n/a	n/a	0	n/a	n/a	0.000627	NP Inter (normality) 1 of 2
Calcium (mg/L)	ARGWC-18	190	n/a	4/9/2020	46	No	55	n/a	n/a	0	n/a	n/a	0.000627	NP Inter (normality) 1 of 2
Calcium (mg/L)	ARGWC-7	190	n/a	4/8/2020	11	No	55	n/a	n/a	0	n/a	n/a	0.000627	NP Inter (normality) 1 of 2
Calcium (mg/L)	ARGWC-8	190	n/a	4/9/2020	47	No	55	n/a	n/a	0	n/a	n/a	0.000627	NP Inter (normality) 1 of 2
Calcium (mg/L)	ARGWC-9	190	n/a	4/9/2020	5.3	No	55	n/a	n/a	0	n/a	n/a	0.000627	NP Inter (normality) 1 of 2
Chloride (mg/L)	ARGWC-10	15	n/a	4/8/2020	3.9	No	163	n/a	n/a	0.6135	n/a	n/a	0.00007409	NP Inter (normality) 1 of 2
Chloride (mg/L)	ARGWC-15	15	n/a	4/8/2020	1.9	No	163	n/a	n/a	0.6135	n/a	n/a	0.00007409	NP Inter (normality) 1 of 2
Chloride (mg/L)	ARGWC-16	15	n/a	4/8/2020	5.1	No	163	n/a	n/a	0.6135	n/a	n/a	0.00007409	NP Inter (normality) 1 of 2
Chloride (mg/L)	ARGWC-17	15	n/a	4/8/2020	3.7	No	163	n/a	n/a	0.6135	n/a	n/a	0.00007409	NP Inter (normality) 1 of 2
Chloride (mg/L)	ARGWC-18	15	n/a	4/9/2020	7.3	No	163	n/a	n/a	0.6135	n/a	n/a	0.00007409	NP Inter (normality) 1 of 2
Chloride (mg/L)	ARGWC-7	15	n/a	4/8/2020	4.4	No	163	n/a	n/a	0.6135	n/a	n/a	0.00007409	NP Inter (normality) 1 of 2
Chloride (mg/L)	ARGWC-8	15	n/a	4/9/2020	7.7	No	163	n/a	n/a	0.6135	n/a	n/a	0.00007409	NP Inter (normality) 1 of 2
Chloride (mg/L)	ARGWC-9	15	n/a	4/9/2020	5.6	No	163	n/a	n/a	0.6135	n/a	n/a	0.00007409	NP Inter (normality) 1 of 2
Fluoride (mg/L)	ARGWC-10	0.53	n/a	4/8/2020	0.071	No	60	n/a	n/a	46.67	n/a	n/a	0.0005192	NP Inter (normality) 1 of 2
Fluoride (mg/L)	ARGWC-15	0.53	n/a	4/8/2020	0.12	No	60	n/a	n/a	46.67	n/a	n/a	0.0005192	NP Inter (normality) 1 of 2
Fluoride (mg/L)	ARGWC-16	0.53	n/a	4/8/2020	0.051	No	60	n/a	n/a	46.67	n/a	n/a	0.0005192	NP Inter (normality) 1 of 2
Fluoride (mg/L)	ARGWC-17	0.53	n/a	4/8/2020	0.053	No	60	n/a	n/a	46.67	n/a	n/a	0.0005192	NP Inter (normality) 1 of 2
Fluoride (mg/L)	ARGWC-18	0.53	n/a	4/9/2020	0.11	No	60	n/a	n/a	46.67	n/a	n/a	0.0005192	NP Inter (normality) 1 of 2
Fluoride (mg/L)	ARGWC-7	0.53	n/a	4/8/2020	0.062	No	60	n/a	n/a	46.67	n/a	n/a	0.0005192	NP Inter (normality) 1 of 2
Fluoride (mg/L)	ARGWC-8	0.53	n/a	4/9/2020	0.16	No	60	n/a	n/a	46.67	n/a	n/a	0.0005192	NP Inter (normality) 1 of 2
Fluoride (mg/L)	ARGWC-9	0.53	n/a	4/9/2020	0.066	No	60	n/a	n/a	46.67	n/a	n/a	0.0005192	NP Inter (normality) 1 of 2
pH (SU)	ARGWC-10	6.9	5.6	4/8/2020	5.95	No	57	n/a	n/a	0	n/a	n/a	0.001168	NP Inter (normality) 1 of 2
pH (SU)	ARGWC-15	6.9	5.6	4/8/2020	6.26	No	57	n/a	n/a	0	n/a	n/a	0.001168	NP Inter (normality) 1 of 2
pH (SU)	ARGWC-16	6.9	5.6	4/8/2020	5.07	Yes	57	n/a	n/a	0	n/a	n/a	0.001168	NP Inter (normality) 1 of 2
pH (SU)	ARGWC-17	6.9	5.6	4/8/2020	5.02	Yes	57	n/a	n/a	0	n/a	n/a	0.001168	NP Inter (normality) 1 of 2
pH (SU)	ARGWC-18	6.9	5.6	4/9/2020	5.98	No	57	n/a	n/a	0	n/a	n/a	0.001168	NP Inter (normality) 1 of 2
pH (SU)	ARGWC-7	6.9	5.6	4/8/2020	5.75	No	57	n/a	n/a	0	n/a	n/a	0.001168	NP Inter (normality) 1 of 2
pH (SU)	ARGWC-8	6.9	5.6	4/9/2020	6.42	No	57	n/a	n/a	0	n/a	n/a	0.001168	NP Inter (normality) 1 of 2
pH (SU)	ARGWC-9	6.9	5.6	4/9/2020	5.9	No	57	n/a	n/a	0	n/a	n/a	0.001168	NP Inter (normality) 1 of 2
Sulfate (mg/L)	ARGWC-10	950	n/a	4/8/2020	0.5ND	No	171	n/a	n/a	16.96	n/a	n/a	0.00006773	NP Inter (normality) 1 of 2
Sulfate (mg/L)	ARGWC-15	950	n/a	4/8/2020	5.9	No	171	n/a	n/a	16.96	n/a	n/a	0.00006773	NP Inter (normality) 1 of 2
Sulfate (mg/L)	ARGWC-16	950	n/a	4/8/2020	200	No	171	n/a	n/a	16.96	n/a	n/a	0.00006773	NP Inter (normality) 1 of 2
Sulfate (mg/L)	ARGWC-17	950	n/a	4/8/2020	47	No	171	n/a	n/a	16.96	n/a	n/a	0.00006773	NP Inter (normality) 1 of 2
Sulfate (mg/L)	ARGWC-18	950	n/a	4/9/2020	190	No	171	n/a	n/a	16.96	n/a	n/a	0.00006773	NP Inter (normality) 1 of 2
Sulfate (mg/L)	ARGWC-7	950	n/a	4/8/2020	39	No	171	n/a	n/a	16.96	n/a	n/a	0.00006773	NP Inter (normality) 1 of 2
Sulfate (mg/L)	ARGWC-8	950	n/a	4/9/2020	59	No	171	n/a	n/a	16.96	n/a	n/a	0.00006773	NP Inter (normality) 1 of 2
Sulfate (mg/L)	ARGWC-9	950	n/a	4/9/2020	1.1	No	171	n/a	n/a	16.96	n/a	n/a	0.00006773	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	ARGWC-10	1200	n/a	4/8/2020	82	No	55	5.034	1.064	0	None	ln(x)	0.0009403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	ARGWC-15	1200	n/a	4/8/2020	130	No	55	5.034	1.064	0	None	ln(x)	0.0009403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	ARGWC-16	1200	n/a	4/8/2020	350	No	55	5.034	1.064	0	None	ln(x)	0.0009403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	ARGWC-17	1200	n/a	4/8/2020	91	No	55	5.034	1.064	0	None	ln(x)	0.0009403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	ARGWC-18	1200	n/a	4/9/2020	440	No	55	5.034	1.064	0	None	ln(x)	0.0009403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	ARGWC-7	1200	n/a	4/8/2020	130	No	55	5.034	1.064	0	None	ln(x)	0.0009403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	ARGWC-8	1200	n/a	4/9/2020	270	No	55	5.034	1.064	0	None	ln(x)	0.0009403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	ARGWC-9	1200	n/a	4/9/2020	70	No	55	5.034	1.064	0	None	ln(x)	0.0009403	Param Inter 1 of 2

Exceeds Limit: ARGWC-18, ARGWC-8

Prediction Limit
Interwell Non-parametric

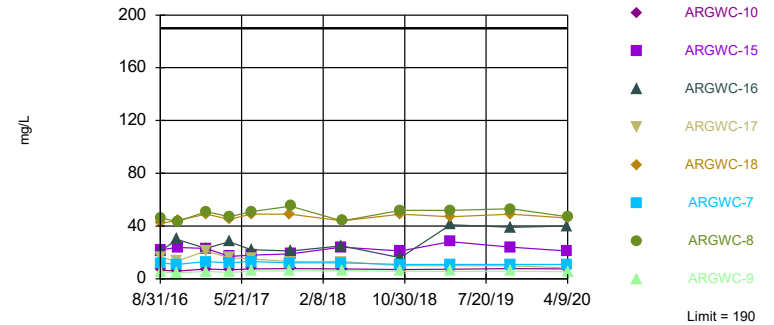


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 55 background values. 45.45% NDs. Annual per-constituent alpha = 0.009985. Individual comparison alpha = 0.000627 (1 of 2). Comparing 8 points to limit.

Constituent: Boron Analysis Run 6/8/2020 8:21 AM View: Appendix III - Interwell
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Within Limit

Prediction Limit
Interwell Non-parametric

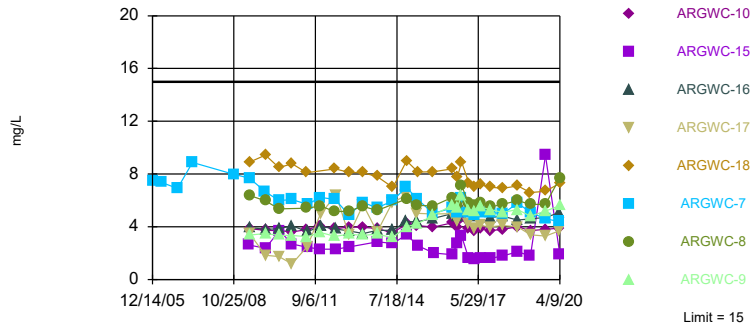


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 55 background values. Annual per-constituent alpha = 0.009985. Individual comparison alpha = 0.000627 (1 of 2). Comparing 8 points to limit.

Constituent: Calcium Analysis Run 6/8/2020 8:21 AM View: Appendix III - Interwell
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Within Limit

Prediction Limit
Interwell Non-parametric

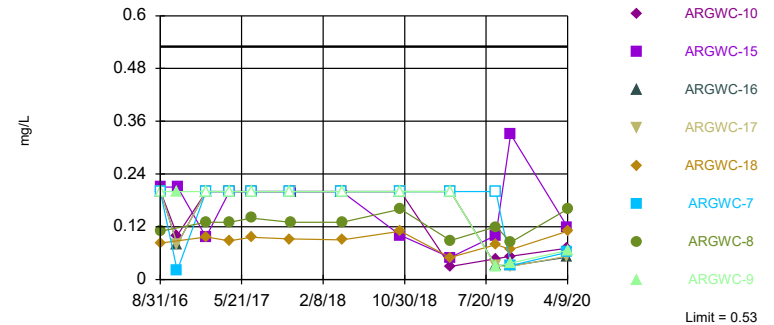


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 163 background values. 0.6135% NDs. Annual per-constituent alpha = 0.001185. Individual comparison alpha = 0.00007409 (1 of 2). Comparing 8 points to limit.

Constituent: Chloride Analysis Run 6/8/2020 8:21 AM View: Appendix III - Interwell
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Within Limit

Prediction Limit
Interwell Non-parametric

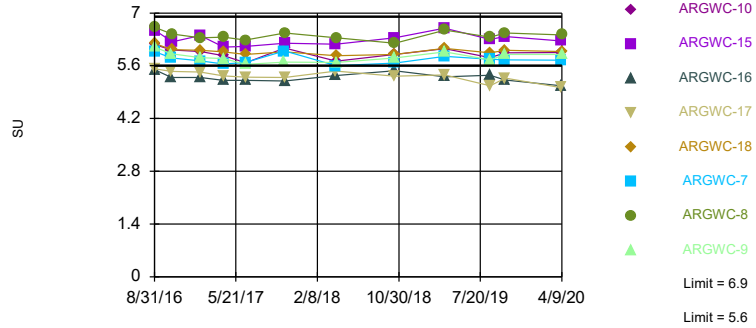


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 60 background values. 46.67% NDs. Annual per-constituent alpha = 0.008276. Individual comparison alpha = 0.0005192 (1 of 2). Comparing 8 points to limit.

Constituent: Fluoride Analysis Run 6/8/2020 8:22 AM View: Appendix III - Interwell
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Exceeds Limits: ARGWC-16, ARGWC-17

Prediction Limit
Interwell Non-parametric

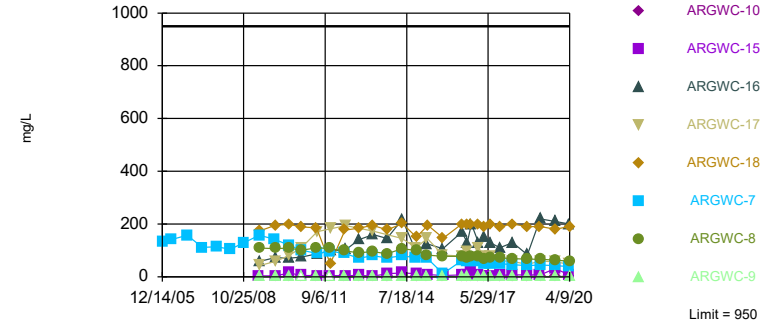


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 57 background values. Annual per-constituent alpha = 0.0186. Individual comparison alpha = 0.001168 (1 of 2). Comparing 8 points to limit.

Constituent: pH Analysis Run 6/8/2020 8:22 AM View: Appendix III - Interwell
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Within Limit

Prediction Limit
Interwell Non-parametric

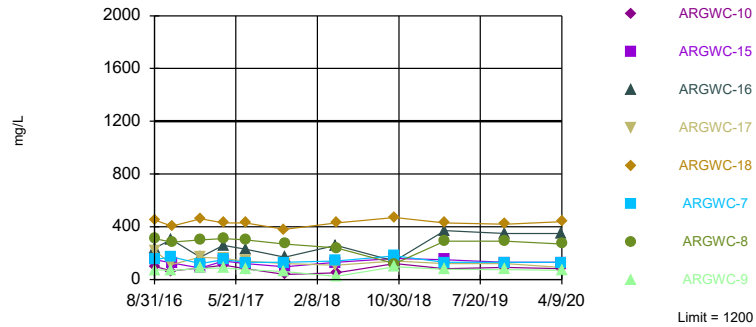


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 171 background values. 16.96% NDs. Annual per-constituent alpha = 0.001083. Individual comparison alpha = 0.00006773 (1 of 2). Comparing 8 points to limit.

Constituent: Sulfate Analysis Run 6/8/2020 8:22 AM View: Appendix III - Interwell
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Within Limit

Prediction Limit
Interwell Parametric



Background Data Summary (based on natural log transformation): Mean=5.034, Std. Dev.=1.064, n=55. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9484, critical = 0.94. Kappa = 1.97 (c=7, w=8, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.0009403. Comparing 8 points to limit.

Constituent: Total Dissolved Solids Analysis Run 6/8/2020 8:22 AM View: Appendix III - Interwell
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 6/8/2020 8:23 AM View: Appendix III - Interwell

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-12 (bg)	ARGWA-5 (bg)	ARGWC-7	ARGWA-3 (bg)	ARGWC-8	ARGWA-14 (bg)	ARGWC-9	ARGWA-13 (bg)	ARGWC-17
8/30/2016	0.032 (J)	<0.08							
8/31/2016			0.14	<0.08	1.3	0.04 (J)	<0.08	0.1	
9/1/2016									0.022 (J)
9/2/2016									
10/24/2016	0.0406 (J)								
10/25/2016		0.0073 (J)	0.126	0.0068 (J)		0.065 (J)	0.0071 (J)	0.204	0.0219 (J)
10/26/2016					1.14				
1/23/2017	0.023 (J)					0.031 (J)			
1/24/2017		<0.08		<0.08				0.064	
1/26/2017			0.14		1.5		<0.08		<0.08
1/27/2017									
4/11/2017	0.025 (J)	<0.08		<0.08		0.043 (J)		0.081	<0.08
4/12/2017			0.12		1.3		<0.08		
6/20/2017		<0.08		<0.08		0.029 (J)			
6/21/2017	<0.08				1.3			0.13	<0.08
6/22/2017			0.11				<0.08		
10/25/2017	0.028 (J)	<0.08	0.12	<0.08		0.041 (J)	<0.08	0.17	
10/26/2017					1.5				0.023 (J)
4/9/2018						0.04 (J)		0.059	
4/10/2018	0.027 (J)	<0.08	0.1	<0.08					0.026 (J)
4/11/2018					1		<0.08		
10/16/2018	0.023 (J)	<0.08		<0.08		0.046 (J)		0.34	
10/17/2018			0.084		1.3		<0.08		<0.08
3/26/2019								0.32	
3/27/2019	<0.08	<0.08		<0.08		0.032 (J)			
3/28/2019			0.087		1.3		0.044 (J)		0.022 (J)
10/7/2019						<0.08			
10/8/2019	<0.08	<0.08		<0.08				0.68	
10/9/2019			0.076 (J)		1.2		<0.08		<0.08
4/6/2020						0.041 (J)			
4/7/2020	<0.08	<0.08		<0.08				0.23	
4/8/2020			0.086						<0.08
4/9/2020					1.1		<0.08		

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 6/8/2020 8:23 AM View: Appendix III - Interwell
Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-10	ARGWC-18	ARGWC-16	ARGWC-15
8/30/2016				
8/31/2016				
9/1/2016	<0.08	2.4	0.049 (J)	
9/2/2016				<0.08
10/24/2016				
10/25/2016	<0.08		0.042 (J)	
10/26/2016		1.97		0.0138 (J)
1/23/2017				
1/24/2017				
1/26/2017			0.059	<0.08
1/27/2017	<0.08	2.6		
4/11/2017			0.045 (J)	
4/12/2017	<0.08	2.4		<0.08
6/20/2017				
6/21/2017		2.2	0.045 (J)	<0.08
6/22/2017	<0.08			
10/25/2017		2.5		
10/26/2017	0.026 (J)		0.054	<0.08
4/9/2018				
4/10/2018			0.048 (J)	<0.08
4/11/2018	<0.08	2.7		
10/16/2018			0.048 (J)	
10/17/2018	<0.08	2.2		<0.08
3/26/2019				
3/27/2019		2.3		<0.08
3/28/2019	<0.08		0.08	
10/7/2019				
10/8/2019				<0.08
10/9/2019	<0.08	2.1	0.065 (J)	
4/6/2020				
4/7/2020				
4/8/2020	<0.08		0.059 (J)	<0.08
4/9/2020		2.3		

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 6/8/2020 8:23 AM View: Appendix III - Interwell
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-12 (bg)	ARGWA-5 (bg)	ARGWC-7	ARGWA-3 (bg)	ARGWC-8	ARGWA-14 (bg)	ARGWC-9	ARGWA-13 (bg)	ARGWC-17
8/30/2016	11	5.1							
8/31/2016			12	5.4	46	31	5.2	110	
9/1/2016									16
9/2/2016									
10/24/2016	10.4								
10/25/2016		4.76	10.9	4.47		38.5	4.64	150	13.5
10/26/2016					43.3				
1/23/2017	12					25			
1/24/2017		5.6		5.8				78	
1/26/2017			13		51		5.5		21
1/27/2017									
4/11/2017	12	4.7		5.3		33		78	16
4/12/2017			12		47		4.9		
6/20/2017		5.4		5.8		34			
6/21/2017	12				51			110	15
6/22/2017			13				5.8		
10/25/2017	13	6	12	5.9		28	6.1	120	
10/26/2017					55				13
4/9/2018						30		49	
4/10/2018	13	5.3	12	5.9					13
4/11/2018					44		6		
10/16/2018	12	5.6		5.8		41		110	
10/17/2018			11		52		5.8		10
3/26/2019								95	
3/27/2019	11	4.5		5.4		42			
3/28/2019			11		52		5.6		10
10/7/2019						36			
10/8/2019	13	5.9		6				190	
10/9/2019			11		53		5.7		10
4/6/2020						43			
4/7/2020	12	4		5.5				61	
4/8/2020			11						8.3
4/9/2020					47		5.3		

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 6/8/2020 8:23 AM View: Appendix III - Interwell
Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-10	ARGWC-18	ARGWC-16	ARGWC-15
8/30/2016				
8/31/2016				
9/1/2016	6.6	42	21	
9/2/2016				22
10/24/2016				
10/25/2016	5.89		29.8	
10/26/2016		44.3		23.7
1/23/2017				
1/24/2017				
1/26/2017			23	23
1/27/2017	7.4	49		
4/11/2017			28	
4/12/2017	6.7	45		17
6/20/2017				
6/21/2017		49	22	18
6/22/2017	7.5			
10/25/2017		49		
10/26/2017	7.8		21	19
4/9/2018				
4/10/2018			25	24
4/11/2018	7.4	44		
10/16/2018			16	
10/17/2018	7.1	49		21
3/26/2019				
3/27/2019		47		28
3/28/2019	7.3		41	
10/7/2019				
10/8/2019				24
10/9/2019	7.7	49	39	
4/6/2020				
4/7/2020				
4/8/2020	7.5		40	21
4/9/2020		46		

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 6/8/2020 8:23 AM View: Appendix III - Interwell
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-3 (bg)	ARGWA-5 (bg)	ARGWC-7	ARGWC-15	ARGWA-12 (bg)	ARGWA-13 (bg)	ARGWC-17	ARGWC-16	ARGWC-18
12/16/1997	6.2	3.8							
6/30/1998	4.6	2.9							
12/2/1998	3.13	1.76							
6/8/1999	1.56	1.97							
12/7/1999	3.05	1.98							
6/15/2000	3.35	2.08							
12/12/2000	2.42	2.02							
12/5/2001	2.62	2.03							
6/26/2002	3.4	2.52							
12/3/2002	3.04	2.12							
6/11/2003	3.02	2.43							
12/10/2003	2.9	1.93							
6/15/2004	2.05	2.42							
12/14/2004	2.78	2.44							
6/2/2005	3.15	2.79							
12/14/2005	3.38	2.77	7.52						
4/5/2006	3.49	2.8	7.38						
10/30/2006	2.84	3.09	6.9						
5/10/2007	3.68	3.93	8.88						
11/17/2007	2.69	<0.021	13.5 (o)						
5/2/2008			12.9 (o)						
5/3/2008	2.85	3.52							
10/22/2008	2.99	3.15	7.97						
5/5/2009				2.61					
5/6/2009		3.49			10.7				
5/7/2009	2.96					4.24			
5/12/2009							3.5	3.96	8.89
5/13/2009									
5/14/2009			7.68						
12/1/2009		3.26	6.66						
12/3/2009					10.1	2.66			
12/4/2009	2.97			2.37			1.85		9.43
12/5/2009								3.81	
5/25/2010		3.62			7.11	3.29	1.74		8.49
5/26/2010			6					3.85	
6/1/2010	3.23			3.71					
6/2/2010									
11/9/2010		3.38			8.4		1.18	4.08	
11/10/2010	2.86		6.07	2.69		3.82			8.77
5/18/2011									
5/19/2011									8.11
5/24/2011		3.62			9.07		2.51	3.63	
5/25/2011	2.86		5.7	2.44		4.92			
11/9/2011				2.3					
11/10/2011		3.74			10.3	4.48			
11/11/2011			6.23						
11/12/2011	2.83						4.99	4.03	12.3 (o)
5/17/2012			6.06						8.4
5/18/2012		3.6			10.1				
5/30/2012						4.72	6.4	3.82	
5/31/2012	2.68			2.29					
11/9/2012		3.66	4.9		8.73	5.1	3.37	3.69	

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 6/8/2020 8:23 AM View: Appendix III - Interwell
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-3 (bg)	ARGWA-5 (bg)	ARGWC-7	ARGWC-15	ARGWA-12 (bg)	ARGWA-13 (bg)	ARGWC-17	ARGWC-16	ARGWC-18
11/10/2012				2.46					8.13
11/11/2012	2.63								
5/7/2013									8.11
5/8/2013		4.16	5.85		8.06		5.67		
5/9/2013						3.85			
5/13/2013	0.364			6.55 (o)				3.5	
11/5/2013			5.44						7.82
11/6/2013		3.87			10.2		3.62	3.74	
11/11/2013						5.26			
11/12/2013	2.95			2.86					
5/20/2014		4.4			8.2		5.82		
5/21/2014			5.96			4.47		3.74	
5/28/2014				2.75					6.99
5/29/2014	2.64								
11/17/2014		4.2	7				6.4	4.4	
11/18/2014					10	6.4			
11/19/2014									9
11/20/2014				3.4					
4/7/2015		4.53	6.08			5.04	5.02	4.38	
4/14/2015	2.78			2.56	10.7				
4/15/2015									8.14
10/28/2015		4.47	5.02			6.3	4.98	4.62	
10/29/2015					10.7				8.17
11/3/2015	2.66			2.01					
11/4/2015									
6/23/2016	3.3	4.6	5.4	1.9	11	5.7			
6/24/2016							5	5	8.4
8/30/2016		4.3			11				
8/31/2016	2.7		5.1			5.7			
9/1/2016							4.4	4.8	7.8
9/2/2016				2.7					
10/24/2016					12				
10/25/2016	3.1	5	6.2			7.9	5.1	5.4	
10/26/2016				3.3					8.9
1/23/2017					11				
1/24/2017	2.5	5.1				4.4			
1/26/2017			5.1	1.6			4.2	5.2	
1/27/2017									7.3
4/11/2017	2.4	4.4			11	4.3	3.9	4.8	
4/12/2017			4.9	1.5					7
6/20/2017	2.5	5							
6/21/2017				1.6	11	5.5	4.1	5.2	7.2
6/22/2017			5.1						
10/25/2017	2.3	5.3	5.1		10	5.2			7
10/26/2017				1.6			4	4.7	
4/9/2018						3.8			
4/10/2018	2.4	5.1	5	1.8	9.9		4.1	4.8	
4/11/2018									6.9
10/16/2018	2.5	5.3			11	6		4.5	
10/17/2018			5.8	2.1			4		7.1
3/26/2019						4.6			
3/27/2019	2.5	4.3		1.8	11				6.6

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 6/8/2020 8:23 AM View: Appendix III - Interwell
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-9	ARGWC-10	ARGWC-8	ARGWA-14 (bg)
12/16/1997				
6/30/1998				
12/2/1998				
6/8/1999				
12/7/1999				
6/15/2000				
12/12/2000				
12/5/2001				
6/26/2002				
12/3/2002				
6/11/2003				
12/10/2003				
6/15/2004				
12/14/2004				
6/2/2005				
12/14/2005				
4/5/2006				
10/30/2006				
5/10/2007				
11/17/2007				
5/2/2008				
5/3/2008				
10/22/2008				
5/5/2009				
5/6/2009				
5/7/2009				
5/12/2009				
5/13/2009	3.37	3.85		
5/14/2009			6.38	
12/1/2009				
12/3/2009	3.49	3.73	5.96	
12/4/2009				
12/5/2009				
5/25/2010				
5/26/2010	3.35	3.7	5.37	
6/1/2010				
6/2/2010				15.1
11/9/2010	3.34	3.6	<0.071 (o)	
11/10/2010				14.8
5/18/2011			5.4	
5/19/2011	3.25	3.79		28.2 (o)
5/24/2011				
5/25/2011				
11/9/2011				32.8 (o)
11/10/2011				
11/11/2011	3.57	4.07	5.58	
11/12/2011				
5/17/2012	3.27	3.84	5.15	
5/18/2012				
5/30/2012				30.8 (o)
5/31/2012				
11/9/2012	3.45	3.99	5.2	

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 6/8/2020 8:23 AM View: Appendix III - Interwell
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-9	ARGWC-10	ARGWC-8	ARGWA-14 (bg)
11/10/2012				
11/11/2012				24.6 (o)
5/7/2013	3.35	3.94	5.56	
5/8/2013				
5/9/2013				27.2 (o)
5/13/2013				
11/5/2013			5.24	
11/6/2013	3.45	3.89		
11/11/2013				12.7
11/12/2013				
5/20/2014		3.54		
5/21/2014	3.18		7.34 (o)	
5/28/2014				
5/29/2014				20 (o)
11/17/2014				
11/18/2014	4	4.2	6.1	
11/19/2014				19 (o)
11/20/2014				
4/7/2015	4.22	4.09	5.62	
4/14/2015				13.6
4/15/2015				
10/28/2015	4.87	3.98	5.58	
10/29/2015				
11/3/2015				
11/4/2015				12.4
6/23/2016	5.6	4.3	6.2	9
6/24/2016				
8/30/2016				
8/31/2016	5.4		5.6	5.4
9/1/2016		4		
9/2/2016				
10/24/2016				
10/25/2016	6.4	4.6		9.3
10/26/2016			7.1	
1/23/2017				5.1
1/24/2017				
1/26/2017	5.3		5.8	
1/27/2017		3.9		
4/11/2017				4.1
4/12/2017	5.2	3.7	5.6	
6/20/2017				4.1
6/21/2017			5.8	
6/22/2017	5.5	3.9		
10/25/2017	5.3			3.8
10/26/2017		3.7	5.5	
4/9/2018				3.9
4/10/2018				
4/11/2018	5.1	3.8	5.7	
10/16/2018				4.3
10/17/2018	5.3	4	6	
3/26/2019				
3/27/2019				4

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 6/8/2020 8:23 AM View: Appendix III - Interwell
Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-9	ARGWC-10	ARGWC-8	ARGWA-14 (bg)
3/28/2019	4.8	3.7	5.7	
10/7/2019				4
10/8/2019				
10/9/2019	5.2	3.8	5.7	
4/6/2020				4.2
4/7/2020				
4/8/2020		3.9		
4/9/2020	5.6		7.7	

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 6/8/2020 8:23 AM View: Appendix III - Interwell
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-12 (bg)	ARGWA-5 (bg)	ARGWA-3 (bg)	ARGWA-14 (bg)	ARGWC-9	ARGWC-7	ARGWA-13 (bg)	ARGWC-8	ARGWC-16
8/30/2016	<0.2	<0.2							
8/31/2016			<0.2	0.12 (J)	<0.2	<0.2	<0.2	0.11 (J)	
9/1/2016									<0.2
9/2/2016									
10/24/2016	0.1 (J)								
10/25/2016		0.09 (J)	0.14 (J)	0.53	0.2 (J)	0.02 (J)	0.08 (J)		0.08 (J)
10/26/2016								0.43 (o)	
1/23/2017	<0.2			0.4					
1/24/2017		<0.2	<0.2				<0.2		
1/26/2017					<0.2	<0.2		0.13 (J)	<0.2
1/27/2017									
4/11/2017	<0.2	<0.2	<0.2	0.31			<0.2		<0.2
4/12/2017					<0.2	<0.2		0.13 (J)	
6/20/2017		<0.2	<0.2	0.27					
6/21/2017	<0.2						<0.2	0.14 (J)	<0.2
6/22/2017					<0.2	<0.2			
10/25/2017	<0.2	<0.2	<0.2	0.29	<0.2	<0.2	<0.2		
10/26/2017								0.13 (J)	<0.2
4/9/2018				0.25			<0.2		
4/10/2018	<0.2	<0.2	<0.2			<0.2			<0.2
4/11/2018					<0.2			0.13 (J)	
10/16/2018	0.1 (J)	<0.2	0.1 (J)	0.33			<0.2		<0.2
10/17/2018					<0.2	<0.2		0.16 (J)	
3/26/2019							<0.2		
3/27/2019	0.031 (J)	0.026 (J)	0.034 (J)	0.15 (J)					
3/28/2019					<0.2	<0.2		0.089 (J)	<0.2
8/19/2019							<0.2		
8/20/2019	0.049 (J)	0.047 (J)	0.053 (J)						0.033 (J)
8/21/2019				0.35	0.03 (J)	<0.2		0.12 (J)	
10/7/2019				0.12 (J)					
10/8/2019	0.27 (J)	0.05 (J)	0.056 (J)				0.033 (J)		
10/9/2019					0.038 (J)	0.032 (J)		0.085 (J)	0.031 (J)
4/6/2020				0.28					
4/7/2020	0.082 (J)	0.072 (J)	0.098 (J)				0.086 (J)		
4/8/2020						0.062 (J)			0.051 (J)
4/9/2020					0.066 (J)			0.16	

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 6/8/2020 8:23 AM View: Appendix III - Interwell
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-17	ARGWC-18	ARGWC-10	ARGWC-15
8/30/2016				
8/31/2016				
9/1/2016	<0.2	0.083 (J)	<0.2	
9/2/2016				0.21
10/24/2016				
10/25/2016	0.08 (J)		0.1 (J)	
10/26/2016		0.32 (o)		0.21 (J)
1/23/2017				
1/24/2017				
1/26/2017	<0.2			0.097 (J)
1/27/2017		0.097 (J)	<0.2	
4/11/2017	<0.2			
4/12/2017		0.088 (J)	<0.2	<0.2
6/20/2017				
6/21/2017	<0.2	0.096 (J)		<0.2
6/22/2017			<0.2	
10/25/2017		0.092 (J)		
10/26/2017	<0.2		<0.2	<0.2
4/9/2018				
4/10/2018	<0.2			<0.2
4/11/2018		0.09 (J)	<0.2	
10/16/2018				
10/17/2018	<0.2	0.11 (J)	<0.2	0.1 (J)
3/26/2019				
3/27/2019		0.05 (J)		0.05 (J)
3/28/2019	<0.2		0.03 (J)	
8/19/2019				
8/20/2019				
8/21/2019	0.031 (J)	0.079 (J)	0.047 (J)	0.1 (J)
10/7/2019				
10/8/2019				0.33 (J)
10/9/2019	0.03 (J)	0.068 (J)	0.053 (J)	
4/6/2020				
4/7/2020				
4/8/2020	0.053 (J)		0.071 (J)	0.12
4/9/2020		0.11		

Prediction Limit

Constituent: pH (SU) Analysis Run 6/8/2020 8:23 AM View: Appendix III - Interwell

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-5 (bg)	ARGWC-10	ARGWC-7	ARGWA-3 (bg)	ARGWC-8	ARGWC-9	ARGWC-16	ARGWC-17	ARGWC-18
8/30/2016	6.07								
8/31/2016		6.16	5.98	6.09	6.62	6.1			
9/1/2016							5.49	5.52	6.19
9/2/2016									
10/24/2016									
10/25/2016	5.96	6.02	5.81	5.92		5.92	5.29	5.45	
10/26/2016					6.44				6.03
1/23/2017									
1/24/2017	5.89			5.98					
1/26/2017			5.73		6.34	5.82	5.29	5.43	
1/27/2017		5.98							6.01
4/11/2017	5.78			5.82			5.21	5.33	
4/12/2017		5.87	5.65		6.36	5.79			5.97
6/20/2017	5.69			5.8					
6/21/2017					6.28		5.21	5.3	5.9
6/22/2017		5.68	5.69			5.64			
10/25/2017	6.11		5.99	5.89		5.7			5.97
10/26/2017		6.07			6.47		5.2	5.29	
4/9/2018									
4/10/2018	5.58		5.6	5.85			5.34	5.46	
4/11/2018		5.72			6.34	5.69			5.87
10/16/2018	5.86			6.03			5.47		
10/17/2018		5.9	5.67		6.2	5.81		5.32	5.9
3/26/2019									
3/27/2019	5.97			6.1					6.06
3/28/2019		6.05	5.85			5.97	5.31	5.36	
3/29/2019					6.55				
8/19/2019									
8/20/2019	5.8			5.83			5.35		
8/21/2019		5.82	5.77		6.36	5.76		5.07	5.94
10/7/2019									
10/8/2019	5.93			5.96					
10/9/2019		5.94	5.76		6.47	5.9	5.22	5.27	6.01
4/6/2020									
4/7/2020	5.86			5.9					
4/8/2020		5.95	5.75				5.07	5.02	
4/9/2020					6.42	5.9			5.98

Prediction Limit

Constituent: pH (SU) Analysis Run 6/8/2020 8:23 AM View: Appendix III - Interwell
Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-15	ARGWA-12 (bg)	ARGWA-13 (bg)	ARGWA-14 (bg)
8/30/2016		6.82 (o)		
8/31/2016			6.67 (o)	7.55 (o)
9/1/2016				
9/2/2016	6.54			
10/24/2016		5.99		
10/25/2016	6.25		5.8	6.92
10/26/2016	6.23			
1/23/2017		5.94		6.76
1/24/2017			5.82	
1/26/2017	6.4			
1/27/2017				
4/11/2017		5.88	5.78	6.72
4/12/2017	6.1			
6/20/2017				6.66
6/21/2017	6.11	5.73	5.67	
6/22/2017				
10/25/2017		6.13	5.72	6.77
10/26/2017	6.2			
4/9/2018			5.78	6.6
4/10/2018	6.17	5.95		
4/11/2018				
10/16/2018		5.94	5.74	6.63
10/17/2018	6.34			
3/26/2019			5.96	
3/27/2019	6.6	6		6.83
3/28/2019				
3/29/2019				
8/19/2019			5.59	
8/20/2019		5.89		
8/21/2019	6.3			6.94
10/7/2019				6.69
10/8/2019	6.38	5.93	5.74	
10/9/2019				
4/6/2020				6.65
4/7/2020		5.91	5.84	
4/8/2020	6.26			
4/9/2020				

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 6/8/2020 8:23 AM View: Appendix III - Interwell

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-3 (bg)	ARGWA-5 (bg)	ARGWC-7	ARGWC-15	ARGWA-12 (bg)	ARGWA-13 (bg)	ARGWC-17	ARGWC-16	ARGWC-18
12/16/1997	<1	2							
6/30/1998	<1	<1							
12/2/1998	0.654	0.709							
6/8/1999	1.46	<1							
12/7/1999	0.399	0.531							
6/15/2000	0.601	0.733							
12/12/2000	0.45	0.621							
12/5/2001	0.094	0.274							
6/26/2002	4.95	0.505							
12/3/2002	0.911	0.515							
6/11/2003	1.85	0.508							
12/10/2003	0.77	0.578							
6/15/2004	1.3	1.23							
12/14/2004	1.02	1.22							
6/2/2005	0.834	0.908							
12/14/2005	<1	0.825	133						
4/5/2006	<1	1.06	140						
10/30/2006	0.865	0.996	157						
5/10/2007	1.03	1.01	111						
11/17/2007	0.818	1.72	114						
5/2/2008			104						
5/3/2008	0.941	1.2							
10/22/2008	<1	<1	129						
5/5/2009				2.89					
5/6/2009		0.807			16.6				
5/7/2009	0.46					21.4			
5/12/2009							42.6	57.9	173
5/13/2009									
5/14/2009			157						
12/1/2009		0.644	142						
12/3/2009					12.3	11.6			
12/4/2009	1.06			3.13			58.4		195
12/5/2009								72.1	
5/25/2010		0.509			6.44	12.3	79.4		199
5/26/2010			120					70.3	
6/1/2010	5.56			14.5					
6/2/2010									
11/9/2010		0.348			6.83		111	74.8	
11/10/2010	0.241		100	5.04		10.6			189
5/18/2011									
5/19/2011									186
5/24/2011		0.532			8.55		171	87.2	
5/25/2011	0.383		88.8	4.57		11.9			
11/9/2011				4.15					
11/10/2011		0.209			9.74	100			
11/11/2011			96.6						
11/12/2011	<1						182	97.9	49.9
5/17/2012			88.9						177
5/18/2012		0.471			8.72				
5/30/2012						61.3	194	103	
5/31/2012	0.426			4.05					
11/9/2012		0.589	70.1		5.9	202	842 (o)	140	

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 6/8/2020 8:23 AM View: Appendix III - Interwell
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-3 (bg)	ARGWA-5 (bg)	ARGWC-7	ARGWC-15	ARGWA-12 (bg)	ARGWA-13 (bg)	ARGWC-17	ARGWC-16	ARGWC-18
11/10/2012				5.68					184
11/11/2012	0.455 (J)								
5/7/2013									195
5/8/2013		0.504	80.5		5.66		173		
5/9/2013						33.4			
5/13/2013	2.61			2.45				160	
11/5/2013			71.6						178
11/6/2013		<1			9.04		471 (o)	146	
11/11/2013						316			
11/12/2013	<1			11.8					
5/20/2014		0.5 (J)			7.25		145		
5/21/2014			80.4			162		217	
5/28/2014				14.6					201
5/29/2014	1.41								
11/17/2014		<1	71				110	97	
11/18/2014					10	370			
11/19/2014									150
11/20/2014				12					
4/7/2015		0.469	70.6			235	145	125	
4/14/2015	0.377			8.71	9.61				
4/15/2015									195
10/28/2015		0.28	12.2			737	82.7	106	
10/29/2015					10.2				147
11/3/2015	0.215			5.14					
11/4/2015									
6/23/2016	<1	<1	61	6.9	9.8	380			
6/24/2016							79	170	200
8/30/2016		<1			9.5				
8/31/2016	<1		57			600			
9/1/2016							94	130	200
9/2/2016				6.1					
10/24/2016					11				
10/25/2016	0.3 (J)	0.4 (J)	56			820	73	200	
10/26/2016				22					200
1/23/2017					11				
1/24/2017	<1	<1				370			
1/26/2017			57	5.1			110	130	
1/27/2017									200
4/11/2017	<1	<1			9.1	340	77	150	
4/12/2017			47	4					190
6/20/2017	<1	<1							
6/21/2017				4.6	10	540	75	130	200
6/22/2017			49						
10/25/2017	<1	<1	49		11	580			190
10/26/2017				5.4			61	110	
4/9/2018						230			
4/10/2018	<1	<1	46	6.7	9.5		58	130	
4/11/2018									200
10/16/2018	<1	<1			10	520		84	
10/17/2018			42	6.8			47		190
3/26/2019						430			
3/27/2019	0.38 (J)	0.55 (J)		7.2	9.1				190

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 6/8/2020 8:23 AM View: Appendix III - Interwell
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-9	ARGWC-8	ARGWC-10	ARGWA-14 (bg)
12/16/1997				
6/30/1998				
12/2/1998				
6/8/1999				
12/7/1999				
6/15/2000				
12/12/2000				
12/5/2001				
6/26/2002				
12/3/2002				
6/11/2003				
12/10/2003				
6/15/2004				
12/14/2004				
6/2/2005				
12/14/2005				
4/5/2006				
10/30/2006				
5/10/2007				
11/17/2007				
5/2/2008				
5/3/2008				
10/22/2008				
5/5/2009				
5/6/2009				
5/7/2009				
5/12/2009				
5/13/2009	0.938		0.984 (o)	
5/14/2009		109		
12/1/2009				
12/3/2009	0.422	107	0.544	
12/4/2009				
12/5/2009				
5/25/2010				
5/26/2010	0.262	109	0.37	
6/1/2010				
6/2/2010				129
11/9/2010	<1	100	0.299	
11/10/2010				140
5/18/2011		110		
5/19/2011	0.359		0.502	269
5/24/2011				
5/25/2011				
11/9/2011				308
11/10/2011				
11/11/2011	<1	107	0.172	
11/12/2011				
5/17/2012	0.398	98	0.438	
5/18/2012				
5/30/2012				296
5/31/2012				
11/9/2012	0.545	90.4	0.537	

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 6/8/2020 8:23 AM View: Appendix III - Interwell
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-9	ARGWC-8	ARGWC-10	ARGWA-14 (bg)
11/10/2012				
11/11/2012				225
5/7/2013	0.797	96.2	0.437	
5/8/2013				
5/9/2013				268
5/13/2013				
11/5/2013		86.9		
11/6/2013	0.86		<1	
11/11/2013				132
11/12/2013				
5/20/2014			0 (o)	
5/21/2014	1.02	106		
5/28/2014				
5/29/2014				216
11/17/2014				
11/18/2014	1.2	99	<1	
11/19/2014				160
11/20/2014				
4/7/2015	1.14	82.3	0.464	
4/14/2015				105
4/15/2015				
10/28/2015	1.02	78	0.293	
10/29/2015				
11/3/2015				
11/4/2015				74.4
6/23/2016	1	78	<1	18
6/24/2016				
8/30/2016				
8/31/2016	1.1	72		19
9/1/2016			<1	
9/2/2016				
10/24/2016				
10/25/2016	4.7 (o)		0.38 (J)	42
10/26/2016		77		
1/23/2017				12
1/24/2017				
1/26/2017	1.1	75		
1/27/2017			<1	
4/11/2017				7.1
4/12/2017	0.9 (J)	69	<1	
6/20/2017				8.5
6/21/2017		73		
6/22/2017	0.99 (J)		<1	
10/25/2017	0.95 (J)			9.1
10/26/2017		72	<1	
4/9/2018				11
4/10/2018				
4/11/2018	0.9 (J)	69	<1	
10/16/2018				14
10/17/2018	0.95 (J)	67	<1	
3/26/2019				
3/27/2019				15

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 6/8/2020 8:23 AM View: Appendix III - Interwell
Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-9	ARGWC-8	ARGWC-10	ARGWA-14 (bg)
3/28/2019	1	66	0.38 (J)	
10/7/2019				12
10/8/2019				
10/9/2019	1.5	63	0.59 (J)	
4/6/2020				10
4/7/2020				
4/8/2020			<1	
4/9/2020	1.1	59		

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 6/8/2020 8:23 AM View: Appendix III - Interwell

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-12 (bg)	ARGWA-5 (bg)	ARGWC-7	ARGWA-3 (bg)	ARGWC-8	ARGWA-14 (bg)	ARGWC-9	ARGWA-13 (bg)	ARGWC-17
8/30/2016	100	58							
8/31/2016			150	80	310	330	74	1000	
9/1/2016									220
9/2/2016									
10/24/2016	136								
10/25/2016		34	171	65		459	67	1280	114
10/26/2016					283				
1/23/2017	16					340			
1/24/2017		120		70				590	
1/26/2017			120		300		84		170
1/27/2017									
4/11/2017	120	76		64		300		610	160
4/12/2017			150		310		88		
6/20/2017		36		52		210			
6/21/2017	140				300			880	140
6/22/2017			130				76		
10/25/2017	120	64	130	72		280	60	900	
10/26/2017					270				120
4/9/2018						280		440	
4/10/2018	130	60	140	86					110
4/11/2018					240		24		
10/16/2018	150	54		74		48		910	
10/17/2018			180		120		96		140
3/26/2019								750	
3/27/2019	110	61		69		330			
3/28/2019			130		290		77		120
10/7/2019						230			
10/8/2019	130	68		66				1500	
10/9/2019			130		290		75		120
4/6/2020						280			
4/7/2020	120	65		64				480	
4/8/2020			130						91
4/9/2020					270		70		

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 6/8/2020 8:23 AM View: Appendix III - Interwell
Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-10	ARGWC-18	ARGWC-16	ARGWC-15
8/30/2016				
8/31/2016				
9/1/2016	100	450	240	
9/2/2016				150
10/24/2016				
10/25/2016	65		304	
10/26/2016		404		125
1/23/2017				
1/24/2017				
1/26/2017			170	86
1/27/2017	86	460		
4/11/2017			260	
4/12/2017	110	430		140
6/20/2017				
6/21/2017		430	230	120
6/22/2017	82			
10/25/2017		380		
10/26/2017	38		170	96
4/9/2018				
4/10/2018			260	130
4/11/2018	50	430		
10/16/2018			140	
10/17/2018	120	470		160
3/26/2019				
3/27/2019		430		150
3/28/2019	82		370	
10/7/2019				
10/8/2019				130
10/9/2019	92	420	350	
4/6/2020				
4/7/2020				
4/8/2020	82		350	130
4/9/2020		440		

FIGURE E.

Appendix I Interwell Prediction Limits - Significant Results

Plant Arkwright Client: Southern Company Data: Arkwright No 3 Printed 6/8/2020, 8:43 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lead (mg/L)	ARGWC-10	0.013	n/a	4/8/2020	0.031	Yes	174	n/a	n/a	88.51	n/a	n/a	0.00006534	NP Inter (NDs) 1 of 2

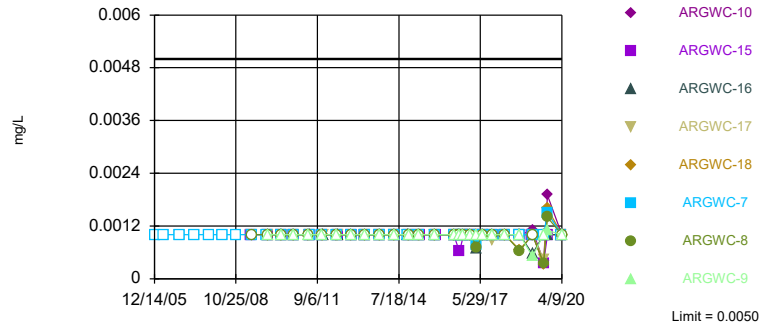
Appendix I Interwell Prediction Limits - All Results

Plant Arkwright Client: Southern Company Data: Arkwright No 3 Printed 6/8/2020, 8:43 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	ARGWC-10	0.0050	n/a	4/8/2020	0.001ND	No	176	n/a	n/a	78.98	n/a	n/a	0.00006375	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	ARGWC-15	0.0050	n/a	4/8/2020	0.001ND	No	176	n/a	n/a	78.98	n/a	n/a	0.00006375	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	ARGWC-16	0.0050	n/a	4/8/2020	0.001ND	No	176	n/a	n/a	78.98	n/a	n/a	0.00006375	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	ARGWC-17	0.0050	n/a	4/8/2020	0.001ND	No	176	n/a	n/a	78.98	n/a	n/a	0.00006375	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	ARGWC-18	0.0050	n/a	4/9/2020	0.001ND	No	176	n/a	n/a	78.98	n/a	n/a	0.00006375	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	ARGWC-7	0.0050	n/a	4/8/2020	0.001ND	No	176	n/a	n/a	78.98	n/a	n/a	0.00006375	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	ARGWC-8	0.0050	n/a	4/9/2020	0.001ND	No	176	n/a	n/a	78.98	n/a	n/a	0.00006375	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	ARGWC-9	0.0050	n/a	4/9/2020	0.001ND	No	176	n/a	n/a	78.98	n/a	n/a	0.00006375	NP Inter (NDs) 1 of 2
Barium (mg/L)	ARGWC-10	0.24	n/a	4/8/2020	0.031	No	172	n/a	n/a	0	n/a	n/a	0.00006694	NP Inter (normality) 1 of 2
Barium (mg/L)	ARGWC-15	0.24	n/a	4/8/2020	0.03	No	172	n/a	n/a	0	n/a	n/a	0.00006694	NP Inter (normality) 1 of 2
Barium (mg/L)	ARGWC-16	0.24	n/a	4/8/2020	0.042	No	172	n/a	n/a	0	n/a	n/a	0.00006694	NP Inter (normality) 1 of 2
Barium (mg/L)	ARGWC-17	0.24	n/a	4/8/2020	0.045	No	172	n/a	n/a	0	n/a	n/a	0.00006694	NP Inter (normality) 1 of 2
Barium (mg/L)	ARGWC-18	0.24	n/a	4/9/2020	0.041	No	172	n/a	n/a	0	n/a	n/a	0.00006694	NP Inter (normality) 1 of 2
Barium (mg/L)	ARGWC-7	0.24	n/a	4/8/2020	0.039	No	172	n/a	n/a	0	n/a	n/a	0.00006694	NP Inter (normality) 1 of 2
Barium (mg/L)	ARGWC-8	0.24	n/a	4/9/2020	0.045	No	172	n/a	n/a	0	n/a	n/a	0.00006694	NP Inter (normality) 1 of 2
Barium (mg/L)	ARGWC-9	0.24	n/a	4/9/2020	0.044	No	172	n/a	n/a	0	n/a	n/a	0.00006694	NP Inter (normality) 1 of 2
Cadmium (mg/L)	ARGWC-10	0.0043	n/a	4/8/2020	0.0025ND	No	173	n/a	n/a	93.64	n/a	n/a	0.00006614	NP Inter (NDs) 1 of 2
Cadmium (mg/L)	ARGWC-15	0.0043	n/a	4/8/2020	0.0025ND	No	173	n/a	n/a	93.64	n/a	n/a	0.00006614	NP Inter (NDs) 1 of 2
Cadmium (mg/L)	ARGWC-16	0.0043	n/a	4/8/2020	0.0025ND	No	173	n/a	n/a	93.64	n/a	n/a	0.00006614	NP Inter (NDs) 1 of 2
Cadmium (mg/L)	ARGWC-17	0.0043	n/a	4/8/2020	0.0025ND	No	173	n/a	n/a	93.64	n/a	n/a	0.00006614	NP Inter (NDs) 1 of 2
Cadmium (mg/L)	ARGWC-18	0.0043	n/a	4/9/2020	0.0025ND	No	173	n/a	n/a	93.64	n/a	n/a	0.00006614	NP Inter (NDs) 1 of 2
Cadmium (mg/L)	ARGWC-7	0.0043	n/a	4/8/2020	0.0025ND	No	173	n/a	n/a	93.64	n/a	n/a	0.00006614	NP Inter (NDs) 1 of 2
Cadmium (mg/L)	ARGWC-8	0.0043	n/a	4/9/2020	0.0025ND	No	173	n/a	n/a	93.64	n/a	n/a	0.00006614	NP Inter (NDs) 1 of 2
Cadmium (mg/L)	ARGWC-9	0.0043	n/a	4/9/2020	0.0025ND	No	173	n/a	n/a	93.64	n/a	n/a	0.00006614	NP Inter (NDs) 1 of 2
Lead (mg/L)	ARGWC-10	0.013	n/a	4/8/2020	0.031	Yes	174	n/a	n/a	88.51	n/a	n/a	0.00006534	NP Inter (NDs) 1 of 2
Lead (mg/L)	ARGWC-15	0.013	n/a	4/8/2020	0.001ND	No	174	n/a	n/a	88.51	n/a	n/a	0.00006534	NP Inter (NDs) 1 of 2
Lead (mg/L)	ARGWC-16	0.013	n/a	4/8/2020	0.001ND	No	174	n/a	n/a	88.51	n/a	n/a	0.00006534	NP Inter (NDs) 1 of 2
Lead (mg/L)	ARGWC-17	0.013	n/a	4/8/2020	0.001ND	No	174	n/a	n/a	88.51	n/a	n/a	0.00006534	NP Inter (NDs) 1 of 2
Lead (mg/L)	ARGWC-18	0.013	n/a	4/9/2020	0.001ND	No	174	n/a	n/a	88.51	n/a	n/a	0.00006534	NP Inter (NDs) 1 of 2
Lead (mg/L)	ARGWC-7	0.013	n/a	4/8/2020	0.001ND	No	174	n/a	n/a	88.51	n/a	n/a	0.00006534	NP Inter (NDs) 1 of 2
Lead (mg/L)	ARGWC-8	0.013	n/a	4/9/2020	0.001ND	No	174	n/a	n/a	88.51	n/a	n/a	0.00006534	NP Inter (NDs) 1 of 2
Lead (mg/L)	ARGWC-9	0.013	n/a	4/9/2020	0.001ND	No	174	n/a	n/a	88.51	n/a	n/a	0.00006534	NP Inter (NDs) 1 of 2
Selenium (mg/L)	ARGWC-10	0.034	n/a	4/8/2020	0.005ND	No	165	n/a	n/a	82.42	n/a	n/a	0.0000725	NP Inter (NDs) 1 of 2
Selenium (mg/L)	ARGWC-15	0.034	n/a	4/8/2020	0.005ND	No	165	n/a	n/a	82.42	n/a	n/a	0.0000725	NP Inter (NDs) 1 of 2
Selenium (mg/L)	ARGWC-16	0.034	n/a	4/8/2020	0.0022	No	165	n/a	n/a	82.42	n/a	n/a	0.0000725	NP Inter (NDs) 1 of 2
Selenium (mg/L)	ARGWC-17	0.034	n/a	4/8/2020	0.005ND	No	165	n/a	n/a	82.42	n/a	n/a	0.0000725	NP Inter (NDs) 1 of 2
Selenium (mg/L)	ARGWC-18	0.034	n/a	4/9/2020	0.005ND	No	165	n/a	n/a	82.42	n/a	n/a	0.0000725	NP Inter (NDs) 1 of 2
Selenium (mg/L)	ARGWC-7	0.034	n/a	4/8/2020	0.005ND	No	165	n/a	n/a	82.42	n/a	n/a	0.0000725	NP Inter (NDs) 1 of 2
Selenium (mg/L)	ARGWC-8	0.034	n/a	4/9/2020	0.005ND	No	165	n/a	n/a	82.42	n/a	n/a	0.0000725	NP Inter (NDs) 1 of 2
Selenium (mg/L)	ARGWC-9	0.034	n/a	4/9/2020	0.005ND	No	165	n/a	n/a	82.42	n/a	n/a	0.0000725	NP Inter (NDs) 1 of 2
Silver (mg/L)	ARGWC-10	0.0051	n/a	4/8/2020	0.001ND	No	149	n/a	n/a	93.29	n/a	n/a	0.00008915	NP Inter (NDs) 1 of 2
Silver (mg/L)	ARGWC-15	0.0051	n/a	4/8/2020	0.001ND	No	149	n/a	n/a	93.29	n/a	n/a	0.00008915	NP Inter (NDs) 1 of 2
Silver (mg/L)	ARGWC-16	0.0051	n/a	4/8/2020	0.001ND	No	149	n/a	n/a	93.29	n/a	n/a	0.00008915	NP Inter (NDs) 1 of 2
Silver (mg/L)	ARGWC-17	0.0051	n/a	4/8/2020	0.001ND	No	149	n/a	n/a	93.29	n/a	n/a	0.00008915	NP Inter (NDs) 1 of 2
Silver (mg/L)	ARGWC-18	0.0051	n/a	4/9/2020	0.001ND	No	149	n/a	n/a	93.29	n/a	n/a	0.00008915	NP Inter (NDs) 1 of 2
Silver (mg/L)	ARGWC-7	0.0051	n/a	4/8/2020	0.001ND	No	149	n/a	n/a	93.29	n/a	n/a	0.00008915	NP Inter (NDs) 1 of 2
Silver (mg/L)	ARGWC-8	0.0051	n/a	4/9/2020	0.001ND	No	149	n/a	n/a	93.29	n/a	n/a	0.00008915	NP Inter (NDs) 1 of 2
Silver (mg/L)	ARGWC-9	0.0051	n/a	4/9/2020	0.001ND	No	149	n/a	n/a	93.29	n/a	n/a	0.00008915	NP Inter (NDs) 1 of 2

Within Limit

Prediction Limit
Interwell Non-parametric

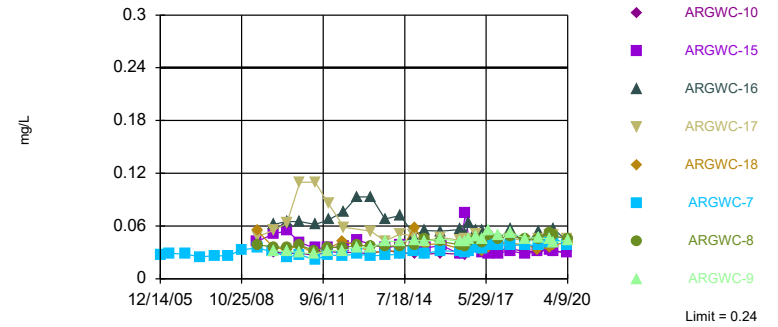


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 176 background values. 78.98% NDs. Annual per-constituent alpha = 0.00102. Individual comparison alpha = 0.00006375 (1 of 2). Comparing 8 points to limit.

Constituent: Arsenic Analysis Run 6/8/2020 8:41 AM View: Appendix I
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Within Limit

Prediction Limit
Interwell Non-parametric

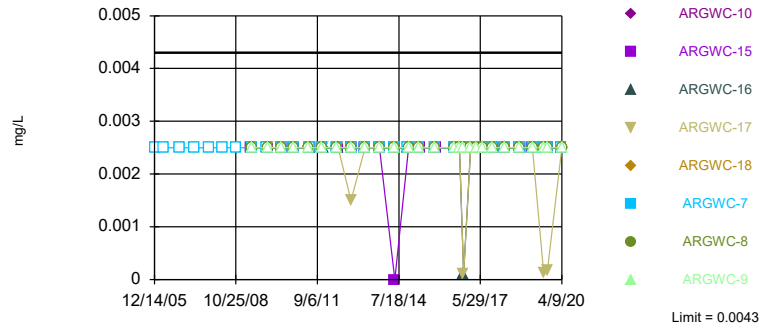


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 172 background values. Annual per-constituent alpha = 0.00107. Individual comparison alpha = 0.00006694 (1 of 2). Comparing 8 points to limit.

Constituent: Barium Analysis Run 6/8/2020 8:41 AM View: Appendix I
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Within Limit

Prediction Limit
Interwell Non-parametric

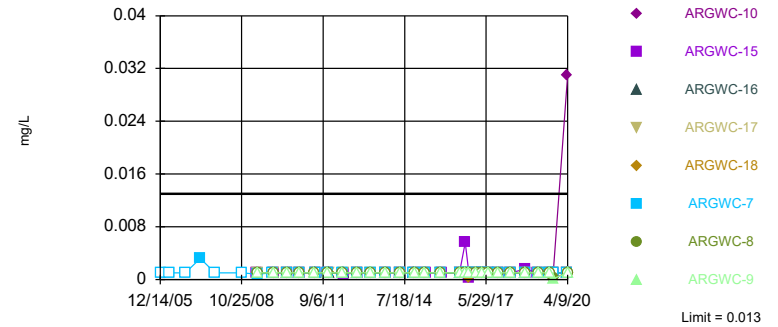


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 173 background values. 93.64% NDs. Annual per-constituent alpha = 0.001058. Individual comparison alpha = 0.00006614 (1 of 2). Comparing 8 points to limit.

Constituent: Cadmium Analysis Run 6/8/2020 8:41 AM View: Appendix I
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Exceeds Limit: ARGWC-10

Prediction Limit
Interwell Non-parametric

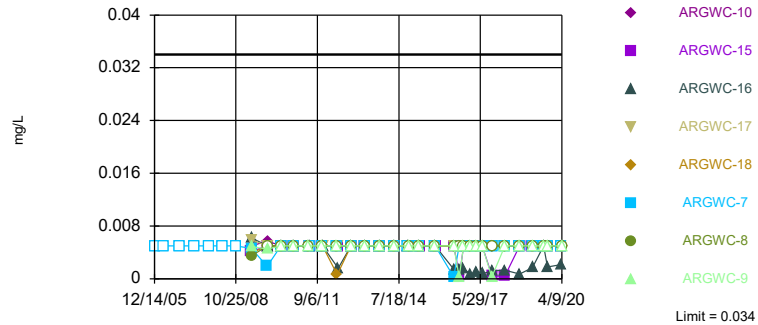


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 174 background values. 88.51% NDs. Annual per-constituent alpha = 0.001045. Individual comparison alpha = 0.00006534 (1 of 2). Comparing 8 points to limit.

Constituent: Lead Analysis Run 6/8/2020 8:41 AM View: Appendix I
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Within Limit

Prediction Limit
 Interwell Non-parametric

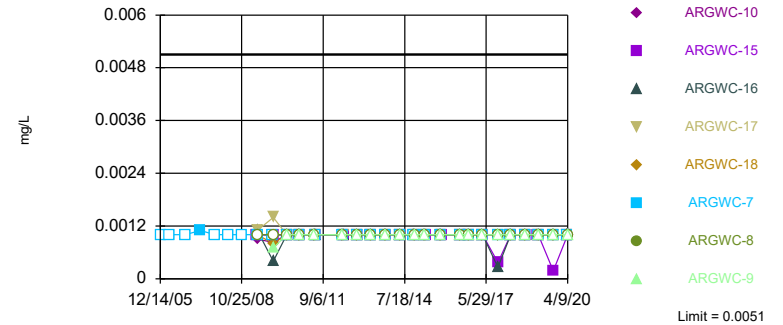


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 165 background values. 82.42% NDs. Annual per-constituent alpha = 0.001159. Individual comparison alpha = 0.0000725 (1 of 2). Comparing 8 points to limit.

Constituent: Selenium Analysis Run 6/8/2020 8:41 AM View: Appendix I
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

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 149 background values. 93.29% NDs. Annual per-constituent alpha = 0.001425. Individual comparison alpha = 0.00008915 (1 of 2). Comparing 8 points to limit.

Constituent: Silver Analysis Run 6/8/2020 8:41 AM View: Appendix I
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 6/8/2020 8:43 AM View: Appendix I

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-3 (bg)	ARGWA-5 (bg)	ARGWC-7	ARGWC-15	ARGWA-12 (bg)	ARGWA-13 (bg)	ARGWC-17	ARGWC-8	ARGWC-9
12/16/1997	0.002	<0.001							
6/30/1998	0.0006	<0.001							
12/2/1998	0.0007	<0.001							
6/8/1999	<0.001	<0.001							
12/7/1999	<0.001	<0.001							
6/15/2000	<0.001	<0.001							
12/12/2000	0.000475	0.00032							
12/5/2001	<0.001	0.0003							
6/26/2002	0.000431	0.000939							
12/3/2002	<0.001	<0.001							
6/11/2003	<0.001	<0.001							
12/10/2003	<0.001	<0.001							
6/15/2004	<0.001	<0.001							
12/14/2004	<0.001	<0.001							
6/2/2005	<0.001	<0.001							
12/14/2005	<0.001	<0.001	<0.001						
4/5/2006	<0.001	<0.001	<0.001						
10/30/2006	<0.001	<0.001	<0.001						
5/10/2007	0.0044	<0.001	<0.001						
11/17/2007	<0.001	<0.001	<0.001						
5/2/2008			<0.001						
5/3/2008	<0.001	<0.001							
10/22/2008	<0.001	<0.001	<0.001						
5/5/2009				<0.001					
5/6/2009		<0.001			<0.001				
5/7/2009	0.0028					0.0013			
5/12/2009							<0.001		
5/13/2009									0.0034 (o)
5/14/2009			<0.001					<0.001	
12/1/2009		<0.001	<0.001						
12/3/2009					<0.001	<0.001		<0.001	<0.001
12/4/2009	<0.001			<0.001			<0.001		
12/5/2009									
5/25/2010		<0.001			<0.001	<0.001	<0.001		
5/26/2010			<0.001					<0.001	<0.001
6/1/2010	<0.001			<0.001					
6/2/2010									
11/9/2010		<0.001			<0.001		<0.001	<0.001	<0.001
11/10/2010	<0.001		<0.001	<0.001		<0.001			
5/18/2011								<0.001	
5/19/2011									<0.001
5/24/2011		<0.001			<0.001		<0.001		
5/25/2011	<0.001		<0.001	<0.001		<0.001			
11/9/2011				<0.001					
11/10/2011		<0.001			<0.001	<0.001			
11/11/2011			<0.001					<0.001	<0.001
11/12/2011	<0.001						<0.001		
5/17/2012			<0.001					<0.001	<0.001
5/18/2012		<0.001			<0.001				
5/30/2012						<0.001	<0.001		
5/31/2012	<0.001			<0.001					
11/9/2012		<0.001	<0.001		<0.001	<0.001	0.01 (o)	<0.001	<0.001

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 6/8/2020 8:43 AM View: Appendix I

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-3 (bg)	ARGWA-5 (bg)	ARGWC-7	ARGWC-15	ARGWA-12 (bg)	ARGWA-13 (bg)	ARGWC-17	ARGWC-8	ARGWC-9
11/10/2012				<0.001					
11/11/2012	<0.001								
5/7/2013								<0.001	<0.001
5/8/2013		<0.001	<0.001		<0.001		<0.001		
5/9/2013						<0.001			
5/13/2013	<0.001			<0.001					
11/5/2013			<0.001					<0.001	
11/6/2013		<0.001			<0.001		<0.001		<0.001
11/11/2013						<0.001			
11/12/2013	<0.001			<0.001					
5/20/2014		<0.001			<0.001		<0.001		
5/21/2014			<0.001			<0.001		<0.001	<0.001
5/28/2014				<0.001					
5/29/2014	<0.001								
11/17/2014		<0.001	<0.001				<0.001		
11/18/2014					<0.001	<0.001		<0.001	<0.001
11/19/2014									
11/20/2014				<0.001					
4/7/2015		<0.001	<0.001			<0.001	<0.001	<0.001	<0.001
4/14/2015	<0.001			<0.001	<0.001				
4/15/2015									
10/28/2015		<0.001	<0.001			<0.001	<0.001	<0.001	<0.001
10/29/2015					<0.001				
11/3/2015	<0.001			<0.001					
11/4/2015									
6/23/2016	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001
6/24/2016							<0.001		
8/30/2016		<0.001			<0.001				
8/31/2016	<0.001		<0.001			<0.001		<0.001	<0.001
9/1/2016							<0.001		
9/2/2016				0.00062 (J)					
10/24/2016					<0.001				
10/25/2016	<0.001	<0.001	<0.001			<0.001	<0.001		<0.001
10/26/2016				<0.001				<0.001	
1/23/2017					<0.001				
1/24/2017	<0.001	<0.001				<0.001			
1/26/2017			<0.001	<0.001			<0.001	<0.001	<0.001
1/27/2017									
4/11/2017	0.00067 (J)	0.00077 (J)			0.00076 (J)	0.00063 (J)	0.00084 (J)		
4/12/2017			0.00078 (J)	<0.001				0.00072 (J)	<0.001
6/20/2017	0.00064 (J)	0.00052 (J)							
6/21/2017				<0.001	<0.001	<0.001	<0.001	<0.001	
6/22/2017			<0.001						<0.001
10/25/2017	<0.001	<0.001	<0.001		<0.001	<0.001			<0.001
10/26/2017				<0.001			0.00087 (J)	<0.001	
4/9/2018						<0.001			
4/10/2018	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001		
4/11/2018								<0.001	<0.001
10/16/2018	<0.001	<0.001			<0.001	0.00055 (J)			
10/17/2018			<0.001	<0.001			<0.001	0.00063 (J)	<0.001
3/26/2019						0.00089 (J)			
3/27/2019	0.00055 (J)	0.00055 (J)		<0.001	0.00049 (J)				

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 6/8/2020 8:43 AM View: Appendix I
Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-3 (bg)	ARGWA-5 (bg)	ARGWC-7	ARGWC-15	ARGWA-12 (bg)	ARGWA-13 (bg)	ARGWC-17	ARGWC-8	ARGWC-9
3/28/2019			<0.001				<0.001	<0.001	0.00051 (J)
8/19/2019						0.00045 (J)			
8/20/2019	0.00045 (J)	0.00058 (J)			0.00046 (J)				
8/21/2019			<0.001	0.00036 (J)			0.00044 (J)	0.00036 (J)	<0.001
10/7/2019									
10/8/2019	<0.001	<0.001		<0.001	<0.001	<0.001			
10/9/2019			0.0015				0.0015	0.0014	0.0011
4/6/2020									
4/7/2020	<0.001	<0.001			<0.001	<0.001			
4/8/2020			<0.001	<0.001			<0.001		
4/9/2020								<0.001	<0.001

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 6/8/2020 8:43 AM View: Appendix I
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-10	ARGWC-18	ARGWC-16	ARGWA-14 (bg)
12/16/1997				
6/30/1998				
12/2/1998				
6/8/1999				
12/7/1999				
6/15/2000				
12/12/2000				
12/5/2001				
6/26/2002				
12/3/2002				
6/11/2003				
12/10/2003				
6/15/2004				
12/14/2004				
6/2/2005				
12/14/2005				
4/5/2006				
10/30/2006				
5/10/2007				
11/17/2007				
5/2/2008				
5/3/2008				
10/22/2008				
5/5/2009				
5/6/2009				
5/7/2009				
5/12/2009		0.0025 (o)	0.003 (o)	
5/13/2009	0.0042 (o)			
5/14/2009				
12/1/2009				
12/3/2009	<0.001			
12/4/2009		<0.001		
12/5/2009			<0.001	
5/25/2010		<0.001		
5/26/2010	<0.001		<0.001	
6/1/2010				
6/2/2010				<0.001
11/9/2010	<0.001		<0.001	
11/10/2010		<0.001		<0.001
5/18/2011				
5/19/2011	<0.001	<0.001		<0.001
5/24/2011			<0.001	
5/25/2011				
11/9/2011				<0.001
11/10/2011				
11/11/2011	<0.001			
11/12/2011		<0.001	<0.001	
5/17/2012	<0.001	<0.001		
5/18/2012				
5/30/2012			<0.001	0.0026 (J)
5/31/2012				
11/9/2012	<0.001		<0.001	

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 6/8/2020 8:43 AM View: Appendix I

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-10	ARGWC-18	ARGWC-16	ARGWA-14 (bg)
11/10/2012		<0.001		
11/11/2012				<0.001
5/7/2013	<0.001	<0.001		
5/8/2013				
5/9/2013				<0.001
5/13/2013			<0.001	
11/5/2013		<0.001		
11/6/2013	<0.001		<0.001	
11/11/2013				<0.001
11/12/2013				
5/20/2014	<0.001			
5/21/2014			<0.001	
5/28/2014		<0.001		
5/29/2014				0.005 (J)
11/17/2014			<0.001	
11/18/2014	<0.001			
11/19/2014		<0.001		<0.001
11/20/2014				
4/7/2015	<0.001		<0.001	
4/14/2015				<0.001
4/15/2015		<0.001		
10/28/2015	<0.001		<0.001	
10/29/2015		<0.001		
11/3/2015				
11/4/2015				<0.001
6/23/2016	<0.001			0.0026
6/24/2016		<0.001	<0.001	
8/30/2016				
8/31/2016				0.0032
9/1/2016	<0.001	<0.001	<0.001	
9/2/2016				
10/24/2016				
10/25/2016	<0.001		<0.001	<0.001
10/26/2016		<0.001		
1/23/2017				0.00088 (J)
1/24/2017				
1/26/2017			<0.001	
1/27/2017	<0.001	<0.001		
4/11/2017			0.00067 (J)	0.00095 (J)
4/12/2017	<0.001	<0.001		
6/20/2017				0.00099 (J)
6/21/2017		<0.001	<0.001	
6/22/2017	<0.001			
10/25/2017		<0.001		<0.001
10/26/2017	<0.001		<0.001	
4/9/2018				<0.001
4/10/2018			<0.001	
4/11/2018	<0.001	<0.001		
10/16/2018			<0.001	0.00083 (J)
10/17/2018	<0.001	0.00066 (J)		
3/26/2019				
3/27/2019		<0.001		0.0013

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 6/8/2020 8:43 AM View: Appendix I
Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-10	ARGWC-18	ARGWC-16	ARGWA-14 (bg)
3/28/2019	0.0011 (J)		0.00057 (J)	
8/19/2019				
8/20/2019			<0.001	
8/21/2019	0.0004 (J)	0.00033 (J)		0.0013
10/7/2019				0.00045 (J)
10/8/2019				
10/9/2019	0.0019	0.0016	0.001	
4/6/2020				<0.001
4/7/2020				
4/8/2020	<0.001		<0.001	
4/9/2020		<0.001		

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 6/8/2020 8:43 AM View: Appendix I

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-5 (bg)	ARGWA-3 (bg)	ARGWC-7	ARGWC-15	ARGWA-12 (bg)	ARGWA-13 (bg)	ARGWC-18	ARGWC-17	ARGWC-8
12/16/1997	0.032	2.12 (o)							
6/30/1998	0.028	0.177							
12/2/1998	0.032	0.115							
6/8/1999	0.0287	0.074							
12/7/1999	0.034	0.043							
6/15/2000	0.034	0.113							
12/12/2000	0.027	0.059							
12/5/2001	0.027	0.052							
6/26/2002	0.032	0.087							
12/3/2002	0.023	0.043							
6/11/2003	0.04	0.24							
12/10/2003	0.024	0.03							
6/15/2004	0.021	0.028							
12/14/2004	0.025	0.017							
6/2/2005	0.025	0.019							
12/14/2005	0.026	0.02	0.027						
4/5/2006	0.027	0.019	0.029						
10/30/2006	0.027	<0.001 (o)	0.028						
5/10/2007	0.024	0.017	0.025						
11/17/2007	0.026	0.015	0.026						
5/2/2008			0.026						
5/3/2008	0.022	0.017							
10/22/2008	0.027	0.11	0.033						
5/5/2009				0.042					
5/6/2009	0.023				0.065				
5/7/2009		0.13				0.068			
5/12/2009							0.055	0.048	
5/13/2009									
5/14/2009			0.035						0.039
12/1/2009	0.033		0.031						
12/3/2009					0.062	0.044			0.036
12/4/2009		0.019		0.051			0.036	0.055	
12/5/2009									
5/25/2010	0.03				0.038 (o)	0.049	0.033	0.063	
5/26/2010			0.025						0.036
6/1/2010		0.027		0.055					
6/2/2010									
11/9/2010	0.033				0.059			0.11	0.038
11/10/2010		0.025	0.027	0.041		0.052	0.038		
5/18/2011									0.032
5/19/2011							0.028		
5/24/2011	0.027				0.054			0.11	
5/25/2011		0.015	0.022	0.035		0.045			
11/9/2011				0.035					
11/10/2011	0.032				0.063	0.11			
11/11/2011			0.027						0.036
11/12/2011		0.021					0.092 (o)	0.086	
5/17/2012			0.0265				0.0427		0.0353
5/18/2012	0.0311				0.0646				
5/30/2012						0.0831		0.0586	
5/31/2012		0.0222		0.0372					
11/9/2012	0.034		0.028		0.081	0.13		0.4 (o)	0.038

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 6/8/2020 8:43 AM View: Appendix I

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-5 (bg)	ARGWA-3 (bg)	ARGWC-7	ARGWC-15	ARGWA-12 (bg)	ARGWA-13 (bg)	ARGWC-18	ARGWC-17	ARGWC-8
11/10/2012				0.044			0.038		
11/11/2012		0.022							
5/7/2013							0.03		0.037
5/8/2013	0.026		0.026		0.066			0.054	
5/9/2013						0.059			
5/13/2013		0.019		0.2 (o)					
11/5/2013			0.027				0.087 (o)		0.037
11/6/2013	0.028				0.074			0.043	
11/11/2013						0.12			
11/12/2013		0.025		0.035					
5/20/2014	0.027				0.057			0.051	
5/21/2014			0.028			0.073			0.037
5/28/2014				0.038			0.032		
5/29/2014		0.024							
11/17/2014	0.029		0.031					0.049	
11/18/2014					0.069	0.072			0.038
11/19/2014							0.058		
11/20/2014				0.037					
4/7/2015	0.024		0.029			0.06		0.043	0.045
4/14/2015		0.022		0.035	0.067				
4/15/2015							0.039		
10/28/2015	0.028		0.032			0.057		0.047	0.042
10/29/2015					0.069		0.04		
11/3/2015		0.022		0.038					
11/4/2015									
6/23/2016	0.025	0.019	0.031	0.028	0.063	0.036			0.039
6/24/2016							0.034	0.044	
8/30/2016	0.026				0.062				
8/31/2016		0.018	0.03			0.041			0.037
9/1/2016							0.033	0.046	
9/2/2016				0.074					
10/24/2016					0.0674				
10/25/2016	0.0293	0.016	0.0317			0.0429		0.0436	
10/26/2016				0.0408			0.0339		0.0423
1/23/2017					0.069				
1/24/2017	0.028	0.017				0.025			
1/26/2017			0.035	0.038				0.051	0.046
1/27/2017							0.037		
4/11/2017	0.024	0.016			0.064	0.024		0.043	
4/12/2017			0.034	0.03			0.032		0.041
6/20/2017	0.027	0.02							
6/21/2017				0.028	0.074	0.034	0.036	0.043	0.049
6/22/2017			0.038						
10/25/2017	0.03	0.019	0.038		0.07	0.03	0.041		
10/26/2017				0.029				0.038	0.046
4/9/2018						0.023			
4/10/2018	0.028	0.019	0.038	0.032	0.073			0.046	
4/11/2018							0.04		0.048
10/16/2018	0.027	0.018			0.069	0.028			
10/17/2018			0.038	0.028			0.039	0.043	0.045
3/26/2019						0.029			
3/27/2019	0.024	0.019		0.032	0.063		0.033		

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 6/8/2020 8:43 AM View: Appendix I
Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-5 (bg)	ARGWA-3 (bg)	ARGWC-7	ARGWC-15	ARGWA-12 (bg)	ARGWA-13 (bg)	ARGWC-18	ARGWC-17	ARGWC-8
3/28/2019			0.038					0.045	0.045
8/19/2019						0.035			
8/20/2019	0.029	0.02			0.075				
8/21/2019			0.041	0.033			0.036	0.05	0.052
10/7/2019									
10/8/2019	0.03	0.02		0.031	0.078	0.042			
10/9/2019			0.046				0.039	0.049	0.049
4/6/2020									
4/7/2020	0.02	0.018			0.066	0.021			
4/8/2020			0.039	0.03				0.045	
4/9/2020							0.041		0.045

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 6/8/2020 8:43 AM View: Appendix I
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-10	ARGWC-9	ARGWC-16	ARGWA-14 (bg)
12/16/1997				
6/30/1998				
12/2/1998				
6/8/1999				
12/7/1999				
6/15/2000				
12/12/2000				
12/5/2001				
6/26/2002				
12/3/2002				
6/11/2003				
12/10/2003				
6/15/2004				
12/14/2004				
6/2/2005				
12/14/2005				
4/5/2006				
10/30/2006				
5/10/2007				
11/17/2007				
5/2/2008				
5/3/2008				
10/22/2008				
5/5/2009				
5/6/2009				
5/7/2009				
5/12/2009			0.16 (o)	
5/13/2009	0.15 (o)	0.14 (o)		
5/14/2009				
12/1/2009				
12/3/2009	0.03	0.032		
12/4/2009				
12/5/2009			0.062	
5/25/2010				
5/26/2010	0.029	0.031	0.065	
6/1/2010				
6/2/2010				0.046
11/9/2010	0.029	0.03	0.065	
11/10/2010				0.057
5/18/2011				
5/19/2011	0.027	0.028		0.048
5/24/2011			0.062	
5/25/2011				
11/9/2011				0.045
11/10/2011				
11/11/2011	0.031	0.032		
11/12/2011			0.067	
5/17/2012	0.0299	0.0319		
5/18/2012				
5/30/2012			0.0767	0.0519
5/31/2012				
11/9/2012	0.03	0.036	0.093	

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 6/8/2020 8:43 AM View: Appendix I
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-10	ARGWC-9	ARGWC-16	ARGWA-14 (bg)
11/10/2012				
11/11/2012				0.051
5/7/2013	0.028	0.035		
5/8/2013				
5/9/2013				0.056
5/13/2013			0.093	
11/5/2013				
11/6/2013	0.033	0.043	0.068	
11/11/2013				0.041
11/12/2013				
5/20/2014	0.029			
5/21/2014		0.042	0.072	
5/28/2014				
5/29/2014				0.051
11/17/2014			0.05	
11/18/2014	0.029	0.044		
11/19/2014				0.051
11/20/2014				
4/7/2015	0.028	0.043	0.055	
4/14/2015				0.043
4/15/2015				
10/28/2015	0.029	0.045	0.054	
10/29/2015				
11/3/2015				
11/4/2015				0.042
6/23/2016	0.028	0.043		0.084 (o)
6/24/2016			0.056	
8/30/2016				
8/31/2016		0.042		0.076
9/1/2016	0.027		0.051	
9/2/2016				
10/24/2016				
10/25/2016	0.0296	0.0455	0.0637	0.039
10/26/2016				
1/23/2017				0.044
1/24/2017				
1/26/2017		0.048	0.055	
1/27/2017	0.035			
4/11/2017			0.055	0.038
4/12/2017	0.031	0.045		
6/20/2017				0.057
6/21/2017			0.054	
6/22/2017	0.035	0.055		
10/25/2017		0.049		0.05
10/26/2017	0.032		0.046	
4/9/2018				0.049
4/10/2018			0.056	
4/11/2018	0.034	0.052		
10/16/2018			0.039	0.06
10/17/2018	0.031	0.046		
3/26/2019				
3/27/2019				0.054

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 6/8/2020 8:43 AM View: Appendix I
Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-10	ARGWC-9	ARGWC-16	ARGWA-14 (bg)
3/28/2019	0.031	0.047	0.054	
8/19/2019				
8/20/2019			0.046	
8/21/2019	0.035	0.045		0.031
10/7/2019				0.033
10/8/2019				
10/9/2019	0.031	0.041	0.057	
4/6/2020				0.051
4/7/2020				
4/8/2020	0.031		0.042	
4/9/2020		0.044		

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 6/8/2020 8:43 AM View: Appendix I

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-5 (bg)	ARGWA-3 (bg)	ARGWC-7	ARGWC-15	ARGWA-12 (bg)	ARGWA-13 (bg)	ARGWC-16	ARGWC-17	ARGWC-18
12/16/1997	<0.0025	0.103 (o)							
6/30/1998	<0.0025	0.007 (o)							
12/2/1998	<0.0025	0.007 (o)							
6/8/1999	<0.0025	<0.0025							
12/7/1999	<0.0025	<0.0025							
6/15/2000	<0.0025	<0.0025							
12/12/2000	<0.0025	<0.0025							
12/5/2001	<0.0025	0.002							
6/26/2002	<0.0025	0.003							
12/3/2002	<0.0025	<0.0025							
6/11/2003	<0.0025	0.0043							
12/10/2003	<0.0025	<0.0025							
6/15/2004	<0.0025	<0.0025							
12/14/2004	0.0012	<0.0025							
6/2/2005	<0.0025	<0.0025							
12/14/2005	<0.0025	<0.0025	<0.0025						
4/5/2006	<0.0025	<0.0025	<0.0025						
10/30/2006	<0.0025	<0.0025	<0.0025						
5/10/2007	<0.0025	<0.0025	<0.0025						
11/17/2007	<0.0025	<0.0025	<0.0025						
5/2/2008			<0.0025						
5/3/2008	<0.0025	0.00033							
10/22/2008	<0.0025	<0.0025	<0.0025						
5/5/2009				<0.0025					
5/6/2009	<0.0025				<0.0025				
5/7/2009		<0.0025				<0.0025			
5/12/2009							<0.0025	<0.0025	<0.0025
5/13/2009									
5/14/2009			<0.0025						
12/1/2009	<0.0025		<0.0025						
12/3/2009					<0.0025	<0.0025			
12/4/2009		<0.0025		<0.0025				<0.0025	<0.0025
12/5/2009							<0.0025		
5/25/2010	<0.0025				<0.0025	<0.0025		<0.0025	<0.0025
5/26/2010			<0.0025				<0.0025		
6/1/2010		<0.0025		<0.0025					
6/2/2010									
11/9/2010	<0.0025				<0.0025		<0.0025	<0.0025	
11/10/2010		<0.0025	<0.0025	<0.0025		<0.0025			<0.0025
5/18/2011									
5/19/2011									<0.0025
5/24/2011	<0.0025				<0.0025		<0.0025	<0.0025	
5/25/2011		<0.0025	<0.0025	<0.0025		<0.0025			
11/9/2011				<0.0025					
11/10/2011	<0.0025				<0.0025	<0.0025			
11/11/2011			<0.0025						
11/12/2011		<0.0025					<0.0025	<0.0025	<0.0025
5/17/2012			<0.0025						<0.0025
5/18/2012	<0.0025				<0.0025				
5/30/2012						<0.0025	<0.0025	<0.0025	
5/31/2012		<0.0025		<0.0025					
11/9/2012	<0.0025		<0.0025		<0.0025	<0.0025	<0.0025	0.0015	

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 6/8/2020 8:43 AM View: Appendix I

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-5 (bg)	ARGWA-3 (bg)	ARGWC-7	ARGWC-15	ARGWA-12 (bg)	ARGWA-13 (bg)	ARGWC-16	ARGWC-17	ARGWC-18
11/10/2012				<0.0025					<0.0025
11/11/2012		<0.0025							
5/7/2013									<0.0025
5/8/2013	<0.0025		<0.0025		<0.0025			<0.0025	
5/9/2013						<0.0025			
5/13/2013		<0.0025		<0.0025			<0.0025		
11/5/2013			<0.0025						<0.0025
11/6/2013	<0.0025				<0.0025		<0.0025	<0.0025	
11/11/2013						<0.0025			
11/12/2013		<0.0025		<0.0025					
5/20/2014	<0.0025				<0.0025			<0.0025	
5/21/2014			<0.0025			<0.0025	<0.0025		
5/28/2014				0					<0.0025
5/29/2014		<0.0025							
11/17/2014	<0.0025		<0.0025				<0.0025	<0.0025	
11/18/2014					<0.0025	<0.0025			
11/19/2014									<0.0025
11/20/2014				<0.0025					
4/7/2015	<0.0025		<0.0025			<0.0025	<0.0025	<0.0025	
4/14/2015		<0.0025		<0.0025	0.00026				
4/15/2015									<0.0025
10/28/2015	<0.0025		<0.0025			<0.0025	<0.0025	<0.0025	
10/29/2015					<0.0025				<0.0025
11/3/2015		<0.0025		<0.0025					
11/4/2015									
6/23/2016	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025		<0.0025	<0.0025
6/24/2016							<0.0025	<0.0025	
8/30/2016	<0.0025				<0.0025				
8/31/2016		<0.0025	<0.0025			<0.0025			
9/1/2016							<0.0025	<0.0025	<0.0025
9/2/2016				<0.0025					
10/24/2016					<0.0025				
10/25/2016	<0.0025	<0.0025	<0.0025			<0.0025	0.0001 (J)	0.0001 (J)	
10/26/2016				<0.0025					<0.0025
1/23/2017					<0.0025				
1/24/2017	<0.0025	<0.0025				<0.0025			
1/26/2017			<0.0025	<0.0025			<0.0025	<0.0025	
1/27/2017									<0.0025
4/11/2017	<0.0025	<0.0025			<0.0025	<0.0025	<0.0025	<0.0025	
4/12/2017			<0.0025	<0.0025					<0.0025
6/20/2017	<0.0025	<0.0025							
6/21/2017				<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
6/22/2017			<0.0025						
10/25/2017	<0.0025	<0.0025	<0.0025		<0.0025	<0.0025			<0.0025
10/26/2017				<0.0025			<0.0025	<0.0025	
4/9/2018						<0.0025			
4/10/2018	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025		<0.0025	<0.0025	
4/11/2018									<0.0025
10/16/2018	<0.0025	<0.0025			<0.0025	<0.0025	<0.0025		
10/17/2018			<0.0025	<0.0025				<0.0025	<0.0025
3/26/2019						<0.0025			
3/27/2019	<0.0025	<0.0025		<0.0025	<0.0025				<0.0025

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 6/8/2020 8:43 AM View: Appendix I
Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-10	ARGWC-9	ARGWC-8	ARGWA-14 (bg)
12/16/1997				
6/30/1998				
12/2/1998				
6/8/1999				
12/7/1999				
6/15/2000				
12/12/2000				
12/5/2001				
6/26/2002				
12/3/2002				
6/11/2003				
12/10/2003				
6/15/2004				
12/14/2004				
6/2/2005				
12/14/2005				
4/5/2006				
10/30/2006				
5/10/2007				
11/17/2007				
5/2/2008				
5/3/2008				
10/22/2008				
5/5/2009				
5/6/2009				
5/7/2009				
5/12/2009				
5/13/2009	<0.0025	<0.0025		
5/14/2009			<0.0025	
12/1/2009				
12/3/2009	<0.0025	<0.0025	<0.0025	
12/4/2009				
12/5/2009				
5/25/2010				
5/26/2010	<0.0025	<0.0025	<0.0025	
6/1/2010				
6/2/2010				<0.0025
11/9/2010	<0.0025	<0.0025	<0.0025	
11/10/2010				<0.0025
5/18/2011			<0.0025	
5/19/2011	<0.0025	<0.0025		<0.0025
5/24/2011				
5/25/2011				
11/9/2011				<0.0025
11/10/2011				
11/11/2011	<0.0025	<0.0025	<0.0025	
11/12/2011				
5/17/2012	<0.0025	<0.0025	<0.0025	
5/18/2012				
5/30/2012				<0.0025
5/31/2012				
11/9/2012	<0.0025	<0.0025	<0.0025	

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 6/8/2020 8:43 AM View: Appendix I
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-10	ARGWC-9	ARGWC-8	ARGWA-14 (bg)
11/10/2012				
11/11/2012				<0.0025
5/7/2013	<0.0025	<0.0025	<0.0025	
5/8/2013				
5/9/2013				<0.0025
5/13/2013				
11/5/2013			<0.0025	
11/6/2013	<0.0025	<0.0025		
11/11/2013				<0.0025
11/12/2013				
5/20/2014	<0.0025			
5/21/2014		<0.0025	<0.0025	
5/28/2014				
5/29/2014				<0.0025
11/17/2014				
11/18/2014	<0.0025	<0.0025	<0.0025	
11/19/2014				<0.0025
11/20/2014				
4/7/2015	<0.0025	<0.0025	<0.0025	
4/14/2015				<0.0025
4/15/2015				
10/28/2015	<0.0025	<0.0025	<0.0025	
10/29/2015				
11/3/2015				
11/4/2015				<0.0025
6/23/2016	<0.0025	<0.0025	<0.0025	<0.0025
6/24/2016				
8/30/2016				
8/31/2016		<0.0025	<0.0025	0.00039 (J)
9/1/2016	<0.0025			
9/2/2016				
10/24/2016				
10/25/2016	<0.0025	<0.0025		<0.0025
10/26/2016			<0.0025	
1/23/2017				<0.0025
1/24/2017				
1/26/2017		<0.0025	<0.0025	
1/27/2017	<0.0025			
4/11/2017				<0.0025
4/12/2017	<0.0025	<0.0025	<0.0025	
6/20/2017				<0.0025
6/21/2017			<0.0025	
6/22/2017	<0.0025	<0.0025		
10/25/2017		<0.0025		<0.0025
10/26/2017	<0.0025		<0.0025	
4/9/2018				0.00052 (J)
4/10/2018				
4/11/2018	<0.0025	<0.0025	<0.0025	
10/16/2018				0.00071 (J)
10/17/2018	<0.0025	<0.0025	<0.0025	
3/26/2019				
3/27/2019				<0.0025

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 6/8/2020 8:43 AM View: Appendix I
Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-10	ARGWC-9	ARGWC-8	ARGWA-14 (bg)
3/28/2019	<0.0025	<0.0025	<0.0025	
8/19/2019				
8/20/2019				
8/21/2019	<0.0025	<0.0025	<0.0025	0.00015 (J)
10/7/2019				<0.0025
10/8/2019				
10/9/2019	<0.0025	<0.0025	<0.0025	
4/6/2020				<0.0025
4/7/2020				
4/8/2020	<0.0025			
4/9/2020		<0.0025	<0.0025	

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 6/8/2020 8:43 AM View: Appendix I

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-5 (bg)	ARGWA-3 (bg)	ARGWC-7	ARGWC-15	ARGWA-12 (bg)	ARGWA-13 (bg)	ARGWC-17	ARGWC-16	ARGWC-18
12/16/1997	<0.001	0.162 (o)							
6/30/1998	<0.001	0.013							
12/2/1998	0.002	0.01							
6/8/1999	<0.001	0.004							
12/7/1999	<0.001	0.004							
6/15/2000	<0.001	0.004							
12/12/2000	<0.001	0.00378							
12/5/2001	<0.001	0.003							
6/26/2002	0.00539	0.00815							
12/3/2002	<0.001	0.008							
6/11/2003	<0.001	<0.001							
12/10/2003	<0.001	<0.001							
6/15/2004	<0.001	<0.001							
12/14/2004	0.013 (o)	<0.001							
6/2/2005	<0.001	<0.001							
12/14/2005	<0.001	<0.001	<0.001						
4/5/2006	<0.001	<0.001	<0.001						
10/30/2006	<0.001	<0.001	<0.001						
5/10/2007	<0.001	<0.001	0.0032						
11/17/2007	<0.001	<0.001	<0.001						
5/2/2008			0.008 (o)						
5/3/2008	<0.001	<0.001							
10/22/2008	<0.001	<0.001	<0.001						
5/5/2009				<0.001					
5/6/2009	<0.001				<0.001				
5/7/2009		<0.001				<0.001			
5/12/2009							<0.001	<0.001	<0.001
5/13/2009									
5/14/2009			0.00083						
12/1/2009	<0.001		<0.001						
12/3/2009					<0.001	<0.001			
12/4/2009		<0.001		<0.001			<0.001		<0.001
12/5/2009								<0.001	
5/25/2010	<0.001				<0.001	<0.001	<0.001		<0.001
5/26/2010			<0.001					<0.001	
6/1/2010		<0.001		<0.001					
6/2/2010									
11/9/2010	<0.001				<0.001		<0.001	<0.001	
11/10/2010		<0.001	<0.001	<0.001		<0.001			<0.001
5/18/2011									
5/19/2011									<0.001
5/24/2011	<0.001				<0.001		<0.001	<0.001	
5/25/2011		<0.001	<0.001	<0.001		<0.001			
11/9/2011				<0.001					
11/10/2011	<0.001				<0.001	<0.001			
11/11/2011			<0.001						
11/12/2011		<0.001					<0.001	<0.001	<0.001
5/17/2012			<0.001						<0.001
5/18/2012	<0.001				<0.001				
5/30/2012						<0.001	<0.001	<0.001	
5/31/2012		0.0005 (J)		0.0008 (J)					
11/9/2012	<0.001		<0.001		<0.001	<0.001	<0.001	<0.001	

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 6/8/2020 8:43 AM View: Appendix I

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-5 (bg)	ARGWA-3 (bg)	ARGWC-7	ARGWC-15	ARGWA-12 (bg)	ARGWA-13 (bg)	ARGWC-17	ARGWC-16	ARGWC-18
11/10/2012				<0.001					<0.001
11/11/2012		<0.001							
5/7/2013									<0.001
5/8/2013	<0.001		<0.001		<0.001		<0.001		
5/9/2013						<0.001			
5/13/2013		<0.001		0.025 (o)				<0.001	
11/5/2013			<0.001						<0.001
11/6/2013	<0.001				<0.001		<0.001	<0.001	
11/11/2013						<0.001			
11/12/2013		<0.001		<0.001					
5/20/2014	<0.001				<0.001		<0.001		
5/21/2014			<0.001			<0.001		<0.001	
5/28/2014				<0.001					<0.001
5/29/2014		<0.001							
11/17/2014	<0.001		<0.001				<0.001	<0.001	
11/18/2014					<0.001	<0.001			
11/19/2014									<0.001
11/20/2014				<0.001					
4/7/2015	<0.001		<0.001			<0.001	<0.001	<0.001	
4/14/2015		<0.001		<0.001	<0.001				
4/15/2015									<0.001
10/28/2015	<0.001		<0.001			<0.001	<0.001	<0.001	
10/29/2015					<0.001				<0.001
11/3/2015		<0.001		<0.001					
11/4/2015									
6/23/2016	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001
6/24/2016							<0.001	<0.001	
8/30/2016	<0.001				<0.001				<0.001
8/31/2016		<0.001	<0.001			<0.001			
9/1/2016							<0.001	<0.001	<0.001
9/2/2016				0.0056					
10/24/2016					0.0002 (J)				
10/25/2016	<0.001	<0.001	<0.001			<0.001	<0.001	<0.001	
10/26/2016				0.0003 (J)					0.0002 (J)
1/23/2017					<0.001				
1/24/2017	<0.001	<0.001				<0.001			
1/26/2017			<0.001	<0.001			<0.001	<0.001	
1/27/2017									<0.001
4/11/2017	<0.001	<0.001			<0.001	<0.001	<0.001	<0.001	
4/12/2017			<0.001	<0.001					<0.001
6/20/2017	<0.001	<0.001							
6/21/2017				<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
6/22/2017			<0.001						
10/25/2017	<0.001	<0.001	<0.001		<0.001	<0.001			<0.001
10/26/2017				<0.001			<0.001	<0.001	
4/9/2018						<0.001			
4/10/2018	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	
4/11/2018									<0.001
10/16/2018	<0.001	<0.001			<0.001	<0.001		<0.001	
10/17/2018			<0.001	0.0016			<0.001		<0.001
3/26/2019						<0.001			
3/27/2019	<0.001	<0.001		<0.001	<0.001				<0.001

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 6/8/2020 8:43 AM View: Appendix I
Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-9	ARGWC-10	ARGWC-8	ARGWA-14 (bg)
12/16/1997				
6/30/1998				
12/2/1998				
6/8/1999				
12/7/1999				
6/15/2000				
12/12/2000				
12/5/2001				
6/26/2002				
12/3/2002				
6/11/2003				
12/10/2003				
6/15/2004				
12/14/2004				
6/2/2005				
12/14/2005				
4/5/2006				
10/30/2006				
5/10/2007				
11/17/2007				
5/2/2008				
5/3/2008				
10/22/2008				
5/5/2009				
5/6/2009				
5/7/2009				
5/12/2009				
5/13/2009	<0.001	<0.001		
5/14/2009			<0.001	
12/1/2009				
12/3/2009	<0.001	<0.001	<0.001	
12/4/2009				
12/5/2009				
5/25/2010				
5/26/2010	<0.001	<0.001	<0.001	
6/1/2010				
6/2/2010				<0.001
11/9/2010	<0.001	<0.001	<0.001	
11/10/2010				<0.001
5/18/2011			<0.001	
5/19/2011	<0.001	<0.001		<0.001
5/24/2011				
5/25/2011				
11/9/2011				<0.001
11/10/2011				
11/11/2011	<0.001	<0.001	<0.001	
11/12/2011				
5/17/2012	<0.001	<0.001	<0.001	
5/18/2012				
5/30/2012				<0.001
5/31/2012				
11/9/2012	<0.001	<0.001	<0.001	

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 6/8/2020 8:43 AM View: Appendix I
Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-9	ARGWC-10	ARGWC-8	ARGWA-14 (bg)
11/10/2012				
11/11/2012				<0.001
5/7/2013	<0.001	<0.001	<0.001	
5/8/2013				
5/9/2013				<0.001
5/13/2013				
11/5/2013			<0.001	
11/6/2013	<0.001	<0.001		
11/11/2013				<0.001
11/12/2013				
5/20/2014		<0.001		
5/21/2014	<0.001		<0.001	
5/28/2014				
5/29/2014				<0.001
11/17/2014				
11/18/2014	<0.001	<0.001	<0.001	
11/19/2014				<0.001
11/20/2014				
4/7/2015	<0.001	<0.001	<0.001	
4/14/2015				<0.001
4/15/2015				
10/28/2015	<0.001	<0.001	<0.001	
10/29/2015				
11/3/2015				
11/4/2015				<0.001
6/23/2016	<0.001	<0.001	<0.001	<0.001
6/24/2016				
8/30/2016				
8/31/2016	<0.001		<0.001	<0.001
9/1/2016		<0.001		
9/2/2016				
10/24/2016				
10/25/2016	<0.001	<0.001		<0.001
10/26/2016			<0.001	
1/23/2017				0.0013
1/24/2017				
1/26/2017	<0.001		<0.001	
1/27/2017		<0.001		
4/11/2017				<0.001
4/12/2017	<0.001	<0.001	<0.001	
6/20/2017				<0.001
6/21/2017			<0.001	
6/22/2017	<0.001	<0.001		
10/25/2017	<0.001			<0.001
10/26/2017		<0.001	<0.001	
4/9/2018				<0.001
4/10/2018				
4/11/2018	<0.001	<0.001	<0.001	
10/16/2018				<0.001
10/17/2018	<0.001	<0.001	<0.001	
3/26/2019				
3/27/2019				<0.001

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 6/8/2020 8:43 AM View: Appendix I
Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-9	ARGWC-10	ARGWC-8	ARGWA-14 (bg)
3/28/2019	<0.001	<0.001	<0.001	
8/19/2019				
8/20/2019				
8/21/2019	<0.001	<0.001	<0.001	0.00019 (J)
10/7/2019				<0.001
10/8/2019				
10/9/2019	0.00016 (J)	<0.001	0.00019 (J)	
4/6/2020				<0.001
4/7/2020				
4/8/2020		0.031		
4/9/2020	<0.001		<0.001	

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 6/8/2020 8:43 AM View: Appendix I

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-5 (bg)	ARGWA-3 (bg)	ARGWC-7	ARGWC-15	ARGWA-12 (bg)	ARGWC-18	ARGWC-17	ARGWC-16	ARGWC-9
12/16/1997	<0.005	<0.005							
6/30/1998	<0.005	<0.005							
12/2/1998	<0.005	<0.005							
6/8/1999	<0.005	<0.005							
12/7/1999	<0.005	<0.005							
6/15/2000	<0.005	<0.005							
12/12/2000	<0.005	<0.005							
12/5/2001	<0.005	<0.005							
6/26/2002	<0.005	<0.005							
12/3/2002	<0.005	<0.005							
6/11/2003	<0.005	<0.005							
12/10/2003	<0.005	<0.005							
6/15/2004	<0.005	<0.005							
12/14/2004	<0.005	<0.005							
6/2/2005	<0.005	<0.005							
12/14/2005	<0.005	<0.005	<0.005						
4/5/2006	<0.005	<0.005	<0.005						
10/30/2006	<0.005	<0.005	<0.005						
5/10/2007	<0.005	<0.005	<0.005						
11/17/2007	<0.005	<0.005	<0.005						
5/2/2008			<0.005						
5/3/2008	<0.005	<0.005							
10/22/2008	<0.005	<0.005	<0.005						
5/5/2009				0.0041					
5/6/2009	0.0047				0.0054				
5/7/2009		0.0049							
5/12/2009						0.0039	0.0059	0.0062	
5/13/2009									0.0049
5/14/2009			0.0046						
12/1/2009	0.0046		0.0019						
12/3/2009					0.006				0.0045
12/4/2009		<0.005		<0.005		<0.005	<0.005		
12/5/2009								<0.005	
5/25/2010	<0.005				<0.005	<0.005	<0.005		
5/26/2010			<0.005					<0.005	<0.005
6/1/2010		<0.005		<0.005					
6/2/2010									
11/9/2010	<0.005				<0.005		<0.005	<0.005	<0.005
11/10/2010		<0.005	<0.005	<0.005		<0.005			
5/18/2011									
5/19/2011						<0.005			<0.005
5/24/2011	<0.005				<0.005		<0.005	<0.005	
5/25/2011		<0.005	<0.005	<0.005					
11/9/2011				<0.005					
11/10/2011	<0.005				<0.005				
11/11/2011			<0.005						<0.005
11/12/2011		<0.005				<0.005	<0.005	<0.005	
5/17/2012			<0.005			0.0006 (J)			<0.005
5/18/2012	<0.005				<0.005				
5/30/2012							<0.005	0.0016 (J)	
5/31/2012		<0.005		<0.005					
11/9/2012	<0.005		<0.005		<0.005		<0.005	<0.005	<0.005

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 6/8/2020 8:43 AM View: Appendix I

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-5 (bg)	ARGWA-3 (bg)	ARGWC-7	ARGWC-15	ARGWA-12 (bg)	ARGWC-18	ARGWC-17	ARGWC-16	ARGWC-9
11/10/2012				<0.005		<0.005			
11/11/2012		<0.005							
5/7/2013						<0.005			<0.005
5/8/2013	<0.005		<0.005		<0.005		<0.005		
5/9/2013									
5/13/2013		<0.005		<0.005				<0.005	
11/5/2013			<0.005			<0.005			
11/6/2013	<0.005				<0.005		<0.005	<0.005	<0.005
11/11/2013									
11/12/2013		<0.005		<0.005					
5/20/2014	<0.005				<0.005		<0.005		
5/21/2014			<0.005					<0.005	<0.005
5/28/2014				<0.005		<0.005			
5/29/2014		<0.005							
11/17/2014	<0.005		<0.005				<0.005	<0.005	
11/18/2014					<0.005				<0.005
11/19/2014						<0.005			
11/20/2014				<0.005					
4/7/2015	<0.005		<0.005				<0.005	<0.005	<0.005
4/14/2015		<0.005		<0.005	<0.005				
4/15/2015						<0.005			
10/28/2015	<0.005		<0.005				<0.005	<0.005	<0.005
10/29/2015					<0.005	<0.005			
11/3/2015		<0.005		<0.005					
11/4/2015									
6/23/2016	<0.005	<0.005	0.00029 (J)	<0.005	<0.005				<0.005
6/24/2016						<0.005	<0.005	0.0014	
8/30/2016	<0.005				<0.005				
8/31/2016		<0.005	<0.005						0.00024 (J)
9/1/2016						<0.005	<0.005	0.0014	
9/2/2016				0.0005 (J)					
10/24/2016					<0.005				
10/25/2016	<0.005	<0.005	<0.005				<0.005	0.0015 (J)	<0.005
10/26/2016				<0.005		<0.005			
1/23/2017					<0.005				
1/24/2017	<0.005	<0.005							
1/26/2017			<0.005	<0.005			<0.005	0.00071 (J)	<0.005
1/27/2017						<0.005			
4/11/2017	<0.005	<0.005			<0.005		<0.005	0.0011 (J)	
4/12/2017			<0.005	<0.005		<0.005			<0.005
6/20/2017	<0.005	<0.005							
6/21/2017				<0.005	0.00025 (J)	<0.005	<0.005	0.00075 (J)	
6/22/2017			<0.005						<0.005
10/25/2017	0.00027 (J)	0.00032 (J)	<0.005		0.00027 (J)	<0.005			0.00029 (J)
10/26/2017				0.0004 (J)			<0.005	0.0012 (J)	
4/9/2018									
4/10/2018	<0.005	<0.005	<0.005	0.00044 (J)	0.00033 (J)		<0.005	0.0013	
4/11/2018						<0.005			<0.005
10/16/2018	<0.005	<0.005			<0.005			0.00072 (J)	
10/17/2018			<0.005	<0.005		<0.005	<0.005		<0.005
3/26/2019									
3/27/2019	<0.005	<0.005		<0.005	<0.005	<0.005			

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 6/8/2020 8:43 AM View: Appendix I
Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-5 (bg)	ARGWA-3 (bg)	ARGWC-7	ARGWC-15	ARGWA-12 (bg)	ARGWC-18	ARGWC-17	ARGWC-16	ARGWC-9
3/28/2019			<0.005				<0.005	0.0017	<0.005
8/19/2019									
8/20/2019	<0.005	<0.005			<0.005			<0.005	
8/21/2019			<0.005	<0.005		<0.005	<0.005		<0.005
10/7/2019									
10/8/2019	<0.005	<0.005		<0.005	<0.005				
10/9/2019			<0.005			<0.005	<0.005	0.0018 (J)	<0.005
4/6/2020									
4/7/2020	<0.005	<0.005			<0.005				
4/8/2020			<0.005	<0.005			<0.005	0.0022 (J)	
4/9/2020						<0.005			<0.005

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 6/8/2020 8:43 AM View: Appendix I
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-10	ARGWC-8	ARGWA-14 (bg)	ARGWA-13 (bg)
12/16/1997				
6/30/1998				
12/2/1998				
6/8/1999				
12/7/1999				
6/15/2000				
12/12/2000				
12/5/2001				
6/26/2002				
12/3/2002				
6/11/2003				
12/10/2003				
6/15/2004				
12/14/2004				
6/2/2005				
12/14/2005				
4/5/2006				
10/30/2006				
5/10/2007				
11/17/2007				
5/2/2008				
5/3/2008				
10/22/2008				
5/5/2009				
5/6/2009				
5/7/2009				0.0059
5/12/2009				
5/13/2009	0.005			
5/14/2009		0.0035		
12/1/2009				
12/3/2009	0.0057	<0.005		0.0057
12/4/2009				
12/5/2009				
5/25/2010				<0.013
5/26/2010	<0.005	<0.005		
6/1/2010				
6/2/2010			<0.005	
11/9/2010	<0.005	<0.005		
11/10/2010			<0.005	<0.013
5/18/2011		<0.005		
5/19/2011	<0.005		<0.005	
5/24/2011				
5/25/2011				<0.013
11/9/2011			<0.005	
11/10/2011				<0.013
11/11/2011	<0.005	<0.005		
11/12/2011				
5/17/2012	<0.005	<0.005		
5/18/2012				
5/30/2012			<0.005	<0.0005
5/31/2012				
11/9/2012	<0.005	<0.005		<0.005

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 6/8/2020 8:43 AM View: Appendix I
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-10	ARGWC-8	ARGWA-14 (bg)	ARGWA-13 (bg)
11/10/2012				
11/11/2012			<0.005	
5/7/2013	<0.005	<0.005		
5/8/2013				
5/9/2013			<0.005	<0.005
5/13/2013				
11/5/2013		<0.005		
11/6/2013	<0.005			
11/11/2013			<0.005	<0.005
11/12/2013				
5/20/2014	<0.005			
5/21/2014		<0.005		<0.005
5/28/2014				
5/29/2014			<0.005	
11/17/2014				
11/18/2014	<0.005	<0.005		0.0083
11/19/2014			<0.005	
11/20/2014				
4/7/2015	<0.005	<0.005		<0.005
4/14/2015			<0.005	
4/15/2015				
10/28/2015	<0.005	<0.005		0.023
10/29/2015				
11/3/2015				
11/4/2015			<0.005	
6/23/2016	<0.005	<0.005	<0.005	0.0096
6/24/2016				
8/30/2016				
8/31/2016		<0.005	0.00077 (J)	0.017
9/1/2016	<0.005			
9/2/2016				
10/24/2016				
10/25/2016	<0.005		<0.005	0.0257
10/26/2016		<0.005		
1/23/2017			0.00037 (J)	
1/24/2017				0.0097
1/26/2017		<0.005		
1/27/2017	<0.005			
4/11/2017			<0.005	0.0079
4/12/2017	<0.005	<0.005		
6/20/2017			0.00044 (J)	
6/21/2017		<0.005		0.019
6/22/2017	<0.005			
10/25/2017			0.00038 (J)	0.022
10/26/2017	<0.005	<0.005		
4/9/2018			<0.005	0.0063
4/10/2018				
4/11/2018	<0.005	<0.005		
10/16/2018			<0.005	0.021
10/17/2018	<0.005	<0.005		
3/26/2019				0.015
3/27/2019			<0.005	

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 6/8/2020 8:43 AM View: Appendix I
Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-10	ARGWC-8	ARGWA-14 (bg)	ARGWA-13 (bg)
3/28/2019	<0.005	<0.005		
8/19/2019				0.034
8/20/2019				
8/21/2019	<0.005	<0.005	<0.005	
10/7/2019			<0.005	
10/8/2019				0.03
10/9/2019	<0.005	<0.005		
4/6/2020			<0.005	
4/7/2020				0.0094
4/8/2020	<0.005			
4/9/2020		<0.005		

Prediction Limit

Constituent: Silver (mg/L) Analysis Run 6/8/2020 8:43 AM View: Appendix I

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-5 (bg)	ARGWA-3 (bg)	ARGWC-7	ARGWC-15	ARGWA-12 (bg)	ARGWA-13 (bg)	ARGWC-17	ARGWC-16	ARGWC-18
12/16/1997	<0.001	0.035 (o)							
6/30/1998	<0.001	<0.001							
12/2/1998	<0.001	<0.001							
6/8/1999	<0.001	<0.001							
12/7/1999	<0.001	<0.001							
6/15/2000	<0.001	<0.001							
12/12/2000	<0.001	0.0051							
12/5/2001	<0.001	<0.001							
6/26/2002	<0.001	<0.001							
12/3/2002	<0.001	<0.001							
6/11/2003	<0.001	<0.001							
12/10/2003	0.002 (o)	0.003							
6/15/2004	<0.001	<0.001							
12/14/2004	<0.001	<0.001							
6/2/2005	<0.001	<0.001							
12/14/2005	<0.001	<0.001	<0.001						
4/5/2006	<0.001	<0.001	<0.001						
10/30/2006	<0.001	0.002	<0.001						
5/10/2007	<0.001	0.0017	0.0011						
11/17/2007	<0.001	<0.001	<0.001						
5/2/2008			<0.001						
5/3/2008	<0.001	<0.001							
10/22/2008	<0.001	<0.001	<0.001						
5/5/2009				<0.001					
5/6/2009	<0.001				<0.001				
5/7/2009		<0.001				<0.001			
5/12/2009							0.0011	0.0011	<0.001
5/13/2009									
5/14/2009			<0.001						
12/1/2009	<0.001		<0.001						
12/3/2009					<0.001	<0.001			
12/4/2009		<0.001		0.00098			0.0014		0.0008
12/5/2009								0.0004	
5/25/2010	<0.001				<0.001	<0.001	<0.001		<0.001
5/26/2010			<0.001					<0.001	
6/1/2010		<0.001		<0.001					
6/2/2010									
11/9/2010	<0.001				<0.001		<0.001	<0.001	
11/10/2010		<0.001	<0.001	<0.001		<0.001			<0.001
5/18/2011									
5/19/2011									<0.001
5/24/2011	<0.001				<0.001		<0.001	<0.001	
5/25/2011		<0.001	<0.001	<0.001		<0.001			
5/17/2012			<0.001						<0.001
5/18/2012	<0.001				0.0001 (J)				
5/30/2012						<0.001	<0.001	<0.001	
5/31/2012		<0.001		<0.001					
11/9/2012	<0.001		<0.001		<0.001	<0.001	<0.001	<0.001	
11/10/2012				<0.001					<0.001
11/11/2012		<0.001							
5/7/2013									<0.001
5/8/2013	<0.001		<0.001		<0.001		<0.001		

Prediction Limit

Constituent: Silver (mg/L) Analysis Run 6/8/2020 8:43 AM View: Appendix I
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-10	ARGWC-8	ARGWC-9	ARGWA-14 (bg)
12/16/1997				
6/30/1998				
12/2/1998				
6/8/1999				
12/7/1999				
6/15/2000				
12/12/2000				
12/5/2001				
6/26/2002				
12/3/2002				
6/11/2003				
12/10/2003				
6/15/2004				
12/14/2004				
6/2/2005				
12/14/2005				
4/5/2006				
10/30/2006				
5/10/2007				
11/17/2007				
5/2/2008				
5/3/2008				
10/22/2008				
5/5/2009				
5/6/2009				
5/7/2009				
5/12/2009				
5/13/2009	0.0009		0.0024 (o)	
5/14/2009		<0.001		
12/1/2009				
12/3/2009	0.00083	<0.001	0.0007	
12/4/2009				
12/5/2009				
5/25/2010				
5/26/2010	<0.001	<0.001	<0.001	
6/1/2010				
6/2/2010				<0.001
11/9/2010	<0.001	<0.001	<0.001	
11/10/2010				<0.001
5/18/2011		<0.001		
5/19/2011	<0.001		<0.001	<0.001
5/24/2011				
5/25/2011				
5/17/2012	<0.001	<0.001	<0.001	
5/18/2012				
5/30/2012				<0.001
5/31/2012				
11/9/2012	<0.001	<0.001	<0.001	
11/10/2012				
11/11/2012				<0.001
5/7/2013	<0.001	<0.001	<0.001	
5/8/2013				

Prediction Limit

Constituent: Silver (mg/L) Analysis Run 6/8/2020 8:43 AM View: Appendix I
Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-10	ARGWC-8	ARGWC-9	ARGWA-14 (bg)
5/9/2013				<0.001
5/13/2013				
11/5/2013		<0.001		
11/6/2013	<0.001		<0.001	
11/11/2013				<0.001
11/12/2013				
5/20/2014	<0.001			
5/21/2014		<0.001	<0.001	
5/28/2014				
5/29/2014				<0.001
11/17/2014				
11/18/2014	<0.001	<0.001	<0.001	
11/19/2014				<0.001
11/20/2014				
4/7/2015	<0.001	<0.001	<0.001	
4/14/2015				<0.001
4/15/2015				
10/28/2015	<0.001	<0.001	<0.001	
10/29/2015				
11/3/2015				
11/4/2015				<0.001
6/23/2016	<0.001	<0.001	<0.001	<0.001
6/24/2016				
10/24/2016				
10/25/2016	<0.001		<0.001	<0.001
10/26/2016		<0.001		
4/11/2017				<0.001
4/12/2017	<0.001	<0.001	<0.001	
10/25/2017			<0.001	<0.001
10/26/2017	<0.001	<0.001		
4/9/2018				<0.001
4/10/2018				
4/11/2018	<0.001	<0.001	<0.001	
10/16/2018				<0.001
10/17/2018	<0.001	<0.001	<0.001	
3/26/2019				
3/27/2019				<0.001
3/28/2019	<0.001	<0.001	<0.001	
10/7/2019				0.00022 (J)
10/8/2019				
10/9/2019	<0.001	<0.001	<0.001	
4/6/2020				<0.001
4/7/2020				
4/8/2020	<0.001			
4/9/2020		<0.001	<0.001	

FIGURE F.

Appendix I & Appendix III Trend Tests - Significant Results

Plant Arkwright Client: Southern Company Data: Arkwright No 3 Printed 6/8/2020, 8:28 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Lead (mg/L)	ARGWA-3 (bg)	0	-4.801	-2.33	Yes	47	74.47	n/a	n/a	0.02	NP
Lead (mg/L)	ARGWA-5 (bg)	0	-2.887	-2.33	Yes	48	91.67	n/a	n/a	0.02	NP
pH (SU)	ARGWC-17	-0.1036	-42	-35	Yes	12	0	n/a	n/a	0.02	NP

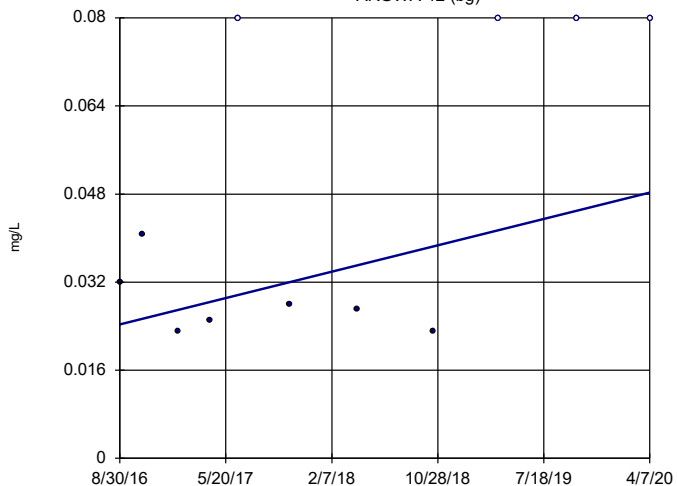
Appendix I & Appendix III Trend Tests - All Results

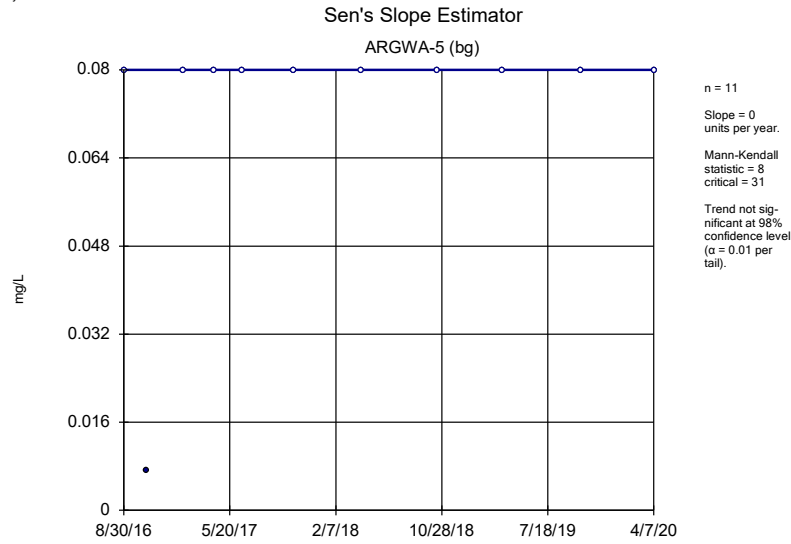
Plant Arkwright Client: Southern Company Data: Arkwright No 3 Printed 6/8/2020, 8:28 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	ARGWA-12 (bg)	0.006636	14	31	No	11	36.36	n/a	n/a	0.02	NP
Boron (mg/L)	ARGWA-13 (bg)	0.08562	23	31	No	11	0	n/a	n/a	0.02	NP
Boron (mg/L)	ARGWA-14 (bg)	0.0005014	7	31	No	11	9.091	n/a	n/a	0.02	NP
Boron (mg/L)	ARGWA-3 (bg)	0	8	31	No	11	90.91	n/a	n/a	0.02	NP
Boron (mg/L)	ARGWA-5 (bg)	0	8	31	No	11	90.91	n/a	n/a	0.02	NP
Boron (mg/L)	ARGWC-18	-0.03339	-6	-31	No	11	0	n/a	n/a	0.02	NP
Boron (mg/L)	ARGWC-8	-0.03219	-14	-31	No	11	0	n/a	n/a	0.02	NP
Lead (mg/L)	ARGWA-12 (bg)	0	-6	-112	No	27	96.3	n/a	n/a	0.02	NP
Lead (mg/L)	ARGWA-13 (bg)	0	-24	-112	No	27	96.3	n/a	n/a	0.02	NP
Lead (mg/L)	ARGWA-14 (bg)	0	-13	-101	No	25	92	n/a	n/a	0.02	NP
Lead (mg/L)	ARGWA-3 (bg)	0	-4.801	-2.33	Yes	47	74.47	n/a	n/a	0.02	NP
Lead (mg/L)	ARGWA-5 (bg)	0	-2.887	-2.33	Yes	48	91.67	n/a	n/a	0.02	NP
Lead (mg/L)	ARGWC-10	0	26	112	No	27	96.3	n/a	n/a	0.02	NP
pH (SU)	ARGWA-12 (bg)	-0.01337	-8	-31	No	11	0	n/a	n/a	0.02	NP
pH (SU)	ARGWA-13 (bg)	-0.01375	-3	-31	No	11	0	n/a	n/a	0.02	NP
pH (SU)	ARGWA-14 (bg)	-0.02589	-9	-31	No	11	0	n/a	n/a	0.02	NP
pH (SU)	ARGWA-3 (bg)	-0.006595	-2	-35	No	12	0	n/a	n/a	0.02	NP
pH (SU)	ARGWA-5 (bg)	-0.03695	-11	-35	No	12	0	n/a	n/a	0.02	NP
pH (SU)	ARGWC-16	-0.02992	-12	-35	No	12	0	n/a	n/a	0.02	NP
pH (SU)	ARGWC-17	-0.1036	-42	-35	Yes	12	0	n/a	n/a	0.02	NP

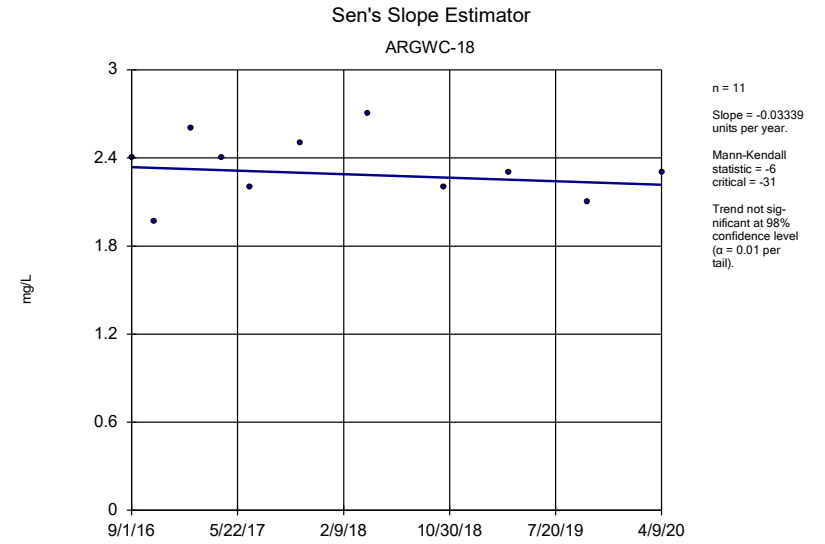
Sen's Slope Estimator

ARGWA-12 (bg)

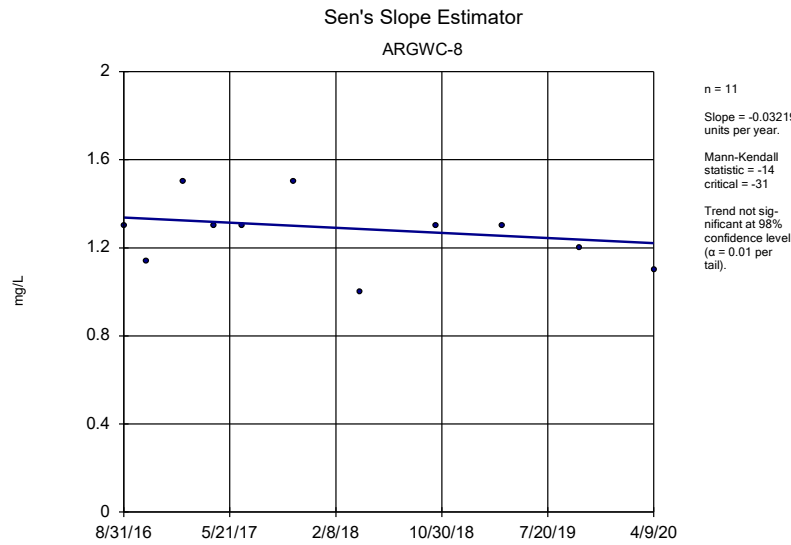




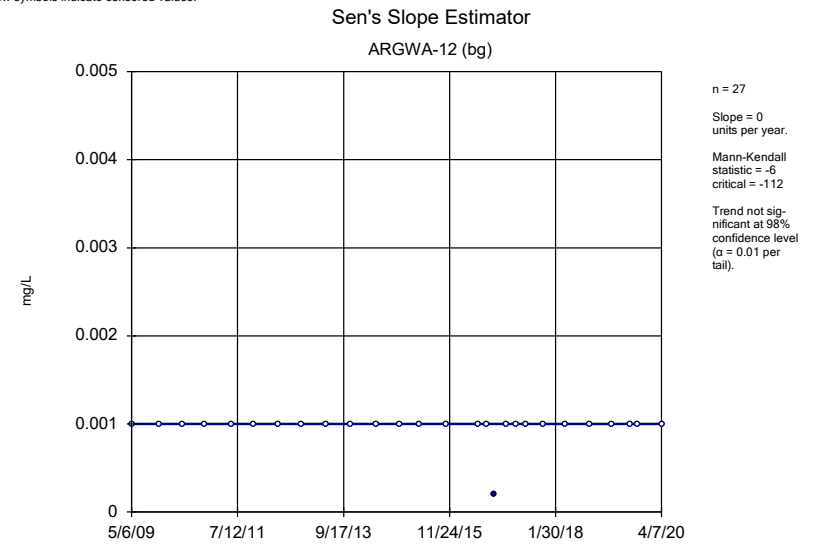
Constituent: Boron Analysis Run 6/8/2020 8:27 AM View: Appendix I & III - Trend Tests
Plant Arkwright Client: Southern Company Data: Arkwright No 3



Constituent: Boron Analysis Run 6/8/2020 8:27 AM View: Appendix I & III - Trend Tests
Plant Arkwright Client: Southern Company Data: Arkwright No 3

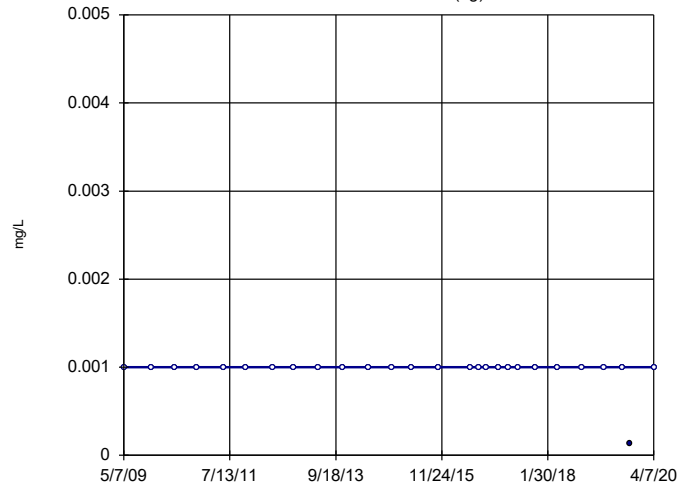


Constituent: Boron Analysis Run 6/8/2020 8:27 AM View: Appendix I & III - Trend Tests
Plant Arkwright Client: Southern Company Data: Arkwright No 3



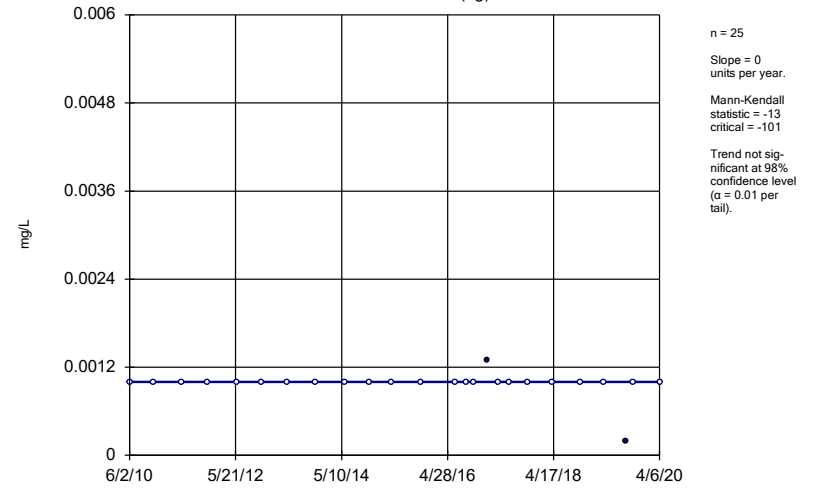
Constituent: Lead Analysis Run 6/8/2020 8:27 AM View: Appendix I & III - Trend Tests
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Sen's Slope Estimator ARGWA-13 (bg)



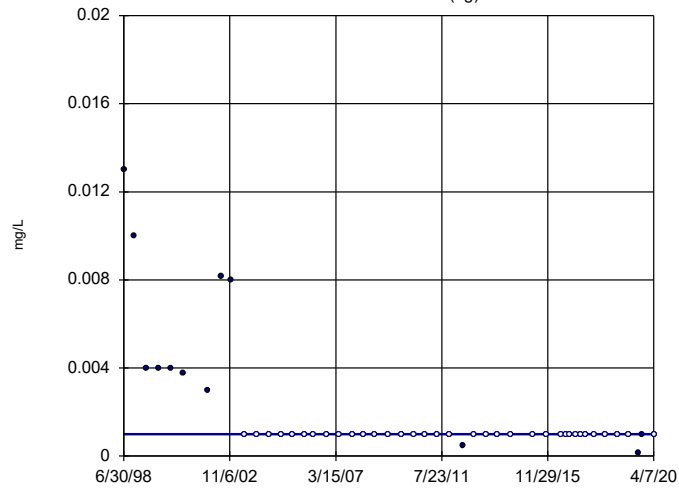
Constituent: Lead Analysis Run 6/8/2020 8:27 AM View: Appendix I & III - Trend Tests
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Sen's Slope Estimator ARGWA-14 (bg)



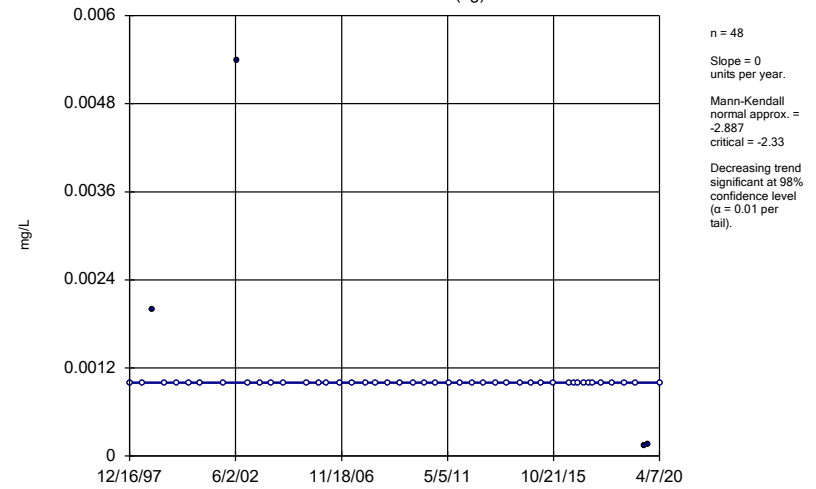
Constituent: Lead Analysis Run 6/8/2020 8:27 AM View: Appendix I & III - Trend Tests
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Sen's Slope Estimator ARGWA-3 (bg)



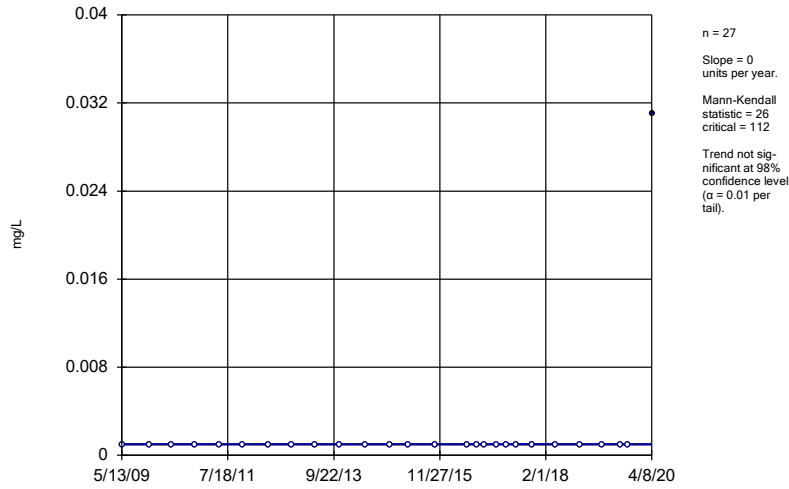
Constituent: Lead Analysis Run 6/8/2020 8:27 AM View: Appendix I & III - Trend Tests
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Sen's Slope Estimator ARGWA-5 (bg)



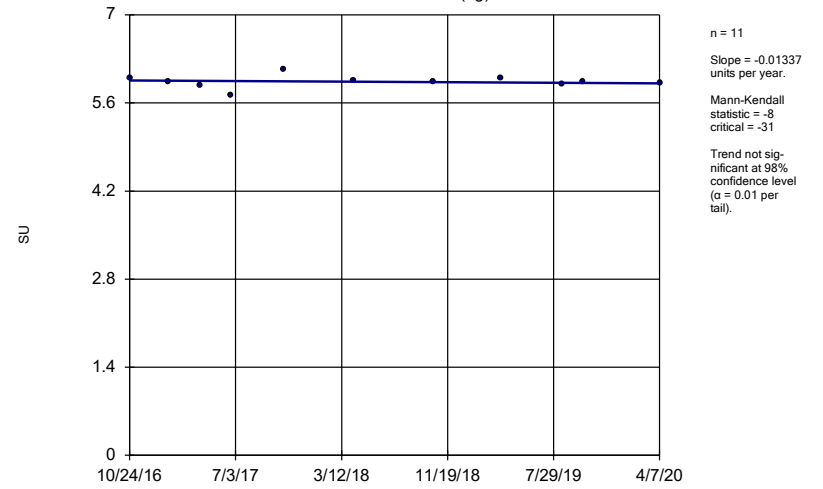
Constituent: Lead Analysis Run 6/8/2020 8:27 AM View: Appendix I & III - Trend Tests
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Sen's Slope Estimator ARGWC-10



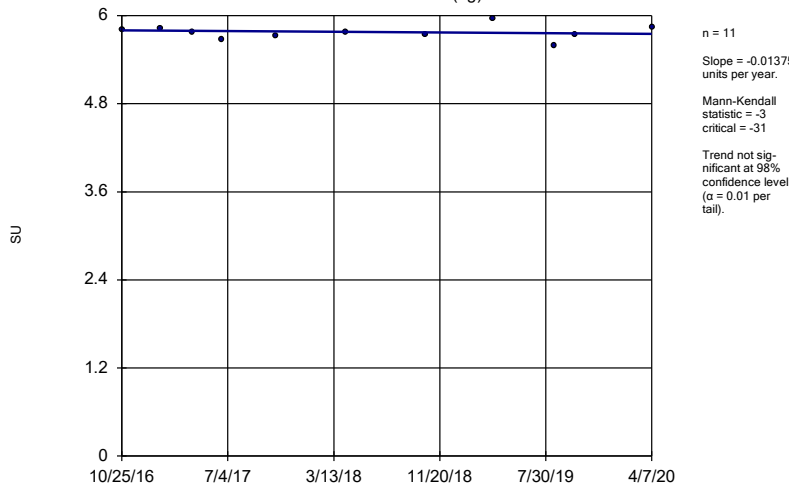
Constituent: Lead Analysis Run 6/8/2020 8:27 AM View: Appendix I & III - Trend Tests
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Sen's Slope Estimator ARGWA-12 (bg)



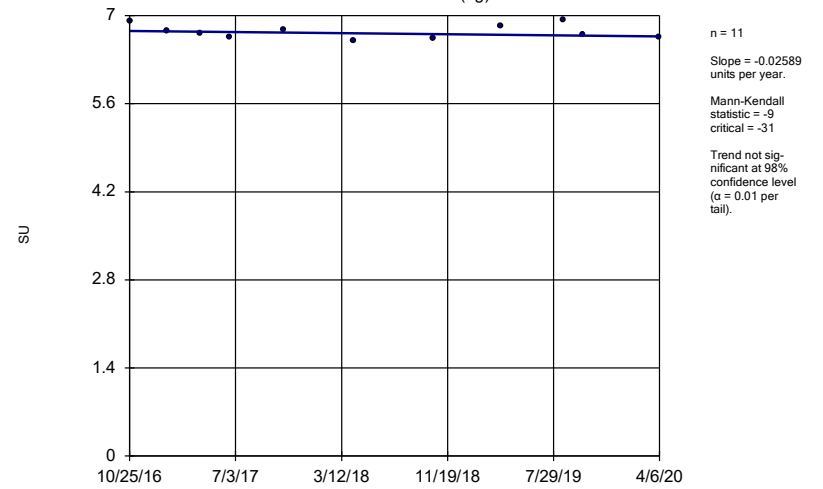
Constituent: pH Analysis Run 6/8/2020 8:27 AM View: Appendix I & III - Trend Tests
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Sen's Slope Estimator ARGWA-13 (bg)



Constituent: pH Analysis Run 6/8/2020 8:27 AM View: Appendix I & III - Trend Tests
Plant Arkwright Client: Southern Company Data: Arkwright No 3

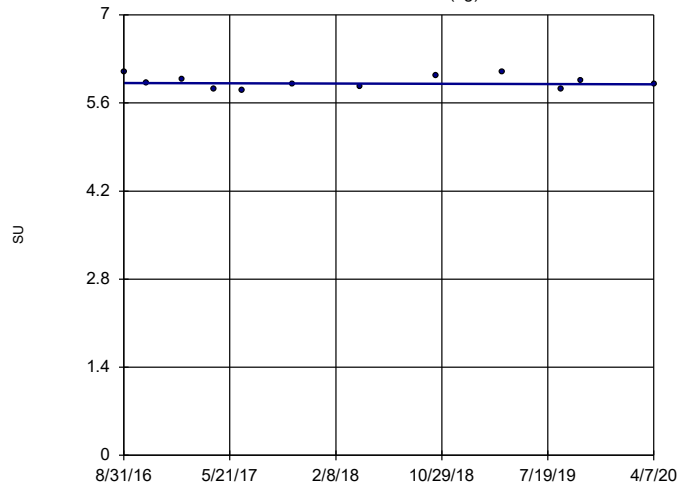
Sen's Slope Estimator ARGWA-14 (bg)



Constituent: pH Analysis Run 6/8/2020 8:27 AM View: Appendix I & III - Trend Tests
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Sen's Slope Estimator

ARGWA-3 (bg)

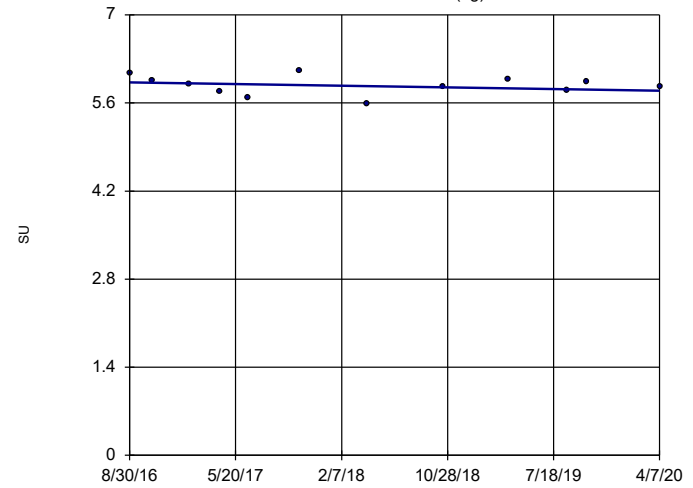


n = 12
 Slope = -0.006595
 units per year.
 Mann-Kendall
 statistic = -2
 critical = -35
 Trend not sig-
 nificant at 98%
 confidence level
 (α = 0.01 per
 tail).

Constituent: pH Analysis Run 6/8/2020 8:27 AM View: Appendix I & III - Trend Tests
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

Sen's Slope Estimator

ARGWA-5 (bg)

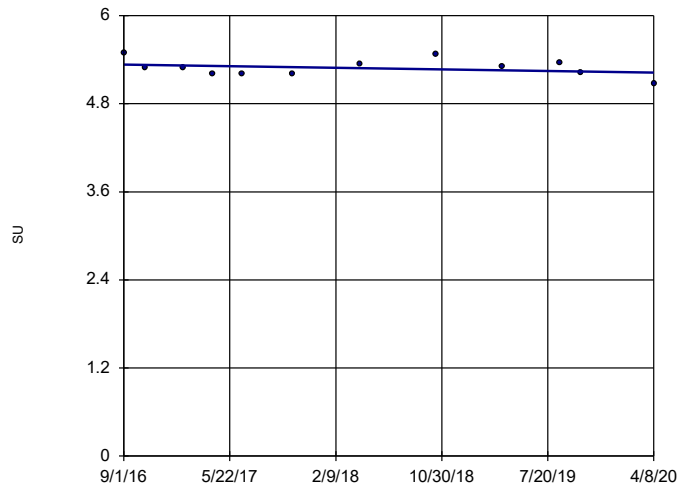


n = 12
 Slope = -0.03695
 units per year.
 Mann-Kendall
 statistic = -11
 critical = -35
 Trend not sig-
 nificant at 98%
 confidence level
 (α = 0.01 per
 tail).

Constituent: pH Analysis Run 6/8/2020 8:27 AM View: Appendix I & III - Trend Tests
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

Sen's Slope Estimator

ARGWC-16

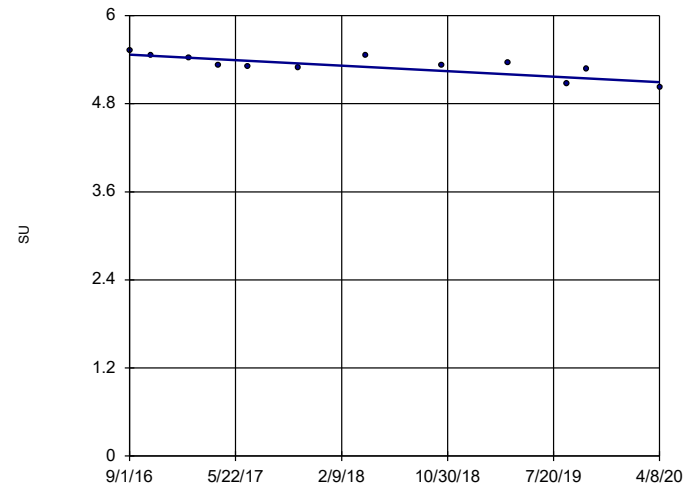


n = 12
 Slope = -0.02992
 units per year.
 Mann-Kendall
 statistic = -12
 critical = -35
 Trend not sig-
 nificant at 98%
 confidence level
 (α = 0.01 per
 tail).

Constituent: pH Analysis Run 6/8/2020 8:27 AM View: Appendix I & III - Trend Tests
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

Sen's Slope Estimator

ARGWC-17



n = 12
 Slope = -0.1036
 units per year.
 Mann-Kendall
 statistic = -42
 critical = -35
 Decreasing trend
 significant at 98%
 confidence level
 (α = 0.01 per
 tail).

Constituent: pH Analysis Run 6/8/2020 8:27 AM View: Appendix I & III - Trend Tests
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

FIGURE G.

Tolerance Limit Summary Table

Plant Arkwright Client: Southern Company Data: Arkwright No 3 Printed 6/8/2020, 9:33 AM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig.</u>	<u>Bg N</u>	<u>Bg Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Antimony (mg/L)	n/a	0.0020	n/a	n/a	n/a	n/a	55	n/a	n/a	96.36	n/a	n/a	0.05954	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.0050	n/a	n/a	n/a	n/a	176	n/a	n/a	78.98	n/a	n/a	NaN	NP Inter(NDs)
Barium (mg/L)	n/a	0.24	n/a	n/a	n/a	n/a	172	n/a	n/a	0	n/a	n/a	NaN	NP Inter(normality)
Beryllium (mg/L)	n/a	0.0025	n/a	n/a	n/a	n/a	55	n/a	n/a	94.55	n/a	n/a	0.05954	NP Inter(NDs)
Cadmium (mg/L)	n/a	0.0043	n/a	n/a	n/a	n/a	173	n/a	n/a	93.64	n/a	n/a	NaN	NP Inter(NDs)
Chromium (mg/L)	n/a	0.010	n/a	n/a	n/a	n/a	55	n/a	n/a	52.73	n/a	n/a	0.05954	NP Inter(NDs)
Cobalt (mg/L)	n/a	0.0025	n/a	n/a	n/a	n/a	55	n/a	n/a	85.45	n/a	n/a	0.05954	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	n/a	1.1	n/a	n/a	n/a	n/a	55	0.4472	0.3011	0	None	No	0.05	Inter
Fluoride (mg/L)	n/a	0.53	n/a	n/a	n/a	n/a	60	n/a	n/a	46.67	n/a	n/a	0.04607	NP Inter(normality)
Lead (mg/L)	n/a	0.013	n/a	n/a	n/a	n/a	174	n/a	n/a	88.51	n/a	n/a	NaN	NP Inter(NDs)
Lithium (mg/L)	n/a	0.0099	n/a	n/a	n/a	n/a	54	n/a	n/a	42.59	n/a	n/a	0.06267	NP Inter(normality)
Mercury (mg/L)	n/a	0.00020	n/a	n/a	n/a	n/a	50	n/a	n/a	94	n/a	n/a	0.07694	NP Inter(NDs)
Molybdenum (mg/L)	n/a	0.015	n/a	n/a	n/a	n/a	55	n/a	n/a	89.09	n/a	n/a	0.05954	NP Inter(NDs)
Selenium (mg/L)	n/a	0.034	n/a	n/a	n/a	n/a	165	n/a	n/a	82.42	n/a	n/a	0.0002111	NP Inter(NDs)
Silver (mg/L)	n/a	0.0051	n/a	n/a	n/a	n/a	149	n/a	n/a	93.29	n/a	n/a	0.0004795	NP Inter(NDs)
Thallium (mg/L)	n/a	0.0010	n/a	n/a	n/a	n/a	55	n/a	n/a	94.55	n/a	n/a	0.05954	NP Inter(NDs)

FIGURE H.

PLANT ARKWRIGHT LF #3 GWPS - FEDERAL				
Constituent Name	MCL	CCR-Rule Specified	Background Limit	GWPS
Antimony, Total (mg/L)	0.006		0.002	0.006
Arsenic, Total (mg/L)	0.01		0.005	0.01
Barium, Total (mg/L)	2		0.24	2
Beryllium, Total (mg/L)	0.004		0.0025	0.004
Cadmium, Total (mg/L)	0.005		0.0043	0.005
Chromium, Total (mg/L)	0.1		0.01	0.1
Cobalt, Total (mg/L)	n/a	0.006	0.0025	0.006
Combined Radium, Total (pCi/L)	5		1.1	5
Fluoride, Total (mg/L)	4		0.53	4
Lead, Total (mg/L)	n/a	0.015	0.013	0.015
Lithium, Total (mg/L)	n/a	0.04	0.0099	0.04
Mercury, Total (mg/L)	0.002		0.0002	0.002
Molybdenum, Total (mg/L)	n/a	0.1	0.015	0.1
Selenium, Total (mg/L)	0.05		0.034	0.05
Silver, Total (mg/L)			0.0051	0.0051
Thallium, Total (mg/L)	0.002		0.001	0.002

**CCR = Coal Combustion Residuals*

**MCL = Maximum Contaminant Level*

**GWPS = Groundwater Protection Standard*

FIGURE I.

PLANT ARKWRIGHT LF #3 GWPS - STATE				
Constituent Name	MCL	CCR-Rule Specified	Background Limit	GWPS
Antimony, Total (mg/L)	0.006		0.002	0.006
Arsenic, Total (mg/L)	0.01		0.005	0.01
Barium, Total (mg/L)	2		0.24	2
Beryllium, Total (mg/L)	0.004		0.0025	0.004
Cadmium, Total (mg/L)	0.005		0.0043	0.005
Chromium, Total (mg/L)	0.1		0.01	0.1
Cobalt, Total (mg/L)	n/a	0.006	0.0025	0.0025
Combined Radium, Total (pCi/L)	5		1.1	5
Fluoride, Total (mg/L)	4		0.53	4
Lead, Total (mg/L)	n/a	0.015	0.013	0.013
Lithium, Total (mg/L)	n/a	0.04	0.0099	0.0099
Mercury, Total (mg/L)	0.002		0.0002	0.002
Molybdenum, Total (mg/L)	n/a	0.1	0.015	0.015
Selenium, Total (mg/L)	0.05		0.034	0.05
Silver, Total (mg/L)			0.0051	0.0051
Thallium, Total (mg/L)	0.002		0.001	0.002

**CCR = Coal Combustion Residuals*

**MCL = Maximum Contaminant Level*

**GWPS = Groundwater Protection Standard*

FIGURE J.

Federal Confidence Intervals - Significant Results

Plant Arkwright Client: Southern Company Data: Arkwright No 3 Printed 6/8/2020, 3:46 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Compliance</u>	<u>Sig. N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Cobalt (mg/L)	ARGWC-17	0.02687	0.01557	0.006	Yes 11	0.02122	0.006783	0	None	No	0.01	Param.

Federal Confidence Intervals - All Results

Plant Arkwright Client: Southern Company Data: Arkwright No 3 Printed 6/8/2020, 3:46 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig. N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	ARGWC-10	0.002	0.002	0.006	No 11	0.001904	0.0003196	90.91	None	No	0.006	NP (NDs)
Antimony (mg/L)	ARGWC-7	0.002	0.002	0.006	No 11	0.001936	0.0002111	90.91	None	No	0.006	NP (NDs)
Antimony (mg/L)	ARGWC-9	0.002	0.002	0.006	No 11	0.001862	0.0004583	90.91	None	No	0.006	NP (NDs)
Arsenic (mg/L)	ARGWC-10	0.0011	0.0004	0.01	No 13	0.001031	0.0003119	76.92	None	No	0.01	NP (NDs)
Arsenic (mg/L)	ARGWC-15	0.001	0.00062	0.01	No 13	0.0009215	0.0001987	84.62	None	No	0.01	NP (NDs)
Arsenic (mg/L)	ARGWC-16	0.001	0.00067	0.01	No 13	0.0009415	0.0001442	76.92	None	No	0.01	NP (NDs)
Arsenic (mg/L)	ARGWC-17	0.0015	0.00084	0.01	No 13	0.0009731	0.000223	69.23	None	No	0.01	NP (NDs)
Arsenic (mg/L)	ARGWC-18	0.0016	0.00066	0.01	No 13	0.0009685	0.0002756	76.92	None	No	0.01	NP (NDs)
Arsenic (mg/L)	ARGWC-7	0.0015	0.00078	0.01	No 13	0.001022	0.0001561	84.62	None	No	0.01	NP (NDs)
Arsenic (mg/L)	ARGWC-8	0.0014	0.00063	0.01	No 13	0.0009315	0.0002456	69.23	None	No	0.01	NP (NDs)
Arsenic (mg/L)	ARGWC-9	0.0011	0.00051	0.01	No 13	0.00097	0.0001409	84.62	None	No	0.01	NP (NDs)
Barium (mg/L)	ARGWC-10	0.03351	0.02966	2	No 13	0.03158	0.00259	0	None	No	0.01	Param.
Barium (mg/L)	ARGWC-15	0.0408	0.028	2	No 13	0.03491	0.01236	0	None	No	0.01	NP (normality)
Barium (mg/L)	ARGWC-16	0.05699	0.04681	2	No 13	0.0519	0.006842	0	None	No	0.01	Param.
Barium (mg/L)	ARGWC-17	0.04769	0.04256	2	No 13	0.04512	0.003449	0	None	No	0.01	Param.
Barium (mg/L)	ARGWC-18	0.03892	0.03414	2	No 13	0.03653	0.003211	0	None	No	0.01	Param.
Barium (mg/L)	ARGWC-7	0.04001	0.03348	2	No 13	0.03675	0.00439	0	None	No	0.01	Param.
Barium (mg/L)	ARGWC-8	0.0481	0.0418	2	No 13	0.04495	0.004235	0	None	No	0.01	Param.
Barium (mg/L)	ARGWC-9	0.04927	0.04342	2	No 13	0.04635	0.003934	0	None	No	0.01	Param.
Beryllium (mg/L)	ARGWC-16	0.0025	0.0025	0.004	No 11	0.002297	0.0006724	90.91	None	No	0.006	NP (NDs)
Beryllium (mg/L)	ARGWC-17	0.0025	0.00025	0.004	No 11	0.001527	0.001127	54.55	None	No	0.006	NP (NDs)
Beryllium (mg/L)	ARGWC-18	0.0025	0.0025	0.004	No 11	0.002304	0.0006513	90.91	None	No	0.006	NP (NDs)
Beryllium (mg/L)	ARGWC-7	0.0025	0.00041	0.004	No 11	0.002092	0.0009108	81.82	None	No	0.006	NP (NDs)
Beryllium (mg/L)	ARGWC-8	0.0025	0.0025	0.004	No 11	0.002315	0.0006121	90.91	None	No	0.006	NP (NDs)
Beryllium (mg/L)	ARGWC-9	0.0025	0.0025	0.004	No 11	0.002306	0.0006422	90.91	None	No	0.006	NP (NDs)
Cadmium (mg/L)	ARGWC-16	0.0025	0.0001	0.005	No 13	0.002315	0.0006656	92.31	None	No	0.01	NP (NDs)
Cadmium (mg/L)	ARGWC-17	0.0025	0.00013	0.005	No 13	0.001955	0.001037	76.92	None	No	0.01	NP (NDs)
Chromium (mg/L)	ARGWC-10	0.005789	0.004193	0.1	No 11	0.004991	0.0009576	0	None	No	0.01	Param.
Chromium (mg/L)	ARGWC-15	0.002	0.002	0.1	No 11	0.002582	0.002031	81.82	None	No	0.006	NP (NDs)
Chromium (mg/L)	ARGWC-16	0.002294	0.001542	0.1	No 11	0.001918	0.0004513	0	None	No	0.01	Param.
Chromium (mg/L)	ARGWC-17	0.002	0.0016	0.1	No 11	0.001909	0.0002386	72.73	None	No	0.006	NP (NDs)
Chromium (mg/L)	ARGWC-7	0.003976	0.003006	0.1	No 11	0.003491	0.0005822	0	None	No	0.01	Param.
Chromium (mg/L)	ARGWC-8	0.002	0.0017	0.1	No 11	0.001927	0.0001679	81.82	None	No	0.006	NP (NDs)
Chromium (mg/L)	ARGWC-9	0.01083	0.008713	0.1	No 11	0.009773	0.001272	0	None	No	0.01	Param.
Cobalt (mg/L)	ARGWC-10	0.0025	0.00019	0.006	No 11	0.002078	0.0009385	81.82	None	No	0.006	NP (NDs)
Cobalt (mg/L)	ARGWC-15	0.005687	0.0001022	0.006	No 11	0.005089	0.008801	36.36	Kaplan-Meier	x^(1/3)	0.01	Param.
Cobalt (mg/L)	ARGWC-16	0.0025	0.00026	0.006	No 11	0.002084	0.0009266	81.82	Kaplan-Meier	No	0.006	NP (NDs)
Cobalt (mg/L)	ARGWC-17	0.02687	0.01557	0.006	Yes 11	0.02122	0.006783	0	None	No	0.01	Param.
Cobalt (mg/L)	ARGWC-18	0.001657	0.001089	0.006	No 11	0.001373	0.0003406	0	None	No	0.01	Param.
Cobalt (mg/L)	ARGWC-7	0.0025	0.00034	0.006	No 11	0.002084	0.0009269	81.82	None	No	0.006	NP (NDs)
Cobalt (mg/L)	ARGWC-8	0.0025	0.00021	0.006	No 11	0.001886	0.001053	72.73	None	No	0.006	NP (NDs)
Cobalt (mg/L)	ARGWC-9	0.0025	0.00021	0.006	No 11	0.002078	0.0009386	81.82	None	No	0.006	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	ARGWC-10	0.3626	-0.04499	5	No 11	0.1588	0.2446	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	ARGWC-15	1.026	0.2769	5	No 11	0.7474	0.7703	0	None	ln(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	ARGWC-16	0.79	0.0598	5	No 11	0.4519	0.4358	0	None	No	0.006	NP (normality)
Combined Radium 226 + 228 (pCi/L)	ARGWC-17	0.8068	0.07236	5	No 11	0.4396	0.4407	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	ARGWC-18	0.6264	0.2145	5	No 11	0.4204	0.2472	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	ARGWC-7	0.4946	0.1588	5	No 11	0.3267	0.2015	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	ARGWC-8	0.4129	0.1117	5	No 11	0.2623	0.1807	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	ARGWC-9	0.4245	0.06987	5	No 11	0.2472	0.2128	0	None	No	0.01	Param.
Fluoride (mg/L)	ARGWC-10	0.2	0.047	4	No 12	0.1418	0.07376	58.33	None	No	0.01	NP (NDs)
Fluoride (mg/L)	ARGWC-15	0.178	0.05881	4	No 12	0.1681	0.07651	33.33	Kaplan-Meier	No	0.01	Param.
Fluoride (mg/L)	ARGWC-16	0.2	0.033	4	No 12	0.1496	0.07541	66.67	Kaplan-Meier	No	0.01	NP (NDs)
Fluoride (mg/L)	ARGWC-17	0.2	0.031	4	No 12	0.1495	0.0756	66.67	Kaplan-Meier	No	0.01	NP (NDs)
Fluoride (mg/L)	ARGWC-18	0.1022	0.07292	4	No 11	0.08755	0.01755	0	None	No	0.01	Param.

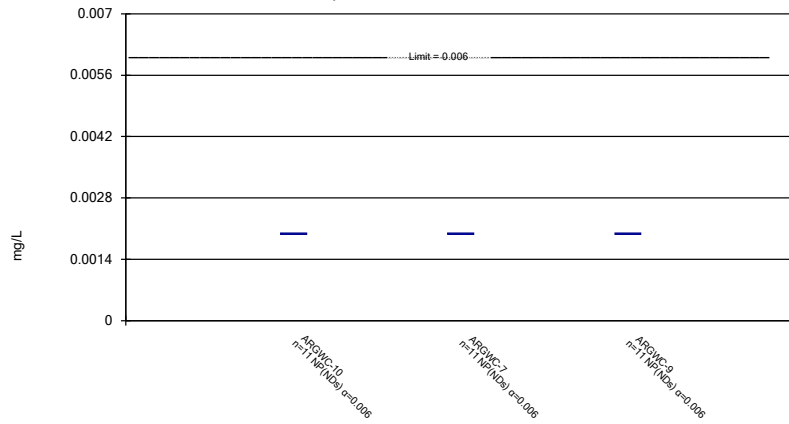
Federal Confidence Intervals - All Results

Plant Arkwright Client: Southern Company Data: Arkwright No 3 Printed 6/8/2020, 3:46 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride (mg/L)	ARGWC-7	0.2	0.032	4	No	12	0.1595	0.07385	75	None	No	0.01	NP (NDs)
Fluoride (mg/L)	ARGWC-8	0.1461	0.1056	4	No	11	0.1258	0.02432	0	None	No	0.01	Param.
Fluoride (mg/L)	ARGWC-9	0.2	0.038	4	No	12	0.1612	0.07071	66.67	None	No	0.01	NP (NDs)
Lead (mg/L)	ARGWC-10	0.031	0.001	0.015	No	13	0.003308	0.008321	92.31	None	No	0.01	NP (NDs)
Lead (mg/L)	ARGWC-15	0.0016	0.0003	0.015	No	13	0.001346	0.001306	76.92	None	No	0.01	NP (NDs)
Lead (mg/L)	ARGWC-18	0.001	0.0002	0.015	No	13	0.0009385	0.0002219	92.31	None	No	0.01	NP (NDs)
Lead (mg/L)	ARGWC-8	0.001	0.00019	0.015	No	13	0.0009377	0.0002247	92.31	None	No	0.01	NP (NDs)
Lead (mg/L)	ARGWC-9	0.001	0.00016	0.015	No	13	0.0009354	0.000233	92.31	None	No	0.01	NP (NDs)
Lithium (mg/L)	ARGWC-10	0.005	0.0015	0.04	No	11	0.004373	0.001529	72.73	None	No	0.006	NP (NDs)
Lithium (mg/L)	ARGWC-15	0.005	0.0029	0.04	No	11	0.004445	0.0009234	63.64	None	No	0.006	NP (NDs)
Lithium (mg/L)	ARGWC-16	0.005	0.0031	0.04	No	11	0.004755	0.001458	72.73	None	No	0.006	NP (NDs)
Lithium (mg/L)	ARGWC-17	0.005	0.0023	0.04	No	11	0.004618	0.001518	72.73	None	No	0.006	NP (NDs)
Lithium (mg/L)	ARGWC-18	0.0062	0.0036	0.04	No	11	0.005164	0.002734	9.091	None	No	0.006	NP (normality)
Lithium (mg/L)	ARGWC-7	0.004709	0.002366	0.04	No	11	0.004536	0.001643	36.36	Kaplan-Meier	sqrt(x)	0.01	Param.
Lithium (mg/L)	ARGWC-8	0.004992	0.002802	0.04	No	11	0.0045	0.001325	36.36	Kaplan-Meier	No	0.01	Param.
Lithium (mg/L)	ARGWC-9	0.005	0.005	0.04	No	11	0.0051	0.0003317	90.91	Kaplan-Meier	No	0.006	NP (NDs)
Mercury (mg/L)	ARGWC-10	0.0002	0.0002	0.002	No	10	0.0001877	0.0000389	90	None	No	0.011	NP (NDs)
Mercury (mg/L)	ARGWC-15	0.0002	0.0002	0.002	No	10	0.0001871	0.00004079	90	None	No	0.011	NP (NDs)
Mercury (mg/L)	ARGWC-16	0.0002	0.000079	0.002	No	10	0.000134	0.00005779	40	None	No	0.011	NP (normality)
Mercury (mg/L)	ARGWC-18	0.0002	0.0002	0.002	No	10	0.0001874	0.00003984	90	None	No	0.011	NP (NDs)
Mercury (mg/L)	ARGWC-7	0.0002	0.0002	0.002	No	10	0.000187	0.00004111	90	None	No	0.011	NP (NDs)
Mercury (mg/L)	ARGWC-8	0.0002	0.0002	0.002	No	10	0.0001881	0.00003763	90	None	No	0.011	NP (NDs)
Molybdenum (mg/L)	ARGWC-15	0.015	0.00097	0.1	No	11	0.008729	0.007209	54.55	None	No	0.006	NP (NDs)
Molybdenum (mg/L)	ARGWC-8	0.04416	0.03535	0.1	No	11	0.03979	0.005466	0	None	sqrt(x)	0.01	Param.
Selenium (mg/L)	ARGWC-15	0.005	0.00044	0.05	No	13	0.003949	0.001997	76.92	None	No	0.01	NP (NDs)
Selenium (mg/L)	ARGWC-16	0.002037	0.0009332	0.05	No	13	0.001598	0.001112	7.692	None	ln(x)	0.01	Param.
Selenium (mg/L)	ARGWC-7	0.005	0.00029	0.05	No	13	0.004638	0.001306	92.31	None	No	0.01	NP (NDs)
Selenium (mg/L)	ARGWC-9	0.005	0.00029	0.05	No	13	0.004272	0.001778	84.62	None	No	0.01	NP (NDs)
Thallium (mg/L)	ARGWC-15	0.001	0.001	0.002	No	11	0.0009177	0.0002729	90.91	None	No	0.006	NP (NDs)

Non-Parametric Confidence Interval

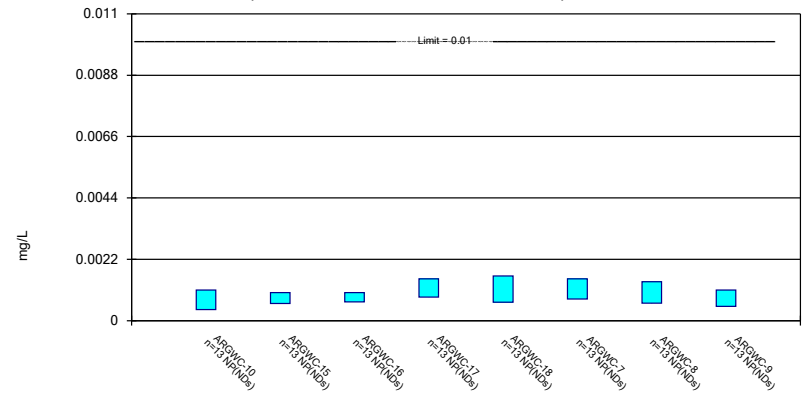
Compliance Limit is not exceeded.



Constituent: Antimony Analysis Run 6/8/2020 3:45 PM View: Appendix I & IV
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

Non-Parametric Confidence Interval

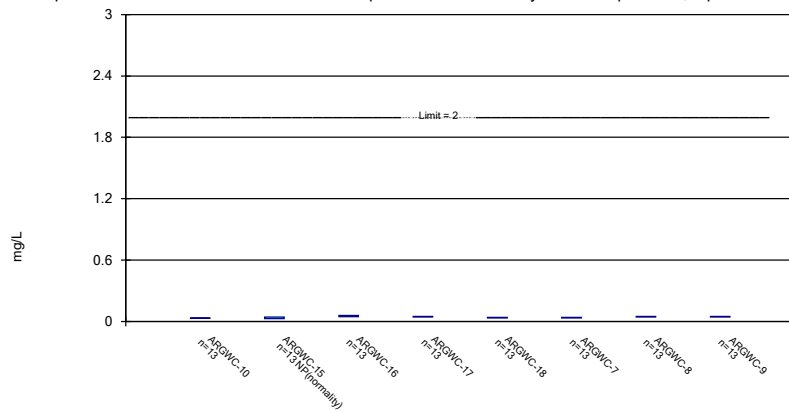
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Arsenic Analysis Run 6/8/2020 3:45 PM View: Appendix I & IV
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

Parametric and Non-Parametric (NP) Confidence Interval

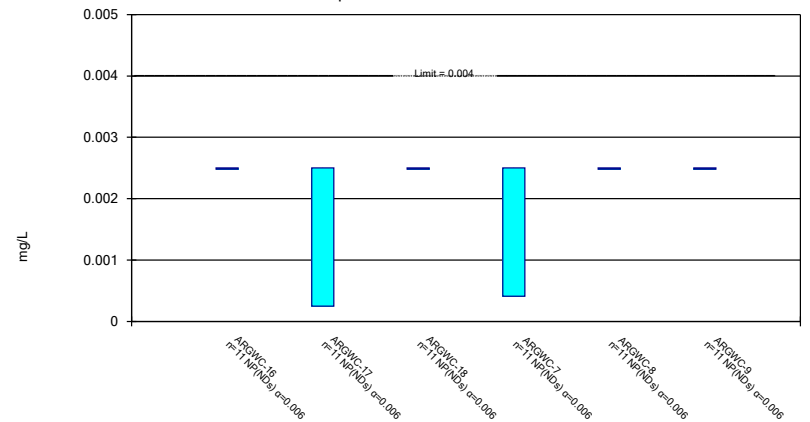
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 6/8/2020 3:45 PM View: Appendix I & IV
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

Non-Parametric Confidence Interval

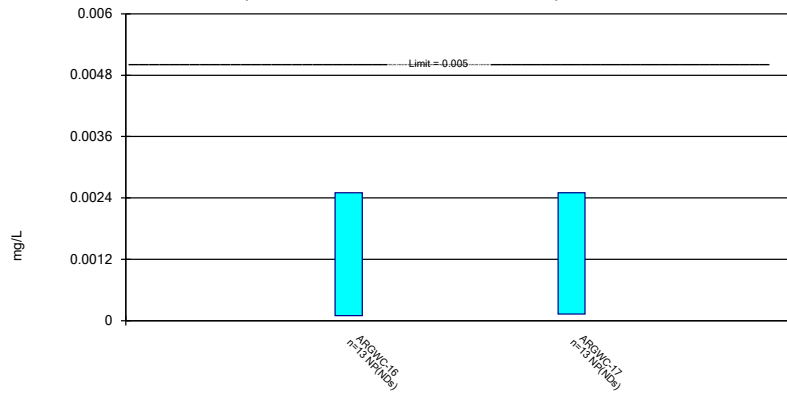
Compliance Limit is not exceeded.



Constituent: Beryllium Analysis Run 6/8/2020 3:45 PM View: Appendix I & IV
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

Non-Parametric Confidence Interval

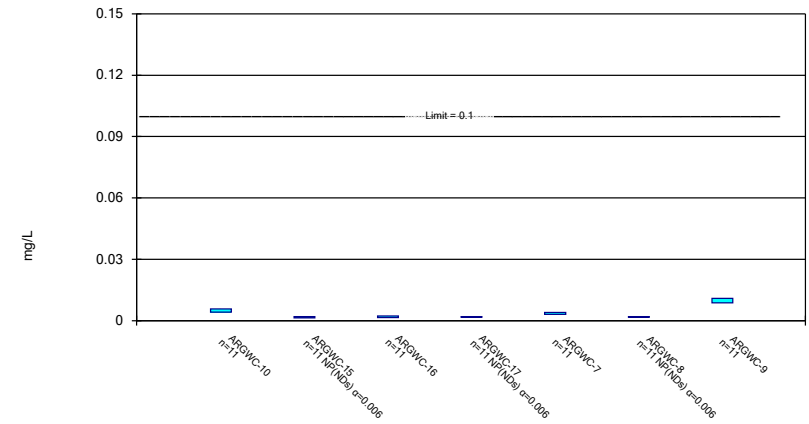
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Cadmium Analysis Run 6/8/2020 3:45 PM View: Appendix I & IV
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

Parametric and Non-Parametric (NP) Confidence Interval

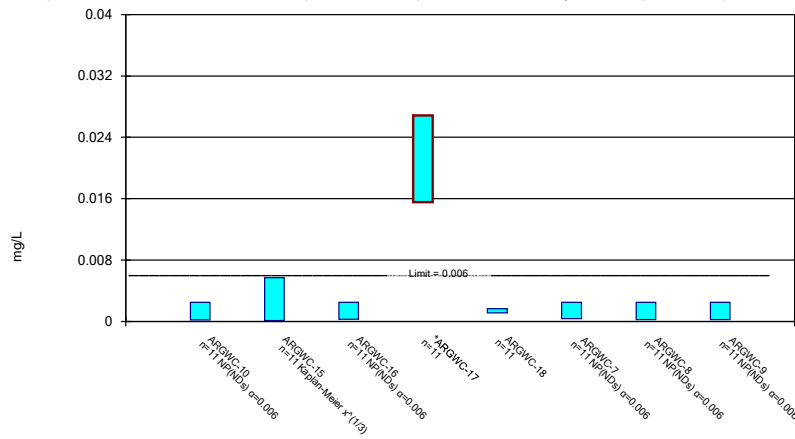
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Chromium Analysis Run 6/8/2020 3:45 PM View: Appendix I & IV
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

Parametric and Non-Parametric (NP) Confidence Interval

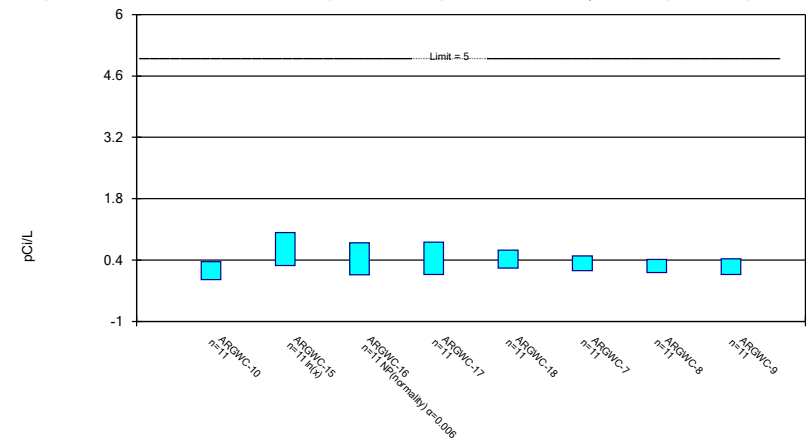
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 6/8/2020 3:45 PM View: Appendix I & IV
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

Parametric and Non-Parametric (NP) Confidence Interval

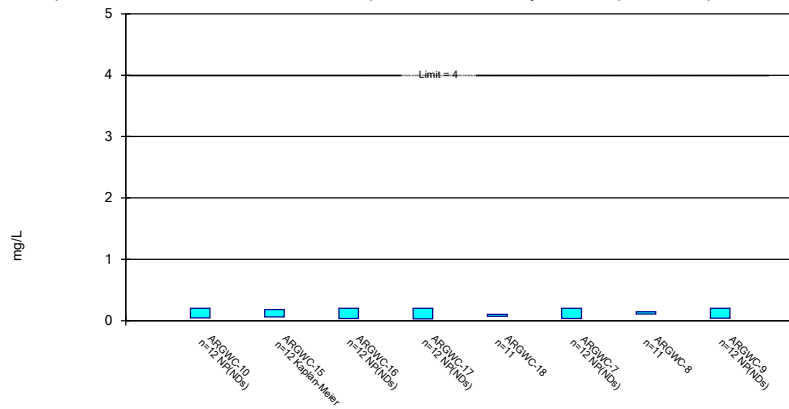
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 6/8/2020 3:45 PM View: Appendix I & IV
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

Parametric and Non-Parametric (NP) Confidence Interval

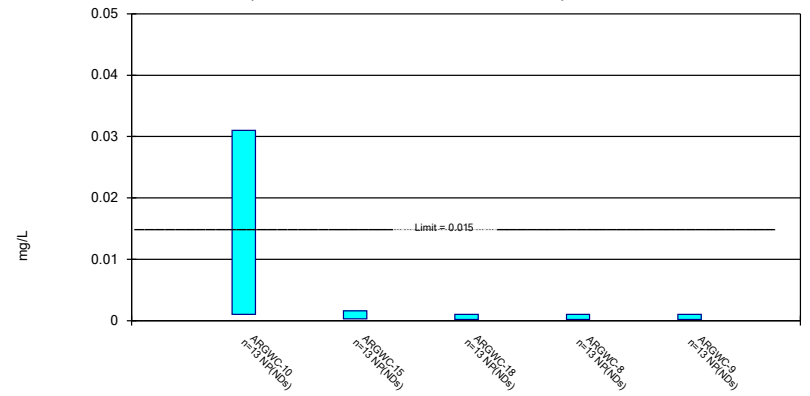
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 6/8/2020 3:45 PM View: Appendix I & IV
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

Non-Parametric Confidence Interval

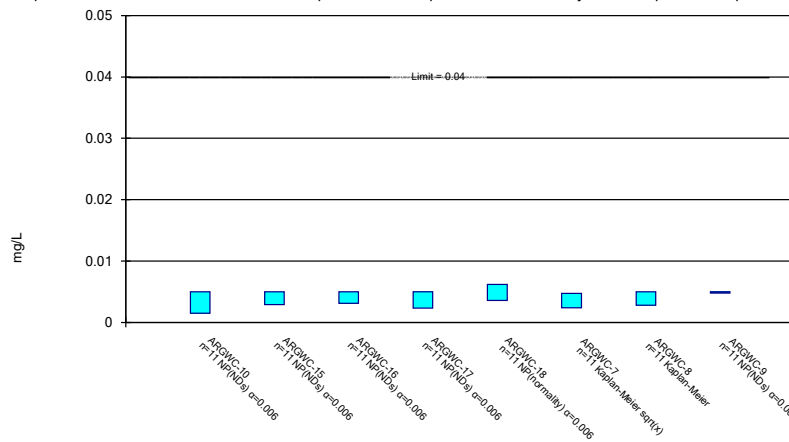
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 6/8/2020 3:45 PM View: Appendix I & IV
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

Parametric and Non-Parametric (NP) Confidence Interval

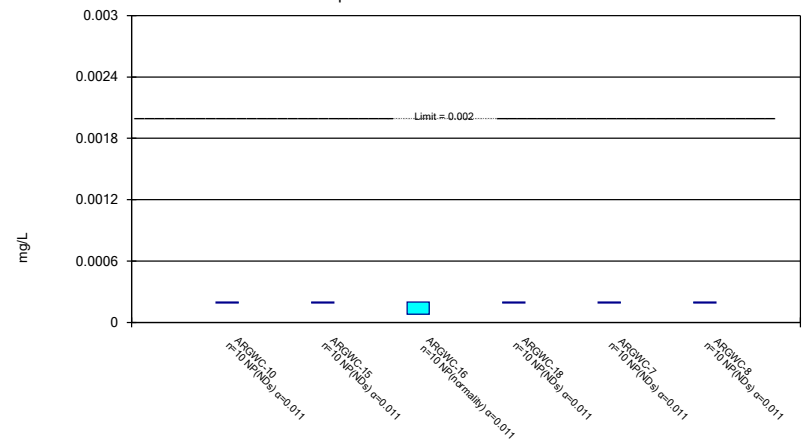
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 6/8/2020 3:45 PM View: Appendix I & IV
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

Non-Parametric Confidence Interval

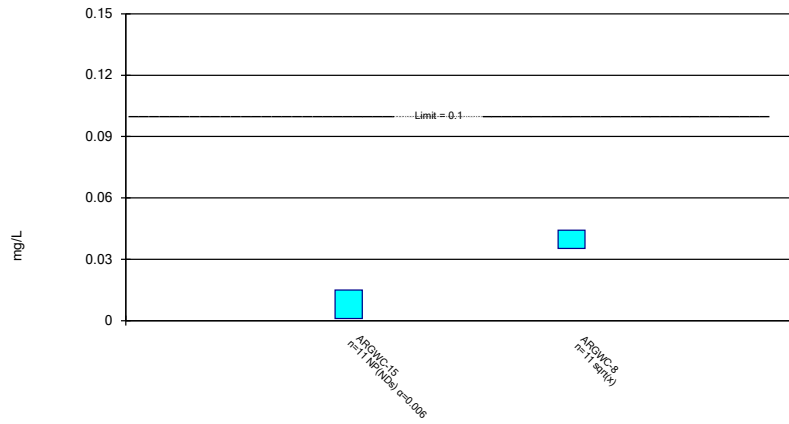
Compliance Limit is not exceeded.



Constituent: Mercury Analysis Run 6/8/2020 3:45 PM View: Appendix I & IV
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

Parametric and Non-Parametric (NP) Confidence Interval

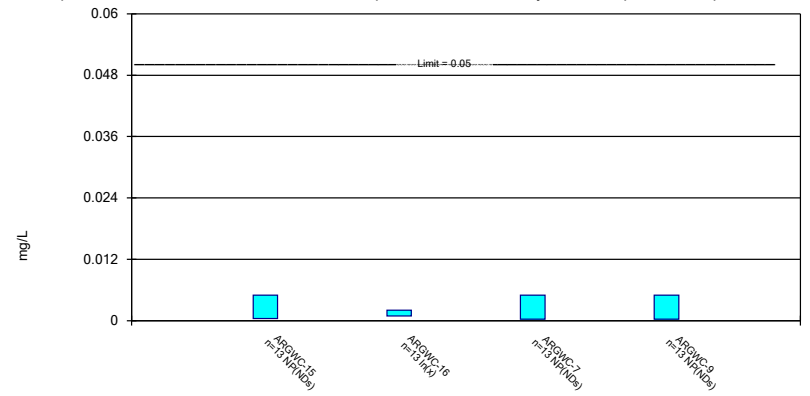
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 6/8/2020 3:45 PM View: Appendix I & IV
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

Parametric and Non-Parametric (NP) Confidence Interval

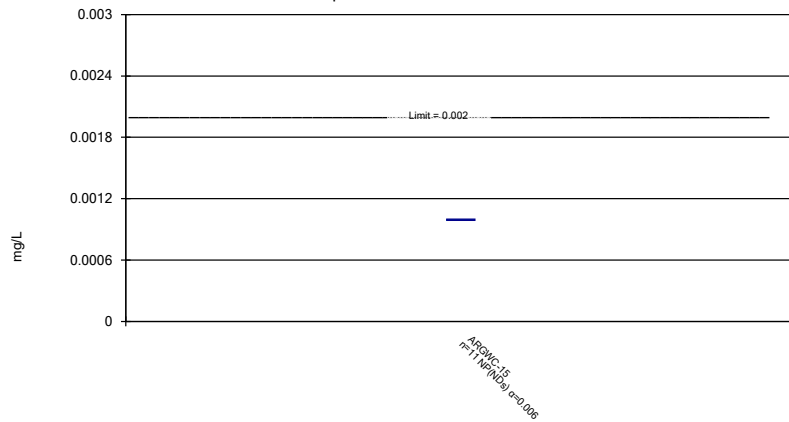
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 6/8/2020 3:45 PM View: Appendix I & IV
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Constituent: Thallium Analysis Run 6/8/2020 3:45 PM View: Appendix I & IV
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

FIGURE K.

State Confidence Intervals - Significant Results

Plant Arkwright Client: Southern Company Data: Arkwright No 3 Printed 6/25/2020, 11:42 AM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Compliance</u>	<u>Sig. N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Cobalt (mg/L)	ARGWC-17	0.02687	0.01557	0.0025	Yes 11	0.02122	0.006783	0	None	No	0.01	Param.
Molybdenum (mg/L)	ARGWC-8	0.04416	0.03535	0.015	Yes 11	0.03979	0.005466	0	None	sqrt(x)	0.01	Param.

State Confidence Intervals - All Results

Plant Arkwright Client: Southern Company Data: Arkwright No 3 Printed 6/25/2020, 11:42 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig. N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	ARGWC-10	0.002	0.002	0.006	No 11	0.001904	0.0003196	90.91	None	No	0.006	NP (NDs)
Antimony (mg/L)	ARGWC-7	0.002	0.002	0.006	No 11	0.001936	0.0002111	90.91	None	No	0.006	NP (NDs)
Antimony (mg/L)	ARGWC-9	0.002	0.002	0.006	No 11	0.001862	0.0004583	90.91	None	No	0.006	NP (NDs)
Arsenic (mg/L)	ARGWC-10	0.0011	0.0004	0.01	No 13	0.001031	0.0003119	76.92	None	No	0.01	NP (NDs)
Arsenic (mg/L)	ARGWC-15	0.001	0.00062	0.01	No 13	0.0009215	0.0001987	84.62	None	No	0.01	NP (NDs)
Arsenic (mg/L)	ARGWC-16	0.001	0.00067	0.01	No 13	0.0009415	0.0001442	76.92	None	No	0.01	NP (NDs)
Arsenic (mg/L)	ARGWC-17	0.0015	0.00084	0.01	No 13	0.0009731	0.000223	69.23	None	No	0.01	NP (NDs)
Arsenic (mg/L)	ARGWC-18	0.0016	0.00066	0.01	No 13	0.0009685	0.0002756	76.92	None	No	0.01	NP (NDs)
Arsenic (mg/L)	ARGWC-7	0.0015	0.00078	0.01	No 13	0.001022	0.0001561	84.62	None	No	0.01	NP (NDs)
Arsenic (mg/L)	ARGWC-8	0.0014	0.00063	0.01	No 13	0.0009315	0.0002456	69.23	None	No	0.01	NP (NDs)
Arsenic (mg/L)	ARGWC-9	0.0011	0.00051	0.01	No 13	0.00097	0.0001409	84.62	None	No	0.01	NP (NDs)
Barium (mg/L)	ARGWC-10	0.03351	0.02966	2	No 13	0.03158	0.00259	0	None	No	0.01	Param.
Barium (mg/L)	ARGWC-15	0.0408	0.028	2	No 13	0.03491	0.01236	0	None	No	0.01	NP (normality)
Barium (mg/L)	ARGWC-16	0.05699	0.04681	2	No 13	0.0519	0.006842	0	None	No	0.01	Param.
Barium (mg/L)	ARGWC-17	0.04769	0.04256	2	No 13	0.04512	0.003449	0	None	No	0.01	Param.
Barium (mg/L)	ARGWC-18	0.03892	0.03414	2	No 13	0.03653	0.003211	0	None	No	0.01	Param.
Barium (mg/L)	ARGWC-7	0.04001	0.03348	2	No 13	0.03675	0.00439	0	None	No	0.01	Param.
Barium (mg/L)	ARGWC-8	0.0481	0.0418	2	No 13	0.04495	0.004235	0	None	No	0.01	Param.
Barium (mg/L)	ARGWC-9	0.04927	0.04342	2	No 13	0.04635	0.003934	0	None	No	0.01	Param.
Beryllium (mg/L)	ARGWC-16	0.0025	0.0025	0.004	No 11	0.002297	0.0006724	90.91	None	No	0.006	NP (NDs)
Beryllium (mg/L)	ARGWC-17	0.0025	0.00025	0.004	No 11	0.001527	0.001127	54.55	None	No	0.006	NP (NDs)
Beryllium (mg/L)	ARGWC-18	0.0025	0.0025	0.004	No 11	0.002304	0.0006513	90.91	None	No	0.006	NP (NDs)
Beryllium (mg/L)	ARGWC-7	0.0025	0.00041	0.004	No 11	0.002092	0.0009108	81.82	None	No	0.006	NP (NDs)
Beryllium (mg/L)	ARGWC-8	0.0025	0.0025	0.004	No 11	0.002315	0.0006121	90.91	None	No	0.006	NP (NDs)
Beryllium (mg/L)	ARGWC-9	0.0025	0.0025	0.004	No 11	0.002306	0.0006422	90.91	None	No	0.006	NP (NDs)
Cadmium (mg/L)	ARGWC-16	0.0025	0.0001	0.005	No 13	0.002315	0.0006656	92.31	None	No	0.01	NP (NDs)
Cadmium (mg/L)	ARGWC-17	0.0025	0.00013	0.005	No 13	0.001955	0.001037	76.92	None	No	0.01	NP (NDs)
Chromium (mg/L)	ARGWC-10	0.005789	0.004193	0.1	No 11	0.004991	0.0009576	0	None	No	0.01	Param.
Chromium (mg/L)	ARGWC-15	0.002	0.002	0.1	No 11	0.002582	0.002031	81.82	None	No	0.006	NP (NDs)
Chromium (mg/L)	ARGWC-16	0.002294	0.001542	0.1	No 11	0.001918	0.0004513	0	None	No	0.01	Param.
Chromium (mg/L)	ARGWC-17	0.002	0.0016	0.1	No 11	0.001909	0.0002386	72.73	None	No	0.006	NP (NDs)
Chromium (mg/L)	ARGWC-7	0.003976	0.003006	0.1	No 11	0.003491	0.0005822	0	None	No	0.01	Param.
Chromium (mg/L)	ARGWC-8	0.002	0.0017	0.1	No 11	0.001927	0.0001679	81.82	None	No	0.006	NP (NDs)
Chromium (mg/L)	ARGWC-9	0.01083	0.008713	0.1	No 11	0.009773	0.001272	0	None	No	0.01	Param.
Cobalt (mg/L)	ARGWC-10	0.0025	0.00019	0.0025	No 11	0.002078	0.0009385	81.82	None	No	0.006	NP (NDs)
Cobalt (mg/L)	ARGWC-15	0.005687	0.0001022	0.0025	No 11	0.005089	0.008801	36.36	Kaplan-Meier	x^(1/3)	0.01	Param.
Cobalt (mg/L)	ARGWC-16	0.0025	0.00026	0.0025	No 11	0.002084	0.0009266	81.82	Kaplan-Meier	No	0.006	NP (NDs)
Cobalt (mg/L)	ARGWC-17	0.02687	0.01557	0.0025	Yes 11	0.02122	0.006783	0	None	No	0.01	Param.
Cobalt (mg/L)	ARGWC-18	0.001657	0.001089	0.0025	No 11	0.001373	0.0003406	0	None	No	0.01	Param.
Cobalt (mg/L)	ARGWC-7	0.0025	0.00034	0.0025	No 11	0.002084	0.0009269	81.82	None	No	0.006	NP (NDs)
Cobalt (mg/L)	ARGWC-8	0.0025	0.00021	0.0025	No 11	0.001886	0.001053	72.73	None	No	0.006	NP (NDs)
Cobalt (mg/L)	ARGWC-9	0.0025	0.00021	0.0025	No 11	0.002078	0.0009386	81.82	None	No	0.006	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	ARGWC-10	0.3626	-0.04499	5	No 11	0.1588	0.2446	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	ARGWC-15	1.026	0.2769	5	No 11	0.7474	0.7703	0	None	ln(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	ARGWC-16	0.79	0.0598	5	No 11	0.4519	0.4358	0	None	No	0.006	NP (normality)
Combined Radium 226 + 228 (pCi/L)	ARGWC-17	0.8068	0.07236	5	No 11	0.4396	0.4407	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	ARGWC-18	0.6264	0.2145	5	No 11	0.4204	0.2472	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	ARGWC-7	0.4946	0.1588	5	No 11	0.3267	0.2015	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	ARGWC-8	0.4129	0.1117	5	No 11	0.2623	0.1807	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	ARGWC-9	0.4245	0.06987	5	No 11	0.2472	0.2128	0	None	No	0.01	Param.
Fluoride (mg/L)	ARGWC-10	0.2	0.047	4	No 12	0.1418	0.07376	58.33	None	No	0.01	NP (NDs)
Fluoride (mg/L)	ARGWC-15	0.178	0.05881	4	No 12	0.1681	0.07651	33.33	Kaplan-Meier	No	0.01	Param.
Fluoride (mg/L)	ARGWC-16	0.2	0.033	4	No 12	0.1496	0.07541	66.67	Kaplan-Meier	No	0.01	NP (NDs)
Fluoride (mg/L)	ARGWC-17	0.2	0.031	4	No 12	0.1495	0.0756	66.67	Kaplan-Meier	No	0.01	NP (NDs)
Fluoride (mg/L)	ARGWC-18	0.1022	0.07292	4	No 11	0.08755	0.01755	0	None	No	0.01	Param.

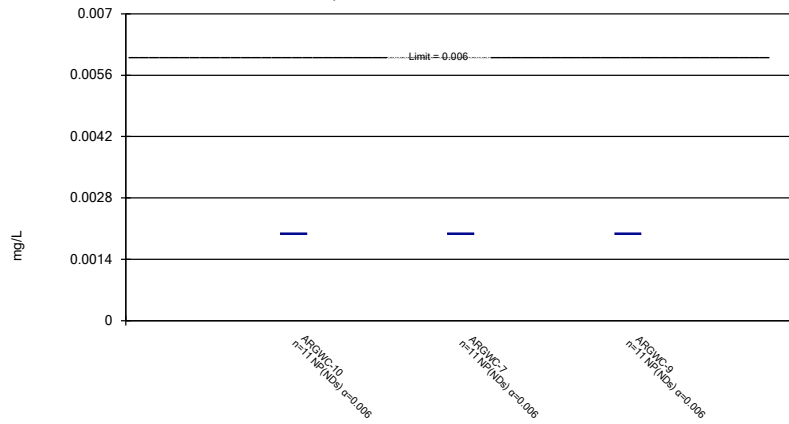
State Confidence Intervals - All Results

Plant Arkwright Client: Southern Company Data: Arkwright No 3 Printed 6/25/2020, 11:42 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride (mg/L)	ARGWC-7	0.2	0.032	4	No	12	0.1595	0.07385	75	None	No	0.01	NP (NDs)
Fluoride (mg/L)	ARGWC-8	0.1461	0.1056	4	No	11	0.1258	0.02432	0	None	No	0.01	Param.
Fluoride (mg/L)	ARGWC-9	0.2	0.038	4	No	12	0.1612	0.07071	66.67	None	No	0.01	NP (NDs)
Lead (mg/L)	ARGWC-10	0.031	0.001	0.013	No	13	0.003308	0.008321	92.31	None	No	0.01	NP (NDs)
Lead (mg/L)	ARGWC-15	0.0016	0.0003	0.013	No	13	0.001346	0.001306	76.92	None	No	0.01	NP (NDs)
Lead (mg/L)	ARGWC-18	0.001	0.0002	0.013	No	13	0.0009385	0.0002219	92.31	None	No	0.01	NP (NDs)
Lead (mg/L)	ARGWC-8	0.001	0.00019	0.013	No	13	0.0009377	0.0002247	92.31	None	No	0.01	NP (NDs)
Lead (mg/L)	ARGWC-9	0.001	0.00016	0.013	No	13	0.0009354	0.000233	92.31	None	No	0.01	NP (NDs)
Lithium (mg/L)	ARGWC-10	0.005	0.0015	0.0099	No	11	0.004373	0.001529	72.73	None	No	0.006	NP (NDs)
Lithium (mg/L)	ARGWC-15	0.005	0.0029	0.0099	No	11	0.004445	0.0009234	63.64	None	No	0.006	NP (NDs)
Lithium (mg/L)	ARGWC-16	0.005	0.0031	0.0099	No	11	0.004755	0.001458	72.73	None	No	0.006	NP (NDs)
Lithium (mg/L)	ARGWC-17	0.005	0.0023	0.0099	No	11	0.004618	0.001518	72.73	None	No	0.006	NP (NDs)
Lithium (mg/L)	ARGWC-18	0.0062	0.0036	0.0099	No	11	0.005164	0.002734	9.091	None	No	0.006	NP (normality)
Lithium (mg/L)	ARGWC-7	0.004709	0.002366	0.0099	No	11	0.004536	0.001643	36.36	Kaplan-Meier	sqrt(x)	0.01	Param.
Lithium (mg/L)	ARGWC-8	0.004992	0.002802	0.0099	No	11	0.0045	0.001325	36.36	Kaplan-Meier	No	0.01	Param.
Lithium (mg/L)	ARGWC-9	0.005	0.005	0.0099	No	11	0.0051	0.0003317	90.91	Kaplan-Meier	No	0.006	NP (NDs)
Mercury (mg/L)	ARGWC-10	0.0002	0.0002	0.002	No	10	0.0001877	0.0000389	90	None	No	0.011	NP (NDs)
Mercury (mg/L)	ARGWC-15	0.0002	0.0002	0.002	No	10	0.0001871	0.00004079	90	None	No	0.011	NP (NDs)
Mercury (mg/L)	ARGWC-16	0.0002	0.000079	0.002	No	10	0.000134	0.00005779	40	None	No	0.011	NP (normality)
Mercury (mg/L)	ARGWC-18	0.0002	0.0002	0.002	No	10	0.0001874	0.00003984	90	None	No	0.011	NP (NDs)
Mercury (mg/L)	ARGWC-7	0.0002	0.0002	0.002	No	10	0.000187	0.00004111	90	None	No	0.011	NP (NDs)
Mercury (mg/L)	ARGWC-8	0.0002	0.0002	0.002	No	10	0.0001881	0.00003763	90	None	No	0.011	NP (NDs)
Molybdenum (mg/L)	ARGWC-15	0.015	0.00097	0.015	No	11	0.008729	0.007209	54.55	None	No	0.006	NP (NDs)
Molybdenum (mg/L)	ARGWC-8	0.04416	0.03535	0.015	Yes	11	0.03979	0.005466	0	None	sqrt(x)	0.01	Param.
Selenium (mg/L)	ARGWC-15	0.005	0.00044	0.05	No	13	0.003949	0.001997	76.92	None	No	0.01	NP (NDs)
Selenium (mg/L)	ARGWC-16	0.002037	0.0009332	0.05	No	13	0.001598	0.001112	7.692	None	ln(x)	0.01	Param.
Selenium (mg/L)	ARGWC-7	0.005	0.00029	0.05	No	13	0.004638	0.001306	92.31	None	No	0.01	NP (NDs)
Selenium (mg/L)	ARGWC-9	0.005	0.00029	0.05	No	13	0.004272	0.001778	84.62	None	No	0.01	NP (NDs)
Silver (mg/L)	ARGWC-15	0.001	0.00018	0.0051	No	9	0.0008389	0.0003232	77.78	None	No	0.002	NP (NDs)
Silver (mg/L)	ARGWC-16	0.001	0.00026	0.0051	No	9	0.0009178	0.0002467	88.89	None	No	0.002	NP (NDs)
Thallium (mg/L)	ARGWC-15	0.001	0.001	0.002	No	11	0.0009177	0.0002729	90.91	None	No	0.006	NP (NDs)

Non-Parametric Confidence Interval

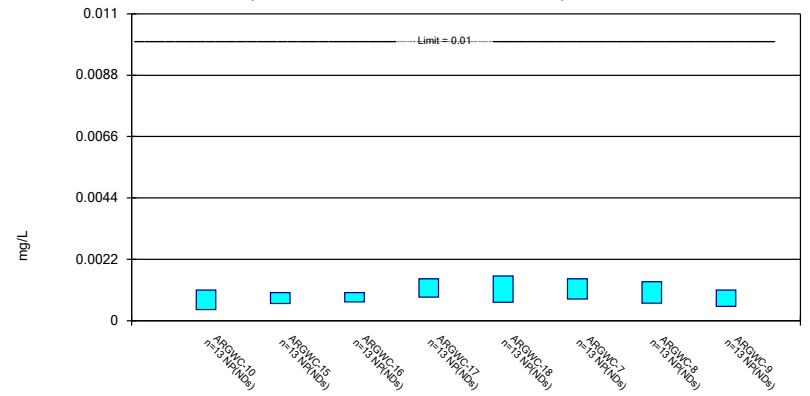
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Constituent: Antimony Analysis Run 6/25/2020 11:28 AM View: Appendix IV
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

Non-Parametric Confidence Interval

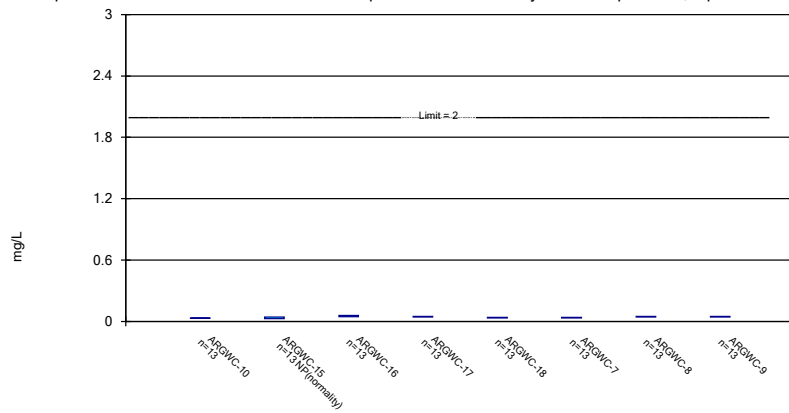
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Arsenic Analysis Run 6/25/2020 11:28 AM View: Appendix IV
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

Parametric and Non-Parametric (NP) Confidence Interval

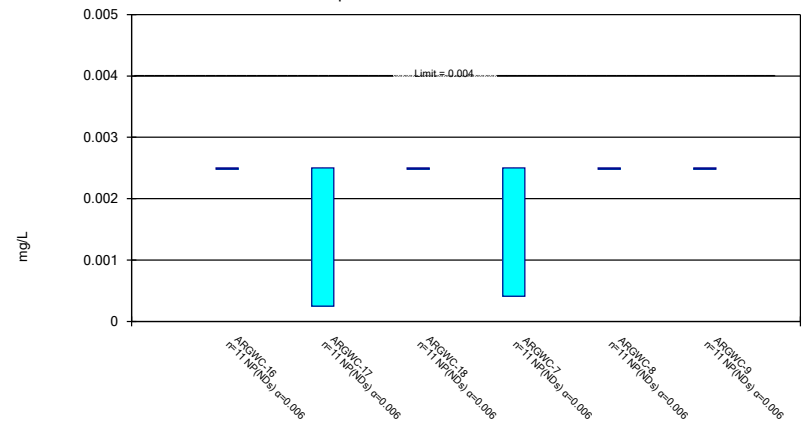
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Constituent: Barium Analysis Run 6/25/2020 11:28 AM View: Appendix IV
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

Non-Parametric Confidence Interval

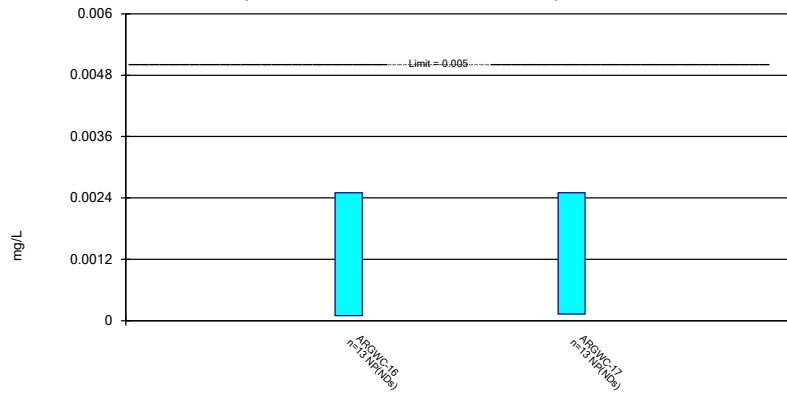
Compliance Limit is not exceeded.



Constituent: Beryllium Analysis Run 6/25/2020 11:28 AM View: Appendix IV
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

Non-Parametric Confidence Interval

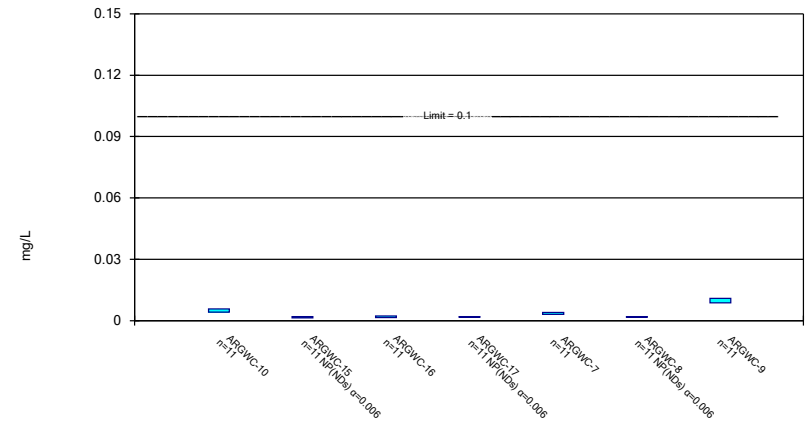
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Cadmium Analysis Run 6/25/2020 11:28 AM View: Appendix IV
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

Parametric and Non-Parametric (NP) Confidence Interval

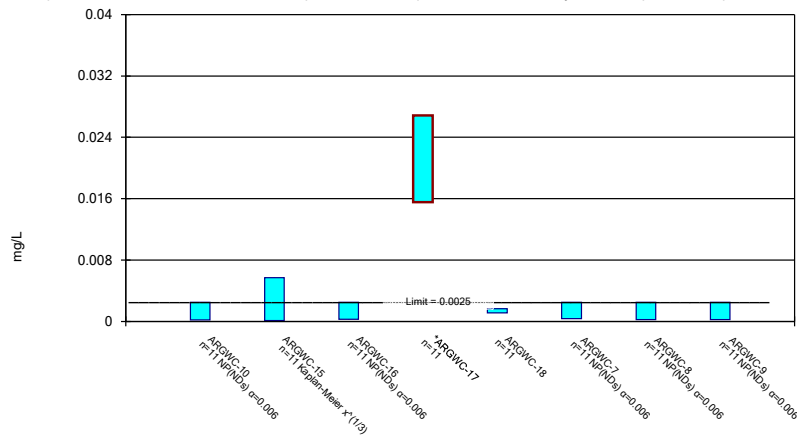
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Constituent: Chromium Analysis Run 6/25/2020 11:28 AM View: Appendix IV
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

Parametric and Non-Parametric (NP) Confidence Interval

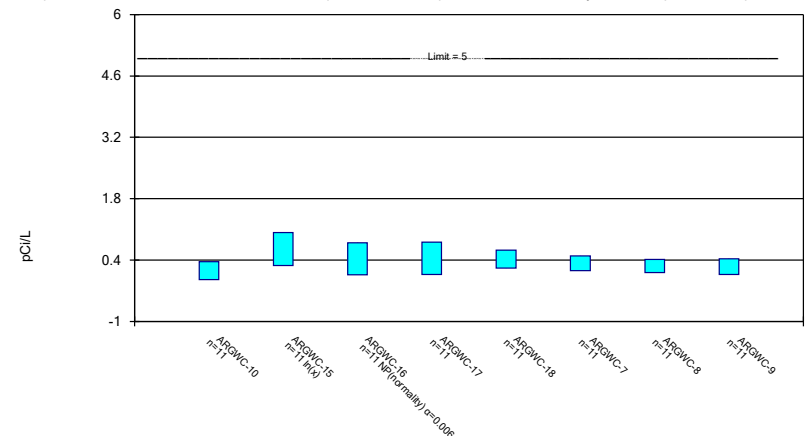
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Constituent: Cobalt Analysis Run 6/25/2020 11:29 AM View: Appendix IV
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

Parametric and Non-Parametric (NP) Confidence Interval

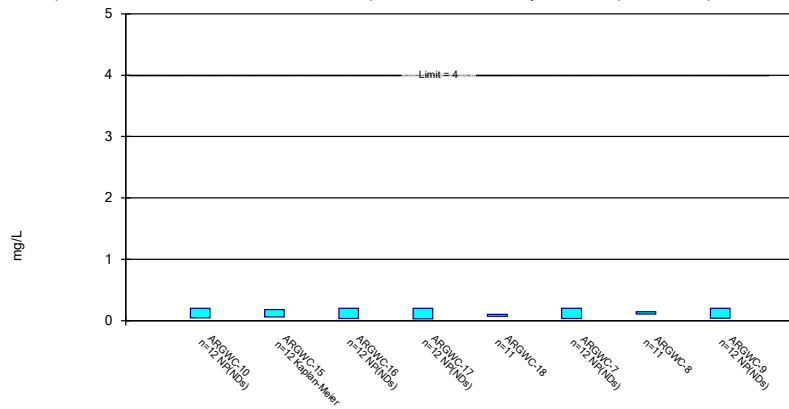
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 6/25/2020 11:29 AM View: Appendix IV
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

Parametric and Non-Parametric (NP) Confidence Interval

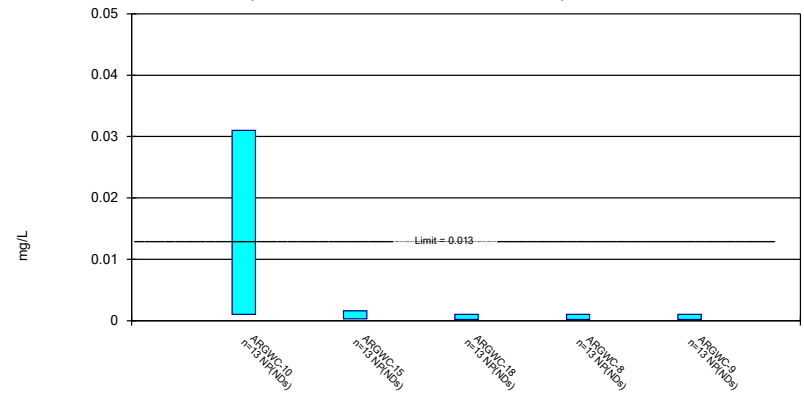
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 6/25/2020 11:29 AM View: Appendix IV
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

Non-Parametric Confidence Interval

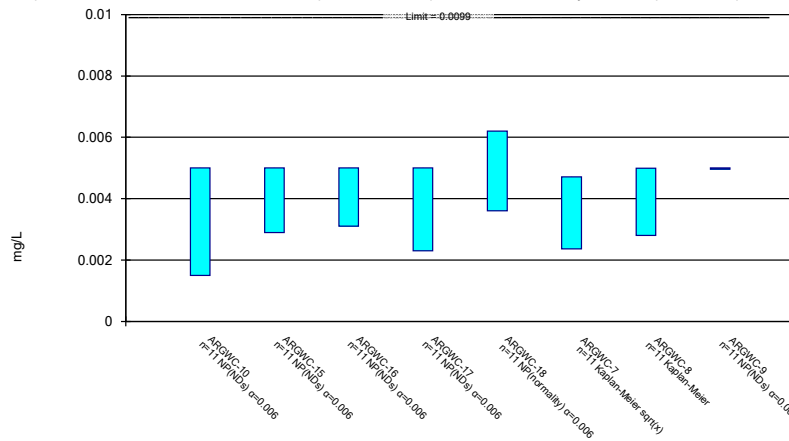
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Constituent: Lead Analysis Run 6/25/2020 11:29 AM View: Appendix IV
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

Parametric and Non-Parametric (NP) Confidence Interval

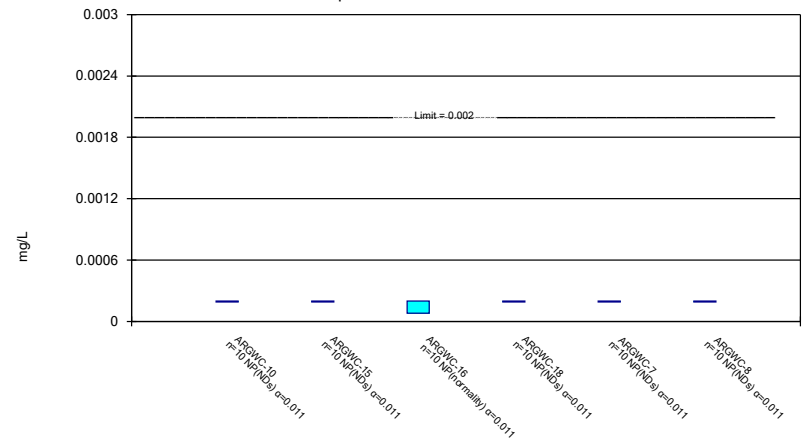
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 6/25/2020 11:29 AM View: Appendix IV
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

Non-Parametric Confidence Interval

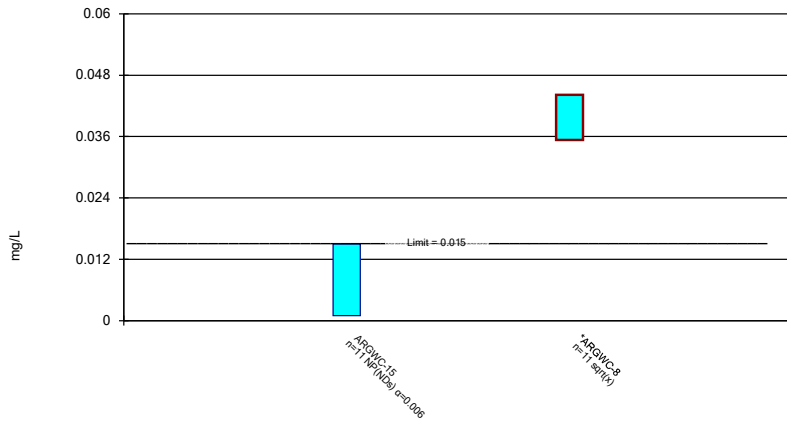
Compliance Limit is not exceeded.



Constituent: Mercury Analysis Run 6/25/2020 11:29 AM View: Appendix IV
 Plant Arkwright Client: Southern Company Data: Arkwright No 3

Parametric and Non-Parametric (NP) Confidence Interval

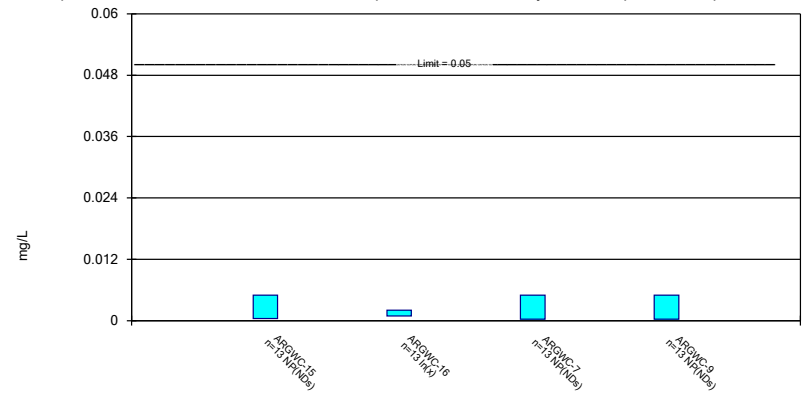
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 6/25/2020 11:29 AM View: Appendix IV
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Parametric and Non-Parametric (NP) Confidence Interval

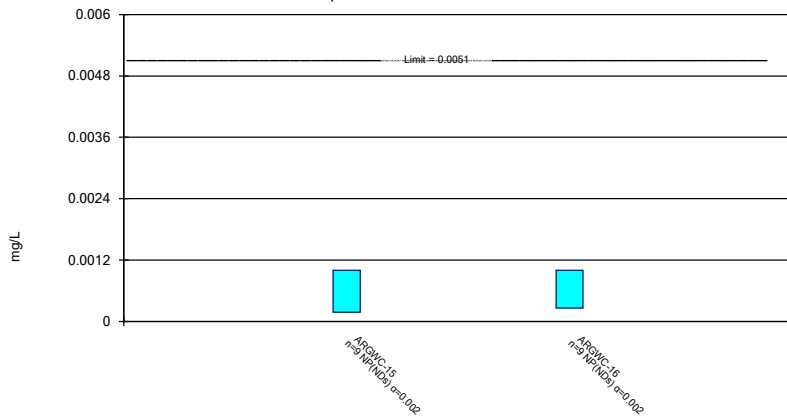
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 6/25/2020 11:29 AM View: Appendix IV
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Non-Parametric Confidence Interval

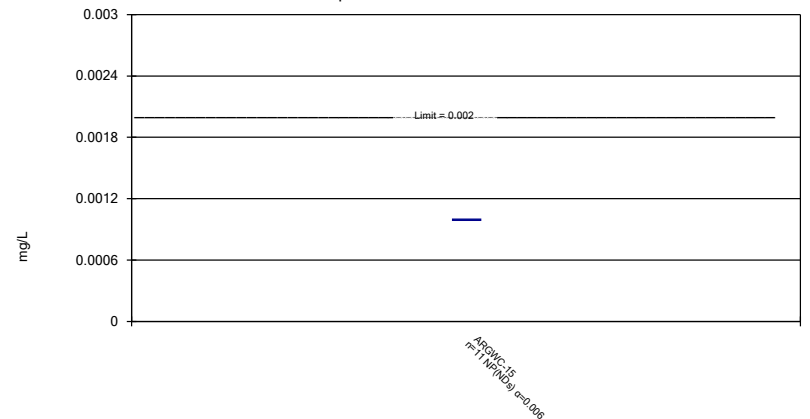
Compliance Limit is not exceeded.



Constituent: Silver Analysis Run 6/25/2020 11:29 AM View: Appendix IV
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Constituent: Thallium Analysis Run 6/25/2020 11:29 AM View: Appendix IV
Plant Arkwright Client: Southern Company Data: Arkwright No 3