2024 SEMI-ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

Plant Arkwright
Ash Pond 3 Landfill and Monofill
Macon, Georgia

February 28, 2025

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CERTIFICATION STATEMENT

This *2024 Semi-Annual Groundwater Monitoring and Corrective Action Report, Plant Arkwright, Ash Pond 3 Landfill and Monofill* has been prepared in accordance with the Georgia Environmental Protection Division Rules for Solid Waste Management 391-3-4-.10 and 391-3-4.14 by a qualified groundwater scientist or engineer with Stantec Consulting Services, Inc. I hereby certify that I am a qualified groundwater scientist, in accordance with the Georgia Rules of Solid Waste Management 391-3-4-.01.

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Executive Summary

This summary of the *2024 Semi-Annual Groundwater Monitoring and Corrective Action Report* provides the status of the groundwater monitoring and corrective action program from July 2024 through December 2024 at the Georgia Power Company (Georgia Power) former Plant Arkwright Ash Pond 3 (AP-3) Landfill and Monofill. This summary was prepared by Stantec Consulting Services Inc. (Stantec) on behalf of Georgia Power to meet the requirements listed in Georgia Environmental Protection Division (GA EPD) Rules of Solid Waste Management 391-3-4-.10(6)(a)-(c) and 391-3-4-.14.

Plant Arkwright is located in Bibb County, Georgia, approximately 6 miles northwest of the city of Macon. The plant address is 5241 Arkwright Road, Macon, Georgia, 31210. The 46-acre AP-3 Landfill and Monofill are located between Arkwright Road to the west and Riverside Drive to the east. When in operation, the coal-fired Plant Arkwright power plant consisted of four 40-megawatt units. In the years before retirement, the plant was used primarily to provide peaking power and operated approximately 40 to 60 days per year. Plant Arkwright was retired in 2002 and decommissioned in 2003. Georgia Power closed the AP-3 Landfill and Monofill in 2010, with GA EPD's approval and in accordance with the solid waste landfill regulations in effect at the time of its closure.

Plant Arkwright Ash Pond 3 Landfill and Monofill

The groundwater monitoring program for AP-3 Landfill and Monofill is managed in accordance with Georgia Solid Waste Management Rules for Groundwater Monitoring and Corrective Action of a municipal solid waste landfill, Rule 391-3-4.14, per GA EPD Permit No. 011-025D(LI). AP-3 Landfill and Monofill is also subject to the GA EPD Rules for Solid Waste Management 391-3-4-.10 for coal combustion residuals (CCR) management. Georgia Power has elected to remove the CCR from AP-3 Landfill and Monofill to a lined landfill. Groundwater at AP-3 Landfill and Monofill is monitored using a comprehensive groundwater monitoring system that meets GA EPD requirements. Groundwater sampling and reporting for compliance to meet requirements of Rule 391-3-4.10 began after baseline groundwater conditions were established between August 2016 and October 2018 for AP-3 Landfill and Monofill wells, with the exception of upgradient well ARGWA-24, where sampling was initiated in December 2020. Based on groundwater conditions at AP-3 Landfill and Monofill, an assessment monitoring program was initiated on November 13, 2019, and assessment of corrective measures began on July 9, 2020. During the 2024 semi-annual reporting period, AP-3 Landfill and Monofill remained in assessment monitoring as corrective measures were evaluated. A Draft Remedy Selection Report, which summarizes the evaluation and proposed selection of a corrective measure, or measures, was submitted to GA EPD on February 28, 2024.

During the 2024 semi-annual reporting period, Stantec conducted one groundwater sampling event in August 2024. Samples were analyzed for the full suites of Appendix III[1] and Appendix IV[2] constituents listed in Title 40, Code of Federal Regulations Part 257 (CCR Rule), and the GA EPD Appendix I constituent silver. Per the CCR Rule, groundwater results for the August 2024 data were evaluated in accordance with the certified statistical methods. Statistical analyses indicate statistically significant increases (SSIs) for Appendix III constituents above the statistical limits and statistically significant levels (SSLs) of Appendix IV constituents above the groundwater protection standards as summarized below. Cobalt is the only SSL identified in a single well, ARGWC-17, at AP-3 Landfill and Monofill.

Appendix III Constituents	**August 2024**
Boron	ARGWC-18
pH	ARGWC-16, ARGWC-17
Appendix IV Constituents	**August 2024**
Cobalt	ARGWC-17

Based on review of the CCR Rule Appendix III and Appendix IV statistical results completed for the groundwater monitoring and corrective action program from July 2024 through December 2024, assessment monitoring will continue pending EPD review of the Draft Remedy Selection Report. Georgia Power will continue routine groundwater monitoring and reporting at AP-3 Landfill and Monofill. Reports will be submitted to GA EPD semi-annually.

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

Acronyms / Abbreviations

40 CFR	Title 40 Code of Federal Regulations
ACM	Assessment of Corrective Measures
AP-3	Ash Pond 3
CCR	Coal Combustion Residuals
CCR Rule	40 CFR § 257 Subpart D
District	Washington Slope District
DO	Dissolved Oxygen
GA EPD	Georgia Environmental Protection Division
GEL	GEL Laboratories LLC
Georgia Power	Georgia Power Company
GSC	Groundwater Stats Consulting
GWPS	Groundwater Protection Standard
MCL	Maximum Contaminant Level
mg/L	micrograms per liter
NAVD88	North American Vertical Datum of 1988
NELAP	National Environmental Laboratory Accreditation Program
NTU	Nephelometric Turbidity Units
ORP	Oxidation-Reduction Potential
Pace	Pace Analytical Services, LLC
PWR	Partially Weathered Rock
QA/QC	Quality Assurance/Quality Control
Site	Former Plant Arkwright Ash Pond 3 Landfill and Monofill
SSI	Statistically Significant Increase
SSL	Statistically Significant Level
Stantec	Stantec Consulting Services, Inc.
TDS	Total Dissolved Solids
Unified Guidance	Statistical Analysis of Groundwater Data at RCRA Facilities, Unified Guidance, March 2009
UPL	Upper Prediction Limit
US EPA	United States Environmental Protection Agency
UTL	Upper Tolerance Limit

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 *2024 Semi-Annual Groundwater Monitoring and Corrective Action Report* has been prepared to document groundwater monitoring activities conducted at the Georgia Power Company (Georgia Power) former Plant Arkwright Ash Pond 3 (AP-3) Landfill and Monofill (Site). To specify groundwater monitoring requirements GA EPD Rule 391-3-4-.10(6)(a) incorporates by reference the United States Environmental Protection Agency (US EPA) Title 40 Code of Federal Regulations (40 CFR) § 257 Subpart D - Standards for the Disposal of Coal Combustion Residuals (CCR) in Landfills and Surface Impoundments (CCR Rule). For ease of reference, the applicable CCR Rule references 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 40 CFR § 257.90 through § 257.96. This semi-annual report documents the activities completed between July 2024 and December 2024. One semi-annual assessment monitoring event was conducted during this reporting period in August 2024.

Due to statistically significant levels (SSLs) of certain CCR Rule Appendix IV constituents identified in the *2020 Annual Groundwater Monitoring and Corrective Action Report* (Wood, 2020a), Georgia Power initiated an assessment of corrective measures (ACM) for AP-3 Landfill and Monofill on July 9, 2020, pursuant to 40 CFR § 257.96(b), and an ACM Report was prepared and submitted to GA EPD in December 2020 (Wood, 2020b). Based on statistical analyses on the recent semi-annual sampling events, cobalt is the only constituent showing an SSL in groundwater in a single well (ARGWC-17) at AP-3 Landfill and Monofill. A Draft Remedy Section Report was submitted to GA EPD on February 28, 2024, proposing in-situ injections with monitored natural attenuation as a remedy to address the cobalt SSL at ARGWC-17.

The SSL for cobalt in well ARGWC-17 is horizontally and vertically delineated near AP-3 Landfill and Monofill by wells ARGWC-16 and ARAMW-4, respectively.

1.1 Site Description and Background

Plant Arkwright is located in Bibb County, Georgia, approximately 6 miles northwest of the city of Macon (Figure 1). The physical address of the plant is 5241 Arkwright Road, Macon, Georgia, 31210. The 46-acre AP-3 Landfill and Monofill are located between Arkwright Road to the west and Riverside Drive to the east. When in operation, the coal-fired Plant Arkwright power plant consisted of four 40-megawatt units. In the years before retirement, the plant was used primarily to provide peaking power and operated approximately 40 to 60 days per year. Plant Arkwright was retired in 2002 and decommissioned in 2003.

The AP-3 Landfill and Monofill 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 Rule 391-3-4.14, in effect at the time of its closure. Closure construction of AP-3 Landfill and Monofill utilized a geosynthetic clay liner 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, which has been performed in accordance with the GA EPD Permit No. 011-025D(LI) following closure.

The unit is also subject to the requirements of relevant portions of GA EPD 391-3-4-.10. The CCR unit referred to as AP-3 Landfill and Monofill is defined as an inactive CCR Landfill per GA EPD 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). The permit lists GA EPD 391-3-4-.10 Appendix I constituents as arsenic, barium, cadmium, chloride, lead, selenium, silver, and sulfate. A minor modification approved by GA EPD on August 9, 2017, added the CCR Rule Appendix III and IV sample constituents to the groundwater monitoring plan. The GA EPD Appendix I constituents overlap with the CCR Rule Appendix III and IV constituents, with the exception of silver.

Georgia Power has elected to remove CCR material from AP-3 and Monofill and place it in a lined landfill.

1.2 Regional Geology & Hydrogeologic Setting

The geology and hydrogeology of the Plant Arkwright Site are summarized below. The Plant Arkwright Site is located along the southern edge of the Washington Slope District (the District) within the Piedmont Physiographic Province (Clark and Zisa, 1976). The District 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 District ranges from approximately 700 feet above mean sea level in the areas of southern Atlanta and Athens to approximately 500 feet above mean sea level at its southern limit along the Georgia Fall Line. Streams follow the surface topography of the underlying crystalline rocks eastward toward the Ocmulgee River. Typically, relief throughout the District ranges between 50 and 100 feet. However, the greatest relief occurs along the Ocmulgee River where the elevation changes from 150 to 200 feet due to steep walled valleys (Clark and Zisa, 1976). Ultimately, the area surface water flow is directed toward the Ocmulgee River.

Bedrock in the region is composed of moderate to high-grade metamorphic rocks, consisting of biotite-granite gneiss, schist, amphibolite, and igneous rocks like granite. In the southernmost Piedmont, around the Site, bedrock is predominantly composed of biotite gneiss. Major geologic structures in the region include the Ocmulgee fault, located approximately 7 miles 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).

1.2.1 Site Geology

The general geology beneath Plant Arkwright consists of clays, silty and sandy clays, silty sands, sandy silts, and minor gravel at depth, underlain by a silty sand saprolite and bedrock. Historical borings advanced at the Site indicate bedrock occurs at depths ranging from approximately 14 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 a more

competent 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

The uppermost aquifer at the Site consists of two hydrostratigraphic units: the water table (overburden) hydrostratigraphic unit and the underlying shallow fractured bedrock hydrostratigraphic unit. The water table (overburden) unit is composed of unconsolidated silty sands and sandy silts with clays and variable thicknesses of PWR mantling the bedrock surface, whereas the bedrock unit is a zone comprised of weathered and fractured bedrock.

The water table unit is hydraulically connected to the underlying bedrock through fractures in the partially weathered and fractured bedrock (Southern Company Services, 2005) and is considered to be under unconfined conditions. The monitoring well network for AP-3 Landfill and Monofill (Figure 2) monitors the uppermost aquifer at the Site.

Slug testing data from the Site reflects a range of hydraulic conductivities from 10^{-6} to 10^{-3} centimeters per second (0.0028 to 2.835 feet per day) in the water table hydrostratigraphic unit (Southern Company Services, 2005). Groundwater level gauging data from the Site show stable water level trends and the potentiometric surface map depicts groundwater generally flowing to the south and southeast across AP-3 Landfill and Monofill (Figure 3).

1.3 Groundwater Monitoring System

Pursuant to 40 CFR § 257.91, Georgia Power installed a groundwater monitoring system within the uppermost aquifer at AP-3 Landfill and Monofill. The groundwater 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 or downgradient monitoring points based on the groundwater flow direction (Table 1). The monitoring well locations are depicted in Figure 2.

2.0 Groundwater Monitoring Activities

The following describes monitoring-related activities performed between July 2024 and December 2024. Samples were collected from each of the wells in the groundwater monitoring system depicted in Figure 2. In accordance with 40 CFR § 257.93, Table 2 presents a summary of groundwater sampling events completed for AP-3 Landfill and Monofill during this monitoring period.

2.1 Monitoring Well Maintenance

Monitoring wells are inspected semi-annually to determine if repairs or corrective actions are necessary to meet the requirements of the Georgia Water Well Standards Act (O.C.G.A. § 12-5-134(5)(d)(vii)). In August 2024, the monitoring wells were inspected. Minor corrective actions were identified and completed, as documented in Appendix A.

2.2 Assessment Monitoring

Georgia Power implemented assessment monitoring in accordance with 40 CFR § 257.95 in November 2019. During the 2024 semi-annual reporting period, a semi-annual assessment monitoring event at AP-3 Landfill and Monofill was conducted from August 20 to 21, 2024. Groundwater samples were collected from each well in the certified groundwater monitoring system and analyzed for the full suites of CCR Rule Appendix III and Appendix IV constituents, and the GA EPD Appendix I constituent, silver. Laboratory and field data reports for the August 2024 monitoring event are included in Appendix B**.**

2.3 Surface Water Sampling and Additional Groundwater Sampling

Due to the close proximity of an unnamed tributary to Beaverdam Creek in the vicinity of AP-3 Landfill and Monofill, Georgia Power proactively collected surface water samples to further support the 2020 risk evaluation. Surface water samples were collected from six locations on August 12, 2024, as shown on Figure 2. Five surface water sampling locations are located along the tributary to Beaverdam Creek, and one is located in Beaverdam Creek.

Surface water samples were analyzed for the full suites of 40 CFR Part 257 Appendix III and targeted SSL Appendix IV constituents. Surface water samples were also submitted for analysis of total alkalinity, bicarbonate alkalinity, magnesium, potassium, and sodium. The laboratory reports associated with the August 2024sampling event are provided in Appendix B.

During the August 2024 semi-annual sampling event, groundwater samples were analyzed for dissolved iron and manganese in addition to the parameters described in Section 2.2. Dissolved iron and manganese concentrations provide information regarding the oxidation-reduction conditions, which is a key factor influencing the behavior of cobalt in the subsurface. Results are included in the laboratory analytical reports in Appendix B.

3.0 Sample Methodology & Analyses

The semi-annual groundwater sampling event completed in August 2024 for AP-3 Landfill and Monofill included sampling for the constituents listed in CCR Rule Appendix III and Appendix IV, with the addition of silver, which is a constituent in GA EPD Appendix I. Groundwater analytical data and chain-of-custody records are located in Appendix B. The following sections describe methods used to conduct the groundwater monitoring activities at AP-3 Landfill and Monofill.

3.1 Groundwater Elevation Measurements and Flow Direction

Prior to each sampling event, the static groundwater levels were measured in each monitoring well at AP-3 Landfill and Monofill. The water level indicator was properly decontaminated between each monitoring well. Groundwater elevations are summarized in Table 3. The recorded water level data were used to determine the groundwater elevations in each well and develop a potentiometric surface elevation contour map (Figure 3). Review of the figure indicates that the apparent groundwater flow direction in the uppermost aquifer is to the southeast in the northern portion of AP-3 Landfill, and to the south in the southern portion of AP-3 Landfill and Monofill. This groundwater flow pattern is consistent with historical groundwater flow patterns.

3.2 Groundwater Gradient and Flow Velocity

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

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

Where:

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

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

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

$n_e =$ Effective porosity (unitless)

The general groundwater flow velocities were calculated for AP-3 Landfill and Monofill based on hydraulic gradients, average hydraulic conductivity based on previous slug test data, and an estimated effective porosity of 0.10 (based on a review of several sources, including Driscoll, 1986; US EPA, 1989; Freeze and Cherry, 1979). The general groundwater flow velocity values based on August 19, 2024, groundwater elevations are presented in Table 4. The results for groundwater flow velocity across the north/south axis of AP-3 Landfill were 0.24 feet/day (87 feet/year) in August 20244. Groundwater flow velocity between the Monofill and the southern embankment of AP-3 was 0.46 feet/day (170 feet/year) in August 2024. The observed groundwater flow velocities calculated for this monitoring event are generally consistent with expected velocities in the regolith-upper bedrock aquifers of the Georgia Piedmont.

3.3 Groundwater Sampling

Groundwater samples were collected in August 2024. Sampling procedures were conducted in accordance with US EPA Region 4 *Laboratory Services and Applied Science Division Operating Procedures for Groundwater Sampling* (LSASDPROC-301-R6, April 22, 2023). Monitoring wells were purged and sampled using low-flow sampling procedures. Dedicated or non-dedicated low-flow pneumatic bladder or peristaltic pumps were used to purge and sample the wells. An In-Situ Aqua TROLL® 400 field instrument was used to monitor and record field water quality parameters (pH, conductivity, dissolved oxygen [DO], temperature, and oxidation-reduction potential [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 for three (3) consecutive readings measured at five-minute intervals:

- pH ± 0.1 Standard Units
- Specific conductance ± 5 %
- ± 10% for DO where DO > 0.5 milligrams per liter (mg/L). No criterion applies if DO < 0.5 mg/L
- Turbidity measurements less than five Nephelometric Turbidity Units (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. If turbidity readings were greater than 10 NTU at the time of sampling and after 3 hours of purging, a dissolved metals sample would be collected by filtering the water with a 0.45-micron water filter. Turbidity readings were below 10 NTUs during the August 2024 sampling events, and no filtered samples were collected. Sample bottles were placed in ice-packed coolers and submitted to GEL Laboratories LLC (GEL) in Charleston, South Carolina following chain-of-custody protocols. Stabilization logs and Equipment Calibration forms are included in Appendix B.

3.4 Surface Water Sampling

Surface water samples were collected in August 2024. Sampling was performed in accordance with US EPA Region 4 *Laboratory Services and Applied Science Division Operating Procedures for Surface Water Sampling* (LSASDPROC-201-R6, April 22, 2023).

Surface water samples were analyzed for the full suite of 40 CFR Part 257 Appendix III and targeted SSL Appendix IV constituents. Surface water samples were also submitted for analysis of total alkalinity, bicarbonate alkalinity, magnesium, potassium, and sodium.

Sample bottles were placed in ice-packed coolers and submitted to Pace Analytical Services, LLC (Pace) of Peachtree Corners, Georgia, following chain-of-custody protocol.

3.5 Laboratory Analyses

The groundwater samples were analyzed for CCR Rule Appendix III and Appendix IV constituents, as well as the GA EPD Appendix I constituent, silver. The samples were analyzed for additional parameters[3] to assist with ongoing remedy evaluation. Laboratory analyses of the groundwater were performed by GEL, which is accredited by the National Environmental Laboratory Accreditation Program (NELAP) and maintains the NELAP accreditation for the constituents analyzed for this project. Table 5 summarizes the groundwater analytical results, and the corresponding formal analytical reports are in Appendix B.

The August 2024 surface water samples were also analyzed for CCR Rule Appendix III and Appendix IV constituents. Laboratory analyses of the surface water samples were performed by Pace, which is also a NELAP accredited laboratory. Table 6 summarizes the surface water analytical results, and the corresponding formal analytical reports can be found in Appendix B.

3.6 Quality Assurance & Quality Control

During each sampling event, various quality assurance/quality control (QA/QC) samples were collected. Equipment blanks (where non-dedicated sampling equipment was used) were collected at a rate of one QA/QC sample per 10 groundwater samples to assess the adequacy of the decontamination process. Blind field duplicate samples were collected by filling additional containers at the same location during the sampling events at a rate of one QA/QC sample per 10 groundwater samples. Field blanks were also collected to evaluate ambient conditions at the sampling locations at a rate of one QA/QC sample per 10 groundwater samples.

QA/QC of the groundwater data were assessed by performing a data quality evaluation of the laboratory results reported. A data quality evaluation was conducted on the data using laboratory precision and accuracy, and analytical method requirements (US EPA, 2002). The data quality evaluations are included in Appendix B.

The analytical results provided in Tables 5 and 6 provide concentrations from the August 2024 groundwater assessment monitoring and surface water sampling event as reported by the laboratories. When values are followed by a “J” flag, this indicates that the value is an estimated analyte concentration detected between the method detection limit and the laboratory reporting limit. The estimated value is positively identified but is below the lowest level that can be reliably achieved within specified limits of precision and accuracy under routine laboratory operating conditions. Radium values followed by a “U” flag indicate that the constituent was not detected above the analytical minimum detectable concentration. The data are considered usable for meeting project objectives and the results are considered valid.

[3] Total alkalinity, bicarbonate alkalinity, carbonate alkalinity, total iron, manganese, total magnesium, potassium, and sodium

4.0 Statistical Analyses

Statistical analyses of GA EPD Appendix I (silver) and CCR Rule Appendix III and Appendix IV constituents were performed on samples collected from the groundwater monitoring system pursuant to 40 CFR § 257.93(f) and following the statistical method for AP-3 Landfill and Monofill. In addition, pursuant to 40 CFR § 257.95(d)(2), Groundwater Protection Standards (GWPS) were established for the Appendix IV constituents from the assessment monitoring event. The groundwater data were statistically analyzed by Groundwater Stats Consulting, LLC (GSC). The reports generated from the analyses are provided in Appendix C.

The following sections provide an overview of the statistical methods used to evaluate the GA EPD Appendix I and CCR Rule Appendix III and Appendix IV constituents and statistical analyses results.

4.1 Statistical Method

The statistical analysis method used at AP-3 Landfill and Monofill was developed by GSC using methodology presented in the Statistical Analysis of Groundwater Data at RCRA Facilities, Unified Guidance, March 2009, EPA 530/R-09-007 (US EPA, 2009) (Unified Guidance). Sanitas™ Statistical Software 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. Specific methodology information is described in the following paragraphs.

4.2 Appendix I and Appendix III Statistical Method

Interwell prediction limits were used for the analysis of the six GA EPD Appendix I constituents (arsenic, barium, cadmium, lead, selenium, and silver) and the full suite of CCR Rule Appendix III constituents. A comparison of confidence intervals to GWPS was also used to evaluate the GA EPD Appendix I constituents. When using the interwell method, upgradient well data are pooled to establish a background statistical limit (upper prediction limit [UPL] or in the case of pH, prediction interval) for each constituent. Individual sample results are then compared to the UPL, or prediction interval for pH, to determine if an SSI has occurred for the constituent/well pair. When an initial SSI is identified, a second sample may be collected to verify the initial result.

The interwell prediction limit assumed a 1-of-2 verification resample plan. If data from a sampling event initially indicate an SSI, then a resample may be collected to verify the initial result. In 1-of-2 resampling, one independent resample is collected and evaluated within 90 days to determine whether the initial SSI is verified. If the resample concentration is above the UPL or a resample is not collected, then the initial SSI is verified. If the resample concentration is less than the UPL, then an SSI is not declared.

Data from groundwater samples from downgradient wells collected in the August 2024 monitoring event were compared to the UPLs to evaluate whether SSIs exist. No resampling was conducted for the 2024 semi-annual monitoring period.

4.3 Appendix IV Statistical Method

The assessment monitoring program statistics for CCR Rule Appendix IV and GA EPD Appendix I constituents were conducted in two parts. The first part was to establish the GWPS for each CCR Rule Appendix IV constituent and GA EPD Appendix I constituent (silver). The second part was the calculation of confidence intervals for individual downgradient well/constituent pairs and then comparing them to the GWPS.

Upper Tolerance Limits (UTLs) were calculated from pooled upgradient well data for Appendix IV constituents. Parametric UTLs were calculated when data followed a normal or transformed-normal distribution. When data contained greater than 50% non-detects or were not in a normal or transformed-normal distribution, non-parametric tolerance limits were used. When parametric methods were appropriate, a 95% UTL with 95% coverage was calculated. When non-parametric UTLs were appropriate, the level of confidence could not be pre-specified and was a function of the size of the data set. The level of confidence for the non-parametric UTLs is provided in the GSC August 2024 report (Appendix C). The background limits were evaluated when determining the GWPS under 40 CFR § 257.95(h).

Table 7 summarizes the background limits established for each CCR Rule Appendix IV constituent and GA EPD Appendix I constituent (silver) and the GWPS established under GA EPD Rules.

To complete the statistical evaluation, confidence intervals were constructed for each downgradient well/constituent pair and compared to the GWPS. In assessment monitoring, an SSL is identified only when the entire confidence interval is above a GWPS in the downgradient well/constituent pair.

4.4 Statistical Analyses Results - Appendix I and Appendix III

Based on review of the GA EPD CCR Rule Appendix III statistical analysis from the August 2024 sampling event, groundwater conditions have not returned to background concentrations and assessment monitoring will continue. Note that GA EPD Appendix I constituent, silver, was not identified as an SSI during the semi-annual sampling event. The statistical analyses and comparisons to prediction limits are included in Appendix C. Additionally, tables contained in Appendix C summarize the various SSIs identified based on the statistical analyses performed on the recent groundwater analytical results.

4.5 Statistical Analyses Results - Appendix IV

The August 2024 GWPS are based on MCLs, the GA EPD adopted Federal GWPS (cobalt, molybdenum, lithium, and lead), and site-specific background concentrations as required by GA EPD. Appendix C shows the individual well/constituent pairs for CCR Rule Appendix IV constituents and GA EPD constituent (silver) with their respective confidence intervals in comparison to the respective constituent GWPS. Based on the statistical results presented in Appendix C, the identified SSLs include:

- August 2024:
    - Cobalt: ARGWC-17

When GWPSs were exceeded, data were further evaluated for trend. Trend testing utilizing the Sen's Slope/Mann Kendall method at the 95% confidence level was used to determine whether concentrations are statistically increasing, decreasing, or stable. Upgradient well data were included in the trend analyses for parameters found to exceed their GWPSs in downgradient wells to identify whether similar patterns exist upgradient of the site. Statistically significant trends were identified for the following:

- August 2024
    - Increasing
        - Cobalt: ARGWC-17

5.0 Nature and Extent

Based on statistical analysis of Appendix IV groundwater data, the cobalt SSL identified in the compliance well ARGWC-17 is horizontally and vertically delineated to levels below GWPS by ARGWC-16 and ARAMW-4, respectively. The lateral extent of the cobalt SSL is limited to an area around ARGWC-17 as shown on the isoconcentration map for cobalt presented as Figure 4. Downgradient well ARGWC-16 and surface water locations downgradient of well ARGWC-17 showed non-detect cobalt concentrations.

6.0 Monitoring Program Status

Pursuant to 40 CFR § 257.96(b), Georgia Power will continue to monitor the groundwater at AP-3 Landfill and Monofill in accordance with the assessment monitoring program regulations in 40 CFR § 257.95 while ACM efforts continue to be evaluated. Pursuant to 40 CFR § 257.95(g)(1)(iv), the assessment monitoring wells will continue to be sampled as part of the ongoing groundwater monitoring program.

6.1 Assessment of Corrective Measures

A Draft Remedy Selection Report (Stantec, 2024) was submitted to GA EPD on February 28, 2024. This report includes:

- The current groundwater conceptual site model applicable to evaluating groundwater corrective measures proposed in the ACM Report (Wood, 2020b).
- An evaluation of each corrective measure retained for further consideration following the completed investigations.
- An evaluation of corrective measure options using the comparative criteria such as long- and short-term effectiveness and protectiveness, source control effectiveness, and ease of implementation. The Draft Remedy Selection Report presents geochemical approaches (in-situ injections) coupled with monitored natural attenuation as the proposed groundwater remedy for AP-3 Landfill and Monofill.

In the interim of GA EPD's review of the Draft Remedy Selection Report, Georgia Power continues to make progress towards selection of a remedy through updating routine sampling data and lab treatability testing in preparation for future pilot testing at the Site. The Draft Remedy Selection Report proposed in-situ injections with monitored natural attenuation as a remedy, and a Pilot Test Workplan is being prepared to further evaluate and optimize the injection plan. In addition, treatability studies have been completed to determine injectate materials and to identify proper dosage information.

7.0 Conclusions & Future Actions

This *2024 Semi-Annual Groundwater Monitoring and Corrective Action Report* was prepared to fulfill the requirements of US EPA's 40 CFR §257.95 and GA EPD Rules for Solid Waste Management 391-3-4-.10. Review of analytical results and statistical analyses indicate an SSL of cobalt in well ARGWC-17, which is above the established GWPS. The extent of cobalt in monitoring well ARGWC-17 is horizontally delineated by downgradient well ARGWC-16, and vertically delineated by monitoring well ARAMW-4. Thus, horizontal, and vertical delineation of the cobalt SSL in well ARGWC-17 is completed at the Site.

Georgia Power will continue to monitor AP-3 Landfill and Monofill under the assessment monitoring program pursuant to 40 CFR §257.95. A Draft Remedy Selection Report, which includes additional data collected in support of ACM efforts and summarizes the evaluation and selection of a proposed corrective measure, or measures, was submitted to GA EPD on February 28, 2024. The Draft Remedy Selection Report proposed in-situ injections with monitored natural attenuation as a remedy, and a Pilot Test Workplan is being prepared to further evaluate and optimize the injection plan.

The next semi-annual sampling event is planned for February 2025 and will include sampling and analysis of CCR Rule Appendix III and Appendix IV constituents, as well as permit-specific GA EPD Appendix I constituents.

8.0 References

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TABLES

TABLE 1
SUMMARY OF MONITORING WELL CONSTRUCTION
Georgia Power Company - Plant Arkwright
Ash Pond 3 Landfill and Monofill
Macon, Georgia

Well	Installation Date	Northing [1]	Easting [1]	Top of Casing Elevation (feet NAVD88)[2][3]	Ground Surface Elevation (feet NAVD88)[2][3]	Top of Screen Elevation (feet NAVD88)[4]	Screen Bottom Elevation (feet NAVD88)[4]	Screen Length (feet)	Total Well Depth on Construction Log (ft below land surface)	Water Bearing Zone Screened	Hydraulic Location
Detection Monitoring Wells											
ARGWA-3	12/9/1992	1066899.39	2437431.05	388.33	386.53	356.2	346.2	10.0	40.5	Overburden	Upgradient
ARGWA-5	1/10/1994	1066885.12	2437209.22	376.15	373.51	353.8	343.8	10.0	30.0	Overburden	Upgradient
ARGWA-12	12/10/2008	1067003.79	2436788.45	372.72	369.27	349.2	339.2	10.0	30.3	Bedrock	Upgradient
ARGWA-13	12/11/2008	1065951.25	2438129.93	371.57	368.10	337.7	327.7	10.0	40.7	Bedrock	Upgradient
ARGWA-14	2/4/2009	1066023.70	2438384.80	388.25	384.94	339.3	329.3	10.0	56.0	Bedrock	Upgradient
ARGWA-24[5]	11/12/2020	1066895.28	2437012.63	373.75	370.85	355.9	345.9	10.0	25.3	Overburden	Upgradient
ARGWC-7	12/11/2003	1064410.59	2438355.19	352.42	348.97	314.2	304.2	10.0	46.5	Overburden	Downgradient
ARGWC-8	12/10/2003	1064521.98	2437572.92	355.53	352.19	322.6	312.6	10.0	40.5	Overburden	Downgradient
ARGWC-9	12/9/2003	1065139.64	2437297.96	367.07	363.44	338.6	328.6	10.0	36.5	Overburden	Downgradient
ARGWC-10	12/9/2003	1065419.44	2437192.51	370.67	367.56	342.6	332.6	10.0	41.5	Overburden	Downgradient
ARGWC-15	12/4/2008	1065475.43	2438360.90	375.64	371.76	342.1	332.1	10.0	40.0	Bedrock	Downgradient
ARGWC-16	12/15/2008	1065263.69	2438174.15	364.90	361.52	340.2	330.2	10.0	31.6	Bedrock	Downgradient
ARGWC-17	12/4/2008	1065458.82	2438009.52	368.24	365.04	344.5	334.5	10.0	30.9	Overburden	Downgradient
ARGWC-18	11/19/2008	1064482.45	2437961.15	355.20	351.92	314.1	304.1	10.0	48.1	Overburden	Downgradient
Assessment Monitoring Well											
ARAMW-4	11/15/2019	1065463.83	2438004.43	367.86	364.56	320.6	310.6	10.0	54.0	Bedrock	Downgradient
Piezometers											
ARAMW-3	11/25/2019	1064530.73	2437569.81	355.39	352.20	298.2	288.2	10.0	64.0	Bedrock	Downgradient
ARAMW-6	11/25/2019	1064439.35	2437606.99	337.46	334.23	314.2	304.2	10.0	30.0	Overburden	Downgradient

Notes:

1. Horizontal locations referenced to Georgia State Plane West, North American Datum (NAD) of 1983 surveyed in June 26, 2020.
2. Vertical elevations are feet referenced to North American Vertical Datum of 1988 (NAVD88).
3. Elevations updated with revised survey certified by Donaldson & Garrett Associates on June 26, 2020.
4. Screen elevations calculated using Ground Surface Elevation surveyed on June 26, 2020.
5. ARAMW-24 was surveyed by Donaldson & Garrett Associates and certified on December 18, 2020.

TABLE 2
GROUNDWATER SAMPLING EVENT SUMMARY
Georgia Power Company - Plant Arkwright
Ash Pond 3 Landfill and Monofill
Macon, Georgia

Well ID	Hydraulic Location	Summary of Sampling Event
		August 20 - 21, 2024
Purpose of Sampling Event		Assessment Monitoring
ASH POND 3 LANDFILL AND MONOFILL MONITORING WELL NETWORK		
ARGWA-3	Upgradient	X
ARGWA-5	Upgradient	X
ARGWA-12	Upgradient	X
ARGWA-13	Upgradient	X
ARGWA-14	Upgradient	X
ARGWA-24	Upgradient	X
ARGWC-7	Downgradient	X
ARGWC-8	Downgradient	X
ARGWC-9	Downgradient	X
ARGWC-10	Downgradient	X
ARGWC-15	Downgradient	X
ARGWC-16	Downgradient	X
ARGWC-17	Downgradient	X
ARGWC-18	Downgradient	X
ARAMW-4	Downgradient	X

Notes:

X - Well sampled during monitoring event

TABLE 3
SUMMARY OF GROUNDWATER ELEVATIONS
Georgia Power Company - Plant Arkwright
Ash Pond 3 Landfill and Monofill
Macon, Georgia

Well ID	Top of Casing Elevation (feet NAVD88)[1][2]	Depth to Water (feet below TOC)[2]	Groundwater Elevation (feet NAVD88)[1]
Measurement Date		August 19, 2024	
ARGWA-3	388.33	35.68	352.65
ARGWA-5	376.15	23.59	352.56
ARGWC-7	352.42	25.24	327.18
ARGWC-8	355.53	27.81	327.72
ARGWC-9	367.07	22.82	344.25
ARGWC-10	370.67	23.14	347.53
ARGWA-12	372.72	17.85	354.87
ARGWA-13	371.57	25.40	346.17
ARGWA-14	388.25	42.78	345.47
ARGWC-15	375.64	29.92	345.72
ARGWC-16	364.90	21.63	343.27
ARGWC-17	368.24	22.95	345.29
ARGWC-18	355.20	30.02	325.18
ARGWA-24	373.75	21.04	352.71
ARAMW-3	355.39	27.27	328.12
ARAMW-4	367.86	22.63	345.23
ARAMW-6	337.46	14.84	322.62

Notes:
1. Groundwater elevations are feet referenced to North American Vertical Datum of 1988 (NAVD88)
2. Groundwater elevations were measured as depth to water from the top of casing (TOC).

TABLE 4
GROUNDWATER FLOW VELOCITY CALCULATIONS
Georgia Power Company - Plant Arkwright
Ash Pond 3 Landfill and Monofill
Macon, Georgia

Potentiometric Map Date	Location	Groundwater Elevations in Well Pairs (h_1, h_2) (feet)		Change in Elevation (Δh) (feet)	Distance Measured (L) (feet)	Hydraulic Gradient (i) (feet/foot)	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 19, 2024	ARGWA-5 to ARGWC-18	352.56	325.18	27.38	2517	0.011	2.18	0.10	0.24	87
	ARGWC-17 to ARGWC-18	345.29	325.18	20.11	952	0.021	2.18	0.10	0.46	170

Notes:

1. In-situ hydraulic conductivity was estimated using slug test data from the overburden wells at the Site and averaged 2.18 feet/day.

2. Estimated effective porosity values of 10% was selected for the silty sands/sandy silts overburden based on a review of several sources, including Driscoll, 1986; US EPA, 1989; Freeze and Cherry, 1979.

TABLE 5
ANALYTICAL DATA SUMMARY - GROUNDWATER, AUGUST 2024
Georgia Power Company - Plant Arkwright
Ash Pond 3 Landfill and Monofill
Macon, GA

Sample Location		ARGWA-3	ARGWA-5	ARGWA-12	ARGWA-13	ARGWA-14	ARGWA-24	ARGWC-7	ARGWC-8	ARGWC-9	ARGWC-10	ARGWC-15	ARGWC-16	ARGWC-17	ARGWC-18	ARAMW-4
Sample Date		08/20/2024	08/21/2024	08/20/2024	08/21/2024	08/22/2024	08/20/2024	08/21/2024	08/21/2024	08/21/2024	08/21/2024	08/21/2024	08/21/2024	08/21/2024	08/21/2024	08/21/2024
ANALYTE	UNITS															
APPENDIX III																
Boron	mg/L	< 0.00520	0.00762 J	0.0106 J	1.11	0.0311	0.00663 J	0.0724	0.877	0.00660 J	0.00605 J	0.0103 J	0.449	0.0575	2.47	0.693
Calcium	mg/L	6.01	16.4	11.8	165	45.3	9.12	8.99	43.4	4.65	7.87	26.1	69.9	24.2	48.9	315
Chloride	mg/L	2.66	17.0	10.6	6.76	4.39	8.27	4.45	5.59	4.93	3.99	2.55	5.71	2.76	6.72	5.28
Fluoride	mg/L	0.0574 J	0.0365 J	0.0426 J	0.0387 J	0.210	0.0399 J	< 0.0330	0.139	0.0405 J	0.0630 J	0.0719 J	< 0.0330	< 0.0330	0.0683 J	0.0693 J
pH, Field	SU	6.05	5.72	5.96	5.79	6.8**	5.71	5.74	6.51	5.97	5.96	6.26	5.24	5.15	6	5.62
Sulfate	mg/L	0.406	0.536	5.98	741	5.41	5.37	32.1	48.7	1.42	0.492	4.47	350	143	199	1310
TDS	mg/L	80.0	127	120	1250	309	95.0	119	266	74.0	90.0	168	601	235	460	1860
APPENDIX IV																
Antimony	mg/L	< 0.00100	< 0.00100	< 0.00100	0.00102 J	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100
Arsenic	mg/L	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	0.00219 J
Barium	mg/L	0.0172	0.0756	0.0701	0.0218	0.0563	0.0344	0.0473	0.0585	0.0363	0.0328	0.0390	0.0349	0.0480	0.0355	0.0298
Beryllium	mg/L	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	0.000344 J	< 0.000200	< 0.000200
Cadmium	mg/L	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	0.000451 J
Chromium	mg/L	0.00320 J	< 0.00300	< 0.00300	< 0.00300	< 0.00300	< 0.00300	< 0.00300	< 0.00300	0.00727 J	0.00501 J	< 0.00300	< 0.00300	< 0.00300	< 0.00300	< 0.00300
Cobalt	mg/L	< 0.000300	< 0.000300	0.000790 J	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	0.00230	< 0.000300	0.0256	0.00108	0.00199
Lead	mg/L	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	0.000948 J	< 0.000500	< 0.000500	< 0.000500	< 0.000500
Lithium	mg/L	< 0.00300	< 0.00300	0.00366 J	0.00639 J	0.00312 J	< 0.00300	< 0.00300	0.00349 J	< 0.00300	< 0.00300	< 0.00300	< 0.00300	< 0.00300	0.00449 J	0.0165
Mercury	mg/L	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670
Molybdenum	mg/L	< 0.000200	< 0.000200	0.000249 J	< 0.000200	0.000727 J	< 0.000200	< 0.000200	0.0377	< 0.000200	< 0.000200	0.00192	< 0.000200	< 0.000200	< 0.000200	0.000218 J
Combined Radium 226 + 228	pCi/L	2.88	2.59	0.919 U	0.623 U	1.40 U	2.87	2.53	0.519 U	1.25 U	1.46 U	1.73 U	1.48	2.51	1.82 U	1.60 U
Selenium	mg/L	< 0.00150	< 0.00150	< 0.00150	0.0209	< 0.00150	< 0.00150	< 0.00150	< 0.00150	< 0.00150	< 0.00150	< 0.00150	0.00497 J	< 0.00150	< 0.00150	0.00323 J
Thallium	mg/L	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600
APPENDIX I																
Silver	mg/L	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300
Additional Parameters																
Bicarbonate Alkalinity as CaCO3	mg/L	43.4	65.6	60.5	68.2	225	52.3	25.6	157	25.1	49.8	122	10.0	7.90	120	50.6
Carbonate Alkalinity as CaCO3	mg/L	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725
Total Alkalinity as CaCO3	mg/L	43.4	65.6	60.5	68.2	225	52.3	25.6	157	25.1	49.8	122	10.0	7.90	120	50.6
Aluminum	mg/L	0.112	< 0.0193	0.0608	0.0483 J	< 0.0193	0.0280 J	< 0.0193	0.0332 J	0.331	0.275	2.11	0.0246 J	0.0392 J	0.451	< 0.0193
Iron	mg/L	0.232	< 0.0330	0.0665 J	0.0576 J	< 0.0330	0.0467 J	0.0347 J	0.0372 J	0.226	0.166	2.76	< 0.0330	0.169	1.63	1.06
Iron, Dissolved	mg/L	< 0.0330	< 0.0330	< 0.0330	< 0.0330	< 0.0330	0.0578 J	< 0.0330	< 0.0330	< 0.0330	< 0.0330	< 0.0330	< 0.0330	0.137	1.32	1.31
Magnesium	mg/L	3.65	6.45	7.68	114	8.55	5.80	7.73	19.7	2.10	4.07	9.14	48.3	21.2	40.5	146
Manganese	mg/L	0.00388 J	0.00296 J	0.00128 J	0.00805	< 0.00100	0.00264 J	0.00109 J	0.349	0.00683	0.00512	0.0260	0.315	1.33	0.902	0.522
Manganese, Dissolved	mg/L	< 0.00100	0.00244 J	< 0.00100	0.00630	0.00224 J	0.00285 J	< 0.00100	0.339	< 0.00100	0.00171 J	< 0.00100	0.308	1.32	0.903	0.547
Nitrate Nitrite	mg/L	0.297	0.426	0.512	1.17	0.264	0.326	0.254	< 0.00700	0.696	0.160	0.536	0.547	0.440	< 0.00700	0.0320
Potassium	mg/L	1.06	1.58	1.94	3.98	2.99	0.764	0.918	1.73	1.71	0.742	7.57	4.24	1.17	2.29	11.4
Sodium	mg/L	7.53	12.7	12.0	17.5	56.0	11.9	5.67	13.4	6.57	9.85	8.39	17.2	8.09	11.9	28.7

Notes:
mg/L - milligrams per liter
pCi/L - picocuries per liter
SU - Standard Units
NA - Indicates not analyzed
< indicates the substance was not detected above the method detection limit (MDL). The value displayed is the MDL.
J - The result is an estimated concentration. “J” qualifiers are applied by the laboratory when the concentration reported is above the method detection limit, but below the laboratory reporting limit.
H - Sample analysis performed beyond the recognized method holding time.
Radium data are a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
** - pH was measured on 8/21/2024, the last reading before well went dry. pH was not measured at sampling time due to limited recharge.

TABLE 6
ANALYTICAL DATA SUMMARY - SURFACE WATER, AUGUST 2024
Georgia Power Company - Plant Arkwright
Ash Pond 3 Landfill and Monofill
Macon, GA

Sample Location		BT-1.6	BT-1.3	BT-1.2	BT-1.1	BT-1.0	BC-0.8b
Sample Date		08/12/2024	08/12/2024	08/12/2024	08/12/2024	08/12/2024	08/12/2024
ANALYTE	UNITS						
APPENDIX III							
Boron	mg/L	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040
Calcium	mg/L	8.8	10.4	10.4	9.8	5.9	11.0
Chloride	mg/L	5.5	4.3	4.1	3.9	3.7	7.7
Fluoride	mg/L	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
pH, Field	SU	6.83	6.63	6.75	7.21	7.33	7.40
Sulfate	mg/L	2.3	2.5	2.3	3.3	5.1	4.2
TDS	mg/L	208	100	89.0	122	90.0	118
APPENDIX IV							
Cobalt	mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Additional Parameters							
Alkalinity Total as CaCO3	mg/L	48.6	58.6	59.7	54.1	37.5	54.7
Bicarbonate Alkalinity as CaCO3	mg/L	48.6	58.6	59.7	54.1	37.5	54.7
Magnesium	mg/L	4.9	6.3	6.3	5.8	4.9	4.7
Potassium	mg/L	1.8	0.79	< 0.50	< 0.50	0.88	2.3
Sodium	mg/L	5.7	6.4	6.2	6.0	5.6	8.7

Notes:
mg/L - milligrams per liter
SU - Standard Units
NA - Indicates not analyzed
< indicates the substance was not detected above the reporting limit (RL). The value displayed is the RL.
J - The result is an estimated concentration. "J" qualifiers are applied by the laboratory when the concentration reported is above the method detection limit, but below the laboratory reporting limit.
H - Sample analysis performed beyond the recognized method holding time.

TABLE 7
SUMMARY OF GROUNDWATER PROTECTION STANDARDS
Georgia Power Company - Plant Arkwright
Ash Pond 3 Landfill and Monofill
Macon, Georgia

PLANT ARKWRIGHT AP-3 LANDFILL GWPS					
Constituent Name	**UNITS**	**MCL**	**CCR-Rule Specified[1]**	**Site Specific Background Limit[2] August 2024**	**State GWPS August 2024**
Antimony	mg/L	0.006		0.003	0.006
Arsenic	mg/L	0.01		0.006	0.01
Barium	mg/L	2		0.24	2
Beryllium	mg/L	0.004		0.0005	0.004
Cadmium	mg/L	0.005		0.0043	0.005
Chromium	mg/L	0.1		0.014	0.1
Cobalt	mg/L	n/a	0.006	0.0058	0.006
Combined Radium	pCi/L	5		4.25	5
Fluoride	mg/L	4		0.53	4
Lead	mg/L	n/a	0.015	0.013	0.015
Lithium	mg/L	n/a	0.04	0.01	0.04
Mercury	mg/L	0.002		0.0002	0.002
Molybdenum	mg/L	n/a	0.1	0.004	0.1
Selenium	mg/L	0.05		0.034	0.05
Silver	mg/L	n/a		0.0051	0.0051
Thallium	mg/L	0.002		0.002	0.002

Notes:

mg/L - milligrams per liter

piC/L - picoCuries per liter

n/a - constituent does not have an established MCL

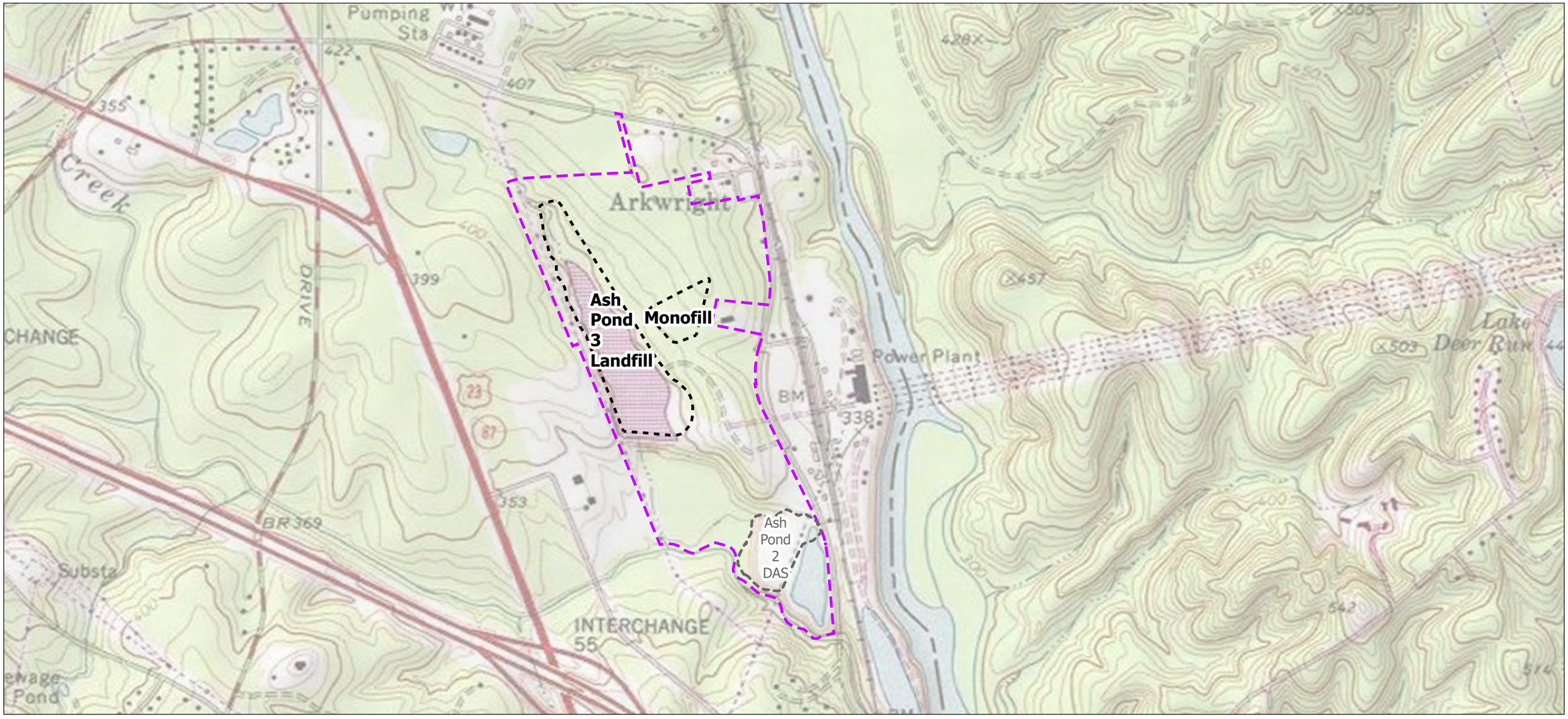
MCL - Maximum Contaminant Level

GWPS - Groundwater Protection Standard
CCR - Coal Combustion Residuals

[1] GA EPD incorporated the US EPA GWPS into the current GA EPD Rules for Solid Waste Management 391-3-4-.10(6)(a) on February 22, 2022.

[2] The background limits are evaluated when determining the groundwater protection standard (GWPS) under 40 CFR § 257.95(h) and 391-3-4-.10(6)(a).

FIGURES



Notes

1. Coordinate System: NAD 1983 StatePlane Georgia West FIPS 1002 Feet
2. Data Sources: Tax Parcel and AP-3 Landfill Boundary provided by Southern Company Services and Wood Environment & Infrastructure Solutions
3. Background: Copyright© 2013 National Geographic Society, i-cubed, Esri, TomTom, Garmin, SafeGraph, FAO, METI/NASA, USGS, EPA, NPS, USFWS

Legend

- Approximate Property Boundary
- Ash Pond 2 Dry Ash Stockpile (DAS) (approximate location)
- Ash Pond 3 Landfill and Monofill (approximate location)

0 1,000 2,000 Feet

(At original document size of 11x17)
1:12,000

N

Stantec

Georgia Power

Project Location
Macon, Georgia

Prepared by DMB on 1/9/2025
TR by CS on 1/9/2025
IR by JK on 1/9/2025

Client/Project 175569434
Georgia Power
2024 Semi-Annual Groundwater Monitoring and Corrective Action Report - Plant Arkwright Ash Pond 3 Landfill and Monofill

Figure No.
1

Title
Site Location Map

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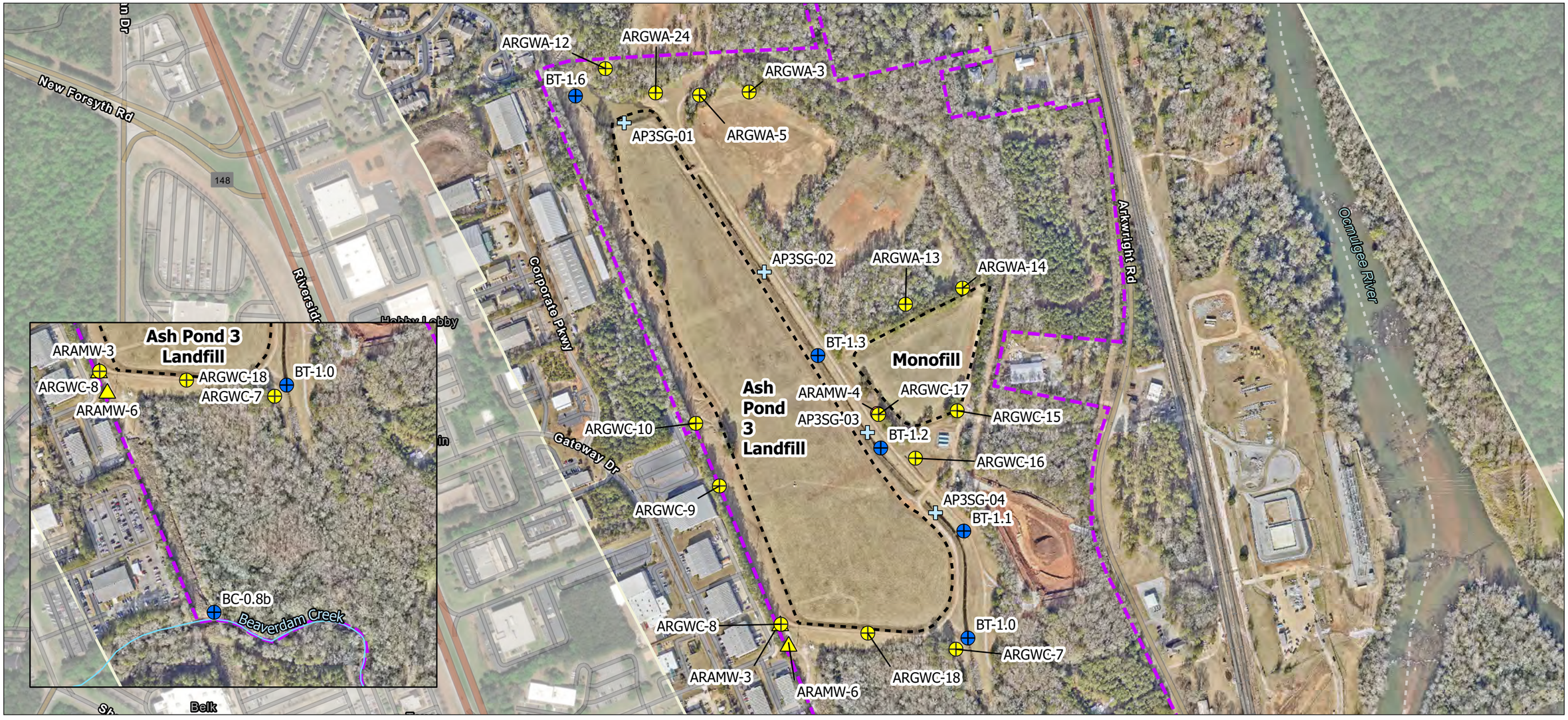

Legend

- Detection Monitoring Well
- Assessment Monitoring Well
- Piezometer
- Staff Gauge
- Surface Water Sampling Location
- Approximate Property Boundary
- Ash Pond 3 Landfill and Monofill (approximate location)
- Limit of Client Imagery (dated 1/22/2024)

0 450 900 Feet

(At original document size of 11x17)
1:5,400

N

Notes

1. Coordinate System: NAD 1983 StatePlane Georgia West FIPS 1002 Feet
2. Data Sources: Ash Pond Boundaries, Surface Water Samples, Monitoring Wells, Piezometers, Property Boundary, and Beaverdam Creek locations provided by Southern Company Services and Wood Environment & Infrastructure Solutions
3. Background: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community, Esri, TomTom, Garmin, SafeGraph, FAO, METI/NASA, USGS, EPA, NPS, USFWS, Esri Community Maps Contributors, © OpenStreetMap, Microsoft, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA, USFWS. Plant imagery provided by client and is dated 1/22/2024.

Stantec

Georgia Power

Project Location
Macon, Georgia

Prepared by DMB on 2/10/2025
TR by CS on 2/10/2025
IR by JK on 2/10/2025

Client/Project 175569434
Georgia Power
2024 Semi-Annual Groundwater Monitoring and Corrective Action Report - Plant Arkwright Ash Pond 3 Landfill and Monofill

Figure No.
2

Title
Detection Monitoring Network Well, Assessment Monitoring Well, Piezometer, and Sampling Locations Map

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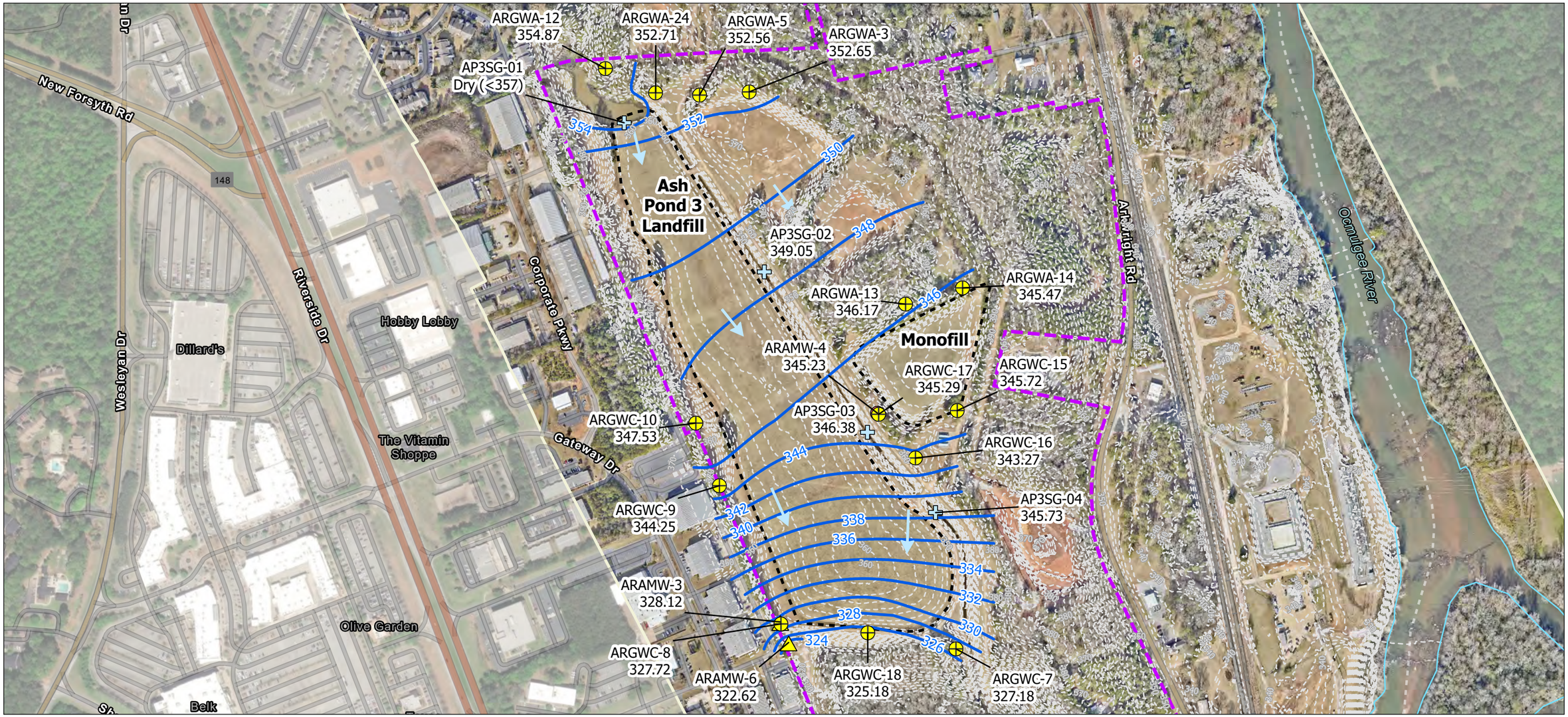

Notes

1. Coordinate System: NAD 1983 StatePlane Georgia West FIPS 1002 Feet
2. Data Sources: Ash Pond Boundaries, Monitoring Wells, Property Boundary, Topography, and Beaverdam Creek provided by Southern Company Services and Wood Environment & Infrastructure Solutions; Contours, Flow Arrow, and Ocmulgee River provided by Stantec
3. Background: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community, Esri, TomTom, Garmin, SafeGraph, FAO, METI/NASA, USGS, EPA, NPS, USFWS, Esri Community Maps Contributors, © OpenStreetMap, Microsoft, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA, USFWS. Plant imagery provided by client and is dated 1/22/2024.

Legend

- Detection Monitoring Well
- Assessment Monitoring Well
- Piezometer
- Staff Gauge
- Interpreted Groundwater Flow Direction
- Potentiometric Surface Contour (feet (ft) NAVD88)
- Ocmulgee River (Approximate)
- Topographic Contour 2024 (2 ft interval)
- Approximate Property Boundary
- Ash Pond 3 Landfill and Monofill (approximate location)

Limit of Client Imagery (dated 1/22/2024)

328.12 Groundwater Elevation (ft NAVD88)
NAVD88 - North American Vertical Datum of 1988

KATIE T. ROSS
GEORGIA REGISTERED PROFESSIONAL GEOLOGIST
No. 1776

0 450 900 Feet
(At original document size of 11x17)
1:5,400

N

Stantec

Georgia Power

Project Location
Macon, Georgia

Prepared by DMB on 2/10/2025
TR by CS on 2/10/2025
IR by JK on 2/10/2025

Client/Project
175569434
Georgia Power
2024 Semi-Annual Groundwater Monitoring and Corrective Action Report - Plant Arkwright Ash Pond 3 Landfill and Monofill

Figure No.
3

Title
Potentiometric Surface Contour Map Ash Pond 3 Landfill and Monofill - August 19, 2024

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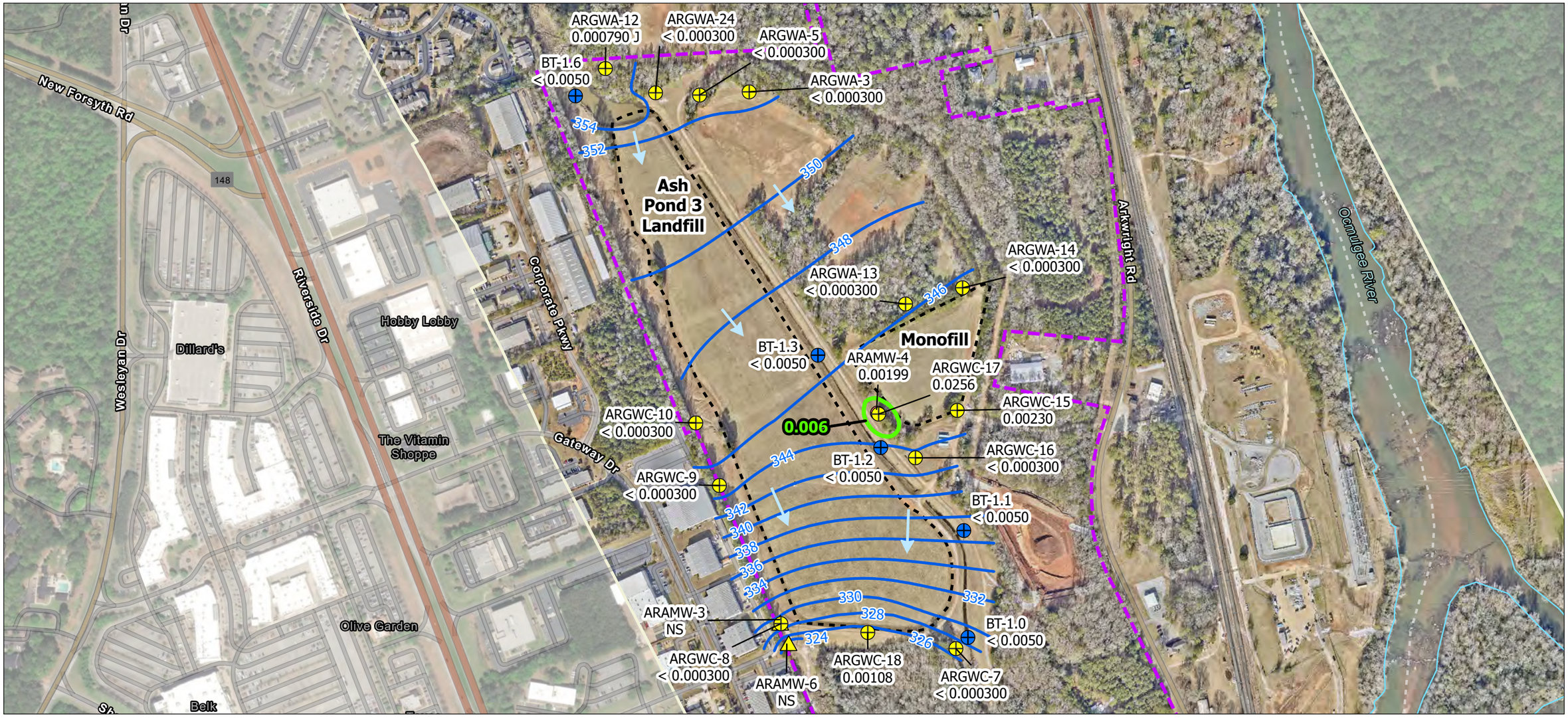

Notes

1. Coordinate System: NAD 1983 StatePlane Georgia West FIPS 1002 Feet

2. Data Sources: Ash Pond Boundaries, Monitoring Wells, Property Boundary, Topography, and Beaverdam Creek provided by Southern Company Services and Wood Environment & Infrastructure Solutions; Contours, Flow Arrow, and Ocmulgee River provided by Stantec

3. Background: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community, Esri, TomTom, Garmin, SafeGraph, FAO, METI/NASA, USGS, EPA, NPS, USFWS, Esri Community Maps Contributors, © OpenStreetMap, Microsoft, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA, USFWS. Plant imagery provided by client and is dated 1/22/2024.

Legend

- Detection Monitoring Well
- Assessment Monitoring Well
- Piezometer
- Surface Water Sampling Location
- Cobalt Concentration Contour Aug 2024 (mg/L)
- Interpreted Groundwater Flow Direction
- Potentiometric Surface Contour (feet (ft) NAVD88)
- Ocmulgee River (Approximate)
- Approximate Property Boundary
- Ash Pond 3 Landfill and Monofill (approximate location)
- Limit of Client Imagery (dated 1/22/2024)

0.00108 Cobalt Concentration milligrams per Liter (mg/L)

Isoconcentration Notes:

Cobalt concentration data from groundwater and surface water samples collected during the August 2024 monitoring event.

J indicates the constituent was detected between the analytical method detection limit and the laboratory reporting limit. The value followed by J is qualified by the laboratory as estimated.

GWPS - Groundwater Protection Standard

mg/L - milligrams per liter

NS - Not Sampled

Analyte	Units	GWPS
Cobalt	mg/L	0.006

0 450 900 Feet

(At original document size of 11x17)
1:5,400

N

Stantec

Georgia Power

Project Location
Macon, Georgia

Prepared by DMB on 2/10/2025
TR by RM on 2/10/2025
IR by JK on 2/10/2025

Client/Project 175569434
Georgia Power
2024 Semi-Annual Groundwater Monitoring and Corrective Action Report - Plant Arkwright Ash Pond 3 Landfill and Monofill

Figure No.
4

Title
Isoconcentration Map for Cobalt AP-3 Landfill and Monofill – August 2024

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Appendix A
Well Inspections

	Location/Identification				Protective Casing				
Well ID:	Visible and accessible	Properly identified with correct well ID	Located in high traffic area; does the well require protection from traffic	Acceptable drainage around well (no standing water, not located in obvious drainage flow path)	Free from apparent damage and able to be secured	No degradation or deterioration	Functioning weep hole	Annular space clear of debris and water, or filled with pea gravel/sand	Locked and is the lock in good condition
AP-3									
ARGWA-3	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
ARGWA-5	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
ARGWA-12	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	No
ARGWA-13	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
ARGWA-14	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	No
ARGWA-24	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
ARGWC-15	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
ARGWC-16	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
ARGWC-17	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
ARGWC-18	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
ARAMW-4	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
ARGWC-7	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
ARGWC-8	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
ARGWC-9	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
ARGWC-10	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes

Completed by JM/DQ 8/19/24
Checked by AS 8/22/24

Surface Pad			Internal Casing			
Good condition (not cracked/ broken)	Sloped away from the protective casing	In complete contact with the ground surface and stable	Cap prevents entry of foreign material into the well	Free of kinks/bends, or any obstructions from foreign objects (such as bailers)	Properly vented for equilibration of air pressure	**Corrective actions as needed, by date:**
Yes	Yes	Yes	Yes	Yes	Yes	NA
Yes	Yes	Yes	Yes	Yes	Yes	NA
Yes	Yes	Yes	Yes	Yes	Yes	Rusted lock replaced by Stantec on 9/19/24
Yes	Yes	Yes	Yes	Yes	Yes	NA
Yes	Yes	No	Yes	Yes	Yes	Rusted lock replaced by Stantec on 9/19/24
Yes	Yes	Yes	No	Yes	Yes	PVC end cap placed over well riser opening with transducer hanger by Stantec on 9/19/24
Yes	Yes	Yes	Yes	Yes	Yes	NA
Yes	Yes	Yes	Yes	Yes	Yes	NA
Yes	Yes	Yes	Yes	Yes	Yes	NA
Yes	Yes	Yes	Yes	Yes	Yes	NA
Yes	Yes	Yes	No	Yes	Yes	PVC end cap placed over well riser opening with transducer hanger by Stantec on 9/19/24
Yes	Yes	Yes	Yes	Yes	Yes	NA
Yes	Yes	Yes	Yes	Yes	Yes	NA
Yes	Yes	Yes	Yes	Yes	Yes	NA
Yes	Yes	Yes	Yes	Yes	Yes	NA

Appendix B
Field Sampling Data and Analytical Data Reports

B.1 Field Sampling Data

Low-Flow Test Report:

Test Date / Time: 8/21/2024 3:30:51 PM
Project: Arkwright
Operator Name: Dylan Quintal

Location Name: Arkwright, AP3, ARAMW-4 **Latitude: 32.928419236891** **Longitude: -83.7057181075215** **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 47.63 ft** **Total Depth: 57.66 ft** **Initial Depth to Water: 22.71 ft**	**Pump Type: Peristaltic Pump** **Tubing Type: LDPE** **Pump Intake From TOC: 52.7 ft** **Estimated Total Volume Pumped: 9000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 450 ml/min** **Final Draw Down: 0.28 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080302**

Test Notes:
Pump speed: 5
Hydrogen sulfide: 0.0 mg/L

Weather Conditions:
Mostly sunny, 86F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.3	
8/21/2024 3:30 PM	00:00	5.70 pH	24.85 °C	1,977.6 µS/cm	0.25 mg/L	9.84 NTU	54.2 mV	22.99 ft	450.00 ml/min
8/21/2024 3:35 PM	05:00	5.63 pH	20.73 °C	2,143.8 µS/cm	0.22 mg/L	2.54 NTU	68.6 mV	22.99 ft	450.00 ml/min
8/21/2024 3:40 PM	10:00	5.61 pH	20.78 °C	2,171.1 µS/cm	0.18 mg/L	4.25 NTU	67.5 mV	22.99 ft	450.00 ml/min
8/21/2024 3:45 PM	15:00	5.61 pH	20.92 °C	2,159.1 µS/cm	0.18 mg/L	3.00 NTU	69.8 mV	22.99 ft	450.00 ml/min
8/21/2024 3:50 PM	20:00	5.62 pH	21.08 °C	2,142.9 µS/cm	0.15 mg/L	3.10 NTU	66.8 mV	22.99 ft	450.00 ml/min

Samples

Sample ID:	Description:
ARK-AP3-FB-04	7 bottles at 1515: Metals, TDS, anions, nitrate/nitrite, radium
ARK-ARAMW-4	9 bottles at 1555: Metals, field filtered dissolved metals, anions, TDS, alkalinity, nitrate/nitrite, radium

Low-Flow Test Report:

Test Date / Time: 8/20/2024 4:25:41 PM
Project: Arkwright
Operator Name: J.Myer

Location Name: ARGWA-3 **Latitude: 32.93241344497616** **Longitude: -83.70756171412944** **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 32.1 ft** **Total Depth: 42.3 ft** **Initial Depth to Water: 35.7 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: LDPE** **Pump Intake From TOC: 41.9 ft** **Estimated Total Volume Pumped: 6250 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 250 ml/min** **Final Draw Down: 0.25 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1082817**

Test Notes:
MP-50 S/N: 22
ID: 103
PSI: 30
Turbidimeter S/N: 22990D000345
WL S/N: T11DF2106090ML
H-S: 0.0 mg/L

Weather Conditions:
Sunny 90 F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.5	
8/20/2024 4:25 PM	00:00	6.90 pH	31.48 °C	85.35 µS/cm	5.42 mg/L	9.46 NTU	110.7 mV	35.80 ft	250.00 ml/min
8/20/2024 4:30 PM	05:00	6.13 pH	22.04 °C	90.17 µS/cm	6.58 mg/L	6.57 NTU	143.8 mV	35.90 ft	250.00 ml/min
8/20/2024 4:35 PM	10:00	6.08 pH	21.59 °C	90.13 µS/cm	6.14 mg/L	6.61 NTU	108.0 mV	35.95 ft	250.00 ml/min
8/20/2024 4:40 PM	15:00	6.05 pH	21.42 °C	89.46 µS/cm	6.07 mg/L	4.60 NTU	103.1 mV	35.95 ft	250.00 ml/min
8/20/2024 4:45 PM	20:00	6.06 pH	21.02 °C	88.87 µS/cm	6.06 mg/L	4.90 NTU	101.5 mV	35.95 ft	250.00 ml/min
8/20/2024 4:50 PM	25:00	6.05 pH	21.06 °C	89.44 µS/cm	6.06 mg/L	4.42 NTU	96.2 mV	35.95 ft	250.00 ml/min

Samples

Sample ID:	Description:

ARK-ARGWA-3	9 bottles filled at 1655 1 Metals 1 Dissolved Metals 1 Alkalinity 1 Anions 1 TDS 1 Nitrate/Nitrite 3 Ra-226/Ra-228

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/21/2024 9:09:44 AM
Project: Arkwright
Operator Name: J. Bankston

Location Name: **Arkwright-ARGWA-5** **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 22.3 ft** **Total Depth: 32.6 ft** **Initial Depth to Water: 23.7 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: LDPE** **Pump Intake From TOC: 30.9 ft** **Estimated Total Volume Pumped: 6000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 300 ml/min** **Final Draw Down: 0.18 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080306**

Test Notes:
MP-50 SN: 23,
ID: 100
40 PSI
Heron dipper-T SN 11DF2206168HB
H2S: 0.0 mg/L

Weather Conditions:
Sunny 82F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.3	
8/21/2024 9:09 AM	00:00	5.71 pH	18.98 °C	197.48 µS/cm	5.00 mg/L	2.12 NTU	151.7 mV	23.84 ft	300.00 ml/min
8/21/2024 9:14 AM	05:00	5.72 pH	18.95 °C	195.90 µS/cm	4.79 mg/L	2.80 NTU	118.1 mV	23.88 ft	300.00 ml/min
8/21/2024 9:19 AM	10:00	5.72 pH	18.95 °C	195.44 µS/cm	4.66 mg/L	1.81 NTU	134.6 mV	23.89 ft	300.00 ml/min
8/21/2024 9:24 AM	15:00	5.72 pH	18.95 °C	194.35 µS/cm	4.57 mg/L	1.10 NTU	129.3 mV	23.90 ft	300.00 ml/min
8/21/2024 9:29 AM	20:00	5.72 pH	18.92 °C	193.49 µS/cm	4.58 mg/L	1.10 NTU	100.9 mV	23.88 ft	300.00 ml/min

Samples

Sample ID:	Description:
ARK-ARGWA-5	Sample Time: 0940; 9 bottles: Metals, Anions, TDS, Radium, nitrate/nitrite, alkalinity, Fe2+/Mn2+

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/20/2024 4:06:02 PM
Project: Arkwright
Operator Name: Dylan Quintal

Location Name: Arkwright, AP-3, ARGWA-12 **Latitude: 32.932653574922746** **Longitude: -83.7096593146499** **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 23.5 ft** **Total Depth: 33.8 ft** **Initial Depth to Water: 17.06 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: LDPE** **Pump Intake From TOC: 26.7 ft** **Estimated Total Volume Pumped: 2000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 100 ml/min** **Final Draw Down: 0.39 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080302**

Test Notes:
ID: 98, Pressure: 15 psi, Hydrogen sulfide: 0.0 mg/L

Weather Conditions:
Sunny, 88F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.3	
8/20/2024 4:06 PM	00:00	6.02 pH	22.44 °C	195.44 µS/cm	3.09 mg/L	5.56 NTU	122.8 mV	17.41 ft	100.00 ml/min
8/20/2024 4:11 PM	05:00	6.00 pH	21.55 °C	192.52 µS/cm	3.09 mg/L	5.37 NTU	159.1 mV	17.45 ft	100.00 ml/min
8/20/2024 4:16 PM	10:00	5.99 pH	21.46 °C	187.96 µS/cm	3.00 mg/L	4.85 NTU	124.3 mV	17.45 ft	100.00 ml/min
8/20/2024 4:21 PM	15:00	5.97 pH	21.48 °C	183.69 µS/cm	2.88 mg/L	3.80 NTU	124.6 mV	17.45 ft	100.00 ml/min
8/20/2024 4:26 PM	20:00	5.96 pH	21.52 °C	179.66 µS/cm	2.75 mg/L	3.40 NTU	125.9 mV	17.45 ft	100.00 ml/min

Samples

Sample ID:	Description:
ARK-ARGWA-12	9 bottles at 1630: metals, field, filtered, dissolved metals, anions, TDS, alkalinity, nitrate/nitrite, radium.

Low-Flow Test Report:

Test Date / Time: 8/21/2024 10:25:24 AM
Project: Arkwright
Operator Name: Dylan Quintal

Location Name: Arkwright, AP3, ARGWA-13 **Latitude: 32.929695159363** **Longitude: -83.7053724378347** **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 33.9 ft** **Total Depth: 44.2 ft** **Initial Depth to Water: 25.5 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: LDPE** **Pump Intake From TOC: 38.3 ft** **Estimated Total Volume Pumped: 3500 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 100 ml/min** **Final Draw Down: 0.11 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080302**

Test Notes:
ID: 98
Pressure: 20 psi Hydrogen
sulfide: 0.0 mg/L

Weather Conditions:
Mostly sunny, 75F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.3	
8/21/2024 10:25 AM	00:00	6.00 pH	21.26 °C	1,353.9 µS/cm	4.06 mg/L	11.20 NTU	108.1 mV	25.61 ft	100.00 ml/min
8/21/2024 10:30 AM	05:00	5.85 pH	19.84 °C	1,533.3 µS/cm	1.82 mg/L	13.30 NTU	121.6 mV	25.61 ft	100.00 ml/min
8/21/2024 10:35 AM	10:00	5.83 pH	19.57 °C	1,523.8 µS/cm	1.73 mg/L	12.70 NTU	127.9 mV	25.61 ft	100.00 ml/min
8/21/2024 10:40 AM	15:00	5.82 pH	19.47 °C	1,517.5 µS/cm	1.74 mg/L	10.20 NTU	132.4 mV	25.61 ft	100.00 ml/min
8/21/2024 10:45 AM	20:00	5.81 pH	19.47 °C	1,510.1 µS/cm	1.66 mg/L	4.84 NTU	136.3 mV	25.61 ft	100.00 ml/min
8/21/2024 10:50 AM	25:00	5.80 pH	19.44 °C	1,517.8 µS/cm	1.52 mg/L	4.37 NTU	138.3 mV	25.61 ft	100.00 ml/min
8/21/2024 10:55 AM	30:00	5.79 pH	19.49 °C	1,521.2 µS/cm	1.40 mg/L	3.30 NTU	139.8 mV	25.61 ft	100.00 ml/min
8/21/2024 11:00 AM	35:00	5.79 pH	19.50 °C	1,526.2 µS/cm	1.33 mg/L	3.00 NTU	140.3 mV	25.61 ft	100.00 ml/min

Samples

Sample ID:	Description:

ARK-ARGWA-13	9 bottles at 1105: metals, field filtered dissolved metals, anions, TDS, alkalinity, nitrate/nitrite, radium.

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/21/2024 8:51:09 AM
Project: Arkwright
Operator Name: Z Levy

Location Name: ARGWA-14 **Latitude: 32.92988022972316** **Longitude: -83.70457717787276** **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 49 ft** **Total Depth: 59.3 ft** **Initial Depth to Water: 42.79 ft**	**Pump Type: Dedicated bladder Pump** **Tubing Type: LDPE** **Pump Intake From TOC: 52.9 ft** **Estimated Total Volume Pumped: 6500 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 100 ml/min** **Final Draw Down: 6.55 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 989619**

Test Notes:
HS: 0.0 mg/l
CPM:4
ID: 99
PSI: 30
Well purged dry. Will sample the following day.

Weather Conditions:
Clear 22 degrees Celsius

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.33	
8/21/2024 8:51 AM	00:00	6.85 pH	21.64 °C	496.14 µS/cm	6.72 mg/L	1.21 NTU	91.7 mV	44.90 ft	100.00 ml/min
8/21/2024 8:56 AM	05:00	6.85 pH	20.65 °C	494.99 µS/cm	7.18 mg/L	1.06 NTU	77.5 mV	45.76 ft	100.00 ml/min
8/21/2024 9:01 AM	10:00	6.81 pH	20.66 °C	450.40 µS/cm	7.30 mg/L	0.79 NTU	104.6 mV	46.42 ft	100.00 ml/min
8/21/2024 9:06 AM	15:00	6.76 pH	20.67 °C	380.97 µS/cm	7.27 mg/L	0.78 NTU	86.5 mV	47.14 ft	100.00 ml/min
8/21/2024 9:11 AM	20:00	6.69 pH	20.78 °C	329.09 µS/cm	7.21 mg/L	0.53 NTU	87.6 mV	47.85 ft	100.00 ml/min
8/21/2024 9:16 AM	25:00	6.65 pH	20.87 °C	302.21 µS/cm	7.13 mg/L	0.55 NTU	88.0 mV	48.35 ft	100.00 ml/min
8/21/2024 9:21 AM	30:00	6.63 pH	20.96 °C	280.11 µS/cm	7.04 mg/L	0.53 NTU	88.2 mV	48.47 ft	100.00 ml/min
8/21/2024 9:26 AM	35:00	6.63 pH	20.95 °C	269.01 µS/cm	7.03 mg/L	0.49 NTU	87.8 mV	48.60 ft	100.00 ml/min
8/21/2024 9:31 AM	40:00	6.66 pH	20.94 °C	296.93 µS/cm	7.04 mg/L	0.56 NTU	86.2 mV	48.98 ft	100.00 ml/min
8/21/2024 9:36 AM	45:00	6.73 pH	21.01 °C	378.11 µS/cm	6.99 mg/L	0.80 NTU	84.0 mV	49.34 ft	100.00 ml/min

8/21/2024 9:41 AM	50:00	6.77 pH	21.05 °C	436.76 µS/cm	6.88 mg/L	1.19 NTU	82.7 mV	49.34 ft	100.00 ml/min
8/21/2024 9:46 AM	55:00	6.79 pH	21.20 °C	458.14 µS/cm	6.80 mg/L	1.65 NTU	81.9 mV	49.34 ft	100.00 ml/min
8/21/2024 9:51 AM	01:00:00	6.80 pH	21.36 °C	469.36 µS/cm	6.80 mg/L	1.67 NTU	81.6 mV	49.34 ft	100.00 ml/min
8/21/2024 9:56 AM	01:05:00	6.80 pH	21.69 °C	478.71 µS/cm	6.83 mg/L	1.45 NTU	81.3 mV	49.34 ft	100.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/20/2024 4:38:44 PM
Project: Arkwright
Operator Name: J. Bankston

Location Name: ARGWA-24 **Latitude: 32.932321285407376** **Longitude: -83.70893533891993** **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 17.9 ft** **Total Depth: 28.2 ft** **Initial Depth to Water: 21.06 ft**	**Pump Type: Peristaltic Pump** **Tubing Type: LDPE** **Pump Intake From TOC: 23.0 ft** **Estimated Total Volume Pumped: 4375 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 175 ml/min** **Final Draw Down: 0.06 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080306**

Test Notes:
Heron dipper-T SN 11DF2206168HB
H2S: 0.0 mg/L

Weather Conditions:
Sunny 90F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.3	
8/20/2024 4:38 PM	00:00	5.72 pH	26.06 °C	137.57 µS/cm	1.51 mg/L	1.39 NTU	154.0 mV	21.12 ft	175.00 ml/min
8/20/2024 4:43 PM	05:00	5.71 pH	23.46 °C	141.39 µS/cm	1.39 mg/L	0.95 NTU	146.4 mV	21.12 ft	175.00 ml/min
8/20/2024 4:48 PM	10:00	5.73 pH	22.93 °C	141.90 µS/cm	1.34 mg/L	1.33 NTU	141.4 mV	21.12 ft	175.00 ml/min
8/20/2024 4:53 PM	15:00	5.70 pH	22.88 °C	142.44 µS/cm	1.43 mg/L	1.16 NTU	139.8 mV	21.12 ft	175.00 ml/min
8/20/2024 4:58 PM	20:00	5.70 pH	22.60 °C	141.89 µS/cm	1.54 mg/L	2.11 NTU	137.6 mV	21.12 ft	175.00 ml/min
8/20/2024 5:03 PM	25:00	5.71 pH	22.60 °C	142.66 µS/cm	1.51 mg/L	1.12 NTU	135.2 mV	21.12 ft	175.00 ml/min

Samples

Sample ID:	Description:
ARK-ARGWA-24	Sample Time: 1710; 9 bottles: Metals, Anions, TDS, Radium, nitrate/nitrite, Alkalinity, Fe2+/Mn2+

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/21/2024 3:30:53 PM
Project: Arkwright
Operator Name: J. Bankston

Location Name: **Arkwright-ARGWC-7** **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 38.3 ft** **Total Depth: 48.6 ft** **Initial Depth to Water: 25.27 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: LDPE** **Pump Intake From TOC: 42.2 ft** **Estimated Total Volume Pumped: 4000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.13 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080306**

Test Notes:
MP-50 SN: 23,
ID: 100
30: PSI
Heron dipper-T SN 11DF2206168HB
H2S: 0.0 mg/L

Weather Conditions:
Sunny 88F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.3	
8/21/2024 3:30 PM	00:00	5.80 pH	24.29 °C	144.81 µS/cm	4.81 mg/L	6.63 NTU	176.8 mV	25.40 ft	200.00 ml/min
8/21/2024 3:35 PM	05:00	5.75 pH	21.85 °C	146.94 µS/cm	4.45 mg/L	3.89 NTU	147.6 mV	25.40 ft	200.00 ml/min
8/21/2024 3:40 PM	10:00	5.76 pH	21.28 °C	147.02 µS/cm	4.35 mg/L	1.97 NTU	133.2 mV	25.40 ft	200.00 ml/min
8/21/2024 3:45 PM	15:00	5.75 pH	21.11 °C	147.31 µS/cm	4.22 mg/L	2.17 NTU	128.3 mV	25.40 ft	200.00 ml/min
8/21/2024 3:50 PM	20:00	5.74 pH	21.18 °C	147.37 µS/cm	4.18 mg/L	1.10 NTU	120.7 mV	25.40 ft	200.00 ml/min

Samples

Sample ID:	Description:
ARK-ARGWC-7	Sample Time: 1600; 9 bottles: Metals, Anions, TDS, Radium, Alkalinity, Nitrate/Nitrite, Fe2+/Mn2+

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/21/2024 3:04:06 PM
Project: Arkwright
Operator Name: Z Levy

Location Name: ARGWC-8 **Latitude: 32.92576525829081** **Longitude: -83.70723975830126** **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 32.9 ft** **Total Depth: 43.2 ft** **Initial Depth to Water: 28.19 ft**	**Pump Type: Dedicated bladder pump** **Tubing Type: LDPE** **Pump Intake From TOC: 37 ft** **Estimated Total Volume Pumped: 8000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 400 ml/min** **Final Draw Down: 0.01 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 989619**

Test Notes:
CPM:4
ID: 102
PSI: 30
HS: 0.0 mg/l

Weather Conditions:
Clear 32 degrees Celsius

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.33	
8/21/2024 3:04 PM	00:00	6.41 pH	23.06 °C	401.11 µS/cm	0.27 mg/L	4.97 NTU	74.8 mV	28.20 ft	400.00 ml/min
8/21/2024 3:09 PM	05:00	6.43 pH	22.25 °C	412.58 µS/cm	0.23 mg/L	3.04 NTU	59.4 mV	28.20 ft	400.00 ml/min
8/21/2024 3:14 PM	10:00	6.53 pH	22.00 °C	412.76 µS/cm	0.22 mg/L	2.32 NTU	53.5 mV	28.20 ft	400.00 ml/min
8/21/2024 3:19 PM	15:00	6.52 pH	21.95 °C	413.52 µS/cm	0.20 mg/L	1.60 NTU	50.7 mV	28.20 ft	400.00 ml/min
8/21/2024 3:24 PM	20:00	6.51 pH	22.12 °C	414.51 µS/cm	0.17 mg/L	1.57 NTU	49.3 mV	28.20 ft	400.00 ml/min

Samples

Sample ID:	Description:

ARK-ARGWC-8	@ 1530 9 bottles Radium Metals Dissolved metals Nitrate/nitrite Anions TDS Alkalinity

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/21/2024 12:45:23 PM
Project: Arkwright
Operator Name: Z Levy

Location Name: ARGWC-9 **Latitude: 32.92749360672478** **Longitude: -83.70814315982508** **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 29.7 ft** **Total Depth: 40.1 ft** **Initial Depth to Water: 22.88 ft**	**Pump Type: Dedicated bladder pump** **Tubing Type: LDPE** **Pump Intake From TOC: 32.9 ft** **Estimated Total Volume Pumped: 15750 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 450 ml/min** **Final Draw Down: 0.17 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 989619**

Test Notes:
CPM:4
ID: 102
PSI: 30
HS: 0.0mg/l

Weather Conditions:
Clear 32 degrees Celsius

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.33	
8/21/2024 12:45 PM	00:00	6.29 pH	26.77 °C	66.81 µS/cm	6.25 mg/L	2.95 NTU	93.4 mV	23.05 ft	450.00 ml/min
8/21/2024 12:50 PM	05:00	6.04 pH	22.25 °C	72.50 µS/cm	7.11 mg/L	2.07 NTU	92.0 mV	23.05 ft	450.00 ml/min
8/21/2024 12:55 PM	10:00	6.03 pH	22.16 °C	72.35 µS/cm	7.11 mg/L	1.15 NTU	120.2 mV	23.05 ft	450.00 ml/min
8/21/2024 1:00 PM	15:00	6.02 pH	21.97 °C	72.44 µS/cm	7.09 mg/L	1.00 NTU	123.1 mV	23.05 ft	450.00 ml/min
8/21/2024 1:05 PM	20:00	6.31 pH	22.08 °C	72.89 µS/cm	7.17 mg/L	1.00 NTU	124.6 mV	23.05 ft	450.00 ml/min
8/21/2024 1:10 PM	25:00	6.04 pH	21.76 °C	72.38 µS/cm	7.11 mg/L	0.85 NTU	125.4 mV	23.05 ft	450.00 ml/min
8/21/2024 1:15 PM	30:00	6.01 pH	21.77 °C	72.70 µS/cm	7.15 mg/L	0.95 NTU	125.8 mV	23.05 ft	450.00 ml/min
8/21/2024 1:20 PM	35:00	5.97 pH	21.93 °C	72.75 µS/cm	7.16 mg/L	0.70 NTU	126.4 mV	23.05 ft	450.00 ml/min

Samples

Sample ID:	Description:

ARK-ARGWC-9	@ 1325 9 bottles Nitrate/nitrite Alkalinity Anions Metals Dissolved metals TDSradium
ARK-AP3 FD-05	7 bottles

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/21/2024 12:48:21 PM
Project: Arkwright
Operator Name: J.Myer

Location Name: ARGWC-10 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 28.1 ft** **Total Depth: 38.4 ft** **Initial Depth to Water: 23.22 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: LDPE** **Pump Intake From TOC: 32.9 ft** **Estimated Total Volume Pumped: 14250 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: 0.13 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1082817**

Test Notes:
MP-50 S/N: 22
ID: 103
PSI: 20
Turbidimeter S/N: 22990D000345
WL S/N: T11DF2106090ML
HS: 0.0 mg/L

Weather Conditions:
Sunny 83 F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.5	
8/21/2024 12:48 PM	00:00	6.26 pH	32.68 °C	113.86 µS/cm	4.60 mg/L	7.25 NTU	135.6 mV	23.35 ft	150.00 ml/min
8/21/2024 12:53 PM	05:00	6.00 pH	23.08 °C	112.06 µS/cm	4.33 mg/L	11.70 NTU	92.0 mV	23.35 ft	150.00 ml/min
8/21/2024 12:58 PM	10:00	6.01 pH	22.53 °C	112.26 µS/cm	4.14 mg/L	10.90 NTU	84.1 mV	23.35 ft	150.00 ml/min
8/21/2024 1:03 PM	15:00	6.03 pH	22.53 °C	111.87 µS/cm	3.99 mg/L	12.50 NTU	78.7 mV	23.35 ft	150.00 ml/min
8/21/2024 1:08 PM	20:00	6.02 pH	22.35 °C	111.29 µS/cm	3.95 mg/L	12.90 NTU	80.3 mV	23.35 ft	150.00 ml/min
8/21/2024 1:13 PM	25:00	6.02 pH	22.12 °C	110.51 µS/cm	3.87 mg/L	10.50 NTU	104.0 mV	23.35 ft	150.00 ml/min
8/21/2024 1:18 PM	30:00	5.99 pH	21.82 °C	110.54 µS/cm	3.88 mg/L	12.70 NTU	80.9 mV	23.35 ft	150.00 ml/min
8/21/2024 1:23 PM	35:00	6.00 pH	21.93 °C	110.00 µS/cm	3.88 mg/L	11.10 NTU	76.0 mV	23.35 ft	150.00 ml/min
8/21/2024 1:28 PM	40:00	5.99 pH	22.09 °C	109.59 µS/cm	3.84 mg/L	9.54 NTU	79.8 mV	23.35 ft	150.00 ml/min
8/21/2024 1:33 PM	45:00	5.99 pH	22.27 °C	109.09 µS/cm	3.78 mg/L	9.46 NTU	77.2 mV	23.35 ft	150.00 ml/min

8/21/2024 1:38 PM	50:00	5.98 pH	22.31 °C	109.50 µS/cm	3.85 mg/L	8.40 NTU	80.1 mV	23.35 ft	150.00 ml/min
8/21/2024 1:43 PM	55:00	5.97 pH	22.13 °C	108.90 µS/cm	3.83 mg/L	6.94 NTU	104.9 mV	23.35 ft	150.00 ml/min
8/21/2024 1:48 PM	01:00:00	5.95 pH	21.80 °C	108.16 µS/cm	3.83 mg/L	5.90 NTU	81.4 mV	23.35 ft	150.00 ml/min
8/21/2024 1:53 PM	01:05:00	5.96 pH	21.68 °C	108.05 µS/cm	3.86 mg/L	6.42 NTU	80.8 mV	23.35 ft	150.00 ml/min
8/21/2024 1:58 PM	01:10:00	5.96 pH	21.47 °C	108.46 µS/cm	3.86 mg/L	4.49 NTU	105.2 mV	23.35 ft	150.00 ml/min
8/21/2024 2:03 PM	01:15:00	5.96 pH	21.35 °C	108.00 µS/cm	3.84 mg/L	5.02 NTU	105.9 mV	23.35 ft	150.00 ml/min
8/21/2024 2:08 PM	01:20:00	5.97 pH	21.45 °C	107.54 µS/cm	3.82 mg/L	5.00 NTU	107.7 mV	23.35 ft	150.00 ml/min
8/21/2024 2:13 PM	01:25:00	5.96 pH	21.20 °C	106.88 µS/cm	3.80 mg/L	4.40 NTU	80.9 mV	23.35 ft	150.00 ml/min
8/21/2024 2:18 PM	01:30:00	5.96 pH	21.10 °C	106.51 µS/cm	3.79 mg/L	4.55 NTU	76.8 mV	23.35 ft	150.00 ml/min
8/21/2024 2:23 PM	01:35:00	5.96 pH	20.88 °C	107.65 µS/cm	3.82 mg/L	4.65 NTU	80.0 mV	23.35 ft	150.00 ml/min

Samples

Sample ID:	Description:
ARK-ARGWC-10	9 bottles filled at 1425 1 Dissolved Metals 1 Metals 1 Anions 1 Alkalinity 1 TDS 1 Nitrate/Nitrite 3 Ra-226/Ra-228
ARK-AP3-EB-05	7 bottles filled at 1455 1 Metals 1 Anions 1 TDS 1 Nitrate/Nitrite 3 Ra-226/Ra-228

Low-Flow Test Report:

Test Date / Time: 8/21/2024 10:48:36 AM
Project: Arkwright
Operator Name: Z Levy

Location Name: ARGWC-15 **Latitude: 32.928370353796524** **Longitude: -83.70462100029336** **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 33.6 ft** **Total Depth: 43.9 ft** **Initial Depth to Water: 30.01 ft**	**Pump Type: Dedicated bladder pump** **Tubing Type: LDPE** **Pump Intake From TOC: 36.9 ft** **Estimated Total Volume Pumped: 2000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 100 ml/min** **Final Draw Down: 1.84 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 989619**

Test Notes:
HS: 0.0 mg/l
CPM:4
ID: 99
PSI: 20

Weather Conditions:
Clear 25 degrees Celsius

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.33	
8/21/2024 10:48 AM	00:00	6.39 pH	24.27 °C	238.46 µS/cm	5.54 mg/L	1.69 NTU	88.1 mV	30.98 ft	100.00 ml/min
8/21/2024 10:53 AM	05:00	6.24 pH	24.16 °C	224.91 µS/cm	4.46 mg/L	2.02 NTU	117.8 mV	31.26 ft	100.00 ml/min
8/21/2024 10:58 AM	10:00	6.21 pH	24.32 °C	218.02 µS/cm	4.27 mg/L	1.85 NTU	92.5 mV	31.47 ft	100.00 ml/min
8/21/2024 11:03 AM	15:00	6.27 pH	24.77 °C	217.23 µS/cm	4.22 mg/L	1.86 NTU	91.5 mV	31.65 ft	100.00 ml/min
8/21/2024 11:08 AM	20:00	6.26 pH	24.67 °C	216.65 µS/cm	4.13 mg/L	1.85 NTU	91.5 mV	31.85 ft	100.00 ml/min

Samples

Sample ID:	Description:

ARK-ARGWC-15	@ 1115 9 bottles Nitrate/nitrite Metals Dissolved metals Alkalinity Anions TDS Radium
ARK-AP3-FB-05	@ 1120 7 bottles

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/21/2024 10:59:01 AM
Project: Arkwright
Operator Name: J.Myer

Location Name: ARGWC-16 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 24.5 ft** **Total Depth: 34.7 ft** **Initial Depth to Water: 21.65 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: LDPE** **Pump Intake From TOC: 29.4 ft** **Estimated Total Volume Pumped: 4000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.05 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1082817**

Test Notes:
MP-50 S/N: 22
ID: 103
PSI: 18
Turbidimeter S/N: 22990D000345
WL S/N: T11DF2106090ML
HS: 0.0 mg/L

Weather Conditions:
Sunny 78 F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.5	
8/21/2024 10:59 AM	00:00	6.32 pH	30.15 °C	746.67 µS/cm	2.80 mg/L	0.64 NTU	190.5 mV	21.70 ft	200.00 ml/min
8/21/2024 11:04 AM	05:00	5.26 pH	21.64 °C	783.12 µS/cm	1.22 mg/L	0.33 NTU	219.5 mV	21.70 ft	200.00 ml/min
8/21/2024 11:09 AM	10:00	5.25 pH	21.32 °C	784.72 µS/cm	0.94 mg/L	0.47 NTU	146.5 mV	21.70 ft	200.00 ml/min
8/21/2024 11:14 AM	15:00	5.24 pH	21.33 °C	785.11 µS/cm	0.91 mg/L	0.24 NTU	183.7 mV	21.70 ft	200.00 ml/min
8/21/2024 11:19 AM	20:00	5.24 pH	21.29 °C	783.56 µS/cm	0.87 mg/L	0.17 NTU	132.4 mV	21.70 ft	200.00 ml/min

Samples

Sample ID:	Description:

ARK-ARGWC-16	9 bottles filled at 1125 1 Dissolved Metals 1 Metals 1 Alkalinity 1 Anions 1 TDS 1 Nitrate/Nitrite 3 Ra-226/Ra-228
ARK-AP3-FD-04	7 bottles filled 1 Metals 1 Anions 1 TDS 1 Nitrate/Nitrite 3 Ra-226/Ra-228

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/21/2024 1:10:05 PM
Project: Arkwright
Operator Name: Dylan Quintal

Location Name: Arkwright, AP-3, ARGWC-17 **Latitude: 32.93288420858457** **Longitude: -83.71087493434398** **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 23.8 ft** **Total Depth: 34.1 ft** **Initial Depth to Water: 22.99 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: LDPE** **Pump Intake From TOC: 28.8 ft** **Estimated Total Volume Pumped: 5250 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 175 ml/min** **Final Draw Down: 0.31 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080302**

Test Notes:
ID: 98
Pressure: 20 psi
Hydrogen sulfide: 0.0 mg/L

Weather Conditions:
Partly cloudy, 85F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.3	
8/21/2024 1:10 PM	00:00	5.25 pH	21.83 °C	402.97 µS/cm	1.83 mg/L	16.40 NTU	192.9 mV	23.30 ft	175.00 ml/min
8/21/2024 1:15 PM	05:00	5.21 pH	21.68 °C	393.97 µS/cm	1.39 mg/L	11.50 NTU	232.8 mV	23.30 ft	175.00 ml/min
8/21/2024 1:20 PM	10:00	5.19 pH	21.51 °C	382.84 µS/cm	1.16 mg/L	7.43 NTU	190.3 mV	23.30 ft	175.00 ml/min
8/21/2024 1:25 PM	15:00	5.18 pH	21.39 °C	377.04 µS/cm	1.00 mg/L	4.84 NTU	189.9 mV	23.30 ft	175.00 ml/min
8/21/2024 1:30 PM	20:00	5.17 pH	21.53 °C	369.22 µS/cm	0.86 mg/L	3.50 NTU	188.1 mV	23.30 ft	175.00 ml/min
8/21/2024 1:35 PM	25:00	5.15 pH	21.55 °C	365.82 µS/cm	0.77 mg/L	2.75 NTU	187.4 mV	23.30 ft	175.00 ml/min
8/21/2024 1:40 PM	30:00	5.15 pH	21.66 °C	362.71 µS/cm	0.71 mg/L	2.60 NTU	186.0 mV	23.30 ft	175.00 ml/min

Samples

Sample ID:	Description:

ARK-ARGWC-17	9 bottles at 1345: Metals, field filtered dissolved metals, anions, TDS, alkalinity, nitrate/nitrite, radium.

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/21/2024 10:57:47 AM
Project: Arkwright
Operator Name: J. Bankston

Location Name: ARGWC-18 **Latitude: 32.9257063933021** **Longitude: -83.70589816729107** **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 41.1 ft** **Total Depth: 51.4 ft** **Initial Depth to Water: 30.51 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: LDPE** **Pump Intake From TOC: 45.6 ft** **Estimated Total Volume Pumped: 34296.5 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 210 ml/min** **Final Draw Down: 0.11 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080306**

Test Notes:
MP-50 SN: 23
ID: 100
40 PSI
Heron dipper-T SN 11DF2206168HB
H2S: 0.0 mg/L

Weather Conditions:
Sunny 84F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.3	
8/21/2024 10:57 AM	00:00	6.07 pH	21.63 °C	580.45 µS/cm	0.48 mg/L	20.30 NTU	38.7 mV	30.61 ft	210.00 ml/min
8/21/2024 11:02 AM	05:00	6.05 pH	21.58 °C	583.71 µS/cm	0.34 mg/L	18.30 NTU	44.6 mV	30.59 ft	210.00 ml/min
8/21/2024 11:07 AM	10:00	6.03 pH	21.63 °C	594.30 µS/cm	0.21 mg/L	20.80 NTU	44.6 mV	30.62 ft	210.00 ml/min
8/21/2024 11:12 AM	15:00	6.02 pH	21.84 °C	598.88 µS/cm	0.18 mg/L	15.60 NTU	45.9 mV	30.60 ft	210.00 ml/min
8/21/2024 11:17 AM	20:00	6.02 pH	21.64 °C	600.17 µS/cm	0.16 mg/L	14.00 NTU	46.2 mV	30.60 ft	210.00 ml/min
8/21/2024 11:20 AM	22:56	6.01 pH	21.73 °C	604.74 µS/cm	0.16 mg/L	19.50 NTU	47.5 mV	30.60 ft	210.00 ml/min
8/21/2024 11:26 AM	28:19	6.01 pH	21.79 °C	603.42 µS/cm	0.15 mg/L	12.60 NTU	48.9 mV	30.60 ft	210.00 ml/min
8/21/2024 11:31 AM	33:19	6.01 pH	21.64 °C	603.21 µS/cm	0.15 mg/L	12.00 NTU	51.0 mV	30.61 ft	210.00 ml/min
8/21/2024 11:36 AM	38:19	6.01 pH	21.86 °C	608.38 µS/cm	0.14 mg/L	11.70 NTU	47.2 mV	30.61 ft	210.00 ml/min
8/21/2024 11:41 AM	43:19	6.01 pH	21.76 °C	604.94 µS/cm	0.15 mg/L	9.63 NTU	51.8 mV	30.61 ft	210.00 ml/min

8/21/2024 11:46 AM	48:19	6.01 pH	21.71 °C	605.99 µS/cm	0.14 mg/L	8.98 NTU	47.6 mV	30.62 ft	210.00 ml/min
8/21/2024 11:51 AM	53:19	6.01 pH	21.89 °C	606.93 µS/cm	0.14 mg/L	8.28 NTU	47.0 mV	30.62 ft	210.00 ml/min
8/21/2024 11:56 AM	58:19	6.01 pH	21.85 °C	607.28 µS/cm	0.13 mg/L	8.10 NTU	51.8 mV	30.62 ft	210.00 ml/min
8/21/2024 12:01 PM	01:03:19	6.01 pH	21.88 °C	608.59 µS/cm	0.14 mg/L	8.62 NTU	52.4 mV	30.62 ft	210.00 ml/min
8/21/2024 12:06 PM	01:08:19	6.01 pH	21.73 °C	607.93 µS/cm	0.13 mg/L	8.09 NTU	48.1 mV	30.62 ft	210.00 ml/min
8/21/2024 12:11 PM	01:13:19	6.00 pH	21.72 °C	609.29 µS/cm	0.14 mg/L	7.74 NTU	53.6 mV	30.62 ft	210.00 ml/min
8/21/2024 12:16 PM	01:18:19	6.00 pH	21.98 °C	611.00 µS/cm	0.13 mg/L	7.55 NTU	49.1 mV	30.62 ft	210.00 ml/min
8/21/2024 12:21 PM	01:23:19	6.00 pH	21.87 °C	609.84 µS/cm	0.13 mg/L	7.33 NTU	48.8 mV	30.62 ft	210.00 ml/min
8/21/2024 12:26 PM	01:28:19	6.00 pH	22.05 °C	609.73 µS/cm	0.13 mg/L	6.25 NTU	48.4 mV	30.62 ft	210.00 ml/min
8/21/2024 12:31 PM	01:33:19	6.00 pH	21.96 °C	613.52 µS/cm	0.13 mg/L	5.92 NTU	48.3 mV	30.62 ft	210.00 ml/min
8/21/2024 12:36 PM	01:38:19	6.00 pH	22.05 °C	612.48 µS/cm	0.13 mg/L	6.33 NTU	49.1 mV	30.62 ft	210.00 ml/min
8/21/2024 12:41 PM	01:43:19	6.00 pH	22.08 °C	611.16 µS/cm	0.12 mg/L	6.21 NTU	49.1 mV	30.62 ft	210.00 ml/min
8/21/2024 12:46 PM	01:48:19	6.00 pH	21.97 °C	611.73 µS/cm	0.13 mg/L	5.67 NTU	48.9 mV	30.62 ft	210.00 ml/min
8/21/2024 12:51 PM	01:53:19	6.00 pH	21.99 °C	613.01 µS/cm	0.12 mg/L	5.70 NTU	49.1 mV	30.62 ft	210.00 ml/min
8/21/2024 12:56 PM	01:58:19	6.00 pH	22.06 °C	615.02 µS/cm	0.13 mg/L	5.16 NTU	49.3 mV	30.62 ft	210.00 ml/min
8/21/2024 1:01 PM	02:03:19	6.00 pH	22.24 °C	613.98 µS/cm	0.12 mg/L	5.52 NTU	49.5 mV	30.62 ft	210.00 ml/min
8/21/2024 1:06 PM	02:08:19	6.00 pH	22.33 °C	612.53 µS/cm	0.13 mg/L	5.51 NTU	49.6 mV	30.62 ft	210.00 ml/min
8/21/2024 1:11 PM	02:13:19	6.00 pH	22.29 °C	614.41 µS/cm	0.12 mg/L	5.76 NTU	49.5 mV	30.62 ft	210.00 ml/min
8/21/2024 1:16 PM	02:18:19	6.00 pH	22.24 °C	613.67 µS/cm	0.13 mg/L	5.23 NTU	49.3 mV	30.62 ft	210.00 ml/min
8/21/2024 1:21 PM	02:23:19	6.00 pH	22.33 °C	616.07 µS/cm	0.13 mg/L	5.24 NTU	49.4 mV	30.62 ft	210.00 ml/min
8/21/2024 1:26 PM	02:28:19	6.00 pH	22.21 °C	612.79 µS/cm	0.12 mg/L	5.90 NTU	49.5 mV	30.62 ft	210.00 ml/min
8/21/2024 1:31 PM	02:33:19	6.00 pH	22.12 °C	615.54 µS/cm	0.13 mg/L	4.65 NTU	49.1 mV	30.62 ft	210.00 ml/min
8/21/2024 1:36 PM	02:38:19	6.00 pH	22.38 °C	615.24 µS/cm	0.12 mg/L	4.09 NTU	49.5 mV	30.62 ft	210.00 ml/min
8/21/2024 1:41 PM	02:43:19	6.00 pH	22.34 °C	615.48 µS/cm	0.12 mg/L	4.35 NTU	49.6 mV	30.62 ft	210.00 ml/min

Samples

Sample ID:	Description:

ARK-ARGWC-18	Sample Time: 1345; 9 bottles: Metals, Anions, TDS, Radium, Alkalinity, Nitrate/Nitrite, Fe2+/Mn2+
ARK-AP3-EB-04	Sample Time: 1430; 7 bottles: Metals, Anions, TDS, Radium, Nitrate/Nitrite

Created using VuSitu from In-Situ, Inc.

Plant Arkwright AP-3 Surface Water Samples August 12, 2024

Sample ID*	Date	Time	Temp(°C)	pH	OPR (mV)	DO (mg/L)	Turbidity (NTU)	Conductance (mS/cm)	Coordinates
ARC-BT-1.6	8/12/2024	0905	28.2	6.83	20.3	4.75	108.3	0.119	32.932256,-83.710100
ARC-BT-1.1	8/12/2024	0936	27.2	7.21	73.4	4.73	3.59	0.127	32.926936, -83.704495
ARC-BT-1.2	8/12/2024	0928	25.3	6.75	55.6	2.87	5.04	0.111	32.927975, -83.705743
ARC-BT-1.3	8/12/2024	0918	25.4	6.63	21.6	2.68	98.6	0.137	32.929098, -83.706609
ARC-BT-1.0	8/12/2024	0944	27.9	7.33	98.4	3.47	3.74	0.085	32.925622,-83.704442
ARC-BC-0.8b	8/12/2024	1141	25.8	7.40	130.4	7.47	3.33	0.147	32.922678, -83.705282

B.2 Calibration Data

Field Instrumentation Calibration Form

Site Name: GPC Plant Arkwright

Date: 08/21/2024

Calibrated By: Dylan Quintal

Field Conditions: Clear, 71F

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	In-Situ AquaTroll 400	1080302
Turbidity Meter	Hach 2100Q	23060D000344

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	4,490	24005593	Dec-24	AIR
pH (SU)	4.00	2405593	Dec-24	AIR
pH (SU)	7.00	24004517	Dec-24	AIR
pH (SU)	10.00	24000085	Dec-24	AIR
D.O. (%)	N/A	N/A	N/A	N/A
ORP (mV)	228.0	24006903	Dec-24	AIR

Calibration					
Time Start	**07:20**	**Time Finish**	**07:40**		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4,490.4	26.25	± 10% of standard	EPA 2023
pH (SU)	4.00	4.04	26.14	± 0.1	GWMP
pH (SU)	7.00	7.07	25.69	± 0.1	GWMP
pH (SU)	10.00	10.03	26.05	± 0.1	GWMP
D.O. (%)	N/A	100.01	23.014	± 10%	NA
ORP (mV)	228.0	227.8	25.55	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	20	20.2	± 10% of standard	EPA 2023
	100	101		
	800	791		
	10	9.69		

Calibration Check					
Time Start	**14:50**	**Time Finish**	**15:00**		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4,369.1	28.17	± 10% of standard	EPA 2023
pH (SU)	4.00	4.2	28.17	± 0.1	GWMP
pH (SU)	7.00	7.15	28.03	± 0.1	GWMP
pH (SU)	10.00	10.02	28.01	± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	20	19.9	± 10% of standard	EPA 2023
	100	99.2		
	800	787		
	10	9.25		

Notes:

Completed by DQ 08/21/2024

Checked by AS 08/23/2024

Field Instrumentation Calibration Form

Site Name: GPC Plant Arkwright

Date: 08/21/2024

Calibrated By: Jackson Bankston

Field Conditions: Sunny, 69F

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	In-Situ AquaTroll 400	1080306
Turbidity Meter	Hach 2100Q	22090D000235

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	4,490	24005593	Dec-24	AIR
pH (SU)	4.00	24005593	Dec-24	AIR
pH (SU)	7.00	240004517	Dec-24	AIR
pH (SU)	10.00	24000085	Dec-24	AIR
D.O. (%)	N/A	N/A	N/A	N/A
ORP (mV)	228.0	24006903	Dec-24	AIR

Calibration					
Time Start	**7:15**	**Time Finish**	**7:33**		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4,359	25.13	± 10% of standard	EPA 2023
pH (SU)	4.00	4.01	25.84	± 0.1	GWMP
pH (SU)	7.00	7.02	25.63	± 0.1	GWMP
pH (SU)	10.00	9.98	25.77	± 0.1	GWMP
D.O. (%)	N/A	99.82	23.06	± 10%	NA
ORP (mV)	228.0	234.2	22.66	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	20.3	± 10% of standard	EPA 2023
	100	101		
	800	813		
	10	9.58		

Calibration Check					
Time Start	**13:55**	**Time Finish**	**14:15**		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4,612.1	28.36	± 10% of standard	EPA 2023
pH (SU)	4.00	4.04	28.44	± 0.1	GWMP
pH (SU)	7.00	7.03	27.86	± 0.1	GWMP
pH (SU)	10.00	10.02	29.02	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	19.4	± 10% of standard	EPA 2023
	100	97.2		
	800	825		
	10	9.32		

Notes:

Completed by JB 08/21/2024

Checked by AS 08/23/2024

Field Instrumentation Calibration Form

Site Name: GPC Plant Arkwright

Date: 08/21/2024

Calibrated By: John Myer

Field Conditions: Sunny, 71F

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	In-Situ AquaTroll 400	1082817
Turbidity Meter	Hach 2100Q	22090D000345

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	4,490	24005593	Dec-24	AIR
pH (SU)	4.00	24005593	Dec-24	AIR
pH (SU)	7.00	24004517	Dec-24	AIR
pH (SU)	10.00	24000085	Dec-24	AIR
D.O. (%)	N/A	N/A	N/A	N/A
ORP (mV)	228.0	24006903	Dec-24	AIR

Calibration					
Time Start	**10:00**	**Time Finish**	**10:30**		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4,467	25.4	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	26.4	± 0.1	GWMP
pH (SU)	7.00	7.00	26.3	± 0.1	GWMP
pH (SU)	10.00	10.00	26.6	± 0.1	GWMP
D.O. (%)	N/A	100	26.9	± 10%	NA
ORP (mV)	228.0	227.7	27.6	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	20.4	± 10% of standard	EPA 2023
	100	100		
	800	808		
	10	9.9		

Calibration Check					
Time Start	**15:15**	**Time Finish**	**15:25**		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4,458	35.8	± 10% of standard	EPA 2023
pH (SU)	4.00	4.02	35.8	± 0.1	GWMP
pH (SU)	7.00	7.00	34.8	± 0.1	GWMP
pH (SU)	10.00	9.93	33.8	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	19.8	± 10% of standard	EPA 2023
	100	99.8		
	800	788		
	10	9.48		

Notes:

Completed by JM 08/21/2024

Checked by AS 08/23/2024

Field Instrumentation Calibration Form

Site Name: GPC Plant Arkwright

Date: 08/21/2024

Calibrated By: Z. Levy

Field Conditions: Clear, 69F

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	In-Situ AquaTroll 400	24005593
Turbidity Meter	Hach 2100Q	23080D000159

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	4,490	24005593	Dec-24	AIR
pH (SU)	4.00	24005593	Dec-24	AIR
pH (SU)	7.00	240045517	Dec-24	AIR
pH (SU)	10.00	24000085	Dec-24	AIR
D.O. (%)	N/A	--	--	--
ORP (mV)	228.0	24006903	Dec-24	AIR

Calibration					
Time Start	**6:51**	**Time Finish**	**7:10**		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4,431.2	26.06	± 10% of standard	EPA 2023
pH (SU)	4.00	4.02	26.36	± 0.1	GWMP
pH (SU)	7.00	7.04	26.18	± 0.1	GWMP
pH (SU)	10.00	10.01	26.09	± 0.1	GWMP
D.O. (%)	N/A	100.41	24.89	± 10%	NA
ORP (mV)	228.0	227.8	25.91	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	19.9	± 10% of standard	EPA 2023
	100	100		
	800	805		
	10	9.71		

Calibration Check					
Time Start	**14:20**	**Time Finish**	**14:29**		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4,216.4	29.27	± 10% of standard	EPA 2023
pH (SU)	4.00	3.98	29.27	± 0.1	GWMP
pH (SU)	7.00	7.05	27.83	± 0.1	GWMP
pH (SU)	10.00	10.06	27.67	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	10.3	± 10% of standard	EPA 2023
	20	20.3		
	100	99.5		
	800	779		

Notes:

Completed by ZL 08/21/2024

Checked by AS 08/23/2024

Field Instrumentation Calibration Form

Site Name: GPC Plant Arkwright

Date: 08/22/2024

Calibrated By: Z. Levy

Field Conditions: Clear, 70F

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	In-Situ AquaTroll 400	24005593
Turbidity Meter	Hach 2100Q	23080D000159

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	4,490	24005593	Dec-24	AIR
pH (SU)	4.00	24005593	Dec-24	AIR
pH (SU)	7.00	240045517	Dec-24	AIR
pH (SU)	10.00	24000085	Dec-24	AIR
D.O. (%)	N/A	N/A	N/A	N/A
ORP (mV)	228.0	24006903	Dec-24	AIR

Calibration					
Time Start	**6:30**	**Time Finish**	**6:05**		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	N/A	N/A	± 10% of standard	EPA 2023
pH (SU)	4.00	N/A	N/A	± 0.1	GWMP
pH (SU)	7.00	N/A	N/A	± 0.1	GWMP
pH (SU)	10.00	N/A	N/A	± 0.1	GWMP
D.O. (%)	N/A	N/A	N/A	± 10%	NA
ORP (mV)	228.0	N/A	N/A	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	20	± 10% of standard	EPA 2023
	100	101		
	800	800		
	10	9.81		

Calibration Check					
Time Start	**--**	**Time Finish**	**--**		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	N/A	N/A	± 10% of standard	EPA 2023
pH (SU)	4.00	N/A	N/A	± 0.1	GWMP
pH (SU)	7.00	N/A	N/A	± 0.1	GWMP
pH (SU)	10.00	N/A	N/A	± 0.1	GWMP

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

Notes:

Completed by ZL 08/22/2024

Checked by AS 08/23/2024

B.3 Groundwater and Surface Water Laboratory Analytical Reports

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

September 05, 2024

Joju Abraham
Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308

Re: Arkwright CCR Groundwater Compliance 175569434
Work Order: 682138

Dear Joju Abraham:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on August 21, 2024. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
682138001	ARK-ARGWA-3	Ground Water	08/20/24 16:55	08/21/24 14:00
682138002	ARK-ARGWA-12	Ground Water	08/20/24 16:30	08/21/24 14:00
682138003	ARK-ARGWA-24	Ground Water	08/20/24 17:10	08/21/24 14:00

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Prep Methods and Prep Dates

Method	Run Date ID
SW846 3005A	23-AUG-2024
SW846 7470A Prep	23-AUG-2024

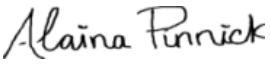
Analysis Methods and Analysis Dates

Method	Run Date ID
EPA 300.0	23-AUG-2024
EPA 300.0	24-AUG-2024
EPA 353.2 Low Level	23-AUG-2024
SM 2320B	22-AUG-2024
SM 2540C	27-AUG-2024

SW846 3005A/6020B	01-SEP-2024
SW846 3005A/6020B	02-SEP-2024
SW846 7470A	26-AUG-2024

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4443.

Sincerely,



Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0005
Enclosures

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 682138 GEL Work Order: 682138

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL

J Value is estimated

N Metals--The Matrix spike sample recovery is not within specified control limits

N/A RPD or %Recovery limits do not apply.

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Alaina Pinnick.

Reviewed by Alaina Pinnick

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 5, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Arkwright CCR Groundwater Compliance175569434

Client Sample ID:	ARK-ARGWA-3	Project:	GPCC00100
Sample ID:	682138001	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	20-AUG-24 16:55		
Receive Date:	21-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		2.66	0.0670	0.200	mg/L		1	TXT1	08/23/24	1533	2661842	1
Fluoride	J	0.0574	0.0330	0.100	mg/L		1					
Sulfate		0.406	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/26/24	1149	2661400	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/01/24	2115	2661558	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0172	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		6.01	0.0800	0.200	mg/L	1.00	1					
Chromium	J	0.00320	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron		0.232	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		3.65	0.0100	0.0300	mg/L	1.00	1					
Manganese	J	0.00388	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		1.06	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Silver	U	ND	0.000300	0.00100	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1	BAJ	09/02/24	1214	2661558	4
Sodium		7.53	0.0800	0.250	mg/L	1.00	1					
Aluminum		0.112	0.0193	0.0500	mg/L	1.00	1	BAJ	09/02/24	1046	2661558	5
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite		0.297	0.00700	0.0200	mg/L		1	JLD1	08/23/24	1154	2661629	6
Solids Analysis												
SM2540C Dissolved Solids "As Received"												

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Certificate of Analysis

Report Date: September 5, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Arkwright CCR Groundwater Compliance175569434

Client Sample ID: ARK-ARGWA-3 Project: GPCC00100
Sample ID: 682138001 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		80.0	2.38	10.0	mg/L			KLP1	08/27/24	1058	2663138	7
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		43.4	0.725	2.00	mg/L			JW2	08/22/24	1125	2661203	8
Bicarbonate alkalinity (CaCO3)		43.4	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/23/24	1030	2661398
SW846 3005A	ICP-MS 3005A PREP	BB2	08/23/24	1445	2661557

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	EPA 353.2 Low Level	
7	SM 2540C	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 5, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Arkwright CCR Groundwater Compliance175569434

Client Sample ID:	ARK-ARGWA-12	Project:	GPCC00100
Sample ID:	682138002	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	20-AUG-24 16:30		
Receive Date:	21-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		10.6	0.134	0.400	mg/L		2	TXT1	08/24/24	0612	2661842	1
Fluoride	J	0.0426	0.0330	0.100	mg/L		1	TXT1	08/23/24	1707	2661842	2
Sulfate		5.98	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/26/24	1151	2661400	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron	J	0.0106	0.00520	0.0150	mg/L	1.00	1	BAJ	09/02/24	1215	2661558	4
Sodium		12.0	0.0800	0.250	mg/L	1.00	1					
Aluminum		0.0608	0.0193	0.0500	mg/L	1.00	1	BAJ	09/01/24	2121	2661558	5
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1					
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0701	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		11.8	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000790	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0665	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00366	0.00300	0.0100	mg/L	1.00	1					
Magnesium		7.68	0.0100	0.0300	mg/L	1.00	1					
Manganese	J	0.00128	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000249	0.000200	0.00100	mg/L	1.00	1					
Potassium		1.94	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Silver	U	ND	0.000300	0.00100	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite		0.512	0.00700	0.0200	mg/L		1	JLD1	08/23/24	1159	2661629	6
Solids Analysis												
SM2540C Dissolved Solids "As Received"												

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Certificate of Analysis

Report Date: September 5, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Arkwright CCR Groundwater Compliance175569434

Client Sample ID: ARK-ARGWA-12 Project: GPCC00100
Sample ID: 682138002 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		120	2.38	10.0	mg/L			KLP1	08/27/24	1058	2663138	7
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		60.5	0.725	2.00	mg/L			JW2	08/22/24	1126	2661203	8
Bicarbonate alkalinity (CaCO3)		60.5	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	08/23/24	1445	2661557
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/23/24	1030	2661398

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	EPA 353.2 Low Level	
7	SM 2540C	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 5, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Arkwright CCR Groundwater Compliance175569434

Client Sample ID:	ARK-ARGWA-24	Project:	GPCC00100
Sample ID:	682138003	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	20-AUG-24 17:10		
Receive Date:	21-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		8.27	0.0670	0.200	mg/L		1	TXT1	08/23/24	1739	2661842	1
Fluoride	J	0.0399	0.0330	0.100	mg/L		1					
Sulfate		5.37	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/26/24	1152	2661400	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Aluminum	J	0.0280	0.0193	0.0500	mg/L	1.00	1	BAJ	09/01/24	2127	2661558	3
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1					
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0344	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		9.12	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0467	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		5.80	0.0100	0.0300	mg/L	1.00	1					
Manganese	J	0.00264	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		0.764	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Silver	U	ND	0.000300	0.00100	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron	J	0.00663	0.00520	0.0150	mg/L	1.00	1	BAJ	09/02/24	1216	2661558	4
Sodium		11.9	0.0800	0.250	mg/L	1.00	1					
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite		0.326	0.00700	0.0200	mg/L		1	JLD1	08/23/24	1200	2661629	5
Solids Analysis												
SM2540C Dissolved Solids "As Received"												

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Certificate of Analysis

Report Date: September 5, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Arkwright CCR Groundwater Compliance175569434

Client Sample ID: ARK-ARGWA-24 Project: GPCC00100
Sample ID: 682138003 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		95.0	2.38	10.0	mg/L			KLP1	08/27/24	1058	2663138	6
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		52.3	0.725	2.00	mg/L			JW2	08/22/24	1127	2661203	7
Bicarbonate alkalinity (CaCO3)		52.3	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/23/24	1030	2661398
SW846 3005A	ICP-MS 3005A PREP	BB2	08/23/24	1445	2661557

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	EPA 353.2 Low Level	
6	SM 2540C	
7	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

QC Summary

Report Date: September 5, 2024

Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia

Contact: **Joju Abraham**

Workorder: **682138**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography										
Batch 2661842										
QC1205832634 682138001 DUP										
Chloride		2.66		2.69	mg/L	1.03		(0%-20%)	TXT1	08/23/24 16:05
Fluoride	J	0.0574	J	0.0627	mg/L	8.83	^	(+/-0.100)		
Sulfate		0.406		0.407	mg/L	0.197	^	(+/-0.400)		
QC1205832636 682329008 DUP										
Chloride		5.71		5.75	mg/L	0.591		(0%-20%)		08/23/24 23:24
Fluoride	U	ND	U	ND	mg/L	N/A				
Sulfate		350		361	mg/L	3.12		(0%-20%)		08/24/24 14:11
QC1205832633 LCS										
Chloride	5.00			4.68	mg/L		93.5	(90%-110%)		08/23/24 15:02
Fluoride	2.50			2.40	mg/L		95.9	(90%-110%)		
Sulfate	10.0			9.42	mg/L		94.2	(90%-110%)		
QC1205832632 MB										
Chloride			U	ND	mg/L					08/23/24 14:31
Fluoride			U	ND	mg/L					
Sulfate			U	ND	mg/L					

QC Summary

Workorder: **682138**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography											
Batch 2661842											
QC1205832635 682138001 PS											
Chloride	5.00		2.66		7.58	mg/L		98.5	(90%-110%)	TXT1	08/23/24 16:36
Fluoride	2.50	J	0.0574		2.60	mg/L		102	(90%-110%)		
Sulfate	10.0		0.406		9.50	mg/L		90.9	(90%-110%)		
QC1205832637 682329008 PS											
Chloride	5.00		5.71		11.1	mg/L		108	(90%-110%)		08/23/24 23:55
Fluoride	2.50	U	ND		2.60	mg/L		103	(90%-110%)		
Sulfate	10.0		6.99		16.7	mg/L		97.3	(90%-110%)		08/24/24 14:43
Metals Analysis - ICPMS											
Batch 2661558											
QC1205831918 LCS											
Aluminum	2.00				1.93	mg/L		96.4	(80%-120%)	BAJ	09/01/24 19:37
Antimony	0.0500				0.0499	mg/L		99.7	(80%-120%)		
Arsenic	0.0500				0.0493	mg/L		98.6	(80%-120%)		
Barium	0.0500				0.0489	mg/L		97.9	(80%-120%)		
Beryllium	0.0500				0.0485	mg/L		97	(80%-120%)		
Boron	0.100				0.0952	mg/L		95.2	(80%-120%)		09/02/24 12:10
Cadmium	0.0500				0.0490	mg/L		98.1	(80%-120%)		09/01/24 19:37

QC Summary

Workorder: **682138**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2661558										
Calcium	2.00			2.08	mg/L		104	(80%-120%)	BAJ	09/01/24 19:37
Chromium	0.0500			0.0502	mg/L		100	(80%-120%)		
Cobalt	0.0500			0.0494	mg/L		98.9	(80%-120%)		
Iron	2.00			2.00	mg/L		100	(80%-120%)		
Lead	0.0500			0.0489	mg/L		97.9	(80%-120%)		
Lithium	0.0500			0.0491	mg/L		98.2	(80%-120%)		
Magnesium	2.00			2.03	mg/L		101	(80%-120%)		
Manganese	0.0500			0.0500	mg/L		100	(80%-120%)		
Molybdenum	0.0500			0.0477	mg/L		95.3	(80%-120%)		
Potassium	2.00			2.03	mg/L		101	(80%-120%)		
Selenium	0.0500			0.0503	mg/L		101	(80%-120%)		
Silver	0.0500			0.0492	mg/L		98.4	(80%-120%)		
Sodium	2.00			2.05	mg/L		103	(80%-120%)		09/02/24 12:10
Thallium	0.0500			0.0466	mg/L		93.1	(80%-120%)		09/01/24 19:37

QC Summary

Workorder: **682138**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2661558										
QC1205831917 MB										
Aluminum			U	ND	mg/L				BAJ	09/01/24 19:34
Antimony			U	ND	mg/L					
Arsenic			U	ND	mg/L					
Barium			U	ND	mg/L					
Beryllium			U	ND	mg/L					
Boron			U	ND	mg/L					09/02/24 12:09
Cadmium			U	ND	mg/L					09/01/24 19:34
Calcium			U	ND	mg/L					
Chromium			U	ND	mg/L					
Cobalt			U	ND	mg/L					
Iron			U	ND	mg/L					
Lead			U	ND	mg/L					
Lithium			U	ND	mg/L					
Magnesium			U	ND	mg/L					

QC Summary

Workorder: **682138**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2661558											
Manganese				U	ND	mg/L				BAJ	09/01/24 19:34
Molybdenum				U	ND	mg/L					
Potassium				U	ND	mg/L					
Selenium				U	ND	mg/L					
Silver				U	ND	mg/L					
Sodium				U	ND	mg/L					09/02/24 12:09
Thallium				U	ND	mg/L					09/01/24 19:34
QC1205831919 682055001 MS											
Aluminum	2.00		4.99		8.53	mg/L		177*	(75%-125%)		09/01/24 19:48
Antimony	0.0500	U	ND		0.0553	mg/L		110	(75%-125%)		
Arsenic	0.0500	J	0.00287		0.0589	mg/L		112	(75%-125%)		
Barium	0.0500		0.201		0.266	mg/L		N/A	(75%-125%)		
Beryllium	0.0500	U	ND		0.0490	mg/L		97.7	(75%-125%)		
Boron	0.100		10.5		11.6	mg/L		N/A	(75%-125%)		09/02/24 12:27
Cadmium	0.0500	U	ND		0.0501	mg/L		100	(75%-125%)		09/01/24 19:48

QC Summary

Workorder: **682138**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS												
Batch 2661558												
Calcium	2.00		3.36		5.64	mg/L		114	(75%-125%)	BAJ	09/01/24	19:48
Chromium	0.0500		0.0123		0.0647	mg/L		105	(75%-125%)			
Cobalt	0.0500		0.00150		0.0507	mg/L		98.4	(75%-125%)			
Iron	2.00		1.85		3.97	mg/L		106	(75%-125%)			
Lead	0.0500	J	0.000838		0.0482	mg/L		94.6	(75%-125%)			
Lithium	0.0500	U	ND		0.0535	mg/L		106	(75%-125%)			
Magnesium	2.00		0.618		2.66	mg/L		102	(75%-125%)			
Manganese	0.0500		0.0122		0.0613	mg/L		98.3	(75%-125%)			
Molybdenum	0.0500	J	0.000468		0.0570	mg/L		113	(75%-125%)			
Potassium	2.00		10.6		13.5	mg/L		N/A	(75%-125%)			
Selenium	0.0500		0.00709		0.0593	mg/L		104	(75%-125%)			
Silver	0.0500	U	ND		0.0483	mg/L		96.4	(75%-125%)			
Sodium	2.00		525		570	mg/L		N/A	(75%-125%)		09/02/24	12:27
Thallium	0.0500	U	ND		0.0467	mg/L		93.2	(75%-125%)		09/01/24	19:48

QC Summary

Workorder: **682138**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS												
Batch 2661558												
QC1205831920 682055001 MSD												
Aluminum	2.00		4.99		7.70	mg/L	10.3	135*	(0%-20%)	BAJ	09/01/24	19:51
Antimony	0.0500	U	ND		0.0500	mg/L	9.99	99.4	(0%-20%)			
Arsenic	0.0500	J	0.00287		0.0537	mg/L	9.12	102	(0%-20%)			
Barium	0.0500		0.201		0.234	mg/L	12.6	N/A	(0%-20%)			
Beryllium	0.0500	U	ND		0.0456	mg/L	7.13	91	(0%-20%)			
Boron	0.100		10.5		10.7	mg/L	8.41	N/A	(0%-20%)		09/02/24	12:28
Cadmium	0.0500	U	ND		0.0455	mg/L	9.5	90.9	(0%-20%)		09/01/24	19:51
Calcium	2.00		3.36		5.16	mg/L	8.89	89.8	(0%-20%)			
Chromium	0.0500		0.0123		0.0587	mg/L	9.64	92.8	(0%-20%)			
Cobalt	0.0500		0.00150		0.0465	mg/L	8.71	90	(0%-20%)			
Iron	2.00		1.85		3.64	mg/L	8.58	89.8	(0%-20%)			
Lead	0.0500	J	0.000838		0.0436	mg/L	10	85.4	(0%-20%)			
Lithium	0.0500	U	ND		0.0497	mg/L	7.29	98.8	(0%-20%)			
Magnesium	2.00		0.618		2.43	mg/L	8.91	90.8	(0%-20%)			

QC Summary

Workorder: **682138**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2661558											
Manganese	0.0500		0.0122		0.0565	mg/L	8.26	88.5	(0%-20%)	BAJ	09/01/24 19:51
Molybdenum	0.0500	J	0.000468		0.0513	mg/L	10.5	102	(0%-20%)		
Potassium	2.00		10.6		12.1	mg/L	10.8	N/A	(0%-20%)		
Selenium	0.0500		0.00709		0.0531	mg/L	11	92.1	(0%-20%)		
Silver	0.0500	U	ND		0.0440	mg/L	9.19	88	(0%-20%)		
Sodium	2.00		525		527	mg/L	7.92	N/A	(0%-20%)		09/02/24 12:28
Thallium	0.0500	U	ND		0.0422	mg/L	9.97	84.4	(0%-20%)		09/01/24 19:51
QC1205842018 682055001 PS											
Aluminum	2000		4990		6600	ug/L		80.4	(75%-125%)		09/01/24 19:54
QC1205831921 682055001 SDILT											
Aluminum			4990		1040	ug/L	4.14		(0%-20%)		09/01/24 19:57
Antimony		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Arsenic		J	2.87	U	ND	ug/L	N/A		(0%-20%)		
Barium			201		40.3	ug/L	.0164		(0%-20%)		
Beryllium		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Boron			105		22.8	ug/L	8.7		(0%-20%)		09/02/24 12:29

QC Summary

Workorder: **682138**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2661558										
Cadmium	U	ND	U	ND	ug/L	N/A		(0%-20%)	BAJ	09/01/24 19:57
Calcium		3360		664	ug/L	1.26		(0%-20%)		
Chromium		12.3	U	ND	ug/L	N/A		(0%-20%)		
Cobalt		1.50	J	0.317	ug/L	5.53		(0%-20%)		
Iron		1850		383	ug/L	3.85		(0%-20%)		
Lead	J	0.838	U	ND	ug/L	N/A		(0%-20%)		
Lithium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Magnesium		618		129	ug/L	4.64		(0%-20%)		
Manganese		12.2	J	2.41	ug/L	1.4		(0%-20%)		
Molybdenum	J	0.468	U	ND	ug/L	N/A		(0%-20%)		
Potassium		10600		2230	ug/L	5.57		(0%-20%)		
Selenium		7.09	J	1.52	ug/L	7.27		(0%-20%)		
Silver	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Sodium		5250		1150	ug/L	9.33		(0%-20%)		09/02/24 12:29

QC Summary

Workorder: **682138**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2661558										
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)	BAJ	09/01/24 19:57
Metals Analysis-Mercury										
Batch 2661400										
QC1205831549 681947004 DUP										
Mercury	U	ND	U	ND	mg/L	N/A			JP2	08/26/24 11:18
QC1205831548 LCS										
Mercury	0.00200			0.00209	mg/L		104	(80%-120%)		08/26/24 11:10
QC1205831547 MB										
Mercury			U	ND	mg/L					08/26/24 11:08
QC1205831550 681947004 MS										
Mercury	0.00200	U	ND	0.00212	mg/L		106	(75%-125%)		08/26/24 11:20
QC1205831551 681947004 SDILT										
Mercury	U	ND	U	ND	ug/L	N/A		(0%-10%)		08/26/24 11:21
Nutrient Analysis										
Batch 2661629										
QC1205832104 682138001 DUP										
Nitrogen, Nitrate/Nitrite		0.297		0.297	mg/L	0		(0%-20%)	JLD1	08/23/24 11:56
QC1205832106 682329008 DUP										
Nitrogen, Nitrate/Nitrite		0.549		0.550	mg/L	0.182		(0%-20%)		08/23/24 12:23
QC1205832103 LCS										
Nitrogen, Nitrate/Nitrite	1.00			1.01	mg/L		101	(90%-110%)		08/23/24 11:53
QC1205832102 MB										
Nitrogen, Nitrate/Nitrite			U	ND	mg/L					08/23/24 11:51

QC Summary

Workorder: **682138**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Nutrient Analysis										
Batch 2661629										
QC1205832105 682138001 PS										
Nitrogen, Nitrate/Nitrite	1.00	0.297		1.29	mg/L		99.4	(90%-110%)	JLD1	08/23/24 11:57
QC1205832107 682329008 PS										
Nitrogen, Nitrate/Nitrite	1.00	0.549		1.57	mg/L		102	(90%-110%)		08/23/24 12:24
Solids Analysis										
Batch 2663138										
QC1205835765 681869001 DUP										
Total Dissolved Solids		11000		10600	mg/L	3.42		(0%-5%)	KLP1	08/27/24 10:58
QC1205835764 LCS										
Total Dissolved Solids	300			296	mg/L		98.7	(95%-105%)		08/27/24 10:58
QC1205835763 MB										
Total Dissolved Solids			U	ND	mg/L					08/27/24 10:58
Titration and Ion Analysis										
Batch 2661203										
QC1205831115 LCS										
Alkalinity, Total as CaCO3	50.0			52.9	mg/L		106	(90%-110%)	JW2	08/22/24 11:01
QC1205831120 LCS										
Alkalinity, Total as CaCO3	15.0			14.5	mg/L		96.7	(90%-110%)		08/22/24 11:03
QC1205831121 LCSD										
Alkalinity, Total as CaCO3	50.0			53.3	mg/L	0.753	107	(0%-20%)		08/22/24 11:02
QC1205831122 LCSD										
Alkalinity, Total as CaCO3	15.0			14.9	mg/L	2.72	99.3	(0%-20%)		08/22/24 11:04

Notes:

The Qualifiers in this report are defined as follows:

QC Summary

Workorder: **682138**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
N	Metals--The Matrix spike sample recovery is not within specified control limits
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
Z	Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
d	5-day BOD--The 2:1 depletion requirement was not met for this sample
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
E	%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
E	General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
FB	Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
R	Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.
B	The target analyte was detected in the associated blank.
e	5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes
J	See case narrative for an explanation

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2661558

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2661557

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
682138001	ARK-ARGWA-3
682138002	ARK-ARGWA-12
682138003	ARK-ARGWA-24
1205831917	Method Blank (MB)**ICP-MS**
1205831918	Laboratory Control Sample (LCS)
1205831921	682055001(NonSDGL) Serial Dilution (SD)
1205831919	682055001(NonSDGS) Matrix Spike (MS)
1205831920	682055001(NonSDGSD) Matrix Spike Duplicate (MSD)
1205842018	682055001(NonSDGPS) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Quality Control (QC) Information

Matrix Spike (MS/MSD) Recovery Statement
The percent recoveries (%R) obtained from the MS/MSD analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The MS/MSD (See Below) did not meet the recommended quality control acceptance criteria for percent recoveries for the following applicable analytes. The post spike recoveries were within the required control limits. This verifies the absence of a matrix interference in the post-spike digested sample. The recoveries may be attributed to possible sample matrix interference and/or non-homogeneity.

Sample	Analyte	Value
1205831919 (Non SDG 682055001MS)	Aluminum	177* (75%-125%)

1205831920 (Non SDG 682055001MSD)	Aluminum	135* (75%-125%)

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**
Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 40
Analytical Batch: 2661400

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 40
Preparation Batch: 2661398

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
682138001	ARK-ARGWA-3
682138002	ARK-ARGWA-12
682138003	ARK-ARGWA-24
1205831547	Method Blank (MB)**CVAA**
1205831548	Laboratory Control Sample (LCS)
1205831551	681947004(NonSDGL) Serial Dilution (SD)
1205831549	681947004(NonSDGD) Sample Duplicate (DUP)
1205831550	681947004(NonSDGS) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

General Chemistry

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 35
Analytical Batch: 2661842

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
682138001	ARK-ARGWA-3
682138002	ARK-ARGWA-12
682138003	ARK-ARGWA-24
1205832632	Method Blank (MB)
1205832633	Laboratory Control Sample (LCS)
1205832634	682138001(ARK-ARGWA-3) Sample Duplicate (DUP)
1205832635	682138001(ARK-ARGWA-3) Post Spike (PS)
1205832636	682329008(ARK-ARGWC-16) Sample Duplicate (DUP)
1205832637	682329008(ARK-ARGWC-16) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Sample Dilutions
The following samples 1205832636 (ARK-ARGWC-16DUP), 1205832637 (ARK-ARGWC-16PS) and 682138002 (ARK-ARGWA-12) were diluted because target analyte concentrations exceeded the calibration range. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	**682138**
	002
Chloride	2X

Miscellaneous Information

Manual Integrations
Samples 1205832634 (ARK-ARGWA-3DUP), 1205832636 (ARK-ARGWC-16DUP), 682138001 (ARK-ARGWA-3), 682138002 (ARK-ARGWA-12) and 682138003 (ARK-ARGWA-24) were manually integrated to correctly position the baseline as set in the calibration standards.

Product: **Nitrate/Nitrite Cad Redux Low Level**
Analytical Method: EPA 353.2 Low Level
Analytical Procedure: GL-GC-E-128 REV# 15
Analytical Batch: 2661629

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
682138001	ARK-ARGWA-3
682138002	ARK-ARGWA-12
682138003	ARK-ARGWA-24
1205832102	Method Blank (MB)
1205832103	Laboratory Control Sample (LCS)
1205832104	682138001(ARK-ARGWA-3) Sample Duplicate (DUP)
1205832105	682138001(ARK-ARGWA-3) Post Spike (PS)
1205832106	682329008(ARK-ARGWC-16) Sample Duplicate (DUP)
1205832107	682329008(ARK-ARGWC-16) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 21
Analytical Batch: 2663138

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
682138001	ARK-ARGWA-3
682138002	ARK-ARGWA-12
682138003	ARK-ARGWA-24
1205835763	Method Blank (MB)
1205835764	Laboratory Control Sample (LCS)
1205835765	681869001(NonSDG) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments
A reduced aliquot was used due to historical information. 1205835765 (Non SDG 681869001DUP).

Product: **Alkalinity**
Analytical Method: SM 2320B
Analytical Procedure: GL-GC-E-033 REV# 16
Analytical Batch: 2661203

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
682138001	ARK-ARGWA-3
682138002	ARK-ARGWA-12
682138003	ARK-ARGWA-24
1205831115	Laboratory Control Sample (LCS)
1205831120	Laboratory Control Sample (LCS)
1205831121	Laboratory Control Sample Duplicate (LCSD)
1205831122	Laboratory Control Sample Duplicate (LCSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Laboratory Control Sample Duplicate (LCSD)
An LCSD was used in place of matrix QC due to limited sample volume.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Page: 1 of 1
Project # 175569434
GEL Quote #:
COC Number [1]: 4 Sample Cooler(s) 1
PO Number: GPC82177-0005

GEL Laboratories LLC
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Alaina Pinnick*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

682138
682142

Client Name: Georgia Power Phone # (937-344-6533)
Project/Site Name: Plant Arkwright Ash Pond _3_ Fax: N/A
Address: 241 Ralph McGill Blvd SE, Atlanta, GA 30308
Collected By: Jackson Bankston, Zach Levy, John Myer, Dylan Quintal
Send Results To: jabraham@southernco.com EDD@stantec.com cassidy.sutherland@stantec.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Ag (App. I) (6020B)	NI Metals App. III (B, Ca) (6020B)	NI Alkalinity (300.0 R2.1) see Additional Remarks	TDS (SM Method 2540C)	Anions (Cl, Fl, Sulfate) (300.0 Rev. 2.1 1993)	NI Metals App. IV (6020B) see Additional Remarks	NI RAD 226-228 Cmbd	NI Mercury (7470B)	NI Metals Al, K, Mg, Na, Fe, Mn (6020B)	NI Fe2+/ Mn2+ (6020B) Field Filtered	SA Nitrate/ Nitrite (EPA Method 353.2)	<-- Preservative Type (6) Comments (task_code: ARK-CCR-ASSMT-2024S2)
ARK-ARGWA-3	08-20-24	1655	N	N	WG			8	X	X	X	X	X	X	X	X	X		X	
ARK-ARGWA-12	08-20-24	1630	N	N	WG			8	X	X	X	X	X	X	X	X	X		X	
ARK-ARGWA-24	08-20-24	1710	N	N	WG			8	X	X	X	X	X	X	X	X	X		X	

Chain of Custody Signatures

	Relinquished By (Signed)	Print Name	Date	Received by (signed)	Print Name	Date
1		Stantec	8/21/24			8/21/24
2						8/21/24 1400
3				3		

TAT Requested: Normal: X Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [X] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [X] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: Metals App. IV: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl
Alkalinity: bicarbonate as CaCO3, carbonate as CaCO3, total as CaCO3

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** 1 °C

> ***For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)***

Sample Collection Time Zone: [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a **- Y -** for yes the sample was field filtered or **- N -** for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* **- 3**, *6010B 7470A* **- 1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns.
(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

682138 682097 682084
682142 682098 AP
682093 682097 WS 8/26/24

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	**SDG/AR/COC/Work Order:**
Received By: CLM	**Date Received:** 8/21/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other cooler 1-0° 3-1° 5-1° 7-0° 9-1° 11-1° 2-0° 4-0° 6-0° 8-1° 10-0°

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM / mR/Hr **Classified as: Rad 1 Rad 2 Rad 3**
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	**Comments/Qualifiers (Required for Non-Conforming Items)**
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: Wet Ice Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius **TEMP:** See above with coolers
4	Daily check performed and passed on IR temperature gun?	✓			**Temperature Device Serial #:** IR5-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?			✓	Circle Applicable: No dates on containers No times on containers COC missing info Other (describe) ARL-A RAMW-8 (2 of 3) plastic 1,000 has 8/19/24
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):
10.) wrote on samples, per COC it should be 8/20/24.

PM (or PMA) review: Initials _____ Date _____ Page ____ of ____

GL-CHL-SR-001 Rev 7

Page: 1 of 1
Project # 175569434
GEL Quote #:
COC Number (1): 4 Sample Cooler(s) 1
PO Number: GPC82177-0005

GEL Laboratories LLC
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Alaina Pinnick*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

682138
682142

Client Name: Georgia Power Phone # (937-344-6533)
Project/Site Name: Plant Arkwright Ash Pond _3_ Fax: N/A
Address: 241 Ralph McGill Blvd SE, Atlanta, GA 30308
Collected By: Jackson Bankston, Zach Levy, John Myer, Dylan Quintal
Send Results To: jabraham@southernco.com EDD@stantec.com cassidy.sutherland@stantec.com

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Ag (App. I) (6020B)	NI Metals App. III (B, Ca) (6020B)	Alkalinity (300.0 R2.1) see Additional Remarks	TDS (SM Method 2540C)	Anions (Cl, Fl, Sulfate) (300.0 Rev. 2.1 1993)	NI Metals App. IV (6020B) see Additional Remarks	NI RAD 226-228 Cmbd	NI Mercury (7470B)	NI Metals Al, K, Mg, Na, Fe, Mn (6020B)	NI Fe2+/Mn2+ (6020B) Field Filtered	SA Nitrate/ Nitrite (EPA Method 353.2)	<-- Preservative Type (6)
ARK-ARGWA-3	08-20-24	1655	N	N	WG			8	X	X	X	X	X	X	X	X	X		X	
ARK-ARGWA-12	08-20-24	1630	N	N	WG			8	X	X	X	X	X	X	X	X	X		X	
ARK-ARGWA-24	08-20-24	1710	N	N	WG			8	X	X	X	X	X	X	X	X	X		X	

Comments (task_code: ARK-CCR-ASSMT-2024S2)

Chain of Custody Signatures

	Relinquished By (Signed)	Print Name	Date	Received by (signed)	Print Name	Date
1		Stantec	8/21/24			8/21/24
2						8/21/24 1400
3						

TAT Requested: Normal: X Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [X] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [X] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: Metals App. IV: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl
Alkalinity: bicarbonate as CaCO3, carbonate as CaCO3, total as CaCO3

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** 1 °C

> For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)

Sample Collection Time Zone: [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a **- Y -** for yes the sample was field filtered or **- N -** for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B 7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns.
(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

682138 682097 682084
682142 682098
682093

AP 682097 WT 8/26/24

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	SDG/AR/COC/Work Order:
Received By: CLM	Date Received: 8/21/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other Cooler 1-0° 3-1° 5-1° 7-0° 9-1° 11-1° 2-0° 4-0° 6-0° 8-1° 10-0°

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM/ mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: Wet Ice Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: See above with coolers
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR5-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?			✓	Circle Applicable: No dates on containers No times on containers COC missing info Other (describe) ARL-A RAMW-8 (2 of 3) plastic 1,000 has 8/19/24
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):
10.) wrote on samples, per COC it should be 8/20/24.

PM (or PMA) review: Initials WJ Date 8/26/24 Page 1 of 1

GL-CHL-SR-001 Rev 7

List of current GEL Certifications as of 05 September 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-41
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

September 19, 2024

Joju Abraham
Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308

Re: Arkwright CCR Groundwater Compliance Relog: Radiochemistry
Work Order: 682142

Dear Joju Abraham:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on August 21, 2024. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
682142001	ARK-ARGWA-3	Ground Water	08/20/24 16:55	08/21/24 14:00
682142002	ARK-ARGWA-12	Ground Water	08/20/24 16:30	08/21/24 14:00
682142003	ARK-ARGWA-24	Ground Water	08/20/24 17:10	08/21/24 14:00

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Prep Methods and Prep Dates

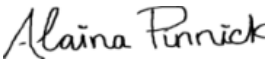
Not Applicable

Analysis Methods and Analysis Dates

Method	Run Date ID
Calculation	19-SEP-2024
EPA 903.1 Modified	18-SEP-2024
EPA 903.1 Modified	19-SEP-2024
EPA 904.0/SW846 9320 Modified	17-SEP-2024

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4443.

Sincerely,



Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0005
Enclosures

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 682142 GEL Work Order: 682142

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Alaina Pinnick.

Reviewed by Alaina Pinnick

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 19, 2024

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceRelog: Radiochemistry

Client Sample ID: ARK-ARGWA-3
Sample ID: 682142001
Matrix: WG
Collect Date: 20-AUG-24
Receive Date: 21-AUG-24
Collector: Client

Project: GPCC00100
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		1.85	+/-1.09	1.60	+/-1.19	3.00	pCi/L			KP1	09/17/24	1253	2661778	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.88	+/-1.16	1.60	+/-1.26		pCi/L		1	NXL1	09/19/24	1325	2665106	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		1.04	+/-0.377	0.337	+/-0.409	1.00	pCi/L			MJ2	09/18/24	1044	2661719	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2661778	77.1	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 19, 2024

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceRelog: Radiochemistry

Client Sample ID: ARK-ARGWA-12
Sample ID: 682142002
Matrix: WG
Collect Date: 20-AUG-24
Receive Date: 21-AUG-24
Collector: Client

Project: GPCC00100
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.479	+/-0.907	1.61	+/-0.915	3.00	pCi/L			KP1	09/17/24	1253	2661778	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	0.919	+/-0.937	1.61	+/-0.950		pCi/L		1	NXL1	09/19/24	1325	2665106	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.440	+/-0.237	0.224	+/-0.255	1.00	pCi/L			MJ2	09/18/24	1118	2661719	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2661778	75.8	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 19, 2024

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceRelog: Radiochemistry

Client Sample ID: ARK-ARGWA-24 Project: GPCC00100
Sample ID: 682142003 Client ID: GPCC001
Matrix: WG
Collect Date: 20-AUG-24
Receive Date: 21-AUG-24
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.675	+/-0.989	1.71	+/-1.00	3.00	pCi/L			KP1	09/17/24	1253	2661778	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.87	+/-1.18	1.71	+/-1.28		pCi/L		1	NXL1	09/19/24	1325	2665106	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		2.19	+/-0.641	0.424	+/-0.790	1.00	pCi/L			MJ2	09/19/24	0808	2661722	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2661778	74.5	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

Radiochemistry
Technical Case Narrative
Georgia Power Company
SDG #: 682142

Product: **Radium-226+Radium-228 Calculation**
Analytical Method: Calculation
Analytical Procedure: GL-RAD-D-003 REV# 45
Analytical Batch: 2665106

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
682142001	ARK-ARGWA-3
682142002	ARK-ARGWA-12
682142003	ARK-ARGWA-24

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **GFPC Ra228, Liquid**
Analytical Method: EPA 904.0/SW846 9320 Modified
Analytical Procedure: GL-RAD-A-063 REV# 5
Analytical Batch: 2661778

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
682142001	ARK-ARGWA-3
682142002	ARK-ARGWA-12
682142003	ARK-ARGWA-24
1205832458	Method Blank (MB)
1205832459	682097001(ARK-ARGWA-19) Sample Duplicate (DUP)
1205832460	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **Lucas Cell, Ra226, Liquid**
Analytical Method: EPA 903.1 Modified
Analytical Procedure: GL-RAD-A-008 REV# 15
Analytical Batch: 2661719

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
682142001	ARK-ARGWA-3
682142002	ARK-ARGWA-12
1205832284	Method Blank (MB)
1205832285	682059001(NonSDG) Sample Duplicate (DUP)
1205832286	682059001(NonSDG) Matrix Spike (MS)
1205832287	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments
The matrix spike, 1205832286 (Non SDG 682059001MS), aliquot was reduced to conserve sample volume.

Product: **Lucas Cell, Ra226, Liquid**
Analytical Method: EPA 903.1 Modified
Analytical Procedure: GL-RAD-A-008 REV# 15
Analytical Batch: 2661722

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
682142003	ARK-ARGWA-24
1205832291	Method Blank (MB)
1205832292	682059007(NonSDG) Sample Duplicate (DUP)
1205832293	682059007(NonSDG) Matrix Spike (MS)
1205832294	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments
The matrix spike, 1205832293 (Non SDG 682059007MS), aliquot was reduced to conserve sample volume.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

QC Summary

Client : **Georgia Power Company, Southern Company**
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia

Contact: **Joju Abraham**

Workorder: **682142**

Report Date: September 19, 2024

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gas Flow										
Batch 2661778										
QC1205832459 682097001 DUP										
Radium-228	U	1.83	U	0.527	pCi/L	0		N/A	KP1	09/17/2412:52
	Uncert:	+/-1.31		+/-1.23						
	TPU:	+/-1.39		+/-1.24						
QC1205832460 LCS										
Radium-228	70.5			55.7	pCi/L		79	(75%-125%)	KP1	09/17/2412:52
	Uncert:			+/-4.20						
	TPU:			+/-14.9						
QC1205832458 MB										
Radium-228			U	0.570	pCi/L				KP1	09/17/2412:52
	Uncert:			+/-0.923						
	TPU:			+/-0.934						
Rad Ra-226										
Batch 2661719										
QC1205832285 682059001 DUP										
Radium-226		1.86		1.85	pCi/L	.352		(0% - 100%)	MJ2	09/18/2411:18
	Uncert:	+/-0.519		+/-0.524						
	TPU:	+/-0.617		+/-0.623						
QC1205832287 LCS										
Radium-226	27.1			24.1	pCi/L		88.7	(75%-125%)	MJ2	09/18/2411:18
	Uncert:			+/-1.64						
	TPU:			+/-4.66						
QC1205832284 MB										
Radium-226			U	0.274	pCi/L				MJ2	09/18/2411:18
	Uncert:			+/-0.231						
	TPU:			+/-0.236						
QC1205832286 682059001 MS										
Radium-226	128	1.86		121	pCi/L		93	(75%-125%)	MJ2	09/18/2411:18
	Uncert:	+/-0.519		+/-7.58						
	TPU:	+/-0.617		+/-20.9						
Batch 2661722										
QC1205832292 682059007 DUP										
Radium-226		0.654		0.666	pCi/L	1.82		(0% - 100%)	MJ2	09/19/2409:19
	Uncert:	+/-0.375		+/-0.384						
	TPU:	+/-0.399		+/-0.408						
QC1205832294 LCS										
Radium-226	27.1			22.8	pCi/L		84.1	(75%-125%)	MJ2	09/19/2409:19
	Uncert:			+/-2.00						
	TPU:			+/-4.73						
QC1205832291 MB										
Radium-226			U	0.372	pCi/L				MJ2	09/19/2409:19

QC Summary

Workorder: **682142**

Parmname		NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Ra-226											
Batch	2661722										
		Uncert:			+/-0.365						
		TPU:			+/-0.369						
QC1205832293	682059007 MS										
Radium-226		123	0.654		112	pCi/L		90.5	(75%-125%)	MJ2	09/19/2409:19
		Uncert:	+/-0.375		+/-10.0						
		TPU:	+/-0.399		+/-19.2						

Notes:

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

The Qualifiers in this report are defined as follows:

U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported
UI	Gamma Spectroscopy--Uncertain identification
BD	Results are either below the MDC or tracer recovery is low
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
M	M if above MDC and less than LLD
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
FA	Failed analysis.
UJ	Gamma Spectroscopy--Uncertain identification
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
K	Analyte present. Reported value may be biased high. Actual value is expected to be lower.
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.
L	Analyte present. Reported value may be biased low. Actual value is expected to be higher.
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
**	Analyte is a Tracer compound
M	REMP Result > MDC/CL and < RDL
J	See case narrative for an explanation

QC Summary

Workorder: **682142**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
** Indicates analyte is a surrogate/tracer compound.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptence criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Page: 1 of 1
Project # 175569434
GEL Quote #:
COC Number (1): 4 Sample Cooler(s) 1
PO Number: GPC82177-0005

GEL Laboratories LLC
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Alaina Pinnick*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

682138
682142

Client Name: Georgia Power — Phone # (937-344-6533)
Project/Site Name: Plant Arkwright Ash Pond _3_ — Fax: N/A
Address: 241 Ralph McGill Blvd SE, Atlanta, GA 30308
Collected By: Jackson Bankston, Zach Levy, John Myer, Dylan Quintal — Send Results To: jabraham@southernco.com EDD@stantec.com cassidy.sutherland@stantec.com

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Ag (App. I) (6020B)	NI Metals App. III (B, Ca) (6020B)	Alkalinity (300.0 R2.1) see Additional Remarks	TDS (SM Method 2540C)	Anions (Cl, Fl, Sulfate) (300.0 Rev. 2.1 1993)	NI Metals App. IV (6020B) see Additional Remarks	NI RAD 226-228 Cmbd	NI Mercury (7470B)	NI Metals Al, K, Mg, Na, Fe, Mn (6020B)	NI Fe2+/Mn2+ (6020B) Field Filtered	SA Nitrate/ Nitrite (EPA Method 353.2)	<-- Preservative Type (6)	Comments (task_code: ARK-CCR-ASSMT-2024S2)
ARK-ARGWA-3	08-20-24	1655	N	N	WG			8	X	X	X	X	X	X	X	X	X		X		
ARK-ARGWA-12	08-20-24	1630	N	N	WG			8	X	X	X	X	X	X	X	X	X		X		
ARK-ARGWA-24	08-20-24	1710	N	N	WG			8	X	X	X	X	X	X	X	X	X		X		

Chain of Custody Signatures

	Relinquished By (Signed)	Print Name	Date	Received by (signed)	Print Name	Date
1		Stantec	8/21/24			8/21/24
2						8/21/24 1400
3						

TAT Requested: Normal: X Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [X] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [X] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: Metals App. IV: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl
Alkalinity: bicarbonate as CaCO3, carbonate as CaCO3, total as CaCO3

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** 1 °C

> ***For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)***

Sample Collection Time Zone: [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a **- Y -** for yes the sample was field filtered or **- N -** for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* **- 3**, *6010B 7470A* **- 1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns.
(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

682138 682097 682084
682142 682098 AP
682093 ~~682097~~ WT 8/26/24

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	SDG/AR/COC/Work Order:
Received By: CLM	Date Received: 8/21/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other Cooler 1-0° 3-1° 5-1° 7-0° 9-1° 11-1° 2-0° 4-0° 6-0° 8-1° 10-0°

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM/ mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: Wet Ice Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: See above with coolers
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR5-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?			✓	Circle Applicable: No dates on containers No times on containers COC missing info Other (describe) ARL-A RAMW-8 (2 of 3) plastic 1,000 hes 8/19/24
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):
10.) wrote on samples, per COC it should be 8/20/24.

PM (or PMA) review: Initials WJ Date 8/26/24 Page 1 of 1

GL-CHL-SR-001 Rev 7

List of current GEL Certifications as of 19 September 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-41
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

September 05, 2024

Joju Abraham
Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308

Re: Arkwright CCR Groundwater Compliance 175569434
Work Order: 682143

Dear Joju Abraham:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on August 21, 2024. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
682143001	ARK-ARGWA-3	Ground Water	08/20/24 16:55	08/21/24 14:00
682143002	ARK-ARGWA-12	Ground Water	08/20/24 16:30	08/21/24 14:00
682143003	ARK-ARGWA-24	Ground Water	08/20/24 17:10	08/21/24 14:00

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Prep Methods and Prep Dates

Method	Run Date ID
SW846 3005A	24-AUG-2024

Analysis Methods and Analysis Dates

Method	Run Date ID
SW846 3005A/6020B	27-AUG-2024

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4443.

Sincerely,

Alaina Pinnick

Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0005
Enclosures

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 682143 GEL Work Order: 682143

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL

J Value is estimated

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Alaina Pinnick.

Reviewed by Alaina Pinnick

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 5, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Arkwright CCR Groundwater Compliance175569434

Client Sample ID:	ARK-ARGWA-3	Project:	GPCC00100
Sample ID:	682143001	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	20-AUG-24 16:55		
Receive Date:	21-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Fe & Mn "As Received"												
Iron	U	ND	0.0330	0.100	mg/L	1.00	1	RM4	08/27/24	1908	2661575	1
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	08/24/24	1250	2661574

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 5, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Arkwright CCR Groundwater Compliance175569434

Client Sample ID:	ARK-ARGWA-12	Project:	GPCC00100
Sample ID:	682143002	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	20-AUG-24 16:30		
Receive Date:	21-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Fe & Mn "As Received"												
Iron	U	ND	0.0330	0.100	mg/L	1.00	1	RM4	08/27/24	1926	2661575	1
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	08/24/24	1250	2661574

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 5, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Arkwright CCR Groundwater Compliance175569434

Client Sample ID:	ARK-ARGWA-24	Project:	GPCC00100
Sample ID:	682143003	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	20-AUG-24 17:10		
Receive Date:	21-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Fe & Mn "As Received"												
Iron	J	0.0578	0.0330	0.100	mg/L	1.00	1	RM4	08/27/24	1930	2661575	1
Manganese	J	0.00285	0.00100	0.00500	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	08/24/24	1250	2661574

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

QC Summary

Report Date: September 5, 2024

Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia

Contact: **Joju Abraham**

Workorder: **682143**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch 2661575											
QC1205831965 LCS											
Iron	2.00			2.07	mg/L		104	(80%-120%)	RM4	08/27/24	19:04
Manganese	0.0500			0.0531	mg/L		106	(80%-120%)			
QC1205831964 MB											
Iron			U	ND	mg/L					08/27/24	19:00
Manganese			U	ND	mg/L						
QC1205831966 682143001 MS											
Iron	2.00	U	ND	2.02	mg/L		101	(75%-125%)		08/27/24	19:11
Manganese	0.0500	U	ND	0.0523	mg/L		104	(75%-125%)			
QC1205831967 682143001 MSD											
Iron	2.00	U	ND	2.02	mg/L	0.256	101	(0%-20%)		08/27/24	19:15
Manganese	0.0500	U	ND	0.0522	mg/L	0.0804	104	(0%-20%)			
QC1205831968 682143001 SDILT											
Iron		U	ND	U ND	ug/L	N/A		(0%-20%)		08/27/24	19:23
Manganese		U	ND	U ND	ug/L	N/A		(0%-20%)			

Notes:

The Qualifiers in this report are defined as follows:

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

J Value is estimated

QC Summary

Workorder: **682143**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
N	Metals--The Matrix spike sample recovery is not within specified control limits
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
E	%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
FB	Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
J	See case narrative for an explanation

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Metals
Technical Case Narrative
Georgia Power Company
SDG #: 682143

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2661575

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2661574

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
682143001	ARK-ARGWA-3
682143002	ARK-ARGWA-12
682143003	ARK-ARGWA-24
1205831964	Method Blank (MB)**ICP-MS**
1205831965	Laboratory Control Sample (LCS)
1205831968	682143001(ARK-ARGWA-3L) Serial Dilution (SD)
1205831966	682143001(ARK-ARGWA-3S) Matrix Spike (MS)
1205831967	682143001(ARK-ARGWA-3SD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Page: 1 of 1
Project # 175569434
GEL Quote #:
COC Number [1]: 5 Sample Cooler(s): 1
PO Number: GPC82177-0005

GEL Laboratories LLC
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Alaina Pinnick*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

682143

Client Name: Georgia Power Phone # (937-344-6533)
Project/Site Name: Plant Arkwright Ash Pond _3_ Fax: N/A
Address: 241 Ralph McGill Blvd SE, Atlanta, GA 30308
Collected By: Jackson Bankston, Zach Levy, John Myer, Dylan Quintal
Send Results To: jabraham@southernco.com EDD@stantec.com cassidy.sutherland@stantec.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Ag (App. I) (6020B)	NI Metals App. III (B, Ca) (6020B)	Alkalinity (300.0 R2.1) see Additional Remarks	TDS (SM Method 2540C)	Anions (Cl, Fl, Sulfate) (300.0 Rev. 2.1 1993)	NI Metals App. IV (6020B) see Additional Remarks	NI RAD 226-228 Cmbd	NI Mercury (7470B)	NI Metals Al, K, Mg, Na, Fe, Mn (6020B)	NI Fe2+/ Mn2+ (6020B) Field Filtered	SA Nitrate/ Nitrite (EPA Method 353.2)	<-- Preservative Type (6)	Comments (task_code: ARK-CCR-ASSMT-2024S2)
ARK-ARGWA-3	08-20-24	1655	N	Y	WG			1										X			
ARK-ARGWA-12	08-20-24	1630	N	Y	WG			1										X			
ARK-ARGWA-24	08-20-24	1710	N	Y	WG			1										X			

Chain of Custody Signatures

Relinquished By (Signed)	Print Name	Date	Received by (signed)	Print Name	Date
1	Stantec	8/21/24	1		8/21/24
2			2		8/21/24 1400
3			3		

TAT Requested: Normal: X Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [X] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [X] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: Metals App. IV: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl
Alkalinity: bicarbonate as CaCO3, carbonate as CaCO3, total as CaCO3

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** 1 °C

Sample Collection Time Zone: [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

> For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a **- Y -** for yes the sample was field filtered or **- N -** for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B 7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns.
(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

682138 682097 682084
682142 682098 AP
682093 ~~682097~~ WT 8/22/24

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	SDG/AR/COC/Work Order:
Received By: CLM	Date Received: 8/21/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other Cooler 1-0° 3-1° 5-1° 7-0° 9-1° 11-1° 2-0° 4-0° 6-0° 8-1° 10-0°

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 0 CPM/ mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: Wet Ice Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: See above with coolers
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR5-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?			✓	Circle Applicable: No dates on containers No times on containers COC missing info Other (describe) ARK-ARAMW-8 (2 of 3) plastic 1,000 has 8/19/24
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):
10.) wrote on samples, per COC it should be 8/20/24.

PM (or PMA) review: Initials WJ Date 8/26/24 Page 1 of 1

GL-CHL-SR-001 Rev 7

List of current GEL Certifications as of 05 September 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-41
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

September 06, 2024

Joju Abraham
Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308

Re: Arkwright CCR Groundwater Compliance
Work Order: 682324

Dear Joju Abraham:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on August 22, 2024. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The sample was delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
682324001	ARK-ARGWA-14	Ground Water	08/22/24 07:10	08/22/24 15:00

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Prep Methods and Prep Dates

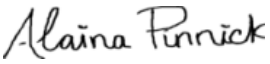
Method	Run Date ID
SW846 3005A	26-AUG-2024
SW846 7470A Prep	23-AUG-2024

Analysis Methods and Analysis Dates

Method	Run Date ID
EPA 300.0	24-AUG-2024
EPA 353.2 Low Level	23-AUG-2024
SM 2320B	22-AUG-2024
SM 2540C	29-AUG-2024
SW846 3005A/6020B	01-SEP-2024
SW846 3005A/6020B	31-AUG-2024
SW846 7470A	26-AUG-2024

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4443.

Sincerely,



Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0005
Chain of Custody: 10
Enclosures

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 682324 GEL Work Order: 682324

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL

J Value is estimated

N/A RPD or %Recovery limits do not apply.

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Alaina Pinnick.

Reviewed by Alaina Pinnick

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 6, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Arkwright CCR Groundwater Compliance

Client Sample ID: ARK-ARGWA-14
Sample ID: 682324001
Matrix: WG
Collect Date: 22-AUG-24 07:10
Receive Date: 22-AUG-24
Collector: Client

Project: GPCC00100
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		4.39	0.0670	0.200	mg/L		1	CWW	08/24/24	0322	2661838	1
Fluoride		0.210	0.0330	0.100	mg/L		1					
Sulfate		5.41	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/26/24	1156	2661400	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Aluminum	U	ND	0.0193	0.0500	mg/L	1.00	1	BAJ	08/31/24	1623	2661587	3
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1					
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0563	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Magnesium		8.55	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	J	0.000727	0.000200	0.00100	mg/L	1.00	1					
Potassium		2.99	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Silver	U	ND	0.000300	0.00100	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.0311	0.00520	0.0150	mg/L	1.00	1	BAJ	09/01/24	1225	2661587	4
Calcium		45.3	0.0800	0.200	mg/L	1.00	1					
Lithium	J	0.00312	0.00300	0.0100	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	PRB	09/01/24	1522	2661587	5
Sodium		56.0	0.400	1.25	mg/L	1.00	5	BAJ	08/31/24	1638	2661587	6
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite		0.264	0.00700	0.0200	mg/L		1	JLD1	08/23/24	1107	2661630	7
Solids Analysis												
SM2540C Dissolved Solids "As Received"												

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 6, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Arkwright CCR Groundwater Compliance

Client Sample ID: ARK-ARGWA-14 Project: GPCC00100
Sample ID: 682324001 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		309	2.38	10.0	mg/L			KLP1	08/29/24	1041	2664569	8
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		225	0.725	2.00	mg/L			JW2	08/22/24	1648	2661505	9
Bicarbonate alkalinity (CaCO3)		225	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	AB5	08/26/24	0820	2661586
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/23/24	1030	2661398

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	EPA 353.2 Low Level	
8	SM 2540C	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

QC Summary

Report Date: September 6, 2024

Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia

Contact: **Joju Abraham**

Workorder: **682324**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography										
Batch 2661838										
QC1205832620 682084001 DUP										
Chloride		1.80		1.81	mg/L	0.725		(0%-20%)	CWW	08/23/24 13:35
Fluoride		0.333		0.329	mg/L	1.21	^	(+/-0.100)		
Sulfate		55.2		54.9	mg/L	0.497		(0%-20%)		08/24/24 05:30
QC1205832622 682084011 DUP										
Chloride		9.67		9.69	mg/L	0.146		(0%-20%)		08/23/24 21:00
Fluoride		0.464		0.472	mg/L	1.71	^	(+/-0.100)		
Sulfate		253		254	mg/L	0.506		(0%-20%)		08/24/24 17:57
QC1205832619 LCS										
Chloride	5.00			5.18	mg/L		104	(90%-110%)		08/23/24 12:31
Fluoride	2.50			2.57	mg/L		103	(90%-110%)		
Sulfate	10.0			10.5	mg/L		105	(90%-110%)		08/29/24 15:47
QC1205832618 MB										
Chloride			U	ND	mg/L					08/23/24 11:59
Fluoride			U	ND	mg/L					
Sulfate			U	ND	mg/L					08/29/24 15:15

QC Summary

Workorder: **682324**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography										
Batch 2661838										
QC1205832621 682084001 PS										
Chloride	5.00	1.80		7.03	mg/L		105	(90%-110%)	CWW	08/23/24 14:06
Fluoride	2.50	0.333		3.02	mg/L		107	(90%-110%)		
Sulfate	10.0	11.0		21.7	mg/L		106	(90%-110%)		08/24/24 06:02
QC1205832623 682084011 PS										
Chloride	5.00	9.67		15.7	mg/L		120*	(90%-110%)		08/23/24 21:32
Fluoride	2.50	0.464		3.10	mg/L		106	(90%-110%)		
Sulfate	10.0	10.1		20.7	mg/L		106	(90%-110%)		08/24/24 18:29
Metals Analysis - ICPMS										
Batch 2661587										
QC1205832001 LCS										
Aluminum	2.00			2.19	mg/L		109	(80%-120%)	BAJ	08/31/24 16:15
Antimony	0.0500			0.0496	mg/L		99.1	(80%-120%)		
Arsenic	0.0500			0.0516	mg/L		103	(80%-120%)		
Barium	0.0500			0.0511	mg/L		102	(80%-120%)		
Beryllium	0.0500			0.0527	mg/L		105	(80%-120%)	PRB	09/01/24 15:20
Boron	0.100			0.117	mg/L		117	(80%-120%)	BAJ	09/01/24 12:24
Cadmium	0.0500			0.0505	mg/L		101	(80%-120%)		08/31/24 16:15

QC Summary

Workorder: **682324**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2661587										
Calcium	2.00			2.13	mg/L		106	(80%-120%)	BAJ	09/01/24 12:24
Chromium	0.0500			0.0497	mg/L		99.4	(80%-120%)		08/31/24 16:15
Cobalt	0.0500			0.0499	mg/L		99.7	(80%-120%)		
Iron	2.00			2.02	mg/L		101	(80%-120%)		
Lead	0.0500			0.0519	mg/L		104	(80%-120%)		
Lithium	0.0500			0.0567	mg/L		113	(80%-120%)		09/01/24 12:24
Magnesium	2.00			2.26	mg/L		113	(80%-120%)		08/31/24 16:15
Manganese	0.0500			0.0487	mg/L		97.3	(80%-120%)		09/01/24 12:24
Molybdenum	0.0500			0.0521	mg/L		104	(80%-120%)		08/31/24 16:15
Potassium	2.00			2.12	mg/L		106	(80%-120%)		
Selenium	0.0500			0.0505	mg/L		101	(80%-120%)		
Silver	0.0500			0.0525	mg/L		105	(80%-120%)		
Sodium	2.00			2.23	mg/L		112	(80%-120%)		
Thallium	0.0500			0.0497	mg/L		99.4	(80%-120%)		

QC Summary

Workorder: **682324**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2661587										
QC1205832000 MB										
Aluminum			U	ND	mg/L				BAJ	08/31/24 16:12
Antimony			U	ND	mg/L					
Arsenic			U	ND	mg/L					
Barium			U	ND	mg/L					
Beryllium			U	ND	mg/L				PRB	09/01/24 15:18
Boron			U	ND	mg/L				BAJ	09/01/24 12:23
Cadmium			U	ND	mg/L					08/31/24 16:12
Calcium			U	ND	mg/L					09/01/24 12:23
Chromium			U	ND	mg/L					08/31/24 16:12
Cobalt			U	ND	mg/L					
Iron			U	ND	mg/L					
Lead			U	ND	mg/L					
Lithium			U	ND	mg/L					09/01/24 12:23
Magnesium			U	ND	mg/L					08/31/24 16:12

QC Summary

Workorder: **682324**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2661587											
Manganese				U	ND	mg/L				BAJ	09/01/24 12:23
Molybdenum				U	ND	mg/L					08/31/24 16:12
Potassium				U	ND	mg/L					
Selenium				U	ND	mg/L					
Silver				U	ND	mg/L					
Sodium				U	ND	mg/L					
Thallium				U	ND	mg/L					
QC1205832002 682324001 MS											
Aluminum	2.00	U	ND		2.07	mg/L		103	(75%-125%)		08/31/24 16:26
Antimony	0.0500	U	ND		0.0507	mg/L		101	(75%-125%)		
Arsenic	0.0500	U	ND		0.0524	mg/L		103	(75%-125%)		
Barium	0.0500		0.0563		0.105	mg/L		96.5	(75%-125%)		
Beryllium	0.0500	U	ND		0.0539	mg/L		108	(75%-125%)	PRB	09/01/24 15:24
Boron	0.100		0.0311		0.137	mg/L		106	(75%-125%)	BAJ	09/01/24 12:27
Cadmium	0.0500	U	ND		0.0501	mg/L		100	(75%-125%)		08/31/24 16:26

QC Summary

Workorder: **682324**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2661587											
Calcium	2.00		45.3		46.8	mg/L		N/A	(75%-125%)	BAJ	09/01/24 12:27
Chromium	0.0500	U	ND		0.0503	mg/L		99.2	(75%-125%)		08/31/24 16:26
Cobalt	0.0500	U	ND		0.0486	mg/L		97.3	(75%-125%)		
Iron	2.00	U	ND		1.95	mg/L		97.2	(75%-125%)		
Lead	0.0500	U	ND		0.0487	mg/L		97.4	(75%-125%)		
Lithium	0.0500	J	0.00312		0.0572	mg/L		108	(75%-125%)		09/01/24 12:27
Magnesium	2.00		8.55		10.6	mg/L		N/A	(75%-125%)		08/31/24 16:26
Manganese	0.0500	U	ND		0.0491	mg/L		96.5	(75%-125%)		09/01/24 12:27
Molybdenum	0.0500	J	0.000727		0.0541	mg/L		107	(75%-125%)		08/31/24 16:26
Potassium	2.00		2.99		5.01	mg/L		101	(75%-125%)		
Selenium	0.0500	U	ND		0.0504	mg/L		100	(75%-125%)		
Silver	0.0500	U	ND		0.0496	mg/L		99.2	(75%-125%)		
Sodium	2.00		56.0		58.4	mg/L		N/A	(75%-125%)		08/31/24 16:40
Thallium	0.0500	U	ND		0.0472	mg/L		94.5	(75%-125%)		08/31/24 16:26

QC Summary

Workorder: **682324**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS												
Batch 2661587												
QC1205832003 682324001 MSD												
Aluminum	2.00	U	ND		2.08	mg/L	0.83	104	(0%-20%)	BAJ	08/31/24	16:29
Antimony	0.0500	U	ND		0.0497	mg/L	1.9	99.3	(0%-20%)			
Arsenic	0.0500	U	ND		0.0516	mg/L	1.49	102	(0%-20%)			
Barium	0.0500		0.0563		0.104	mg/L	0.211	96	(0%-20%)			
Beryllium	0.0500	U	ND		0.0543	mg/L	0.732	109	(0%-20%)	PRB	09/01/24	15:26
Boron	0.100		0.0311		0.136	mg/L	0.562	105	(0%-20%)	BAJ	09/01/24	12:28
Cadmium	0.0500	U	ND		0.0496	mg/L	1.02	99.1	(0%-20%)		08/31/24	16:29
Calcium	2.00		45.3		46.9	mg/L	0.181	N/A	(0%-20%)		09/01/24	12:28
Chromium	0.0500	U	ND		0.0498	mg/L	0.833	98.3	(0%-20%)		08/31/24	16:29
Cobalt	0.0500	U	ND		0.0485	mg/L	0.226	97.1	(0%-20%)			
Iron	2.00	U	ND		1.95	mg/L	0.419	96.8	(0%-20%)			
Lead	0.0500	U	ND		0.0483	mg/L	0.791	96.6	(0%-20%)			
Lithium	0.0500	J	0.00312		0.0551	mg/L	3.83	104	(0%-20%)		09/01/24	12:28
Magnesium	2.00		8.55		10.7	mg/L	0.637	N/A	(0%-20%)		08/31/24	16:29

QC Summary

Workorder: **682324**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS												
Batch 2661587												
Manganese	0.0500	U	ND		0.0494	mg/L	0.586	97.1	(0%-20%)	BAJ	09/01/24	12:28
Molybdenum	0.0500	J	0.000727		0.0539	mg/L	0.369	106	(0%-20%)		08/31/24	16:29
Potassium	2.00		2.99		5.05	mg/L	0.73	103	(0%-20%)			
Selenium	0.0500	U	ND		0.0503	mg/L	0.157	99.8	(0%-20%)			
Silver	0.0500	U	ND		0.0498	mg/L	0.475	99.7	(0%-20%)			
Sodium	2.00		56.0		58.5	mg/L	0.131	N/A	(0%-20%)		08/31/24	16:43
Thallium	0.0500	U	ND		0.0465	mg/L	1.7	92.9	(0%-20%)		08/31/24	16:29
QC1205832004 682324001 SDILT												
Aluminum		U	ND	U	ND	ug/L	N/A		(0%-20%)		08/31/24	16:35
Antimony		U	ND	U	ND	ug/L	N/A		(0%-20%)			
Arsenic		U	ND	U	ND	ug/L	N/A		(0%-20%)			
Barium			56.3		11.4	ug/L	.925		(0%-20%)			
Beryllium		U	ND	U	ND	ug/L	N/A		(0%-20%)	PRB	09/01/24	15:30
Boron			31.1	J	8.22	ug/L	32.3		(0%-20%)	BAJ	09/01/24	12:30
Cadmium		U	ND	U	ND	ug/L	N/A		(0%-20%)		08/31/24	16:35

QC Summary

Workorder: **682324**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2661587										
Calcium		45300		9090	ug/L	.308		(0%-20%)	BAJ	09/01/24 12:30
Chromium	U	ND	U	ND	ug/L	N/A		(0%-20%)		08/31/24 16:35
Cobalt	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Iron	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Lithium	J	3.12	U	ND	ug/L	N/A		(0%-20%)		09/01/24 12:30
Magnesium		8550		1750	ug/L	2.51		(0%-20%)		08/31/24 16:35
Manganese	U	ND	U	ND	ug/L	N/A		(0%-20%)		09/01/24 12:30
Molybdenum	J	0.727	U	ND	ug/L	N/A		(0%-20%)		08/31/24 16:35
Potassium		2990		601	ug/L	.492		(0%-20%)		
Selenium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Silver	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Sodium		11200		2380	ug/L	6.14		(0%-20%)		08/31/24 16:49
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)		08/31/24 16:35

QC Summary

Workorder: **682324**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis-Mercury												
Batch 2661400												
QC1205831549 681947004 DUP												
Mercury		U	ND	U	ND	mg/L	N/A			JP2	08/26/24	11:18
QC1205831548 LCS												
Mercury	0.00200				0.00209	mg/L		104	(80%-120%)		08/26/24	11:10
QC1205831547 MB												
Mercury				U	ND	mg/L					08/26/24	11:08
QC1205831550 681947004 MS												
Mercury	0.00200	U	ND		0.00212	mg/L		106	(75%-125%)		08/26/24	11:20
QC1205831551 681947004 SDILT												
Mercury		U	ND	U	ND	ug/L	N/A		(0%-10%)		08/26/24	11:21
Nutrient Analysis												
Batch 2661630												
QC1205832110 682321001 DUP												
Nitrogen, Nitrate/Nitrite			1.97		1.97	mg/L	0		(0%-20%)	JLD1	08/23/24	10:47
QC1205832109 LCS												
Nitrogen, Nitrate/Nitrite	1.00				0.998	mg/L		99.8	(90%-110%)		08/23/24	10:44
QC1205832108 MB												
Nitrogen, Nitrate/Nitrite				U	ND	mg/L					08/23/24	10:43
QC1205832111 682321001 PS												
Nitrogen, Nitrate/Nitrite	1.00		0.394		1.41	mg/L		101	(90%-110%)		08/23/24	10:49
Solids Analysis												
Batch 2664569												
QC1205838906 682409004 DUP												
Total Dissolved Solids			409		413	mg/L	0.973		(0%-5%)	KLP1	08/29/24	10:41

QC Summary

Workorder: **682324**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Solids Analysis											
Batch 2664569											
QC1205838904 LCS											
Total Dissolved Solids	300			294	mg/L		98	(95%-105%)	KLP1	08/29/24	10:41
QC1205838903 MB											
Total Dissolved Solids			J	4.00	mg/L					08/29/24	10:41
Titration and Ion Analysis											
Batch 2661505											
QC1205831761 LCS											
Alkalinity, Total as CaCO3	50.0			53.8	mg/L		108	(90%-110%)	JW2	08/22/24	16:44
QC1205831762 LCS											
Alkalinity, Total as CaCO3	15.0			15.0	mg/L		100	(90%-110%)		08/22/24	16:46
QC1205831763 LCSD											
Alkalinity, Total as CaCO3	50.0			53.4	mg/L	0.746	107	(0%-20%)		08/22/24	16:45
QC1205831764 LCSD											
Alkalinity, Total as CaCO3	15.0			15.4	mg/L	2.63	103	(0%-20%)		08/22/24	16:47

Notes:

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- N Metals--The Matrix spike sample recovery is not within specified control limits
- H Analytical holding time was exceeded
- < Result is less than value reported
- > Result is greater than value reported
- h Preparation or preservation holding time was exceeded
- R Sample results are rejected
- Z Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
- d 5-day BOD--The 2:1 depletion requirement was not met for this sample

QC Summary

Workorder: **682324**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.

N/A RPD or %Recovery limits do not apply.

ND Analyte concentration is not detected above the detection limit

E %difference of sample and SD is >10%. Sample concentration must meet flagging criteria

NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

E General Chemistry--Concentration of the target analyte exceeds the instrument calibration range

Q One or more quality control criteria have not been met. Refer to the applicable narrative or DER.

FB Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies

N1 See case narrative

Y Other specific qualifiers were required to properly define the results. Consult case narrative.

R Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.

B The target analyte was detected in the associated blank.

e 5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes

J See case narrative for an explanation

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2661587

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2661586

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
682324001	ARK-ARGWA-14
1205832000	Method Blank (MB)**ICP-MS**
1205832001	Laboratory Control Sample (LCS)
1205832004	682324001(ARK-ARGWA-14L) Serial Dilution (SD)
1205832002	682324001(ARK-ARGWA-14S) Matrix Spike (MS)
1205832003	682324001(ARK-ARGWA-14SD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Sample 682324001 (ARK-ARGWA-14) was diluted to ensure that the analyte concentration was within the linear calibration range of the instrument.

Analyte	**682324**
	001
Sodium	5X

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**
Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 40
Analytical Batch: 2661400

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 40
Preparation Batch: 2661398

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
682324001	ARK-ARGWA-14
1205831547	Method Blank (MB)**CVAA**
1205831548	Laboratory Control Sample (LCS)
1205831551	681947004(NonSDGL) Serial Dilution (SD)
1205831549	681947004(NonSDGD) Sample Duplicate (DUP)
1205831550	681947004(NonSDGS) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

General Chemistry

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 35
Analytical Batch: 2661838

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
682324001	ARK-ARGWA-14
1205832618	Method Blank (MB)
1205832619	Laboratory Control Sample (LCS)
1205832620	682084001(ARK-AP1GWA-1) Sample Duplicate (DUP)
1205832621	682084001(ARK-AP1GWA-1) Post Spike (PS)
1205832622	682084011(ARK-AP1PZ-10) Sample Duplicate (DUP)
1205832623	682084011(ARK-AP1PZ-10) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Matrix Spike (MS)/Post Spike (PS) Recovery Statement
The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Chloride	1205832623 (ARK-AP1PZ-10PS)	120* (90%-110%)

Technical Information

Sample Dilutions
The following samples 1205832620 (ARK-AP1GWA-1DUP), 1205832621 (ARK-AP1GWA-1PS), 1205832622 (ARK-AP1PZ-10DUP) and 1205832623 (ARK-AP1PZ-10PS) were diluted because target analyte concentrations exceeded the calibration range. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Sample Re-analysis
Sample was re-analyzed due to high CVH failure. The reanalysis data with passing instrument QC was reported. 1205832618 (MB) and 1205832619 (LCS).

Miscellaneous Information

Manual Integrations
Samples were manually integrated to correctly position the baseline as set in the calibration standards for the analyte, Fluoride. 1205832620 (ARK-AP1GWA-1DUP), 1205832621 (ARK-AP1GWA-1PS), 1205832622 (ARK-AP1PZ-10DUP), 1205832623 (ARK-AP1PZ-10PS) and 682324001 (ARK-ARGWA-14).

Product: **Nitrate/Nitrite Cad Redux Low Level**
Analytical Method: EPA 353.2 Low Level
Analytical Procedure: GL-GC-E-128 REV# 15
Analytical Batch: 2661630

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
682324001	ARK-ARGWA-14
1205832108	Method Blank (MB)
1205832109	Laboratory Control Sample (LCS)
1205832110	682321001(NonSDG) Sample Duplicate (DUP)
1205832111	682321001(NonSDG) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Sample Dilutions
The following samples 1205832110 (Non SDG 682321001DUP) and 1205832111 (Non SDG 682321001PS) were diluted because target analyte concentrations exceeded the calibration range. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 21
Analytical Batch: 2664569

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
682324001	ARK-ARGWA-14
1205838903	Method Blank (MB)
1205838904	Laboratory Control Sample (LCS)
1205838906	682409004(NonSDG) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Method Blank (MB) Statement
The MB (See Below) analyzed with this SDG met the acceptance criteria. In instances where there were positive hits in the method blank, the results were evaluated and appropriately flagged on the data.

Sample	Analyte	Value
1205838903 (MB)	Total Dissolved Solids	4 between (2.38 - 10)

Product: **Alkalinity**
Analytical Method: SM 2320B
Analytical Procedure: GL-GC-E-033 REV# 16
Analytical Batch: 2661505

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
682324001	ARK-ARGWA-14
1205831761	Laboratory Control Sample (LCS)
1205831762	Laboratory Control Sample (LCS)
1205831763	Laboratory Control Sample Duplicate (LCSD)
1205831764	Laboratory Control Sample Duplicate (LCSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Laboratory Control Sample Duplicate (LCSD)
An LCSD was used in place of matrix QC due to limited sample volume.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Page: 1 of 1
Project # 175569434
GED Quote #:
COC Number (1): 10 Sample Cooler(s) 1
PO Number: GPC82177-0005

GEL Laboratories LLC
gel.com | Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: 682324 682325
GEL Project Manager: Alaina Pinnick

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Georgia Power
Phone # (937-344-6533)
Project/Site Name: Plant Arkwright Ash Pond _3_
Fax: N/A
Address: 241 Ralph McGill Blvd SE, Atlanta, GA 30308
Collected By: Jackson Bankston, Zach Levy, John Myer, Dylan Quintal
Send Results To: jabraham@southernco.com EDD@stantec.com cassidy.sutherland@stantec.com

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Ag (App. I) (6020B)	NI Metals App. III (B, Ca) (6020B)	NI Alkalinity (300.0 R2.1) see Additional Remarks	NI TDS (SM Method 2540C)	NI Anions (Cl, Fl, Sulfate) (300.0 Rev. 2.1 1993)	NI Metals App. IV (6020B) see Additional Remarks	NI RAD 226-228 Cmbd	NI Mercury (7470B)	NI Metals Al, K, Mg, Na, Fe, Mn (6020B)	NI Fe2+/ Mn2+ (6020B) Field Filtered	SA Nitrate/ Nitrite (EPA Method 353.2)	<-- Preservative Type (6) Comments (task_code: ARK-CCR-ASSMT-2024S2)
ARK-ARGWA-14	08-22-24	0710	N	N	WG			7	X	X	X	X	X	X	X	X	X		X	1.6L RAD collected sampled within 24hrs.

Chain of Custody Signatures

	Relinquished By (Signed)	Print Name	Date	Received by (signed)	Print Name	Date
1		Stantec	8/22/24			8/23/24
2						8/22/24 1525
3						

> For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)

TAT Requested: Normal: X Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [X] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [X] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: Metals App. IV: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl
Alkalinity: bicarbonate as CaCO3, carbonate as CaCO3, total as CaCO3

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** ____ °C

Sample Collection Time Zone : [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a **- Y -** for yes the sample was field filtered or **- N -** for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns.
(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

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SDG 682324

682324
682325

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	SDG/AR/COC/Work Order:
Received By: QG	Date Received: 8/22/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier (Other) n/a

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 (CPM) / mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: (Wet Ice) Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP:_____
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR1-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?	✓			If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

Cooler 1- 0°c
2- 0°c
3- 1°c
4- 0°c
5- 0°c
6- 0°c
7- 1°c
8- 0°c

PM (or PMA) review: Initials HB Date 8/23/24 Page 1 of 1

List of current GEL Certifications as of 06 September 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-41
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

September 19, 2024

Joju Abraham
Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308

Re: Arkwright CCR Groundwater Compliance Relog: Radiochemistry
Work Order: 682325

Dear Joju Abraham:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on August 22, 2024. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The sample was delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
682325001	ARK-ARGWA-14	Ground Water	08/22/24 07:10	08/22/24 15:00

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Prep Methods and Prep Dates

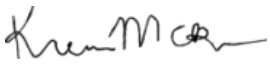
Not Applicable

Analysis Methods and Analysis Dates

Method	Run Date ID
Calculation	19-SEP-2024
EPA 903.1 Modified	19-SEP-2024
EPA 904.0/SW846 9320 Modified	17-SEP-2024

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4443.

Sincerely,



Kierra McKnight for
Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0005
Chain of Custody: 10
Enclosures

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 682325 GEL Work Order: 682325

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

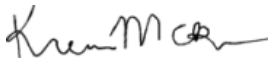
** Analyte is a surrogate compound

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Alaina Pinnick.

Reviewed by 

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 19, 2024

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceRelog: Radiochemistry

Client Sample ID: ARK-ARGWA-14
Sample ID: 682325001
Matrix: WG
Collect Date: 22-AUG-24
Receive Date: 22-AUG-24
Collector: Client

Project: GPCC00100
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.943	+/-1.10	1.85	+/-1.12	3.00	pCi/L			KP1	09/17/24	1253	2661778	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	1.40	+/-1.16	1.85	+/-1.18		pCi/L		1	NXL1	09/19/24	1325	2665106	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.455	+/-0.371	0.481	+/-0.377	1.00	pCi/L			MJ2	09/19/24	0808	2661722	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2661778	81.7	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

Radiochemistry
Technical Case Narrative
Georgia Power Company
SDG #: 682325

Product: **Radium-226+Radium-228 Calculation**
Analytical Method: Calculation
Analytical Procedure: GL-RAD-D-003 REV# 45
Analytical Batch: 2665106

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
682325001	ARK-ARGWA-14

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **GFPC Ra228, Liquid**
Analytical Method: EPA 904.0/SW846 9320 Modified
Analytical Procedure: GL-RAD-A-063 REV# 5
Analytical Batch: 2661778

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
682325001	ARK-ARGWA-14
1205832458	Method Blank (MB)
1205832459	682097001(ARK-ARGWA-19) Sample Duplicate (DUP)
1205832460	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **Lucas Cell, Ra226, Liquid**
Analytical Method: EPA 903.1 Modified
Analytical Procedure: GL-RAD-A-008 REV# 15
Analytical Batch: 2661722

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
682325001	ARK-ARGWA-14
1205832291	Method Blank (MB)
1205832292	682059007(NonSDG) Sample Duplicate (DUP)
1205832293	682059007(NonSDG) Matrix Spike (MS)
1205832294	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments
The matrix spike, 1205832293 (Non SDG 682059007MS), aliquot was reduced to conserve sample volume.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

QC Summary

Client : **Georgia Power Company, Southern Company**
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia

Contact: **Joju Abraham**

Workorder: **682325**

Report Date: September 19, 2024

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gas Flow										
Batch 2661778										
QC1205832459 682097001 DUP										
Radium-228	U	1.83	U	0.527	pCi/L	0		N/A	KP1	09/17/2412:52
	Uncert:	+/-1.31		+/-1.23						
	TPU:	+/-1.39		+/-1.24						
QC1205832460 LCS										
Radium-228	70.5			55.7	pCi/L		79	(75%-125%)	KP1	09/17/2412:52
	Uncert:			+/-4.20						
	TPU:			+/-14.9						
QC1205832458 MB										
Radium-228			U	0.570	pCi/L				KP1	09/17/2412:52
	Uncert:			+/-0.923						
	TPU:			+/-0.934						
Rad Ra-226										
Batch 2661722										
QC1205832292 682059007 DUP										
Radium-226		0.654		0.666	pCi/L	1.82		(0% - 100%)	MJ2	09/19/2409:19
	Uncert:	+/-0.375		+/-0.384						
	TPU:	+/-0.399		+/-0.408						
QC1205832294 LCS										
Radium-226	27.1			22.8	pCi/L		84.1	(75%-125%)	MJ2	09/19/2409:19
	Uncert:			+/-2.00						
	TPU:			+/-4.73						
QC1205832291 MB										
Radium-226			U	0.372	pCi/L				MJ2	09/19/2409:19
	Uncert:			+/-0.365						
	TPU:			+/-0.369						
QC1205832293 682059007 MS										
Radium-226	123	0.654		112	pCi/L		90.5	(75%-125%)	MJ2	09/19/2409:19
	Uncert:	+/-0.375		+/-10.0						
	TPU:	+/-0.399		+/-19.2						

Notes:

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

The Qualifiers in this report are defined as follows:

U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported

QC Summary

Workorder: **682325**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time

UI	Gamma Spectroscopy--Uncertain identification
BD	Results are either below the MDC or tracer recovery is low
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
M	M if above MDC and less than LLD
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
FA	Failed analysis.
UJ	Gamma Spectroscopy--Uncertain identification
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
K	Analyte present. Reported value may be biased high. Actual value is expected to be lower.
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.
L	Analyte present. Reported value may be biased low. Actual value is expected to be higher.
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
**	Analyte is a Tracer compound
M	REMP Result > MDC/CL and < RDL
J	See case narrative for an explanation

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
** Indicates analyte is a surrogate/tracer compound.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptence criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Page: 1 of 1
Project # 175569434
GEL Quote #:
COC Number [1]: 10 Sample Cooler(s) 1
PO Number: GPC82177-0005

GEL Laboratories LLC
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: **GEL Project Manager: Alaina Pinnick**

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

682324
682325

Client Name: Georgia Power — Phone # (937-344-6533)
Project/Site Name: Plant Arkwright Ash Pond _3_ — Fax: N/A
Address: 241 Ralph McGill Blvd SE, Atlanta, GA 30308
Collected By: Jackson Bankston, Zach Levy, John Myer, Dylan Quintal
Send Results To: jabraham@southernco.com EDD@stantec.com cassidy.sutherland@stantec.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Ag (App. I) (6020B)	NI Metals App. III (B, Ca) (6020B)	NI Alkalinity (300.0 R2.1) see Additional Remarks	NI TDS (SM Method 2540C)	Anions (Cl, Fl, Sulfate) (300.0 Rev. 2.1 1993)	NI Metals App. IV (6020B) see Additional Remarks	NI RAD 226-228 Cmbd	NI Mercury (7470B)	NI Metals Al, K, Mg, Na, Fe, Mn (6020B)	NI Fe2+/ Mn2+ (6020B) Field Filtered	SA Nitrate/ Nitrite (EPA Method 353.2)	<-- Preservative Type (6) Comments (task_code: ARK-CCR-ASSMT-2024S2)
ARK-ARGWA-14	08-22-24	0710	N	N	WG			7	X	X	X	X	X	X	X	X	X		X	1.6L RAD collected sampled within 24hrs.

Chain of Custody Signatures

	Relinquished By (Signed)	Print Name	Date	Received by (signed)	Print Name	Date
1		Stantec	8/22/24	1		8/23/24
2				2		8/22/24 1525
3				3		

TAT Requested: Normal: X Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [X] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [X] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: Metals App. IV: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; Alkalinity: bicarbonate as CaCO3, carbonate as CaCO3, total as CaCO3

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** ____ °C

> ***For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)***

***Sample Collection Time Zone*:** [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a **- Y -** for yes the sample was field filtered or **- N -** for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns.
(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

Pg 5 of 5 DG: 8225

682324
682325

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	SDG/AR/COC/Work Order:
Received By: QG	Date Received: 8/22/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier (Other) n/a

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM / mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: (Wet Ice) Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP:_____
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR1-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?		✓		If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

Cooler 1- 0°c
2- 0°c
3- 1°c
4- 0°c
5- 0°c
6- 0°c
7- 1°c
8- 0°c

PM (or PMA) review: Initials HB Date 8/23/24 Page 1 of 1

List of current GEL Certifications as of 19 September 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-41
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

September 06, 2024

Joju Abraham
Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308

Re: Arkwright CCR Groundwater Compliance
Work Order: 682326

Dear Joju Abraham:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on August 22, 2024. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The sample was delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
682326001	ARK-ARGWA-14	Ground Water	08/22/24 07:10	08/22/24 15:00

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Prep Methods and Prep Dates

Method	Run Date ID
SW846 3005A	26-AUG-2024

Analysis Methods and Analysis Dates

Method	Run Date ID
SW846 3005A/6020B	01-SEP-2024
SW846 3005A/6020B	31-AUG-2024

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4443.

Sincerely,

Alaina Pinnick

Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0005
Chain of Custody: 10
Enclosures

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 682326 GEL Work Order: 682326

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL

J Value is estimated

N/A RPD or %Recovery limits do not apply.

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Alaina Pinnick.

Reviewed by Alaina Pinnick

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 6, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Arkwright CCR Groundwater Compliance

Client Sample ID:	ARK-ARGWA-14	Project:	GPCC00100
Sample ID:	682326001	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	22-AUG-24 07:10		
Receive Date:	22-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Fe & Mn "As Received"												
Iron	U	ND	0.0330	0.100	mg/L	1.00	1	BAJ	08/31/24	1659	2661587	1
Manganese	J	0.00224	0.00100	0.00500	mg/L	1.00	1	BAJ	09/01/24	1238	2661587	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	AB5	08/26/24	0820	2661586

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	
2	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

QC Summary

Report Date: September 6, 2024

Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia

Contact: **Joju Abraham**

Workorder: **682326**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2661587										
QC1205832001 LCS										
Iron	2.00			2.02	mg/L		101	(80%-120%)	BAJ	08/31/24 16:15
Manganese	0.0500			0.0487	mg/L		97.3	(80%-120%)		09/01/24 12:24
QC1205832000 MB										
Iron			U	ND	mg/L					08/31/24 16:12
Manganese			U	ND	mg/L					09/01/24 12:23
QC1205832002 682324001 MS										
Iron	2.00	U	ND	1.95	mg/L		97.2	(75%-125%)		08/31/24 16:26
Manganese	0.0500	U	ND	0.0491	mg/L		96.5	(75%-125%)		09/01/24 12:27
QC1205832003 682324001 MSD										
Iron	2.00	U	ND	1.95	mg/L	0.419	96.8	(0%-20%)		08/31/24 16:29
Manganese	0.0500	U	ND	0.0494	mg/L	0.586	97.1	(0%-20%)		09/01/24 12:28
QC1205832004 682324001 SDILT										
Iron		U	ND	U ND	ug/L	N/A		(0%-20%)		08/31/24 16:35
Manganese		U	ND	U ND	ug/L	N/A		(0%-20%)		09/01/24 12:30

Notes:

The Qualifiers in this report are defined as follows:

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

J Value is estimated

QC Summary

Workorder: **682326**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
N	Metals--The Matrix spike sample recovery is not within specified control limits
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
E	%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
FB	Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
J	See case narrative for an explanation

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Metals
Technical Case Narrative
Georgia Power Company
SDG #: 682326

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2661587

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2661586

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
682326001	ARK-ARGWA-14
1205832000	Method Blank (MB)**ICP-MS**
1205832001	Laboratory Control Sample (LCS)
1205832004	682324001(ARK-ARGWA-14L) Serial Dilution (SD)
1205832002	682324001(ARK-ARGWA-14S) Matrix Spike (MS)
1205832003	682324001(ARK-ARGWA-14SD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Page 8 of 30 Dec 2024

Page: 1 of 1
Project # 175569434
GEL Quote #:
COC Number [1]: 11 Sample Cooler(s) 1
PO Number: GPC82177-0005

GEL Laboratories LLC
gel.com
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: **GEL Project Manager: Alaina Pinnick**

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

682326
682326
HB 8/23/24

Client Name: Georgia Power — Phone # (937-344-6533)
Project/Site Name: Plant Arkwright Ash Pond _3_ — Fax: N/A
Address: 241 Ralph McGill Blvd SE, Atlanta, GA 30308
Collected By: Jackson Bankston, Zach Levy, John Myers, Dylan Quintal
Send Results To: jabraham@southernco.com EDD@stantec.com cassidy.sutherland@stantec.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Ag (App. I) (6020B)	NI Metals App. III (B, Ca) (6020B)	Alkalinity (300.0 R2.1) see Additional Remarks	TDS (SM Method 2540C)	Anions (Cl, Fl, Sulfate) (300.0 Rev. 2.1 1993)	NI Metals App. IV (6020B) see Additional Remarks	NI RAD 226-228 Cmbd	NI Mercury (7470B)	NI Metals Al, K, Mg, Na, Fe, Mn (6020B)	NI Fe2+/ Mn2+ (6020B) Field Filtered	SA Nitrate/ Nitrite (EPA Method 353.2)	<-- Preservative Type (6)
ARK-ARGWA-14	08-22-24	0710	N	Y	WG			1										X		

Comments (task_code: ARK-CCR-ASSMT-2024S2)

Chain of Custody Signatures

	Relinquished By (Signed)	Print Name	Date	Received by (signed)	Print Name	Date
1		Stantec	8/22/24			8/22/24
2						8/22/24 0825
3						

TAT Requested: Normal: X Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [X] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [X] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: Metals App. IV: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl
Alkalinity: bicarbonate as CaCO3, carbonate as CaCO3, total as CaCO3

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** ____ °C

> ***For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)***

Sample Collection Time Zone : [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns.
(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	SDG/AR/COC/Work Order: 682326
Received By: QG	Date Received: 8/22/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier (Other) n/a

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM / mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: Wet Ice Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP:_____
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR1-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?		✓		Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

Cooler 1- 0°c
2- 0°c
3- 1°c
4- 0°c
5- 0°c
6- 0°c
7- 1°c
8- 0°c

PM (or PMA) review: Initials FTB Date 8/23/24 Page 1 of 1

List of current GEL Certifications as of 06 September 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-41
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

September 06, 2024

Joju Abraham
Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308

Re: Arkwright CCR Groundwater Compliance
Work Order: 682329

Dear Joju Abraham:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on August 22, 2024. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
682329001	ARK-ARGWA-5	Ground Water	08/21/24 09:40	08/22/24 15:00
682329002	ARK-ARGWA-13	Ground Water	08/21/24 11:05	08/22/24 15:00
682329003	ARK-ARGWC-7	Ground Water	08/21/24 16:00	08/22/24 15:00
682329004	ARK-ARGWC-8	Ground Water	08/21/24 15:30	08/22/24 15:00
682329005	ARK-ARGWC-9	Ground Water	08/21/24 13:25	08/22/24 15:00
682329006	ARK-ARGWC-10	Ground Water	08/21/24 14:25	08/22/24 15:00
682329007	ARK-ARGWC-15	Ground Water	08/21/24 11:15	08/22/24 15:00
682329008	ARK-ARGWC-16	Ground Water	08/21/24 11:25	08/22/24 15:00
682329009	ARK-ARGWC-17	Ground Water	08/21/24 13:45	08/22/24 15:00
682329010	ARK-ARGWC-18	Ground Water	08/21/24 13:45	08/22/24 15:00
682329011	ARK-ARAMW-4	Ground Water	08/21/24 15:55	08/22/24 15:00
682329012	ARK-AP3-EB-04	Water	08/21/24 14:30	08/22/24 15:00
682329013	ARK-AP3-FD-04	Water	08/21/24 12:00	08/22/24 15:00
682329014	ARK-AP3-FB-04	Water	08/21/24 15:15	08/22/24 15:00
682329015	ARK-AP3-EB-05	Water	08/21/24 14:55	08/22/24 15:00
682329016	ARK-AP3-FD-05	Water	08/21/24 12:00	08/22/24 15:00

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Prep Methods and Prep Dates

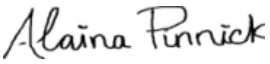
Method	Run Date ID
SW846 3005A	27-AUG-2024
SW846 7470A Prep	23-AUG-2024

Analysis Methods and Analysis Dates

Method	Run Date ID
EPA 300.0	23-AUG-2024
EPA 300.0	24-AUG-2024
EPA 353.2 Low Level	23-AUG-2024
SM 2320B	22-AUG-2024
SM 2540C	28-AUG-2024
SW846 3005A/6020B	03-SEP-2024
SW846 3005A/6020B	04-SEP-2024
SW846 7470A	26-AUG-2024

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4443.

Sincerely,



Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0005
Chain of Custody: 8
Enclosures

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 682329 GEL Work Order: 682329

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL

J Value is estimated

N/A RPD or %Recovery limits do not apply.

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Alaina Pinnick.

Reviewed by Alaina Pinnick

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 6, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Arkwright CCR Groundwater Compliance

Client Sample ID:	ARK-ARGWA-5	Project:	GPCC00100
Sample ID:	682329001	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	21-AUG-24 09:40		
Receive Date:	22-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		17.0	0.268	0.800	mg/L		4	TXT1	08/24/24	0643	2661842	1
Fluoride	J	0.0365	0.0330	0.100	mg/L		1	TXT1	08/23/24	1810	2661842	2
Sulfate		0.536	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/26/24	1332	2661692	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron	J	0.00762	0.00520	0.0150	mg/L	1.00	1	BAJ	09/04/24	1248	2661579	4
Aluminum	U	ND	0.0193	0.0500	mg/L	1.00	1	BAJ	09/03/24	2004	2661579	5
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1					
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0756	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		16.4	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		6.45	0.0100	0.0300	mg/L	1.00	1					
Manganese	J	0.00296	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		1.58	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Silver	U	ND	0.000300	0.00100	mg/L	1.00	1					
Sodium		12.7	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite		0.426	0.0140	0.0400	mg/L		2	JLD1	08/23/24	1202	2661629	6
Solids Analysis												
SM2540C Dissolved Solids "As Received"												

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Certificate of Analysis

Report Date: September 6, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Arkwright CCR Groundwater Compliance

Client Sample ID: ARK-ARGWA-5 Project: GPCC00100
Sample ID: 682329001 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		127	2.38	10.0	mg/L			KLP1	08/28/24	1532	2663924	7
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		65.6	0.725	2.00	mg/L			JW2	08/22/24	1651	2661505	8
Bicarbonate alkalinity (CaCO3)		65.6	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	08/27/24	1510	2661578
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/23/24	1030	2661691

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	EPA 353.2 Low Level	
7	SM 2540C	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 6, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Arkwright CCR Groundwater Compliance

Client Sample ID: ARK-ARGWA-13
Sample ID: 682329002
Matrix: WG
Collect Date: 21-AUG-24 11:05
Receive Date: 22-AUG-24
Collector: Client

Project: GPCC00100
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		6.76	0.0670	0.200	mg/L		1	TXT1	08/23/24	1842	2661842	1
Fluoride	J	0.0387	0.0330	0.100	mg/L		1					
Sulfate		741	13.3	40.0	mg/L		100	TXT1	08/24/24	0715	2661842	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/26/24	1334	2661692	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Aluminum	J	0.0483	0.0193	0.0500	mg/L	1.00	1	BAJ	09/03/24	2043	2661579	4
Antimony	J	0.00102	0.00100	0.00300	mg/L	1.00	1					
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0218	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0576	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00639	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.00805	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		3.98	0.0800	0.300	mg/L	1.00	1					
Selenium		0.0209	0.00150	0.00500	mg/L	1.00	1					
Silver	U	ND	0.000300	0.00100	mg/L	1.00	1					
Sodium		17.5	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Calcium		165	0.400	1.00	mg/L	1.00	5	BAJ	09/03/24	2046	2661579	5
Magnesium		114	0.0500	0.150	mg/L	1.00	5					
Boron		1.11	0.0520	0.150	mg/L	1.00	10	BAJ	09/04/24	1329	2661579	6
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite		1.17	0.0140	0.0400	mg/L		2	JLD1	08/23/24	1203	2661629	7
Solids Analysis												
SM2540C Dissolved Solids "As Received"												

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Certificate of Analysis

Report Date: September 6, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Arkwright CCR Groundwater Compliance

Client Sample ID: ARK-ARGWA-13 Project: GPCC00100
Sample ID: 682329002 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1250	2.38	10.0	mg/L			KLP1	08/28/24	1532	2663924	8
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		68.2	0.725	2.00	mg/L			JW2	08/22/24	1653	2661505	9
Bicarbonate alkalinity (CaCO3)		68.2	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	08/27/24	1510	2661578
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/23/24	1030	2661691

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	EPA 353.2 Low Level	
8	SM 2540C	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 6, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Arkwright CCR Groundwater Compliance

Client Sample ID:	ARK-ARGWC-7	Project:	GPCC00100
Sample ID:	682329003	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	21-AUG-24 16:00		
Receive Date:	22-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		32.1	0.532	1.60	mg/L		4	TXT1	08/24/24	0746	2661842	1
Chloride		4.45	0.0670	0.200	mg/L		1	TXT1	08/23/24	1913	2661842	2
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/26/24	1335	2661692	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Aluminum	U	ND	0.0193	0.0500	mg/L	1.00	1	BAJ	09/03/24	2049	2661579	4
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1					
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0473	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		8.99	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0347	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		7.73	0.0100	0.0300	mg/L	1.00	1					
Manganese	J	0.00109	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		0.918	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Silver	U	ND	0.000300	0.00100	mg/L	1.00	1					
Sodium		5.67	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.0724	0.00520	0.0150	mg/L	1.00	1	BAJ	09/04/24	1253	2661579	5
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite		0.254	0.00700	0.0200	mg/L		1	JLD1	08/23/24	1205	2661629	6
Solids Analysis												
SM2540C Dissolved Solids "As Received"												

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 6, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Arkwright CCR Groundwater Compliance

Client Sample ID: ARK-ARGWC-7 Project: GPCC00100
Sample ID: 682329003 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		119	2.38	10.0	mg/L			KLP1	08/28/24	1532	2663924	7
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		25.6	0.725	2.00	mg/L			JW2	08/22/24	1654	2661505	8
Bicarbonate alkalinity (CaCO3)		25.6	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/23/24	1030	2661691
SW846 3005A	ICP-MS 3005A PREP	BB2	08/27/24	1510	2661578

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	EPA 353.2 Low Level	
7	SM 2540C	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 6, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Arkwright CCR Groundwater Compliance

Client Sample ID:	ARK-ARGWC-8	Project:	GPCC00100
Sample ID:	682329004	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	21-AUG-24 15:30		
Receive Date:	22-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		48.7	0.665	2.00	mg/L		5	TXT1	08/24/24	1309	2661842	1
Chloride		5.59	0.0670	0.200	mg/L		1	TXT1	08/23/24	2047	2661842	2
Fluoride		0.139	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/26/24	1337	2661692	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Aluminum	J	0.0332	0.0193	0.0500	mg/L	1.00	1	BAJ	09/03/24	2056	2661579	4
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1					
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0585	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		43.4	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0372	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00349	0.00300	0.0100	mg/L	1.00	1					
Magnesium		19.7	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.349	0.00100	0.00500	mg/L	1.00	1					
Molybdenum		0.0377	0.000200	0.00100	mg/L	1.00	1					
Potassium		1.73	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Silver	U	ND	0.000300	0.00100	mg/L	1.00	1					
Sodium		13.4	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.877	0.0520	0.150	mg/L	1.00	10	BAJ	09/04/24	1330	2661579	5
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite	U	ND	0.00700	0.0200	mg/L		1	JLD1	08/23/24	1215	2661629	6
Solids Analysis												
SM2540C Dissolved Solids "As Received"												

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Report Date: September 6, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Arkwright CCR Groundwater Compliance

Client Sample ID: ARK-ARGWC-8 Project: GPCC00100
Sample ID: 682329004 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		266	2.38	10.0	mg/L			KLP1	08/28/24	1532	2663924	7
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		157	0.725	2.00	mg/L			JW2	08/22/24	1655	2661505	8
Bicarbonate alkalinity (CaCO3)		157	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/23/24	1030	2661691
SW846 3005A	ICP-MS 3005A PREP	BB2	08/27/24	1510	2661578

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	EPA 353.2 Low Level	
7	SM 2540C	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 6, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Arkwright CCR Groundwater Compliance

Client Sample ID:	ARK-ARGWC-9	Project:	GPCC00100
Sample ID:	682329005	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	21-AUG-24 13:25		
Receive Date:	22-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		4.93	0.0670	0.200	mg/L		1	TXT1	08/23/24	2119	2661842	1
Fluoride	J	0.0405	0.0330	0.100	mg/L		1					
Sulfate		1.42	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/26/24	1339	2661692	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron	J	0.00660	0.00520	0.0150	mg/L	1.00	1	BAJ	09/04/24	1309	2661579	3
Aluminum		0.331	0.0193	0.0500	mg/L	1.00	1	BAJ	09/03/24	2101	2661579	4
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1					
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0363	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		4.65	0.0800	0.200	mg/L	1.00	1					
Chromium	J	0.00727	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron		0.226	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		2.10	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.00683	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		1.71	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Silver	U	ND	0.000300	0.00100	mg/L	1.00	1					
Sodium		6.57	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite		0.694	0.00700	0.0200	mg/L		1	JLD1	08/23/24	1217	2661629	5
Solids Analysis												
SM2540C Dissolved Solids "As Received"												

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Report Date: September 6, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Arkwright CCR Groundwater Compliance

Client Sample ID: ARK-ARGWC-9 Project: GPCC00100
Sample ID: 682329005 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		74.0	2.38	10.0	mg/L			KLP1	08/28/24	1532	2663924	6
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		25.1	0.725	2.00	mg/L			JW2	08/22/24	1657	2661505	7
Bicarbonate alkalinity (CaCO3)		25.1	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/23/24	1030	2661691
SW846 3005A	ICP-MS 3005A PREP	BB2	08/27/24	1510	2661578

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	EPA 353.2 Low Level	
6	SM 2540C	
7	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Report Date: September 6, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Arkwright CCR Groundwater Compliance

Client Sample ID: ARK-ARGWC-10
Sample ID: 682329006
Matrix: WG
Collect Date: 21-AUG-24 14:25
Receive Date: 22-AUG-24
Collector: Client

Project: GPCC00100
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		3.99	0.0670	0.200	mg/L		1	TXT1	08/23/24	2150	2661842	1
Fluoride	J	0.0630	0.0330	0.100	mg/L		1					
Sulfate		0.492	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/26/24	1340	2661692	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron	J	0.00605	0.00520	0.0150	mg/L	1.00	1	BAJ	09/04/24	1310	2661579	3
Aluminum		0.275	0.0193	0.0500	mg/L	1.00	1	BAJ	09/03/24	2112	2661579	4
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1					
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0328	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		7.87	0.0800	0.200	mg/L	1.00	1					
Chromium	J	0.00501	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron		0.166	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		4.07	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.00512	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		0.742	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Silver	U	ND	0.000300	0.00100	mg/L	1.00	1					
Sodium		9.85	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite		0.160	0.00700	0.0200	mg/L		1	JLD1	08/23/24	1218	2661629	5
Solids Analysis												
SM2540C Dissolved Solids "As Received"												

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Certificate of Analysis

Report Date: September 6, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Arkwright CCR Groundwater Compliance

Client Sample ID: ARK-ARGWC-10 Project: GPCC00100
Sample ID: 682329006 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		90.0	2.38	10.0	mg/L			KLP1	08/28/24	1532	2663924	6
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		49.8	0.725	2.00	mg/L			JW2	08/22/24	1658	2661505	7
Bicarbonate alkalinity (CaCO3)		49.8	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/23/24	1030	2661691
SW846 3005A	ICP-MS 3005A PREP	BB2	08/27/24	1510	2661578

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	EPA 353.2 Low Level	
6	SM 2540C	
7	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 6, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Arkwright CCR Groundwater Compliance

Client Sample ID:	ARK-ARGWC-15	Project:	GPCC00100
Sample ID:	682329007	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	21-AUG-24 11:15		
Receive Date:	22-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		2.55	0.0670	0.200	mg/L		1	TXT1	08/23/24	2221	2661842	1
Fluoride	J	0.0719	0.0330	0.100	mg/L		1					
Sulfate		4.47	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/26/24	1342	2661692	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Aluminum		2.11	0.0193	0.0500	mg/L	1.00	1	BAJ	09/03/24	2118	2661579	3
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1					
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0390	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		26.1	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00230	0.000300	0.00100	mg/L	1.00	1					
Iron		2.76	0.0330	0.100	mg/L	1.00	1					
Lead	J	0.000948	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		9.14	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.0260	0.00100	0.00500	mg/L	1.00	1					
Molybdenum		0.00192	0.000200	0.00100	mg/L	1.00	1					
Potassium		7.57	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Silver	U	ND	0.000300	0.00100	mg/L	1.00	1					
Sodium		8.39	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron	J	0.0103	0.00520	0.0150	mg/L	1.00	1	BAJ	09/04/24	1318	2661579	4
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite		0.536	0.0140	0.0400	mg/L		2	JLD1	08/23/24	1220	2661629	5
Solids Analysis												
SM2540C Dissolved Solids "As Received"												

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Report Date: September 6, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Arkwright CCR Groundwater Compliance

Client Sample ID: ARK-ARGWC-15 Project: GPCC00100
Sample ID: 682329007 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		168	2.38	10.0	mg/L			KLP1	08/28/24	1532	2663924	6
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		122	0.725	2.00	mg/L			JW2	08/22/24	1659	2661505	7
Bicarbonate alkalinity (CaCO3)		122	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	08/27/24	1510	2661578
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/23/24	1030	2661691

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	EPA 353.2 Low Level	
6	SM 2540C	
7	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 6, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Arkwright CCR Groundwater Compliance

Client Sample ID: ARK-ARGWC-16
Sample ID: 682329008
Matrix: WG
Collect Date: 21-AUG-24 11:25
Receive Date: 22-AUG-24
Collector: Client

Project: GPCC00100
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		5.71	0.0670	0.200	mg/L		1	TXT1	08/23/24	2253	2661842	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate		350	6.65	20.0	mg/L		50	TXT1	08/24/24	1340	2661842	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/26/24	1344	2661692	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Calcium		69.9	0.400	1.00	mg/L	1.00	5	BAJ	09/03/24	2126	2661579	4
Boron		0.449	0.0260	0.0750	mg/L	1.00	5	BAJ	09/04/24	1319	2661579	5
Aluminum	J	0.0246	0.0193	0.0500	mg/L	1.00	1	BAJ	09/03/24	2124	2661579	6
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1					
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0349	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		48.3	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.315	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		4.24	0.0800	0.300	mg/L	1.00	1					
Selenium	J	0.00497	0.00150	0.00500	mg/L	1.00	1					
Silver	U	ND	0.000300	0.00100	mg/L	1.00	1					
Sodium		17.2	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite		0.549	0.00700	0.0200	mg/L		1	JLD1	08/23/24	1221	2661629	7
Solids Analysis												
SM2540C Dissolved Solids "As Received"												

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Certificate of Analysis

Report Date: September 6, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Arkwright CCR Groundwater Compliance

Client Sample ID: ARK-ARGWC-16 Project: GPCC00100
Sample ID: 682329008 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		601	2.38	10.0	mg/L			KLP1	08/28/24	1532	2663924	8
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		10.0	0.725	2.00	mg/L			JW2	08/22/24	1700	2661505	9
Bicarbonate alkalinity (CaCO3)		10.0	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	08/27/24	1510	2661578
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/23/24	1030	2661691

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	EPA 353.2 Low Level	
8	SM 2540C	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 6, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Arkwright CCR Groundwater Compliance

Client Sample ID: ARK-ARGWC-17
Sample ID: 682329009
Matrix: WG
Collect Date: 21-AUG-24 13:45
Receive Date: 22-AUG-24
Collector: Client

Project: GPCC00100
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		2.76	0.0670	0.200	mg/L		1	TXT1	08/24/24	0027	2661842	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate		143	1.33	4.00	mg/L		10	TXT1	08/24/24	1514	2661842	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/26/24	1349	2661692	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		0.0575	0.00520	0.0150	mg/L	1.00	1	BAJ	09/04/24	1320	2661579	4
Manganese		1.33	0.00500	0.0250	mg/L	1.00	5	BAJ	09/03/24	2132	2661579	5
Aluminum	J	0.0392	0.0193	0.0500	mg/L	1.00	1	BAJ	09/03/24	2129	2661579	6
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1					
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0480	0.000670	0.00400	mg/L	1.00	1					
Beryllium	J	0.000344	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		24.2	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.0256	0.000300	0.00100	mg/L	1.00	1					
Iron		0.169	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		21.2	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		1.17	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Silver	U	ND	0.000300	0.00100	mg/L	1.00	1					
Sodium		8.09	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite		0.440	0.00700	0.0200	mg/L		1	JLD1	08/23/24	1226	2661629	7
Solids Analysis												
SM2540C Dissolved Solids "As Received"												

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Report Date: September 6, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Arkwright CCR Groundwater Compliance

Client Sample ID: ARK-ARGWC-17 Project: GPCC00100
Sample ID: 682329009 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		235	2.38	10.0	mg/L			KLP1	08/28/24	1532	2663924	8
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		7.90	0.725	2.00	mg/L			JW2	08/22/24	1702	2661505	9
Bicarbonate alkalinity (CaCO3)		7.90	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/23/24	1030	2661691
SW846 3005A	ICP-MS 3005A PREP	BB2	08/27/24	1510	2661578

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	EPA 353.2 Low Level	
8	SM 2540C	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 6, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Arkwright CCR Groundwater Compliance

Client Sample ID:	ARK-ARGWC-18	Project:	GPCC00100
Sample ID:	682329010	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	21-AUG-24 13:45		
Receive Date:	22-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		199	2.66	8.00	mg/L		20	TXT1	08/24/24	1546	2661842	1
Chloride		6.72	0.0670	0.200	mg/L		1	TXT1	08/24/24	0058	2661842	2
Fluoride	J	0.0683	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/26/24	1350	2661692	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Aluminum		0.451	0.0193	0.0500	mg/L	1.00	1	BAJ	09/03/24	2140	2661579	4
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1					
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0355	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		48.9	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00108	0.000300	0.00100	mg/L	1.00	1					
Iron		1.63	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00449	0.00300	0.0100	mg/L	1.00	1					
Magnesium		40.5	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.902	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		2.29	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Silver	U	ND	0.000300	0.00100	mg/L	1.00	1					
Sodium		11.9	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		2.47	0.130	0.375	mg/L	1.00	25	BAJ	09/04/24	1331	2661579	5
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite	U	ND	0.00700	0.0200	mg/L		1	JLD1	08/23/24	1227	2661629	6
Solids Analysis												
SM2540C Dissolved Solids "As Received"												

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Certificate of Analysis

Report Date: September 6, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Arkwright CCR Groundwater Compliance

Client Sample ID: ARK-ARGWC-18 Project: GPCC00100
Sample ID: 682329010 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		460	2.38	10.0	mg/L			KLP1	08/28/24	1532	2663924	7
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		120	0.725	2.00	mg/L			JW2	08/22/24	1703	2661505	8
Bicarbonate alkalinity (CaCO3)		120	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	08/27/24	1510	2661578
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/23/24	1030	2661691

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	EPA 353.2 Low Level	
7	SM 2540C	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 6, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Arkwright CCR Groundwater Compliance

Client Sample ID:	ARK-ARAMW-4	Project:	GPCC00100
Sample ID:	682329011	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	21-AUG-24 15:55		
Receive Date:	22-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		1310	26.6	80.0	mg/L		200	TXT1	08/24/24	1617	2661842	1
Chloride		5.28	0.0670	0.200	mg/L		1	TXT1	08/24/24	0130	2661842	2
Fluoride	J	0.0693	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/26/24	1352	2661692	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		0.693	0.0260	0.0750	mg/L	1.00	5	BAJ	09/04/24	1321	2661579	4
Aluminum	U	ND	0.0193	0.0500	mg/L	1.00	1	BAJ	09/03/24	2146	2661579	5
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1					
Arsenic	J	0.00219	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0298	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	J	0.000451	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00199	0.000300	0.00100	mg/L	1.00	1					
Iron		1.06	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0165	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.522	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000218	0.000200	0.00100	mg/L	1.00	1					
Potassium		11.4	0.0800	0.300	mg/L	1.00	1					
Selenium	J	0.00323	0.00150	0.00500	mg/L	1.00	1					
Silver	U	ND	0.000300	0.00100	mg/L	1.00	1					
Sodium		28.7	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Calcium		315	0.800	2.00	mg/L	1.00	10	BAJ	09/04/24	1332	2661579	6
Magnesium		146	0.0500	0.150	mg/L	1.00	5	BAJ	09/03/24	2149	2661579	7
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite		0.0320	0.00700	0.0200	mg/L		1	JLD1	08/23/24	1229	2661629	8
Solids Analysis												
SM2540C Dissolved Solids "As Received"												

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Certificate of Analysis

Report Date: September 6, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Arkwright CCR Groundwater Compliance

Client Sample ID: ARK-ARAMW-4 Project: GPCC00100
Sample ID: 682329011 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1860	23.8	100	mg/L			KLP1	08/28/24	1532	2663924	9
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		50.6	0.725	2.00	mg/L			JW2	08/22/24	1704	2661505	10
Bicarbonate alkalinity (CaCO3)		50.6	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	08/27/24	1510	2661578
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/23/24	1030	2661691

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	EPA 353.2 Low Level	
9	SM 2540C	
10	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 6, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Arkwright CCR Groundwater Compliance

Client Sample ID:	ARK-AP3-EB-04	Project:	GPCC00100
Sample ID:	682329012	Client ID:	GPCC001
Matrix:	WQ		
Collect Date:	21-AUG-24 14:30		
Receive Date:	22-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	TXT1	08/24/24	0304	2661842	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/26/24	1354	2661692	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/03/24	2152	2661579	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1	BAJ	09/04/24	1254	2661579	4
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite	U	ND	0.00700	0.0200	mg/L		1	JLD1	08/23/24	1239	2661629	5
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			KLP1	08/28/24	1532	2663924	6

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	08/27/24	1510	2661578
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/23/24	1030	2661691

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Certificate of Analysis

Report Date: September 6, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Arkwright CCR Groundwater Compliance

Client Sample ID:	ARK-AP3-EB-04	Project:	GPCC00100
Sample ID:	682329012	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	EPA 353.2 Low Level	
6	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 6, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Arkwright CCR Groundwater Compliance

Client Sample ID:	ARK-AP3-FD-04	Project:	GPCC00100
Sample ID:	682329013	Client ID:	GPCC001
Matrix:	WQ		
Collect Date:	21-AUG-24 12:00		
Receive Date:	22-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		5.76	0.0670	0.200	mg/L		1	TXT1	08/24/24	0335	2661842	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate		366	6.65	20.0	mg/L		50	TXT1	08/24/24	1648	2661842	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/26/24	1355	2661692	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Calcium		71.5	0.400	1.00	mg/L	1.00	5	BAJ	09/03/24	2200	2661579	4
Boron		0.467	0.0260	0.0750	mg/L	1.00	5	BAJ	09/04/24	1322	2661579	5
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/03/24	2157	2661579	6
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0350	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	J	0.00456	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite		0.547	0.00700	0.0200	mg/L		1	JLD1	08/23/24	1241	2661629	7
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		600	2.38	10.0	mg/L			KLP1	08/28/24	1532	2663924	8

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	08/27/24	1510	2661578
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/23/24	1030	2661691

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Certificate of Analysis

Report Date: September 6, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Arkwright CCR Groundwater Compliance

Client Sample ID:	ARK-AP3-FD-04	Project:	GPCC00100
Sample ID:	682329013	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	EPA 353.2 Low Level	
8	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 6, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Arkwright CCR Groundwater Compliance

Client Sample ID:	ARK-AP3-FB-04	Project:	GPCC00100
Sample ID:	682329014	Client ID:	GPCC001
Matrix:	WQ		
Collect Date:	21-AUG-24 15:15		
Receive Date:	22-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	TXT1	08/24/24	0407	2661842	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/26/24	1357	2661692	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/03/24	2209	2661579	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1	BAJ	09/04/24	1305	2661579	4
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite	U	ND	0.00700	0.0200	mg/L		1	JLD1	08/23/24	1242	2661629	5
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			KLP1	08/28/24	1517	2663923	6

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/23/24	1030	2661691
SW846 3005A	ICP-MS 3005A PREP	BB2	08/27/24	1510	2661578

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Certificate of Analysis

Report Date: September 6, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Arkwright CCR Groundwater Compliance

Client Sample ID:	ARK-AP3-FB-04	Project:	GPCC00100
Sample ID:	682329014	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	EPA 353.2 Low Level	
6	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 6, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Arkwright CCR Groundwater Compliance

Client Sample ID:	ARK-AP3-EB-05	Project:	GPCC00100
Sample ID:	682329015	Client ID:	GPCC001
Matrix:	WQ		
Collect Date:	21-AUG-24 14:55		
Receive Date:	22-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	TXT1	08/24/24	0438	2661842	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/26/24	1358	2661692	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1	BAJ	09/04/24	1306	2661579	3
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/03/24	2214	2661579	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite	U	ND	0.00700	0.0200	mg/L		1	JLD1	08/23/24	1244	2661629	5
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			KLP1	08/28/24	1517	2663923	6

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	08/27/24	1510	2661578
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/23/24	1030	2661691

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Certificate of Analysis

Report Date: September 6, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Arkwright CCR Groundwater Compliance

Client Sample ID:	ARK-AP3-EB-05	Project:	GPCC00100
Sample ID:	682329015	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	EPA 353.2 Low Level	
6	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 6, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Arkwright CCR Groundwater Compliance

Client Sample ID:	ARK-AP3-FD-05	Project:	GPCC00100
Sample ID:	682329016	Client ID:	GPCC001
Matrix:	WQ		
Collect Date:	21-AUG-24 12:00		
Receive Date:	22-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		4.98	0.0670	0.200	mg/L		1	TXT1	08/24/24	0509	2661842	1
Fluoride	J	0.0390	0.0330	0.100	mg/L		1					
Sulfate		1.43	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/26/24	1400	2661692	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/03/24	2220	2661579	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0322	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		4.36	0.0800	0.200	mg/L	1.00	1					
Chromium	J	0.00673	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron	J	0.00696	0.00520	0.0150	mg/L	1.00	1	BAJ	09/04/24	1307	2661579	4
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite		0.696	0.0140	0.0400	mg/L		2	JLD1	08/23/24	1245	2661629	5
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		76.0	2.38	10.0	mg/L			KLP1	08/28/24	1517	2663923	6

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/23/24	1030	2661691
SW846 3005A	ICP-MS 3005A PREP	BB2	08/27/24	1510	2661578

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Certificate of Analysis

Report Date: September 6, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Arkwright CCR Groundwater Compliance

Client Sample ID:	ARK-AP3-FD-05	Project:	GPCC00100
Sample ID:	682329016	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	EPA 353.2 Low Level	
6	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 6, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Arkwright CCR Groundwater Compliance

Client Sample ID:	ARK-AP3-FB-05	Project:	GPCC00100
Sample ID:	682329017	Client ID:	GPCC001
Matrix:	WQ		
Collect Date:	21-AUG-24 11:20		
Receive Date:	22-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	TXT1	08/24/24	0541	2661842	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/26/24	1402	2661692	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/03/24	2225	2661579	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1	BAJ	09/04/24	1308	2661579	4
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite	U	ND	0.00700	0.0200	mg/L		1	JLD1	08/23/24	1247	2661629	5
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	J	8.00	2.38	10.0	mg/L			KLP1	08/28/24	1517	2663923	6

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	08/27/24	1510	2661578
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/23/24	1030	2661691

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Certificate of Analysis

Report Date: September 6, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Arkwright CCR Groundwater Compliance

Client Sample ID:	ARK-AP3-FB-05	Project:	GPCC00100
Sample ID:	682329017	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	EPA 353.2 Low Level	
6	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

QC Summary

Report Date: September 6, 2024

Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia

Contact: **Joju Abraham**

Workorder: **682329**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography										
Batch 2661842										
QC1205832634 682138001 DUP										
Chloride		2.66		2.69	mg/L	1.03		(0%-20%)	TXT1	08/23/24 16:05
Fluoride	J	0.0574	J	0.0627	mg/L	8.83	^	(+/-0.100)		
Sulfate		0.406		0.407	mg/L	0.197	^	(+/-0.400)		
QC1205832636 682329008 DUP										
Chloride		5.71		5.75	mg/L	0.591		(0%-20%)		08/23/24 23:24
Fluoride	U	ND	U	ND	mg/L	N/A				
Sulfate		350		361	mg/L	3.12		(0%-20%)		08/24/24 14:11
QC1205832633 LCS										
Chloride	5.00			4.68	mg/L		93.5	(90%-110%)		08/23/24 15:02
Fluoride	2.50			2.40	mg/L		95.9	(90%-110%)		
Sulfate	10.0			9.42	mg/L		94.2	(90%-110%)		
QC1205832632 MB										
Chloride			U	ND	mg/L					08/23/24 14:31
Fluoride			U	ND	mg/L					
Sulfate			U	ND	mg/L					

QC Summary

Workorder: **682329**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography											
Batch 2661842											
QC1205832635 682138001 PS											
Chloride	5.00		2.66		7.58	mg/L		98.5	(90%-110%)	TXT1	08/23/24 16:36
Fluoride	2.50	J	0.0574		2.60	mg/L		102	(90%-110%)		
Sulfate	10.0		0.406		9.50	mg/L		90.9	(90%-110%)		
QC1205832637 682329008 PS											
Chloride	5.00		5.71		11.1	mg/L		108	(90%-110%)		08/23/24 23:55
Fluoride	2.50	U	ND		2.60	mg/L		103	(90%-110%)		
Sulfate	10.0		6.99		16.7	mg/L		97.3	(90%-110%)		08/24/24 14:43
Metals Analysis - ICPMS											
Batch 2661579											
QC1205831981 LCS											
Aluminum	2.00				1.95	mg/L		97.5	(80%-120%)	BAJ	09/03/24 19:55
Antimony	0.0500				0.0500	mg/L		100	(80%-120%)		
Arsenic	0.0500				0.0506	mg/L		101	(80%-120%)		
Barium	0.0500				0.0495	mg/L		98.9	(80%-120%)		
Beryllium	0.0500				0.0561	mg/L		112	(80%-120%)		
Boron	0.100				0.111	mg/L		111	(80%-120%)		09/04/24 12:47
Cadmium	0.0500				0.0503	mg/L		101	(80%-120%)		09/03/24 19:55

QC Summary

Workorder: **682329**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2661579										
Calcium	2.00			2.08	mg/L		104	(80%-120%)	BAJ	09/03/24 19:55
Chromium	0.0500			0.0496	mg/L		99.1	(80%-120%)		
Cobalt	0.0500			0.0499	mg/L		99.8	(80%-120%)		
Iron	2.00			1.99	mg/L		99.7	(80%-120%)		
Lead	0.0500			0.0502	mg/L		100	(80%-120%)		
Lithium	0.0500			0.0543	mg/L		109	(80%-120%)		
Magnesium	2.00			2.07	mg/L		104	(80%-120%)		
Manganese	0.0500			0.0496	mg/L		99.1	(80%-120%)		
Molybdenum	0.0500			0.0500	mg/L		100	(80%-120%)		
Potassium	2.00			2.00	mg/L		100	(80%-120%)		
Selenium	0.0500			0.0513	mg/L		103	(80%-120%)		
Silver	0.0500			0.0511	mg/L		102	(80%-120%)		
Sodium	2.00			2.11	mg/L		106	(80%-120%)		
Thallium	0.0500			0.0478	mg/L		95.6	(80%-120%)		

QC Summary

Workorder: **682329**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch 2661579											
QC1205831980 MB											
Aluminum			U	ND	mg/L				BAJ	09/03/24	19:52
Antimony			U	ND	mg/L						
Arsenic			U	ND	mg/L						
Barium			U	ND	mg/L						
Beryllium			U	ND	mg/L						
Boron			U	ND	mg/L					09/04/24	12:46
Cadmium			U	ND	mg/L					09/03/24	19:52
Calcium			U	ND	mg/L						
Chromium			U	ND	mg/L						
Cobalt			U	ND	mg/L						
Iron			U	ND	mg/L						
Lead			U	ND	mg/L						
Lithium			U	ND	mg/L						
Magnesium			U	ND	mg/L						

QC Summary

Workorder: **682329**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2661579											
Manganese				U	ND	mg/L				BAJ	09/03/24 19:52
Molybdenum				U	ND	mg/L					
Potassium				U	ND	mg/L					
Selenium				U	ND	mg/L					
Silver				U	ND	mg/L					
Sodium				U	ND	mg/L					
Thallium				U	ND	mg/L					
QC1205831982 682329001 MS											
Aluminum	2.00	U	ND		2.01	mg/L		99.9	(75%-125%)		09/03/24 20:07
Antimony	0.0500	U	ND		0.0507	mg/L		101	(75%-125%)		
Arsenic	0.0500	U	ND		0.0517	mg/L		103	(75%-125%)		
Barium	0.0500		0.0756		0.125	mg/L		98.6	(75%-125%)		
Beryllium	0.0500	U	ND		0.0564	mg/L		113	(75%-125%)		
Boron	0.100	J	0.00762		0.123	mg/L		116	(75%-125%)		09/04/24 12:49
Cadmium	0.0500	U	ND		0.0515	mg/L		103	(75%-125%)		09/03/24 20:07

QC Summary

Workorder: **682329**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS												
Batch 2661579												
Calcium	2.00		16.4		18.5	mg/L		N/A	(75%-125%)	BAJ	09/03/24	20:07
Chromium	0.0500	U	ND		0.0516	mg/L		101	(75%-125%)			
Cobalt	0.0500	U	ND		0.0508	mg/L		102	(75%-125%)			
Iron	2.00	U	ND		2.03	mg/L		100	(75%-125%)			
Lead	0.0500	U	ND		0.0489	mg/L		97.9	(75%-125%)			
Lithium	0.0500	U	ND		0.0561	mg/L		110	(75%-125%)			
Magnesium	2.00		6.45		8.49	mg/L		102	(75%-125%)			
Manganese	0.0500	J	0.00296		0.0543	mg/L		103	(75%-125%)			
Molybdenum	0.0500	U	ND		0.0525	mg/L		105	(75%-125%)			
Potassium	2.00		1.58		3.66	mg/L		104	(75%-125%)			
Selenium	0.0500	U	ND		0.0523	mg/L		104	(75%-125%)			
Silver	0.0500	U	ND		0.0517	mg/L		103	(75%-125%)			
Sodium	2.00		12.7		14.8	mg/L		N/A	(75%-125%)			
Thallium	0.0500	U	ND		0.0472	mg/L		94.3	(75%-125%)			

QC Summary

Workorder: **682329**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS												
Batch 2661579												
QC1205831983 682329001 MSD												
Aluminum	2.00	U	ND		2.00	mg/L	0.406	99.5	(0%-20%)	BAJ	09/03/24	20:09
Antimony	0.0500	U	ND		0.0517	mg/L	1.97	103	(0%-20%)			
Arsenic	0.0500	U	ND		0.0513	mg/L	0.82	102	(0%-20%)			
Barium	0.0500		0.0756		0.127	mg/L	1.95	103	(0%-20%)			
Beryllium	0.0500	U	ND		0.0564	mg/L	0.0372	113	(0%-20%)			
Boron	0.100	J	0.00762		0.127	mg/L	2.81	119	(0%-20%)		09/04/24	12:50
Cadmium	0.0500	U	ND		0.0524	mg/L	1.68	105	(0%-20%)		09/03/24	20:09
Calcium	2.00		16.4		18.6	mg/L	0.666	N/A	(0%-20%)			
Chromium	0.0500	U	ND		0.0518	mg/L	0.42	102	(0%-20%)			
Cobalt	0.0500	U	ND		0.0508	mg/L	0.00985	102	(0%-20%)			
Iron	2.00	U	ND		2.04	mg/L	0.438	101	(0%-20%)			
Lead	0.0500	U	ND		0.0498	mg/L	1.64	99.5	(0%-20%)			
Lithium	0.0500	U	ND		0.0565	mg/L	0.721	111	(0%-20%)			
Magnesium	2.00		6.45		8.50	mg/L	0.0811	102	(0%-20%)			

QC Summary

Workorder: **682329**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS												
Batch 2661579												
Manganese	0.0500	J	0.00296		0.0529	mg/L	2.55	100	(0%-20%)	BAJ	09/03/24	20:09
Molybdenum	0.0500	U	ND		0.0529	mg/L	0.726	106	(0%-20%)			
Potassium	2.00		1.58		3.67	mg/L	0.146	104	(0%-20%)			
Selenium	0.0500	U	ND		0.0520	mg/L	0.56	103	(0%-20%)			
Silver	0.0500	U	ND		0.0517	mg/L	0.0735	103	(0%-20%)			
Sodium	2.00		12.7		14.7	mg/L	0.74	N/A	(0%-20%)			
Thallium	0.0500	U	ND		0.0475	mg/L	0.805	95.1	(0%-20%)			
QC1205831984 682329001 SDILT												
Aluminum		U	ND	U	ND	ug/L	N/A		(0%-20%)		09/03/24	20:15
Antimony		U	ND	U	ND	ug/L	N/A		(0%-20%)			
Arsenic		U	ND	U	ND	ug/L	N/A		(0%-20%)			
Barium			75.6		15.8	ug/L	4.74		(0%-20%)			
Beryllium		U	ND	U	ND	ug/L	N/A		(0%-20%)			
Boron		J	7.62	U	ND	ug/L	N/A		(0%-20%)		09/04/24	12:52
Cadmium		U	ND	U	ND	ug/L	N/A		(0%-20%)		09/03/24	20:15

QC Summary

Workorder: **682329**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2661579										
Calcium		16400		3400	ug/L	3.84		(0%-20%)	BAJ	09/03/24 20:15
Chromium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Cobalt	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Iron	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Lithium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Magnesium		6450		1310	ug/L	1.77		(0%-20%)		
Manganese	J	2.96	U	ND	ug/L	N/A		(0%-20%)		
Molybdenum	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Potassium		1580		318	ug/L	.315		(0%-20%)		
Selenium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Silver	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Sodium		12700		2550	ug/L	.536		(0%-20%)		
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)		

QC Summary

Workorder: **682329**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis-Mercury										
Batch 2661692										
QC1205832230 682203002 DUP										
Mercury	U	ND	U	ND	mg/L	N/A			JP2	08/26/24 13:19
QC1205832229 LCS										
Mercury	0.00200			0.00192	mg/L		96	(80%-120%)		08/26/24 13:16
QC1205832228 MB										
Mercury			U	ND	mg/L					08/26/24 13:14
QC1205832231 682203002 MS										
Mercury	0.00200 U	ND		0.00194	mg/L		97	(75%-125%)		08/26/24 13:21
QC1205832232 682203002 SDILT										
Mercury	U	ND	U	ND	ug/L	N/A		(0%-10%)		08/26/24 13:22
Nutrient Analysis										
Batch 2661629										
QC1205832104 682138001 DUP										
Nitrogen, Nitrate/Nitrite		0.297		0.297	mg/L	0		(0%-20%)	JLD1	08/23/24 11:56
QC1205832106 682329008 DUP										
Nitrogen, Nitrate/Nitrite		0.549		0.550	mg/L	0.182		(0%-20%)		08/23/24 12:23
QC1205832103 LCS										
Nitrogen, Nitrate/Nitrite	1.00			1.01	mg/L		101	(90%-110%)		08/23/24 11:53
QC1205832102 MB										
Nitrogen, Nitrate/Nitrite			U	ND	mg/L					08/23/24 11:51
QC1205832105 682138001 PS										
Nitrogen, Nitrate/Nitrite	1.00	0.297		1.29	mg/L		99.4	(90%-110%)		08/23/24 11:57

QC Summary

Workorder: **682329**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Nutrient Analysis										
Batch 2661629										
QC1205832107 682329008 PS										
Nitrogen, Nitrate/Nitrite	1.00	0.549		1.57	mg/L		102	(90%-110%)	JLD1	08/23/24 12:24
Solids Analysis										
Batch 2663923										
QC1205837529 682145009 DUP										
Total Dissolved Solids		236		230	mg/L	2.58		(0%-5%)	KLP1	08/28/24 15:17
QC1205837528 LCS										
Total Dissolved Solids	300			306	mg/L		102	(95%-105%)		08/28/24 15:17
QC1205837527 MB										
Total Dissolved Solids			U	ND	mg/L					08/28/24 15:17
Batch 2663924										
QC1205837534 682329009 DUP										
Total Dissolved Solids		235		223	mg/L	5.24 *		(0%-5%)	KLP1	08/28/24 15:32
QC1205837532 LCS										
Total Dissolved Solids	300			295	mg/L		98.3	(95%-105%)		08/28/24 15:32
QC1205837531 MB										
Total Dissolved Solids			U	ND	mg/L					08/28/24 15:32
Titration and Ion Analysis										
Batch 2661505										
QC1205831761 LCS										
Alkalinity, Total as CaCO3	50.0			53.8	mg/L		108	(90%-110%)	JW2	08/22/24 16:44
QC1205831762 LCS										
Alkalinity, Total as CaCO3	15.0			15.0	mg/L		100	(90%-110%)		08/22/24 16:46

QC Summary

Workorder: **682329**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Titration and Ion Analysis											
Batch 2661505											
QC1205831763 LCSD											
Alkalinity, Total as CaCO3	50.0			53.4	mg/L	0.746	107	(0%-20%)	JW2	08/22/24	16:45
QC1205831764 LCSD											
Alkalinity, Total as CaCO3	15.0			15.4	mg/L	2.63	103	(0%-20%)		08/22/24	16:47

Notes:

The Qualifiers in this report are defined as follows:

U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
N	Metals--The Matrix spike sample recovery is not within specified control limits
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
Z	Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
d	5-day BOD--The 2:1 depletion requirement was not met for this sample
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
E	%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
E	General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
FB	Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
R	Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.
B	The target analyte was detected in the associated blank.
e	5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes

QC Summary

Workorder: **682329**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

J See case narrative for an explanation

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Technical Case Narrative
Georgia Power Company
SDG #: 682329

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2661579

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2661578

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
682329001	ARK-ARGWA-5
682329002	ARK-ARGWA-13
682329003	ARK-ARGWC-7
682329004	ARK-ARGWC-8
682329005	ARK-ARGWC-9
682329006	ARK-ARGWC-10
682329007	ARK-ARGWC-15
682329008	ARK-ARGWC-16
682329009	ARK-ARGWC-17
682329010	ARK-ARGWC-18
682329011	ARK-ARAMW-4
682329012	ARK-AP3-EB-04
682329013	ARK-AP3-FD-04
682329014	ARK-AP3-FB-04
682329015	ARK-AP3-EB-05
682329016	ARK-AP3-FD-05
682329017	ARK-AP3-FB-05
1205831980	Method Blank (MB)**ICP-MS**
1205831981	Laboratory Control Sample (LCS)
1205831984	682329001(ARK-ARGWA-5L) Serial Dilution (SD)
1205831982	682329001(ARK-ARGWA-5S) Matrix Spike (MS)
1205831983	682329001(ARK-ARGWA-5SD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples 682329002 (ARK-ARGWA-13), 682329004 (ARK-ARGWC-8), 682329008 (ARK-ARGWC-16), 682329009 (ARK-ARGWC-17), 682329010 (ARK-ARGWC-18), 682329011 (ARK-ARAMW-4) and 682329013 (ARK-AP3-FD-04) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument.

Analyte	682329						
	002	**004**	**008**	**009**	**010**	**011**	**013**
Boron	10X	10X	5X	1X	25X	5X	5X
Calcium	5X	1X	5X	1X	1X	10X	5X
Magnesium	5X	1X	1X	1X	1X	5X	
Manganese	1X	1X	1X	5X	1X	1X	

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**
Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 40
Analytical Batch: 2661692

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 40
Preparation Batch: 2661691

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
682329001	ARK-ARGWA-5
682329002	ARK-ARGWA-13
682329003	ARK-ARGWC-7
682329004	ARK-ARGWC-8
682329005	ARK-ARGWC-9
682329006	ARK-ARGWC-10
682329007	ARK-ARGWC-15
682329008	ARK-ARGWC-16
682329009	ARK-ARGWC-17
682329010	ARK-ARGWC-18
682329011	ARK-ARAMW-4
682329012	ARK-AP3-EB-04
682329013	ARK-AP3-FD-04
682329014	ARK-AP3-FB-04
682329015	ARK-AP3-EB-05
682329016	ARK-AP3-FD-05
682329017	ARK-AP3-FB-05
1205832228	Method Blank (MB)**CVAA**
1205832229	Laboratory Control Sample (LCS)
1205832232	682203002(NonSDGL) Serial Dilution (SD)
1205832230	682203002(NonSDGD) Sample Duplicate (DUP)
1205832231	682203002(NonSDGS) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

General Chemistry

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 35
Analytical Batch: 2661842

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
682329001	ARK-ARGWA-5
682329002	ARK-ARGWA-13
682329003	ARK-ARGWC-7
682329004	ARK-ARGWC-8
682329005	ARK-ARGWC-9
682329006	ARK-ARGWC-10
682329007	ARK-ARGWC-15
682329008	ARK-ARGWC-16
682329009	ARK-ARGWC-17
682329010	ARK-ARGWC-18
682329011	ARK-ARAMW-4
682329012	ARK-AP3-EB-04
682329013	ARK-AP3-FD-04
682329014	ARK-AP3-FB-04
682329015	ARK-AP3-EB-05
682329016	ARK-AP3-FD-05
682329017	ARK-AP3-FB-05
1205832632	Method Blank (MB)
1205832633	Laboratory Control Sample (LCS)
1205832634	682138001(ARK-ARGWA-3) Sample Duplicate (DUP)
1205832635	682138001(ARK-ARGWA-3) Post Spike (PS)
1205832636	682329008(ARK-ARGWC-16) Sample Duplicate (DUP)
1205832637	682329008(ARK-ARGWC-16) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Sample Dilutions
The following samples 1205832636 (ARK-ARGWC-16DUP), 1205832637 (ARK-ARGWC-16PS), 682329001

(ARK-ARGWA-5), 682329002 (ARK-ARGWA-13), 682329003 (ARK-ARGWC-7), 682329004 (ARK-ARGWC-8), 682329008 (ARK-ARGWC-16), 682329009 (ARK-ARGWC-17), 682329010 (ARK-ARGWC-18), 682329011 (ARK-ARAMW-4) and 682329013 (ARK-AP3-FD-04) were diluted because target analyte concentrations exceeded the calibration range. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	682329								
	001	**002**	**003**	**004**	**008**	**009**	**010**	**011**	**013**
Chloride	4X	1X	1X	1X	1X	1X	1X	1X	1X
Sulfate	1X	100X	4X	5X	50X	10X	20X	200X	50X

Miscellaneous Information

Manual Integrations
Samples 1205832634 (ARK-ARGWA-3DUP), 1205832636 (ARK-ARGWC-16DUP), 682329001 (ARK-ARGWA-5), 682329002 (ARK-ARGWA-13), 682329004 (ARK-ARGWC-8), 682329005 (ARK-ARGWC-9), 682329006 (ARK-ARGWC-10), 682329007 (ARK-ARGWC-15), 682329008 (ARK-ARGWC-16), 682329010 (ARK-ARGWC-18) and 682329016 (ARK-AP3-FD-05) were manually integrated to correctly position the baseline as set in the calibration standards.

Product: **Nitrate/Nitrite Cad Redux Low Level**
Analytical Method: EPA 353.2 Low Level
Analytical Procedure: GL-GC-E-128 REV# 15
Analytical Batch: 2661629

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
682329001	ARK-ARGWA-5
682329002	ARK-ARGWA-13
682329003	ARK-ARGWC-7
682329004	ARK-ARGWC-8
682329005	ARK-ARGWC-9
682329006	ARK-ARGWC-10
682329007	ARK-ARGWC-15
682329008	ARK-ARGWC-16
682329009	ARK-ARGWC-17
682329010	ARK-ARGWC-18
682329011	ARK-ARAMW-4
682329012	ARK-AP3-EB-04
682329013	ARK-AP3-FD-04
682329014	ARK-AP3-FB-04
682329015	ARK-AP3-EB-05
682329016	ARK-AP3-FD-05
682329017	ARK-AP3-FB-05
1205832102	Method Blank (MB)
1205832103	Laboratory Control Sample (LCS)
1205832104	682138001(ARK-ARGWA-3) Sample Duplicate (DUP)
1205832105	682138001(ARK-ARGWA-3) Post Spike (PS)
1205832106	682329008(ARK-ARGWC-16) Sample Duplicate (DUP)
1205832107	682329008(ARK-ARGWC-16) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Sample Dilutions
The following samples 682329001 (ARK-ARGWA-5), 682329002 (ARK-ARGWA-13), 682329007 (ARK-ARGWC-15) and 682329016 (ARK-AP3-FD-05) were diluted because target analyte concentrations exceeded the calibration range. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	682329			
	001	002	007	016
Nitrogen, Nitrate/Nitrite	2X	2X	2X	2X

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 21
Analytical Batch: 2663923

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
682329014	ARK-AP3-FB-04
682329015	ARK-AP3-EB-05
682329016	ARK-AP3-FD-05
682329017	ARK-AP3-FB-05
1205837527	Method Blank (MB)
1205837528	Laboratory Control Sample (LCS)
1205837529	682145009(NonSDG) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 21
Analytical Batch: 2663924

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
682329001	ARK-ARGWA-5
682329002	ARK-ARGWA-13
682329003	ARK-ARGWC-7
682329004	ARK-ARGWC-8
682329005	ARK-ARGWC-9
682329006	ARK-ARGWC-10
682329007	ARK-ARGWC-15
682329008	ARK-ARGWC-16
682329009	ARK-ARGWC-17
682329010	ARK-ARGWC-18
682329011	ARK-ARAMW-4
682329012	ARK-AP3-EB-04
682329013	ARK-AP3-FD-04
1205837531	Method Blank (MB)
1205837532	Laboratory Control Sample (LCS)
1205837534	682329009(ARK-ARGWC-17) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Duplicate Relative Percent Difference (RPD) Statement
The Relative Percent Difference (RPD) between the sample and duplicate falls outside of the established acceptance limits because of the heterogeneous matrix of the sample:

Analyte	Sample	Value
Total Dissolved Solids	1205837534 (ARK-ARGWC-17DUP)	5.24* (0%-5%)

Miscellaneous Information

Additional Comments
A reduced aliquot was used due to historical information. 682329011 (ARK-ARAMW-4).

Product: **Alkalinity**
Analytical Method: SM 2320B
Analytical Procedure: GL-GC-E-033 REV# 16
Analytical Batch: 2661505

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
682329001	ARK-ARGWA-5
682329002	ARK-ARGWA-13
682329003	ARK-ARGWC-7

682329004	ARK-ARGWC-8
682329005	ARK-ARGWC-9
682329006	ARK-ARGWC-10
682329007	ARK-ARGWC-15
682329008	ARK-ARGWC-16
682329009	ARK-ARGWC-17
682329010	ARK-ARGWC-18
682329011	ARK-ARAMW-4
1205831761	Laboratory Control Sample (LCS)
1205831762	Laboratory Control Sample (LCS)
1205831763	Laboratory Control Sample Duplicate (LCSD)
1205831764	Laboratory Control Sample Duplicate (LCSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Laboratory Control Sample Duplicate (LCSD)
An LCSD was used in place of matrix QC due to limited sample volume.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Page: 1 of 2
Project # 175569434
GEL Quote #:
COC Number [1]: 8 Sample Cooler(s): 6
PO Number: GPC82177-0005

GEL Laboratories LLC
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: **GEL Project Manager: Alaina Pinnick**

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

6823529

Client Name: Georgia Power — Phone # (937-344-6533)
Project/Site Name: Plant Arkwright Ash Pond _3_ — Fax: N/A
Address: 241 Ralph McGill Blvd SE, Atlanta, GA 30308
Collected By: Jackson Bankston, Zach Levy, John Mac, Dylan Quintal
Send Results To: jabraham@southernco.com EDD@stantec.com cassidy.sutherland@stantec.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Ag (App. I) (6020B)	NI Metals App. III (B, Ca) (6020B)	Alkalinity (300.0 R2.1) see Additional Remarks	TDS (SM Method 2540C)	Anions (Cl, Fl, Sulfate) (300.0 Rev. 2.1 1993)	NI Metals App. IV (6020B) see Additional Remarks	NI RAD 226-228 Cmbd	NI Mercury (7470B)	NI Metals Al, K, Mg, Na, Fe, Mn (6020B)	NI Fe2+/ Mn2+ (6020B) Field Filtered	SA Nitrate/ Nitrite (EPA Method 353.2)	<-- Preservative Type (6) Comments (task_code: ARK-CCR-ASSMT-2024S2)
ARK-ARGWA-5	08-21-24	0940	N	N	WG			8	X	X	X	X	X	X	X	X	X		X	
ARK-ARGWA-13	08-21-24	1105	N	N	WG			8	X	X	X	X	X	X	X	X	X		X	
ARK-ARGWC-7	08-21-24	1600	N	N	WG			8	X	X	X	X	X	X	X	X	X		X	
ARK-ARGWC-8	08-21-24	1530	N	N	WG			8	X	X	X	X	X	X	X	X	X		X	
ARK-ARGWC-9	08-21-24	1325	N	N	WG			8	X	X	X	X	X	X	X	X	X		X	
ARK-ARGWC-10	08-21-24	1425	N	N	WG			8	X	X	X	X	X	X	X	X	X		X	
ARK-ARGWC-15	08-21-24	1115	N	N	WG			8	X	X	X	X	X	X	X	X	X		X	
ARK-ARGWC-16	08-21-24	1125	N	N	WG			8	X	X	X	X	X	X	X	X	X		X	
ARK-ARGWC-17	08-21-24	1345	N	N	WG			8	X	X	X	X	X	X	X	X	X		X	
ARK-ARGWC-18	08-21-24	1345	N	N	WG			8	X	X	X	X	X	X	X	X	X		X	

Chain of Custody Signatures

	Relinquished By (Signed)	Print Name	Date	Received by (signed)	Print Name	Date
1		Stantec	8/22/24			8/22/24
2						8/22/24 1525
3						

TAT Requested: Normal: X Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [X] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [X] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: Metals App. IV: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl
Alkalinity: bicarbonate as CaCO3, carbonate as CaCO3, total as CaCO3

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** ____ °C

Sample Collection Time Zone : [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

> ***For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)***

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns.
(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

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Page: 2 of 2
Project # 175569434
GEL Quote #:
COC Number [1]: 8 Sample Cooler(s): 6
PO Number: GPC82177-0005

GEL Laboratories LLC
gel.com
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: ***GEL Project Manager: Alaina Pinnick***

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Georgia Power — Phone # (937-344-6533)

Project/Site Name: Plant Arkwright Ash Pond _3_ — Fax: N/A

Address: 241 Ralph McGill Blvd SE, Atlanta, GA 30308

Collected By: Jackson Bankston, Zach Levy, John Mod, Dylan Quintal

Send Results To: jabraham@southernco.com EDD@stantec.com cassidy.sutherland@stantec.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID ** For composites - indicate start and stop date/time*	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Ag (App. I) (6020B)	NI Metals App. III (B, Ca) (6020B)	Alkalinity (300.0 R2.1) see Additional Remarks	TDS (SM Method 2540C)	Anions (Cl, Fl, Sulfate) (300.0 Rev. 2.1 1993)	NI Metals App. IV (6020B) see Additional Remarks	NI RAD 226-228 Cmbd	NI Mercury (7470B)	NI Metals Al, K, Mg, Na, Fe, Mn (6020B)	NI Fe2+/ Mn2+ (6020B) Field Filtered	SA Nitrate/ Nitrite (EPA Method 353.2)	<-- Preservative Type (6)	Comments (task_code: ARK-CCR-ASSMT-2024S2)
ARK-ARAMW-4	08-21-24	1555	N	N	WG			8	X	X	X	X	X	X	X	X	X		X		
ARK-AP3-EB-04	08-21-24	1430	EB	N	WQ			7		X		X	X	X	X	X			X		
ARK-AP3-FD-04	08-21-24	NA	FD	N	WQ			7		X		X	X	X	X	X			X		
ARK-AP3-FB-04	08-21-24	1515	FB	N	WQ			7		X		X	X	X	X	X			X		
ARK-AP3-EB-05	08-21-24	1455	EB	N	WQ			7		X		X	X	X	X	X			X		
ARK-AP3-FD-05	08-21-24	NA	FD	N	WQ			7		X		X	X	X	X	X			X		
ARK-AP3-FB-05	08-21-24	1120	FB	N	WQ			7		X		X	X	X	X	X			X		

Chain of Custody Signatures

	Relinquished By (Signed)	Print Name	Date	Received by (signed)	Print Name	Date
1		Stantec	8/22/24			8/22/24
2						8/22/24 1525
3				3		

TAT Requested: **Normal:** X **Rush:** _____ **Specify:** _____ **(Subject to Surcharge)**

Fax Results: [ ] Yes [X] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [X] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: Metals App. IV: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl
Alkalinity: bicarbonate as CaCO3, carbonate as CaCO3, total as CaCO3

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** _____ *°C*

> For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)

Sample Collection Time Zone : [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

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5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns.
(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

Page: 1 of 2
Project # 175569434
GEL Quote #:
COC Number [1]: 8 Sample Cooler(s): 6
PO Number: GPC82177-0005

GEL Laboratories LLC
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: **GEL Project Manager: Alaina Pinnick**

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Georgia Power — Phone # (937-344-6533)
Project/Site Name: Plant Arkwright Ash Pond _3_ — Fax: N/A
Address: 241 Ralph McGill Blvd SE, Atlanta, GA 30308
Collected By: Jackson Bankston, Zach Levy, John Mays, Dylan Quintal
Send Results To: jabraham@southernco.com EDD@stantec.com cassidy.sutherland@stantec.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Ag (App. I) (6020B)	NI Metals App. III (B, Ca) (6020B)	Alkalinity (300.0 R2.1) see Additional Remarks	TDS (SM Method 2540C)	Anions (Cl, Fl, Sulfate) (300.0 Rev. 2.1 1993)	NI Metals App. IV (6020B) see Additional Remarks	NI RAD 226-228 Cmbd	NI Mercury (7470B)	NI Metals Al, K, Mg, Na, Fe, Mn (6020B)	NI Fe2+/ Mn2+ (6020B) Field Filtered	SA Nitrate/ Nitrite (EPA Method 353.2)	<-- Preservative Type (6)
ARK-ARGWA-5	08-21-24	0940	N	N	WG			8	X	X	X	X	X	X	X	X	X		X	
ARK-ARGWA-13	08-21-24	1105	N	N	WG			8	X	X	X	X	X	X	X	X	X		X	
ARK-ARGWC-7	08-21-24	1600	N	N	WG			8	X	X	X	X	X	X	X	X	X		X	
ARK-ARGWC-8	08-21-24	1530	N	N	WG			8	X	X	X	X	X	X	X	X	X		X	
ARK-ARGWC-9	08-21-24	1325	N	N	WG			8	X	X	X	X	X	X	X	X	X		X	
ARK-ARGWC-10	08-21-24	1425	N	N	WG			8	X	X	X	X	X	X	X	X	X		X	
ARK-ARGWC-15	08-21-24	1115	N	N	WG			8	X	X	X	X	X	X	X	X	X		X	
ARK-ARGWC-16	08-21-24	1125	N	N	WG			8	X	X	X	X	X	X	X	X	X		X	
ARK-ARGWC-17	08-21-24	1345	N	N	WG			8	X	X	X	X	X	X	X	X	X		X	
ARK-ARGWC-18	08-21-24	1345	N	N	WG			8	X	X	X	X	X	X	X	X	X		X	

Comments (task_code: ARK-CCR-ASSMT-2024S2)

Chain of Custody Signatures

	Relinquished By (Signed)	Print Name	Date	Received by (signed)	Print Name	Date
1		Stantec	8/22/24			8/22/24
2						8/22/24 1520
3						

TAT Requested: Normal: X Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [X] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [X] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: Metals App. IV: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl
Alkalinity: bicarbonate as CaCO3, carbonate as CaCO3, total as CaCO3

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** 0 °C

> ***For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)***

Sample Collection Time Zone : [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

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7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns.
(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

Page 1 of 2 SDG 96229

Page: 2 of 2
Project # 175569434
GEL Quote #:
COC Number [1]: 8 Sample Cooler(s): 6
PO Number: GPC82177-0005

GEL Laboratories LLC
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: **GEL Project Manager: Alaina Pinnick**

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Georgia Power Phone # (937-344-6533)
Project/Site Name: Plant Arkwright Ash Pond _3_ Fax: N/A
Address: 241 Ralph McGill Blvd SE, Atlanta, GA 30308
Collected By: Jackson Bankston, Zach Levy, John Myer, Dylan Quintal
Send Results To: jabraham@southernco.com EDD@stantec.com cassidy.sutherland@stantec.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Ag (App. I) (6020B)	NI Metals App. III (B, Ca) (6020B)	NI Alkalinity (300.0 R2.1) see Additional Remarks	NI TDS (SM Method 2540C)	Anions (Cl, Fl, Sulfate) (300.0 Rev. 2.1 1993)	NI Metals App. IV (6020B) see Additional Remarks	NI RAD 226-228 Cmbd	NI Mercury (7470B)	NI Metals Al, K, Mg, Na, Fe, Mn (6020B)	NI Fe2+/ Mn2+ (6020B) Field Filtered	SA Nitrate/ Nitrite (EPA Method 353.2)	<-- Preservative Type (6)
ARK-ARAMW-4	08-21-24	1555	N	N	WG			8	X	X	X	X	X	X	X	X	X			X	
ARK-AP3-EB-04	08-21-24	1430	EB	N	WQ			7		X		X	X	X	X	X				X	
ARK-AP3-FD-04	08-21-24	NA	FD	N	WQ			7		X		X	X	X	X	X				X	
ARK-AP3-FB-04	08-21-24	1515	FB	N	WQ			7		X		X	X	X	X	X				X	
ARK-AP3-EB-05	08-21-24	1455	EB	N	WQ			7		X		X	X	X	X	X				X	
ARK-AP3-FD-05	08-21-24	NA	FD	N	WQ			7		X		X	X	X	X	X				X	
ARK-AP3-FB-05	08-21-24	1120	FB	N	WQ			7		X		X	X	X	X	X				X	

Comments (task_code: ARK-CCR-ASSMT-2024S2)

Chain of Custody Signatures

	Relinquished By (Signed)	Print Name	Date		Received by (signed)	Print Name	Date
1		Stantec	8/22/24	1			8/22/24
2				2			8/22/24 0525
3				3			

TAT Requested: Normal: X Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [X] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [X] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: Metals App. IV: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl
Alkalinity: bicarbonate as CaCO3, carbonate as CaCO3, total as CaCO3

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** 0 °C

> ***For sample shipping and delivery details, see Sample Receipt & Review form (SRR).***

Sample Collection Time Zone : [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

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As = Arsenic **Hg**= Mercury
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Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns.
(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

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Page: 1 of 2
Project # 175569434
GEL Quote #:
COC Number [1]: 8 Sample Cooler(s): 6
PO Number: GPC82177-0005

GEL Laboratories LLC
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: ***GEL Project Manager: Alaina Pinnick***

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Georgia Power — Phone # (937-344-6533)
Project/Site Name: Plant Arkwright Ash Pond _3_ — Fax: N/A
Address: 241 Ralph McGill Blvd SE, Atlanta, GA 30308
Collected By: Jackson Bankston, Zach Levy, John Mack, Dylan Quintal — Send Results To: jabraham@southernco.com EDD@stantec.com cassidy.sutherland@stantec.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Ag (App. I) (6020B)	NI Metals App. III (B, Ca) (6020B)	Alkalinity (300.0 R2.1) see Additional Remarks	TDS (SM Method 2540C)	Anions (Cl, Fl, Sulfate) (300.0 Rev. 2.1 1993)	NI Metals App. IV (6020B) see Additional Remarks	NI RAD 226-228 Cmbd	NI Mercury (7470B)	NI Metals Al, K, Mg, Na, Fe, Mn (6020B)	NI Fe2+/ Mn2+ (6020B) Field Filtered	SA Nitrate/ Nitrite (EPA Method 353.2)	<-- Preservative Type (6)
ARK-ARGWA-5	08-21-24	0940	N	N	WG			8	X	X	X	X	X	X	X	X	X		X	
ARK-ARGWA-13	08-21-24	1105	N	N	WG			8	X	X	X	X	X	X	X	X	X		X	
ARK-ARGWC-7	08-21-24	1600	N	N	WG			8	X	X	X	X	X	X	X	X	X		X	
ARK-ARGWC-8	08-21-24	1530	N	N	WG			8	X	X	X	X	X	X	X	X	X		X	
ARK-ARGWC-9	08-21-24	1325	N	N	WG			8	X	X	X	X	X	X	X	X	X		X	
ARK-ARGWC-10	08-21-24	1425	N	N	WG			8	X	X	X	X	X	X	X	X	X		X	
ARK-ARGWC-15	08-21-24	1115	N	N	WG			8	X	X	X	X	X	X	X	X	X		X	
ARK-ARGWC-16	08-21-24	1125	N	N	WG			8	X	X	X	X	X	X	X	X	X		X	
ARK-ARGWC-17	08-21-24	1345	N	N	WG			8	X	X	X	X	X	X	X	X	X		X	
ARK-ARGWC-18	08-21-24	1345	N	N	WG			8	X	X	X	X	X	X	X	X	X		X	

Comments (task_code: ARK-CCR-ASSMT-2024S2)

Chain of Custody Signatures

	Relinquished By (Signed)	Print Name	Date	Received by (signed)	Print Name	Date
1		Stantec	8/21/24	1		8/22/24 1205
2				2		
3				3		

TAT Requested: **Normal:** X **Rush:** ____ **Specify:** ____ **(Subject to Surcharge)**

Fax Results: [ ] Yes [X] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [X] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: Metals App. IV: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl
Alkalinity: bicarbonate as CaCO3, carbonate as CaCO3, total as CaCO3

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** 1 °C

> ***For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)***

Sample Collection Time Zone : [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

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LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns.
(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

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Page: 2 of 2
Project # 175569434
GEL Quote #:
COC Number [1]: 8 Sample Cooler(s): 6
PO Number: GPC82177-0005

GEL Laboratories LLC
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

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GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
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Sample Analysis Requested [5] (Fill in the number of containers for each test)

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ARK-AP3-FB-04	08-21-24	1515	FB	N	WQ			7		X		X	X	X	X	X			X		
ARK-AP3-EB-05	08-21-24	1455	EB	N	WQ			7		X		X	X	X	X	X			X		
ARK-AP3-FD-05	08-21-24	NA	FD	N	WQ			7		X		X	X	X	X	X			X		
ARK-AP3-FB-05	08-21-24	1120	FB	N	WQ			7		X		X	X	X	X	X			X		

Chain of Custody Signatures

	Relinquished By (Signed)	Print Name	Date	Received by (signed)	Print Name	Date
1	[signature]	Stantec	8/22/24	[signature]		8/22/24
2				[signature]		8/22/24 1525
3						

TAT Requested: **Normal:** X **Rush:** _____ **Specify:** _____ **(Subject to Surcharge)**

Fax Results: [ ] Yes [X] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [X] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: Metals App. IV: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl
Alkalinity: bicarbonate as CaCO3, carbonate as CaCO3, total as CaCO3

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** 1 °C

> ***For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)***

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Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns.
(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

682329

Client: GPCC	SDG/AR/COC/Work Order:
Received By: QG	Date Received: 8/22/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other n/a

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM / mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: Wet Ice Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP:_____
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR1-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?		✓		Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?		✓		If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

Cooler 1 - 0°c
2 - 0°c
3 - 1°c
4 - 0°c
5 - 0°c
6 - 0°c
7 - 1°c
8 - 0°c

PM (or PMA) review: Initials HB Date 8/23/24 Page 1 of 1

List of current GEL Certifications as of 06 September 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-41
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

September 19, 2024

Joju Abraham
Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308

Re: Arkwright CCR Groundwater Compliance Relog: Radiochemistry
Work Order: 682332

Dear Joju Abraham:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on August 22, 2024. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
682332001	ARK-ARGWA-5	Ground Water	08/21/24 09:40	08/22/24 15:00
682332002	ARK-ARGWA-13	Ground Water	08/21/24 11:05	08/22/24 15:00
682332003	ARK-ARGWC-7	Ground Water	08/21/24 16:00	08/22/24 15:00
682332004	ARK-ARGWC-8	Ground Water	08/21/24 15:30	08/22/24 15:00
682332005	ARK-ARGWC-9	Ground Water	08/21/24 13:25	08/22/24 15:00
682332006	ARK-ARGWC-10	Ground Water	08/21/24 14:25	08/22/24 15:00
682332007	ARK-ARGWC-15	Ground Water	08/21/24 11:15	08/22/24 15:00
682332008	ARK-ARGWC-16	Ground Water	08/21/24 11:25	08/22/24 15:00
682332009	ARK-ARGWC-17	Ground Water	08/21/24 13:45	08/22/24 15:00
682332010	ARK-ARGWC-18	Ground Water	08/21/24 13:45	08/22/24 15:00
682332011	ARK-ARAMW-4	Ground Water	08/21/24 15:55	08/22/24 15:00
682332012	ARK-AP3-EB-04	Water	08/21/24 14:30	08/22/24 15:00
682332013	ARK-AP3-FD-04	Water	08/21/24 12:00	08/22/24 15:00
682332014	ARK-AP3-FB-04	Water	08/21/24 15:15	08/22/24 15:00
682332015	ARK-AP3-EB-05	Water	08/21/24 14:55	08/22/24 15:00
682332016	ARK-AP3-FD-05	Water	08/21/24 12:00	08/22/24 15:00

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Prep Methods and Prep Dates

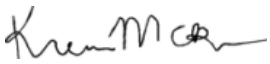
Not Applicable

Analysis Methods and Analysis Dates

Method	Run Date ID
Calculation	19-SEP-2024
EPA 903.1 Modified	18-SEP-2024
EPA 903.1 Modified	19-SEP-2024
EPA 904.0/SW846 9320 Modified	18-SEP-2024

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4443.

Sincerely,



Kierra McKnight for
Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0005
Chain of Custody: 8
Enclosures

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 682332 GEL Work Order: 682332

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

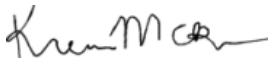
** Analyte is a surrogate compound

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Alaina Pinnick.

Reviewed by 

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Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 19, 2024

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceRelog: Radiochemistry

Client Sample ID: ARK-ARGWA-5
Sample ID: 682332001
Matrix: WG
Collect Date: 21-AUG-24
Receive Date: 22-AUG-24
Collector: Client

Project: GPCC00100
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	-0.439	+/-1.02	2.05	+/-1.02	3.00	pCi/L			KP1	09/18/24	1237	2661779	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.59	+/-1.26	2.05	+/-1.38		pCi/L			NXL1	09/19/24	1433	2665120	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		2.59	+/-0.729	0.531	+/-0.921	1.00	pCi/L			MJ2	09/19/24	0808	2661722	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2661779	83.9	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 19, 2024

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceRelog: Radiochemistry

Client Sample ID: ARK-ARGWA-13 Project: GPCC00100
Sample ID: 682332002 Client ID: GPCC001
Matrix: WG
Collect Date: 21-AUG-24
Receive Date: 22-AUG-24
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.145	+/-0.800	1.51	+/-0.801	3.00	pCi/L			KP1	09/18/24	1237	2661779	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	0.623	+/-0.868	1.51	+/-0.873		pCi/L			NXL1	09/19/24	1433	2665120	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.478	+/-0.338	0.374	+/-0.349	1.00	pCi/L			MJ2	09/19/24	0844	2661722	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2661779	78.7	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 19, 2024

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceRelog: Radiochemistry

Client Sample ID: ARK-ARGWC-7
Sample ID: 682332003
Matrix: WG
Collect Date: 21-AUG-24
Receive Date: 22-AUG-24
Collector: Client

Project: GPCC00100
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		2.03	+/-1.23	1.89	+/-1.34	3.00	pCi/L			KP1	09/18/24	1237	2661779	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.53	+/-1.28	1.89	+/-1.39		pCi/L			NXL1	09/19/24	1433	2665120	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.494	+/-0.329	0.373	+/-0.346	1.00	pCi/L			MJ2	09/19/24	0844	2661722	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2661779	86.5	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Certificate of Analysis

Company : Georgia Power Company, Southern
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241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 19, 2024

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceRelog: Radiochemistry

Client Sample ID: ARK-ARGWC-8
Sample ID: 682332004
Matrix: WG
Collect Date: 21-AUG-24
Receive Date: 22-AUG-24
Collector: Client

Project: GPCC00100
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.366	+/-0.966	1.73	+/-0.971	3.00	pCi/L			KP1	09/18/24	1237	2661779	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	0.519	+/-0.990	1.73	+/-0.995		pCi/L			NXL1	09/19/24	1433	2665120	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.153	+/-0.216	0.357	+/-0.218	1.00	pCi/L			MJ2	09/19/24	0844	2661722	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2661779	85.6	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Certificate of Analysis

Company : Georgia Power Company, Southern
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241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 19, 2024

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceRelog: Radiochemistry

Client Sample ID: ARK-ARGWC-9 Project: GPCC00100
Sample ID: 682332005 Client ID: GPCC001
Matrix: WG
Collect Date: 21-AUG-24
Receive Date: 22-AUG-24
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.743	+/-0.799	1.32	+/-0.822	3.00	pCi/L			KP1	09/18/24	1237	2661779	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	1.25	+/-0.880	1.32	+/-0.908		pCi/L			NXL1	09/19/24	1433	2665120	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.503	+/-0.370	0.506	+/-0.386	1.00	pCi/L			MJ2	09/19/24	0844	2661722	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2661779	82.7	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
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Atlanta, Georgia 30308 Report Date: September 19, 2024

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceRelog: Radiochemistry

Client Sample ID: ARK-ARGWC-10 Project: GPCC00100
Sample ID: 682332006 Client ID: GPCC001
Matrix: WG
Collect Date: 21-AUG-24
Receive Date: 22-AUG-24
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.696	+/-1.13	1.96	+/-1.14	3.00	pCi/L			KP1	09/18/24	1237	2661779	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	1.46	+/-1.21	1.96	+/-1.23		pCi/L			NXL1	09/19/24	1433	2665120	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.766	+/-0.437	0.358	+/-0.467	1.00	pCi/L			MJ2	09/19/24	0844	2661722	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2661779	80.4	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 19, 2024

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceRelog: Radiochemistry

Client Sample ID: ARK-ARGWC-15
Sample ID: 682332007
Matrix: WG
Collect Date: 21-AUG-24
Receive Date: 22-AUG-24
Collector: Client

Project: GPCC00100
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	-0.376	+/-1.12	2.17	+/-1.12	3.00	pCi/L			KP1	09/18/24	1237	2661779	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	1.73	+/-1.27	2.17	+/-1.33		pCi/L			NXL1	09/19/24	1433	2665120	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		1.73	+/-0.601	0.517	+/-0.716	1.00	pCi/L			MJ2	09/19/24	0844	2661722	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2661779	79.6	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 19, 2024

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceRelog: Radiochemistry

Client Sample ID: ARK-ARGWC-16
Sample ID: 682332008
Matrix: WG
Collect Date: 21-AUG-24
Receive Date: 22-AUG-24
Collector: Client

Project: GPCC00100
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.707	+/-0.844	1.42	+/-0.864	3.00	pCi/L			KP1	09/18/24	1237	2661779	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		1.48	+/-0.985	1.42	+/-1.01		pCi/L			NXL1	09/19/24	1433	2665120	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.769	+/-0.508	0.648	+/-0.525	1.00	pCi/L			MJ2	09/19/24	0844	2661722	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2661779	79.9	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 19, 2024

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceRelog: Radiochemistry

Client Sample ID: ARK-ARGWC-17
Sample ID: 682332009
Matrix: WG
Collect Date: 21-AUG-24
Receive Date: 22-AUG-24
Collector: Client

Project: GPCC00100
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.23	+/-1.43	2.40	+/-1.46	3.00	pCi/L			KP1	09/18/24	1237	2661779	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.51	+/-1.53	2.40	+/-1.58		pCi/L			NXL1	09/19/24	1433	2665120	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		1.28	+/-0.555	0.483	+/-0.586	1.00	pCi/L			MJ2	09/19/24	0844	2661722	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2661779	77.3	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 19, 2024

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceRelog: Radiochemistry

Client Sample ID: ARK-ARGWC-18
Sample ID: 682332010
Matrix: WG
Collect Date: 21-AUG-24
Receive Date: 22-AUG-24
Collector: Client

Project: GPCC00100
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.44	+/-1.34	2.20	+/-1.39	3.00	pCi/L			KP1	09/18/24	1237	2661779	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	1.82	+/-1.37	2.20	+/-1.42		pCi/L			NXL1	09/19/24	1433	2665120	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.372	+/-0.304	0.394	+/-0.309	1.00	pCi/L			MJ2	09/19/24	0919	2661722	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2661779	81.7	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 19, 2024

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceRelog: Radiochemistry

Client Sample ID: ARK-ARAMW-4
Sample ID: 682332011
Matrix: WG
Collect Date: 21-AUG-24
Receive Date: 22-AUG-24
Collector: Client

Project: GPCC00100
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.30	+/-1.36	2.27	+/-1.40	3.00	pCi/L			KP1	09/18/24	1238	2661779	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	1.60	+/-1.40	2.27	+/-1.44		pCi/L			NXL1	09/19/24	1433	2665120	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.303	+/-0.300	0.437	+/-0.306	1.00	pCi/L			MJ2	09/19/24	0919	2661722	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2661779	76.8	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 19, 2024

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceRelog: Radiochemistry

Client Sample ID: ARK-AP3-EB-04 Project: GPCC00100
Sample ID: 682332012 Client ID: GPCC001
Matrix: WQ
Collect Date: 21-AUG-24
Receive Date: 22-AUG-24
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.04	+/-0.913	1.46	+/-0.951	3.00	pCi/L			KP1	09/18/24	1238	2661779	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	1.23	+/-0.926	1.46	+/-0.964		pCi/L			NXL1	09/19/24	1433	2665120	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.196	+/-0.152	0.187	+/-0.157	1.00	pCi/L			MJ2	09/18/24	0753	2661723	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2661779	77.3	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 19, 2024

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceRelog: Radiochemistry

Client Sample ID: ARK-AP3-FD-04
Sample ID: 682332013
Matrix: WQ
Collect Date: 21-AUG-24
Receive Date: 22-AUG-24
Collector: Client

Project: GPCC00100
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.12	+/-1.00	1.62	+/-1.04	3.00	pCi/L			KP1	09/18/24	1238	2661779	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	1.47	+/-1.05	1.62	+/-1.09		pCi/L			NXL1	09/19/24	1433	2665120	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.351	+/-0.303	0.472	+/-0.310	1.00	pCi/L			MJ2	09/18/24	0753	2661723	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2661779	82	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 19, 2024

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceRelog: Radiochemistry

Client Sample ID: ARK-AP3-FB-04 Project: GPCC00100
Sample ID: 682332014 Client ID: GPCC001
Matrix: WQ
Collect Date: 21-AUG-24
Receive Date: 22-AUG-24
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.58	+/-1.54	2.54	+/-1.59	3.00	pCi/L			KP1	09/18/24	1507	2661779	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.93	+/-1.59	2.54	+/-1.67		pCi/L			NXL1	09/19/24	1433	2665120	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		1.35	+/-0.406	0.280	+/-0.499	1.00	pCi/L			MJ2	09/18/24	0753	2661723	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2661779	77	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 19, 2024

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceRelog: Radiochemistry

Client Sample ID: ARK-AP3-EB-05 Project: GPCC00100
Sample ID: 682332015 Client ID: GPCC001
Matrix: WQ
Collect Date: 21-AUG-24
Receive Date: 22-AUG-24
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.404	+/-0.808	1.45	+/-0.815	3.00	pCi/L			KP1	09/18/24	1238	2661779	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	0.865	+/-0.850	1.45	+/-0.860		pCi/L			NXL1	09/19/24	1433	2665120	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.461	+/-0.263	0.295	+/-0.275	1.00	pCi/L			MJ2	09/18/24	0753	2661723	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2661779	76.8	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
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Atlanta, Georgia 30308 Report Date: September 19, 2024

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceRelog: Radiochemistry

Client Sample ID: ARK-AP3-FD-05 Project: GPCC00100
Sample ID: 682332016 Client ID: GPCC001
Matrix: WQ
Collect Date: 21-AUG-24
Receive Date: 22-AUG-24
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.41	+/-0.997	1.53	+/-1.06	3.00	pCi/L			KP1	09/18/24	1238	2661779	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		1.88	+/-1.04	1.53	+/-1.11		pCi/L			NXL1	09/19/24	1433	2665120	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.465	+/-0.304	0.415	+/-0.316	1.00	pCi/L			MJ2	09/18/24	0753	2661723	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2661779	79.5	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 19, 2024

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceRelog: Radiochemistry

Client Sample ID: ARK-AP3-FB-05 Project: GPCC00100
Sample ID: 682332017 Client ID: GPCC001
Matrix: WQ
Collect Date: 21-AUG-24
Receive Date: 22-AUG-24
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.281	+/-0.667	1.23	+/-0.670	3.00	pCi/L			KP1	09/18/24	1238	2661779	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	0.546	+/-0.702	1.23	+/-0.708		pCi/L			NXL1	09/19/24	1433	2665120	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.265	+/-0.221	0.327	+/-0.227	1.00	pCi/L			MJ2	09/18/24	0826	2661723	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2661779	81.3	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

Product: **Radium-226+Radium-228 Calculation**
Analytical Method: Calculation
Analytical Procedure: GL-RAD-D-003 REV# 45
Analytical Batch: 2665120

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
682332001	ARK-ARGWA-5
682332002	ARK-ARGWA-13
682332003	ARK-ARGWC-7
682332004	ARK-ARGWC-8
682332005	ARK-ARGWC-9
682332006	ARK-ARGWC-10
682332007	ARK-ARGWC-15
682332008	ARK-ARGWC-16
682332009	ARK-ARGWC-17
682332010	ARK-ARGWC-18
682332011	ARK-ARAMW-4
682332012	ARK-AP3-EB-04
682332013	ARK-AP3-FD-04
682332014	ARK-AP3-FB-04
682332015	ARK-AP3-EB-05
682332016	ARK-AP3-FD-05
682332017	ARK-AP3-FB-05

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **GFPC Ra228, Liquid**
Analytical Method: EPA 904.0/SW846 9320 Modified
Analytical Procedure: GL-RAD-A-063 REV# 5
Analytical Batch: 2661779

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
682332001	ARK-ARGWA-5
682332002	ARK-ARGWA-13
682332003	ARK-ARGWC-7
682332004	ARK-ARGWC-8
682332005	ARK-ARGWC-9

682332006	ARK-ARGWC-10
682332007	ARK-ARGWC-15
682332008	ARK-ARGWC-16
682332009	ARK-ARGWC-17
682332010	ARK-ARGWC-18
682332011	ARK-ARAMW-4
682332012	ARK-AP3-EB-04
682332013	ARK-AP3-FD-04
682332014	ARK-AP3-FB-04
682332015	ARK-AP3-EB-05
682332016	ARK-AP3-FD-05
682332017	ARK-AP3-FB-05
1205832461	Method Blank (MB)
1205832462	682332001(ARK-ARGWA-5) Sample Duplicate (DUP)
1205832463	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Recounts
Sample 682332014 (ARK-AP3-FB-04) was recounted to verify sample results. Recount is reported. Sample 1205832461 (MB) was recounted due to a suspected blank false positive. The recount is reported.

Product: **Lucas Cell, Ra226, Liquid**
Analytical Method: EPA 903.1 Modified
Analytical Procedure: GL-RAD-A-008 REV# 15
Analytical Batch: 2661722

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
682332001	ARK-ARGWA-5
682332002	ARK-ARGWA-13
682332003	ARK-ARGWC-7
682332004	ARK-ARGWC-8
682332005	ARK-ARGWC-9
682332006	ARK-ARGWC-10
682332007	ARK-ARGWC-15
682332008	ARK-ARGWC-16
682332009	ARK-ARGWC-17
682332010	ARK-ARGWC-18
682332011	ARK-ARAMW-4
1205832291	Method Blank (MB)
1205832292	682059007(NonSDG) Sample Duplicate (DUP)
1205832293	682059007(NonSDG) Matrix Spike (MS)
1205832294	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments
The matrix spike, 1205832293 (Non SDG 682059007MS), aliquot was reduced to conserve sample volume.

Product: **Lucas Cell, Ra226, Liquid**
Analytical Method: EPA 903.1 Modified
Analytical Procedure: GL-RAD-A-008 REV# 15
Analytical Batch: 2661723

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
682332012	ARK-AP3-EB-04
682332013	ARK-AP3-FD-04
682332014	ARK-AP3-FB-04
682332015	ARK-AP3-EB-05
682332016	ARK-AP3-FD-05
682332017	ARK-AP3-FB-05
1205832298	Method Blank (MB)
1205832299	681548001(NonSDG) Sample Duplicate (DUP)
1205832300	681548001(NonSDG) Matrix Spike (MS)
1205832301	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Duplication Criteria between QC Sample and Duplicate Sample
The Sample and the Duplicate, (See Below), did not meet the relative percent difference requirement; however, they do meet the relative error ratio requirement with the value listed below.

Sample	Analyte	Value
1205832299 (Non SDG 681548001DUP)	Radium-226	RPD 32.2* (0.00%-20.00%) RER 1.25 (0-3)

Miscellaneous Information

Additional Comments
The matrix spike, 1205832300 (Non SDG 681548001MS), aliquot was reduced to conserve sample volume.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

QC Summary

Client : **Georgia Power Company, Southern Company**
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia

Contact: **Joju Abraham**

Workorder: **682332**

Report Date: September 19, 2024

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gas Flow										
Batch 2661779										
QC1205832462 682332001 DUP										
Radium-228	U	-0.439	U	0.722	pCi/L	0		N/A	KP1	09/18/2412:38
	Uncert:	+/-1.02		+/-1.15						
	TPU:	+/-1.02		+/-1.17						
QC1205832463 LCS										
Radium-228	69.2			75.3	pCi/L		109	(75%-125%)	KP1	09/18/2412:38
	Uncert:			+/-4.20						
	TPU:			+/-19.7						
QC1205832461 MB										
Radium-228			U	2.10	pCi/L				KP1	09/18/2415:07
	Uncert:			+/-1.40						
	TPU:			+/-1.50						
Rad Ra-226										
Batch 2661722										
QC1205832292 682059007 DUP										
Radium-226		0.654		0.666	pCi/L	1.82		(0% - 100%)	MJ2	09/19/2409:19
	Uncert:	+/-0.375		+/-0.384						
	TPU:	+/-0.399		+/-0.408						
QC1205832294 LCS										
Radium-226	27.1			22.8	pCi/L		84.1	(75%-125%)	MJ2	09/19/2409:19
	Uncert:			+/-2.00						
	TPU:			+/-4.73						
QC1205832291 MB										
Radium-226			U	0.372	pCi/L				MJ2	09/19/2409:19
	Uncert:			+/-0.365						
	TPU:			+/-0.369						
QC1205832293 682059007 MS										
Radium-226	123	0.654		112	pCi/L		90.5	(75%-125%)	MJ2	09/19/2409:19
	Uncert:	+/-0.375		+/-10.0						
	TPU:	+/-0.399		+/-19.2						
Batch 2661723										
QC1205832299 681548001 DUP										
Radium-226		1.18		1.64	pCi/L	32.2*		(0%-20%)	MJ2	09/18/2408:57
	Uncert:	+/-0.424		+/-0.416						
	TPU:	+/-0.494		+/-0.511						
QC1205832301 LCS										
Radium-226	27.3			29.7	pCi/L		109	(75%-125%)	MJ2	09/18/2408:57
	Uncert:			+/-1.76						
	TPU:			+/-5.83						
QC1205832298 MB										
Radium-226			U	0.385	pCi/L				MJ2	09/18/2408:57

QC Summary

Workorder: **682332**

Parmname		NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Ra-226											
Batch	2661723										
		Uncert:			+/-0.302						
		TPU:			+/-0.315						
QC1205832300	681548001 MS										
Radium-226		153	1.18		177	pCi/L		115	(75%-125%)	MJ2	09/18/2408:57
		Uncert:	+/-0.424		+/-10.8						
		TPU:	+/-0.494		+/-34.3						

Notes:

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

The Qualifiers in this report are defined as follows:

U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported
UI	Gamma Spectroscopy--Uncertain identification
BD	Results are either below the MDC or tracer recovery is low
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
M	M if above MDC and less than LLD
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
FA	Failed analysis.
UJ	Gamma Spectroscopy--Uncertain identification
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
K	Analyte present. Reported value may be biased high. Actual value is expected to be lower.
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.
L	Analyte present. Reported value may be biased low. Actual value is expected to be higher.
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
**	Analyte is a Tracer compound
M	REMP Result > MDC/CL and < RDL
J	See case narrative for an explanation

QC Summary

Workorder: **682332**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
** Indicates analyte is a surrogate/tracer compound.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptence criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Page: 1 of 2
Project # 175569434
GEL Quote #:
COC Number [1]: 8 Sample Cooler(s): 6
PO Number: GPC82177-0005

GEL Laboratories LLC
gel.com | Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: **GEL Project Manager: Alaina Pinnick**

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

682332

Client Name: Georgia Power Phone # (937-344-6533)

Project/Site Name: Plant Arkwright Ash Pond _3_ Fax: N/A

Address: 241 Ralph McGill Blvd SE, Atlanta, GA 30308

Collected By: Jackson Bankston, Zach Levy, John Myers, Dylan Quintal

Send Results To: jabraham@southernco.com EDD@stantec.com cassidy.sutherland@stantec.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Ag (App. I) (6020B)	NI Metals App. III (B, Ca) (6020B)	Alkalinity (300.0 R2.1) see Additional Remarks	TDS (SM Method 2540C)	Anions (Cl, Fl, Sulfate) (300.0 Rev. 2.1 1993)	NI Metals App. IV (6020B) see Additional Remarks	NI RAD 226-228 Cmbd	NI Mercury (7470B)	NI Metals Al, K, Mg, Na, Fe, Mn (6020B)	NI Fe2+/ Mn2+ (6020B) Field Filtered	SA Nitrate/ Nitrite (EPA Method 353.2)	<-- Preservative Type (6)
ARK-ARGWA-5	08-21-24	0940	N	N	WG			8	X	X	X	X	X	X	X	X	X		X	
ARK-ARGWA-13	08-21-24	1105	N	N	WG			8	X	X	X	X	X	X	X	X	X		X	
ARK-ARGWC-7	08-21-24	1600	N	N	WG			8	X	X	X	X	X	X	X	X	X		X	
ARK-ARGWC-8	08-21-24	1530	N	N	WG			8	X	X	X	X	X	X	X	X	X		X	
ARK-ARGWC-9	08-21-24	1325	N	N	WG			8	X	X	X	X	X	X	X	X	X		X	
ARK-ARGWC-10	08-21-24	1425	N	N	WG			8	X	X	X	X	X	X	X	X	X		X	
ARK-ARGWC-15	08-21-24	1115	N	N	WG			8	X	X	X	X	X	X	X	X	X		X	
ARK-ARGWC-16	08-21-24	1125	N	N	WG			8	X	X	X	X	X	X	X	X	X		X	
ARK-ARGWC-17	08-21-24	1345	N	N	WG			8	X	X	X	X	X	X	X	X	X		X	
ARK-ARGWC-18	08-21-24	1345	N	N	WG			8	X	X	X	X	X	X	X	X	X		X	

Comments (task_code: ARK-CCR-ASSMT-2024S2)

Chain of Custody Signatures

	Relinquished By (Signed)	Print Name	Date	Received by (signed)	Print Name	Date
1		Stantec	8/22/24			8/22/24
2						8/22/24 1525
3						

TAT Requested: Normal: X Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [X] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [X] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: Metals App. IV: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl
Alkalinity: bicarbonate as CaCO3, carbonate as CaCO3, total as CaCO3

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** ____ °C

> ***For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)***

Sample Collection Time Zone : [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

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7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
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(F,K,P and U-listed wastes.)
Waste code(s):

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(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns.
(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

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Page: 2 of 2
Project # 175569434
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Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Ag (App. I) (6020B)	NI Metals App. III (B, Ca) (6020B)	Alkalinity (300.0 R2.1) see Additional Remarks	TDS (SM Method 2540C)	Anions (Cl, Fl, Sulfate) (300.0 Rev. 2.1 1993)	NI Metals App. IV (6020B) see Additional Remarks	NI RAD 226-228 Cmbd	NI Mercury (7470B)	NI Metals Al, K, Mg, Na, Fe, Mn (6020B)	NI Fe2+/ Mn2+ (6020B) Field Filtered	SA Nitrate/ Nitrite (EPA Method 353.2)	<-- Preservative Type (6)	Comments (task_code: ARK-CCR-ASSMT-2024S2)
ARK-ARAMW-4	08-21-24	1555	N	N	WG			8	X	X	X	X	X	X	X	X	X		X	
ARK-AP3-EB-04	08-21-24	1430	EB	N	WQ			7		X		X	X	X	X	X			X	
ARK-AP3-FD-04	08-21-24	NA	FD	N	WQ			7		X		X	X	X	X	X			X	
ARK-AP3-FB-04	08-21-24	1515	FB	N	WQ			7		X		X	X	X	X	X			X	
ARK-AP3-EB-05	08-21-24	1455	EB	N	WQ			7		X		X	X	X	X	X			X	
ARK-AP3-FD-05	08-21-24	NA	FD	N	WQ			7		X		X	X	X	X	X			X	
ARK-AP3-FB-05	08-21-24	1120	FB	N	WQ			7		X		X	X	X	X	X			X	

Chain of Custody Signatures

	Relinquished By (Signed)	Print Name	Date	Received by (signed)	Print Name	Date
1	[signature]	Stantec	8/22/24	[signature]		8/22/24
2				[signature]		8/22/24 1525
3						

TAT Requested: **Normal:** X **Rush:** _____ **Specify:** _____ **(Subject to Surcharge)**

Fax Results: [ ] Yes [X] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [X] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: Metals App. IV: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl
Alkalinity: bicarbonate as CaCO3, carbonate as CaCO3, total as CaCO3

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** _____ *°C*

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(F,K,P and U-listed wastes.)
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(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
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Page: 1 of 2
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GEL Quote #:
COC Number (1): 8 Sample Cooler(s): 6
PO Number: GPC82177-0005

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Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

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Chain of Custody Signatures

	Relinquished By (Signed)	Print Name	Date	Received by (signed)	Print Name	Date
1	[signature]	Stantec	8/22/24	[signature]		8/22/24
2				[signature]		8/22/24 1525
3						

TAT Requested: Normal: X Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [X] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [X] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: Metals App. IV: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl
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For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** 0 °C

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Listed Waste
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(F,K,P and U-listed wastes.)
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Page: 2 of 2
Project # 175569434
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Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

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Collected By: Jackson Bankston, Zach Levy, John Mott, Dylan Quintal — Send Results To: jabraham@southernco.com EDD@stantec.com cassidy.sutherland@stantec.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Ag (App. D) (6020B)	NI Metals App. III (B, Ca) (6020B)	Alkalinity (300.0 R2.1) see Additional Remarks	TDS (SM Method 2540C)	Anions (Cl, Fl, Sulfate) (300.0 Rev. 2.1 1993)	NI Metals App. IV (6020B) see Additional Remarks	NI RAD 226-228 Cmbd	NI Mercury (7470B)	NI Metals Al, K, Mg, Na, Fe, Mn (6020B)	NI Fe2+/ Mn2+ (6020B) Field Filtered	SA Nitrate/ Nitrite (EPA Method 353.2)	<-- Preservative Type (6) Comments (task_code: ARK-CCR-ASSMT-2024S2)
ARK-ARGWA-5	08-21-24	0940	N	N	WG			8	X	X	X	X	X	X	X	X	X		X	
ARK-ARGWA-13	08-21-24	1105	N	N	WG			8	X	X	X	X	X	X	X	X	X		X	
ARK-ARGWC-7	08-21-24	1600	N	N	WG			8	X	X	X	X	X	X	X	X	X		X	
ARK-ARGWC-8	08-21-24	1530	N	N	WG			8	X	X	X	X	X	X	X	X	X		X	
ARK-ARGWC-9	08-21-24	1325	N	N	WG			8	X	X	X	X	X	X	X	X	X		X	
ARK-ARGWC-10	08-21-24	1425	N	N	WG			8	X	X	X	X	X	X	X	X	X		X	
ARK-ARGWC-15	08-21-24	1115	N	N	WG			8	X	X	X	X	X	X	X	X	X		X	
ARK-ARGWC-16	08-21-24	1125	N	N	WG			8	X	X	X	X	X	X	X	X	X		X	
ARK-ARGWC-17	08-21-24	1345	N	N	WG			8	X	X	X	X	X	X	X	X	X		X	
ARK-ARGWC-18	08-21-24	1345	N	N	WG			8	X	X	X	X	X	X	X	X	X		X	

Chain of Custody Signatures

	Relinquished By (Signed)	Print Name	Date	Received by (signed)	Print Name	Date
1		Stantec	8/22/24			8/22/24
2						8/22/24 1545
3						

TAT Requested: Normal: X Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [X] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [X] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: Metals App. IV: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl
Alkalinity: bicarbonate as CaCO3, carbonate as CaCO3, total as CaCO3

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** 0 °C

> ***For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)***

Sample Collection Time Zone : [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a **- Y -** for yes the sample was field filtered or **- N -** for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns.
(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

Page 33 of 68 SDG 68332

Page: 2 of 2
Project # 175569434
GEL Quote #:
COC Number (1): 8 Sample Cooler(s): 6
PO Number: GPC82177-0005

GEL Laboratories LLC
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: **GEL Project Manager: Alaina Pinnick**

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Georgia Power Phone # (937-344-6533)
Project/Site Name: Plant Arkwright Ash Pond _3_ Fax: N/A
Address: 241 Ralph McGill Blvd SE, Atlanta, GA 30308
Collected By: Jackson Bankston, Zach Levy, John Mc, Dylan Quintal
Send Results To: jabraham@southernco.com EDD@stantec.com cassidy.sutherland@stantec.com

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Ag (App. I) (6020B)	NI Metals App. III (B, Ca) (6020B)	Alkalinity (300.0 R2.1) see Additional Remarks	TDS (SM Method 2540C)	Anions (Cl, Fl, Sulfate) (300.0 Rev. 2.1 1993)	NI Metals App. IV (6020B) see Additional Remarks	NI RAD 226-228 Cmbd	NI Mercury (7470B)	NI Metals Al, K, Mg, Na, Fe, Mn (6020B)	NI Fe2+/ Mn2+ (6020B) Field Filtered	SA Nitrate/ Nitrite (EPA Method 353.2)	<-- Preservative Type (6) Comments (task_code: ARK-CCR-ASSMT-2024S2)
ARK-ARAMW-4	08-21-24	1555	N	N	WG			8	X	X	X	X	X	X	X	X	X		X	
ARK-AP3-EB-04	08-21-24	1430	EB	N	WQ			7		X		X	X	X	X	X			X	
ARK-AP3-FD-04	08-21-24	NA	FD	N	WQ			7		X		X	X	X	X	X			X	
ARK-AP3-FB-04	08-21-24	1515	FB	N	WQ			7		X		X	X	X	X	X			X	
ARK-AP3-EB-05	08-21-24	1455	EB	N	WQ			7		X		X	X	X	X	X			X	
ARK-AP3-FD-05	08-21-24	NA	FD	N	WQ			7		X		X	X	X	X	X			X	
ARK-AP3-FB-05	08-21-24	1120	FB	N	WQ			7		X		X	X	X	X	X			X	

Chain of Custody Signatures

	Relinquished By (Signed)	Print Name	Date	Received by (signed)	Print Name	Date
1		Stantec	8/22/24			8/22/24
2						8/22/24 1525
3						

TAT Requested: Normal: X Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [X] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [X] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: Metals App. IV: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl
Alkalinity: bicarbonate as CaCO3, carbonate as CaCO3, total as CaCO3

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** 0 °C

> ***For sample shipping and delivery details, see Sample Receipt & Review form (SRR).***

Sample Collection Time Zone : [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a **- Y -** for yes the sample was field filtered or **- N -** for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns.
(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

241013SDG 68332

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM 682332

Client: GPCC	SDG/AR/COC/Work Order:
Received By: QG	Date Received: 8/22/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier (Other) n/a

Suspected Hazard Information	Yes	No	
			*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM 7 mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: Wet Ice Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP:_____
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR1-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?			✓	Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?			✓	
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

Cooler 1- 0°c
2- 0°c
3- 1°c
4- 0°c
5- 0°c
6- 0°c
7- 1°c
8- 0°c

PM (or PMA) review: Initials HB Date 8/23/24 Page 1 of 1

List of current GEL Certifications as of 19 September 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-41
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

September 06, 2024

Joju Abraham
Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308

Re: Arkwright CCR Groundwater Compliance
Work Order: 682333

Dear Joju Abraham:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on August 22, 2024. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
682333001	ARK-ARGWA-5	Ground Water	08/21/24 09:40	08/22/24 15:00
682333002	ARK-ARGWA-13	Ground Water	08/21/24 11:05	08/22/24 15:00
682333003	ARK-ARGWC-7	Ground Water	08/21/24 16:00	08/22/24 15:00
682333004	ARK-ARGWC-8	Ground Water	08/21/24 15:30	08/22/24 15:00
682333005	ARK-ARGWC-9	Ground Water	08/21/24 13:25	08/22/24 15:00
682333006	ARK-ARGWC-10	Ground Water	08/21/24 14:25	08/22/24 15:00
682333007	ARK-ARGWC-15	Ground Water	08/21/24 11:15	08/22/24 15:00
682333008	ARK-ARGWC-16	Ground Water	08/21/24 11:25	08/22/24 15:00
682333009	ARK-ARGWC-17	Ground Water	08/21/24 13:45	08/22/24 15:00
682333010	ARK-ARGWC-18	Ground Water	08/21/24 13:45	08/22/24 15:00
682333011	ARK-ARAMW-4	Ground Water	08/21/24 15:55	08/22/24 15:00

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Prep Methods and Prep Dates

Method	Run Date ID
SW846 3005A	27-AUG-2024

Analysis Methods and Analysis Dates

Method	Run Date ID
SW846 3005A/6020B	31-AUG-2024

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4443.

Sincerely,

Alaina Pinnick

Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0005
Chain of Custody: 8
Enclosures

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 682333 GEL Work Order: 682333

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL

J Value is estimated

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Alaina Pinnick.

Reviewed by Alaina Pinnick

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 6, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Arkwright CCR Groundwater Compliance

Client Sample ID:	ARK-ARGWA-5	Project:	GPCC00100
Sample ID:	682333001	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	21-AUG-24 09:40		
Receive Date:	22-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Fe & Mn "As Received"												
Iron	U	ND	0.0330	0.100	mg/L	1.00	1	BAJ	08/31/24	1258	2661581	1
Manganese	J	0.00244	0.00100	0.00500	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	08/27/24	1510	2661580

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 6, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Arkwright CCR Groundwater Compliance

Client Sample ID:	ARK-ARGWA-13	Project:	GPCC00100
Sample ID:	682333002	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	21-AUG-24 11:05		
Receive Date:	22-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Fe & Mn "As Received"												
Iron	U	ND	0.0330	0.100	mg/L	1.00	1	BAJ	08/31/24	1308	2661581	1
Manganese		0.00630	0.00100	0.00500	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	08/27/24	1510	2661580

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 6, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Arkwright CCR Groundwater Compliance

Client Sample ID:	ARK-ARGWC-7	Project:	GPCC00100
Sample ID:	682333003	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	21-AUG-24 16:00		
Receive Date:	22-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Fe & Mn "As Received"												
Iron	U	ND	0.0330	0.100	mg/L	1.00	1	BAJ	08/31/24	1312	2661581	1
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	08/27/24	1510	2661580

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 6, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Arkwright CCR Groundwater Compliance

Client Sample ID:	ARK-ARGWC-8	Project:	GPCC00100
Sample ID:	682333004	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	21-AUG-24 15:30		
Receive Date:	22-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Fe & Mn "As Received"												
Iron	U	ND	0.0330	0.100	mg/L	1.00	1	BAJ	08/31/24	1313	2661581	1
Manganese		0.339	0.00100	0.00500	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	08/27/24	1510	2661580

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 6, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Arkwright CCR Groundwater Compliance

Client Sample ID:	ARK-ARGWC-9	Project:	GPCC00100
Sample ID:	682333005	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	21-AUG-24 13:25		
Receive Date:	22-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Fe & Mn "As Received"												
Iron	U	ND	0.0330	0.100	mg/L	1.00	1	BAJ	08/31/24	1315	2661581	1
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	08/27/24	1510	2661580

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 6, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Arkwright CCR Groundwater Compliance

Client Sample ID:	ARK-ARGWC-10	Project:	GPCC00100
Sample ID:	682333006	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	21-AUG-24 14:25		
Receive Date:	22-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Fe & Mn "As Received"												
Iron	U	ND	0.0330	0.100	mg/L	1.00	1	BAJ	08/31/24	1316	2661581	1
Manganese	J	0.00171	0.00100	0.00500	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	08/27/24	1510	2661580

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 6, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Arkwright CCR Groundwater Compliance

Client Sample ID:	ARK-ARGWC-15	Project:	GPCC00100
Sample ID:	682333007	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	21-AUG-24 11:15		
Receive Date:	22-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Fe & Mn "As Received"												
Iron	U	ND	0.0330	0.100	mg/L	1.00	1	BAJ	08/31/24	1318	2661581	1
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	08/27/24	1510	2661580

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 6, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Arkwright CCR Groundwater Compliance

Client Sample ID:	ARK-ARGWC-16	Project:	GPCC00100
Sample ID:	682333008	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	21-AUG-24 11:25		
Receive Date:	22-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Fe & Mn "As Received"												
Iron	U	ND	0.0330	0.100	mg/L	1.00	1	BAJ	08/31/24	1319	2661581	1
Manganese		0.308	0.00100	0.00500	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	08/27/24	1510	2661580

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 6, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Arkwright CCR Groundwater Compliance

Client Sample ID:	ARK-ARGWC-17	Project:	GPCC00100
Sample ID:	682333009	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	21-AUG-24 13:45		
Receive Date:	22-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Fe & Mn "As Received"												
Manganese		1.32	0.0100	0.0500	mg/L	1.00	10	BAJ	08/31/24	1327	2661581	1
Iron		0.137	0.0330	0.100	mg/L	1.00	1	BAJ	08/31/24	1323	2661581	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	08/27/24	1510	2661580

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	
2	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 6, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Arkwright CCR Groundwater Compliance

Client Sample ID:	ARK-ARGWC-18	Project:	GPCC00100
Sample ID:	682333010	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	21-AUG-24 13:45		
Receive Date:	22-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Fe & Mn "As Received"												
Iron		1.32	0.0330	0.100	mg/L	1.00	1	BAJ	08/31/24	1324	2661581	1
Manganese		0.903	0.00100	0.00500	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	08/27/24	1510	2661580

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 6, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Arkwright CCR Groundwater Compliance

Client Sample ID:	ARK-ARAMW-4	Project:	GPCC00100
Sample ID:	682333011	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	21-AUG-24 15:55		
Receive Date:	22-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Fe & Mn "As Received"												
Iron		1.31	0.0330	0.100	mg/L	1.00	1	BAJ	08/31/24	1326	2661581	1
Manganese		0.547	0.00100	0.00500	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	08/27/24	1510	2661580

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

QC Summary

Report Date: September 6, 2024

Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia

Contact: **Joju Abraham**

Workorder: **682333**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2661581										
QC1205831986 LCS										
Iron	2.00			2.02	mg/L		101	(80%-120%)	BAJ	08/31/24 12:57
Manganese	0.0500			0.0499	mg/L		99.8	(80%-120%)		
QC1205831985 MB										
Iron			U	ND	mg/L					08/31/24 12:55
Manganese			U	ND	mg/L					
QC1205831987 682333001 MS										
Iron	2.00 U	ND		1.97	mg/L		98	(75%-125%)		08/31/24 12:59
Manganese	0.0500 J	0.00244		0.0513	mg/L		97.6	(75%-125%)		
QC1205831988 682333001 MSD										
Iron	2.00 U	ND		2.01	mg/L	2.28	100	(0%-20%)		08/31/24 13:01
Manganese	0.0500 J	0.00244		0.0526	mg/L	2.51	100	(0%-20%)		
QC1205831989 682333001 SDILT										
Iron	U	ND	U	ND	ug/L	N/A		(0%-20%)		08/31/24 13:03
Manganese	J	2.44	U	ND	ug/L	N/A		(0%-20%)		

Notes:

The Qualifiers in this report are defined as follows:

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

J Value is estimated

QC Summary

Workorder: **682333**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
N	Metals--The Matrix spike sample recovery is not within specified control limits
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
E	%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
FB	Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
J	See case narrative for an explanation

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Metals
Technical Case Narrative
Georgia Power Company
SDG #: 682333

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2661581

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2661580

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
682333001	ARK-ARGWA-5
682333002	ARK-ARGWA-13
682333003	ARK-ARGWC-7
682333004	ARK-ARGWC-8
682333005	ARK-ARGWC-9
682333006	ARK-ARGWC-10
682333007	ARK-ARGWC-15
682333008	ARK-ARGWC-16
682333009	ARK-ARGWC-17
682333010	ARK-ARGWC-18
682333011	ARK-ARAMW-4
1205831985	Method Blank (MB)**ICP-MS**
1205831986	Laboratory Control Sample (LCS)
1205831989	682333001(ARK-ARGWA-5L) Serial Dilution (SD)
1205831987	682333001(ARK-ARGWA-5S) Matrix Spike (MS)
1205831988	682333001(ARK-ARGWA-5SD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Sample 682333009 (ARK-ARGWC-17) was diluted to ensure that the analyte concentration was within the linear calibration range of the instrument.

Analyte	682333
	009
Manganese	10X

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Page 1 of 2
Project # 175569434
GEL Quote #:
COC Number [1]: 9 Sample Cooler(s): 6
PO Number: GPC82177-0005

GEL Laboratories LLC
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: **GEL Project Manager: Alaina Pinnick**

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

682333

Client Name: Georgia Power — Phone # (937-344-6533)
Project/Site Name: Plant Arkwright Ash Pond _3_ — Fax: N/A
Address: 241 Ralph McGill Blvd SE, Atlanta, GA 30308
Collected By: Jackson Bankston, Zach Levy, John Myers, Dylan Quintal
Send Results To: jabraham@southernco.com EDD@stantec.com cassidy.sutherland@stantec.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Ag (App. I) (6020B)	NI Metals App. III (B, Ca) (6020B)	Alkalinity (300.0 R2.1) see Additional Remarks	TDS (SM Method 2540C)	Anions (Cl, Fl, Sulfate) (300.0 Rev. 2.1 1993)	NI Metals App. IV (6020B) see Additional Remarks	RAD 226-228 Cmbd	Mercury (7470B)	Metals Al, K, Mg, Na, Fe, Mn (6020B)	NI Fe2+/ Mn2+ (6020B) Field Filtered	SA Nitrate/ Nitrite (EPA Method 353.2)	<-- Preservative Type (6) Comments (task_code: ARK-CCR-ASSMT-2024S2)
ARK-ARGWA-5	08-21-24	0940	N	Y	WG			1										X		
ARK-ARGWA-13	08-21-24	1105	N	Y	WG			1										X		
ARK-ARGWC-7	08-21-24	1600	N	Y	WG			1										X		
ARK-ARGWC-8	08-21-24	1530	N	Y	WG			1										X		
ARK-ARGWC-9	08-21-24	1325	N	Y	WG			1										X		
ARK-ARGWC-10	08-21-24	1425	N	Y	WG			1										X		
ARK-ARGWC-15	08-21-24	1115	N	Y	WG			1										X		
ARK-ARGWC-16	08-21-24	1125	N	Y	WG			1										X		
ARK-ARGWC-17	08-21-24	1345	N	Y	WG			1										X		
ARK-ARGWC-18	08-21-24	1345	N	Y	WG			1										X		

Chain of Custody Signatures

	Relinquished By (Signed)	Print Name	Date	Received by (signed)	Print Name	Date
1		Stantec	8/22/24			8/22/24
2						8/22/2418:25
3						

TAT Requested: Normal: X Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [X] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [X] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: Metals App. IV: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl
Alkalinity: bicarbonate as CaCO3, carbonate as CaCO3, total as CaCO3

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** ____ °C

Sample Collection Time Zone : [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

> ***For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)***

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns.
(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

Page 20 of 33 SS1GG682333

Page 2 of 3 SDG 683333

Page: 2 of 2
Project # 175569434
GEL Quote #:
COC Number [1]: 9 Sample Cooler(s): 6
PO Number: GPC82177-0005

GEL Laboratories LLC
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: ***GEL Project Manager: Alaina Pinnick***

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Georgia Power — Phone # (937-344-6533)

Project/Site Name: Plant Arkwright Ash Pond _3_ — Fax: N/A

Address: 241 Ralph McGill Blvd SE, Atlanta, GA 30308

Collected By: Jackson Bankston, Zach Levy, John Myers, Dylan Quintal

Send Results To: jabraham@southernco.com EDD@stantec.com cassidy.sutherland@stantec.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID ** For composites - indicate start and stop date/time*	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Ag (App. I) (6020B)	NI Metals App. III (B, Ca) (6020B)	Alkalinity (300.0 R2.1) see Additional Remarks	TDS (SM Method 2540C)	Anions (Cl, Fl, Sulfate) (300.0 Rev. 2.1 1993)	NI Metals App. IV (6020B) see Additional Remarks	NI RAD 226-228 Cmbd	NI Mercury (7470B)	NI Metals Al, K, Mg, Na, Fe, Mn (6020B)	NI Fe2+/ Mn2+ (6020B) Field Filtered	SA Nitrate/ Nitrite (EPA Method 353.2)	<-- Preservative Type (6)
ARK-ARAMW-4	08-21-24	1555	N	Y	WG			1										X		

Comments (task_code: ARK-CCR-ASSMT-2024S2)

Chain of Custody Signatures

	Relinquished By (Signed)	Print Name	Date	Received by (signed)	Print Name	Date
1	[signature]	Stantec	8/22/24	[signature]		8/22/24
2				[signature]		8/22/24 1525
3						

TAT Requested: **Normal:** X **Rush:** ____ **Specify:** ____ **(Subject to Surcharge)**

Fax Results: [ ] Yes [X] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [X] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: Metals App. IV: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl
Alkalinity: bicarbonate as CaCO3, carbonate as CaCO3, total as CaCO3

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** 0 °C

> For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)

Sample Collection Time Zone : [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a **- Y -** for yes the sample was field filtered or **- N -** for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* **- 3**, *6010B/7470A* **- 1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns.
(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

Page 1 of 2
Project # 175569434
GEL Quote #:
COC Number [1]: 9 Sample Cooler(s): 6
PO Number: GPC82177-0005

GEL Laboratories LLC
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: **GEL Project Manager: Alaina Pinnick**

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Georgia Power Phone # (937-344-6533)

Project/Site Name: Plant Arkwright Ash Pond _3_ Fax: N/A

Address: 241 Ralph McGill Blvd SE, Atlanta, GA 30308

Collected By: Jackson Bankston, Zach Levy, John Myers, Dylan Quintal

Send Results To: jabraham@southernco.com EDD@stantec.com cassidy.sutherland@stantec.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Ag (App. I) (6020B)	NI Metals App. III (B, Ca) (6020B)	Alkalinity (300.0 R2.1) see Additional Remarks	TDS (SM Method 2540C)	Anions (Cl, Fl, Sulfate) (300.0 Rev. 2.1 1993)	NI Metals App. IV (6020B) see Additional Remarks	RAD 226-228 Cmbd	Mercury (7470B)	Metals Al, K, Mg, Na, Fe, Mn (6020B)	NI Fe2+/ Mn2+ (6020B) Field Filtered	SA Nitrate/ Nitrite (EPA Method 353.2)	<-- Preservative Type (6) Comments (task_code: ARK-CCR-ASSMT-2024S2)
ARK-ARGWA-5	08-21-24	0940	N	Y	WG			1										X		
ARK-ARGWA-13	08-21-24	1105	N	Y	WG			1										X		
ARK-ARGWC-7	08-21-24	1600	N	Y	WG			1										X		
ARK-ARGWC-8	08-21-24	1530	N	Y	WG			1										X		
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ARK-ARGWC-10	08-21-24	1425	N	Y	WG			1										X		
ARK-ARGWC-15	08-21-24	1115	N	Y	WG			1										X		
ARK-ARGWC-16	08-21-24	1125	N	Y	WG			1										X		
ARK-ARGWC-17	08-21-24	1345	N	Y	WG			1										X		
ARK-ARGWC-18	08-21-24	1345	N	Y	WG			1										X		

Chain of Custody Signatures

	Relinquished By (Signed)	Print Name	Date	Received by (signed)	Print Name	Date
1		Stantec	8/22/24			8/22/24
2						8/22/24 1525
3				3		

TAT Requested: **Normal:** X **Rush:** ____ **Specify:** ____ **(Subject to Surcharge)**

Fax Results: [ ] Yes [X] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [X] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: Metals App. IV: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl
Alkalinity: bicarbonate as CaCO3, carbonate as CaCO3, total as CaCO3

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** 0 °C

> ***For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)***

Sample Collection Time Zone : [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

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FL = Flammable/Ignitable
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RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns.
(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

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Page 23 of 33 SDG 660233

Page 2 of 2
Project # 175569434
GEL Quote #:
COC Number (1): 9 Sample Cooler(s): 6
PO Number: GPC82177-0005

GEL Laboratories LLC
gel.com
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: ***GEL Project Manager: Alaina Pinnick***

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Georgia Power — Phone # (937-344-6533)
Project/Site Name: Plant Arkwright Ash Pond _3_ — Fax: N/A
Address: 241 Ralph McGill Blvd SE, Atlanta, GA 30308
Collected By: Jackson Bankston, Zach Levy, John Myers, Dylan Quintal
Send Results To: jabraham@southernco.com EDD@stantec.com cassidy.sutherland@stantec.com

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Ag (App. I) (6020B)	NI Metals App. III (B, Ca) (6020B)	NI Alkalinity (300.0 R2.1) see Additional Remarks	TDS (SM Method 2540C)	Anions (Cl, Fl, Sulfate) (300.0 Rev. 2.1 1993)	NI Metals App. IV (6020B) see Additional Remarks	NI RAD 226-228 Cmbd	NI Mercury (7470B)	NI Metals Al, K, Mg, Na, Fe, Mn (6020B)	NI Fe2+/ Mn2+ (6020B) Field Filtered	SA Nitrate/ Nitrite (EPA Method 353.2)	<-- Preservative Type (6) Comments (task_code: ARK-CCR-ASSMT-2024S2)
ARK-ARAMW-4	08-21-24	1555	N	Y	WG			1										X		

Chain of Custody Signatures

	Relinquished By (Signed)	Print Name	Date	Received by (signed)	Print Name	Date
1		Stantec	8/22/24	1		8/22/24
2				2		8/22/24 1525
3				3		

TAT Requested: **Normal:** X **Rush:** ____ **Specify:** ____ **(Subject to Surcharge)**

Fax Results: [ ] Yes [X] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [X] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: Metals App. IV: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl
Alkalinity: bicarbonate as CaCO3, carbonate as CaCO3, total as CaCO3

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** 0 °C

> ***For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)***

Sample Collection Time Zone : [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

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5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

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Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns.
(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

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Page 1 of 2
Project # 175569434
GEL Quote #:
COC Number [1]: 9 Sample Cooler(s): 6
PO Number: GPC82177-0005

GEL Laboratories LLC
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics
gel.com

Chain of Custody and Analytical Request

GEL Work Order Number: **GEL Project Manager: Alaina Pinnick**

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Georgia Power — Phone # (937-344-6533)
Project/Site Name: Plant Arkwright Ash Pond _3_ — Fax: N/A
Address: 241 Ralph McGill Blvd SE, Atlanta, GA 30308
Collected By: Jackson Bankston, Zach Levy, John Myers, Dylan Quintal — Send Results To: jabraham@southernco.com EDD@stantec.com cassidy.sutherland@stantec.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Ag (App. I) (6020B)	NI Metals App. III (B, Ca) (6020B)	Alkalinity (300.0 R2.1) see Additional Remarks	TDS (SM Method 2540C)	Anions (Cl, Fl, Sulfate) (300.0 Rev. 2.1 1993)	NI Metals App. IV (6020B) see Additional Remarks	NI RAD 226-228 Cmbd	NI Mercury (7470B)	NI Metals Al, K, Mg, Na, Fe, Mn (6020B)	NI Fe2+/ Mn2+ (6020B) Field Filtered	SA Nitrate/ Nitrite (EPA Method 353.2)	<-- Preservative Type (6) Comments (task_code: ARK-CCR-ASSMT-2024S2)
ARK-ARGWA-5	08-21-24	0940	N	Y	WG			1										X		
ARK-ARGWA-13	08-21-24	1105	N	Y	WG			1										X		
ARK-ARGWC-7	08-21-24	1600	N	Y	WG			1										X		
ARK-ARGWC-8	08-21-24	1530	N	Y	WG			1										X		
ARK-ARGWC-9	08-21-24	1325	N	Y	WG			1										X		
ARK-ARGWC-10	08-21-24	1425	N	Y	WG			1										X		
ARK-ARGWC-15	08-21-24	1115	N	Y	WG			1										X		
ARK-ARGWC-16	08-21-24	1125	N	Y	WG			1										X		
ARK-ARGWC-17	08-21-24	1345	N	Y	WG			1										X		
ARK-ARGWC-18	08-21-24	1345	N	Y	WG			1										X		

Chain of Custody Signatures

	Relinquished By (Signed)	Print Name	Date	Received by (signed)	Print Name	Date
1		Stantec	8/21/24			8/22/24
2						8/22/24 1525
3						

TAT Requested: Normal: X Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [X] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [X] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: Metals App. IV: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl
Alkalinity: bicarbonate as CaCO3, carbonate as CaCO3, total as CaCO3

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] Yes [ ] No **Cooler Temp:** 1 °C

> ***For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)***

Sample Collection Time Zone : [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

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5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

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TSCA Regulated
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LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns.
(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

Page 2 of 2
Project # 175569434
GEL Quote #:
COC Number [1]: 9 Sample Cooler(s): 6
PO Number: GPC82177-0005

GEL Laboratories LLC
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: **GEL Project Manager: Alaina Pinnick**

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Georgia Power Phone # (937-344-6533)
Project/Site Name: Plant Arkwright Ash Pond _3_ Fax: N/A
Address: 241 Ralph McGill Blvd SE, Atlanta, GA 30308
Collected By: Jackson Bankston, Zach Levy, John Myer, Dylan Quintal
Send Results To: jabraham@southernco.com EDD@stantec.com cassidy.sutherland@stantec.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Ag (App. I) (6020B)	NI Metals App. III (B, Ca) (6020B)	Alkalinity (300.0 R2.1) see Additional Remarks	TDS (SM Method 2540C)	Anions (Cl, Fl, Sulfate) (300.0 Rev. 2.1 1993)	NI Metals App. IV (6020B) see Additional Remarks	NI RAD 226-228 Cmbd	NI Mercury (7470B)	NI Metals Al, K, Mg, Na, Fe, Mn (6020B)	NI Fe2+/ Mn2+ (6020B) Field Filtered	SA Nitrate/ Nitrite (EPA Method 353.2)	<-- Preservative Type (6)
ARK-ARAMW-4	08-21-24	1555	N	Y	WG			1										X		

Comments (task_code: ARK-CCR-ASSMT-2024S2)

Chain of Custody Signatures

	Relinquished By (Signed)	Print Name	Date	Received by (signed)	Print Name	Date
1		Stantec	8/22/24			8/22/24
2						8/22/24 1525
3				3		

TAT Requested: **Normal:** X **Rush:** ____ **Specify:** ____ **(Subject to Surcharge)**

Fax Results: [ ] Yes [X] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [X] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: Metals App. IV: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl
Alkalinity: bicarbonate as CaCO3, carbonate as CaCO3, total as CaCO3

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** ____ °C

> ***For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)***

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Page 1 of 2
Project # 175569434
GEL Quote #:
COC Number [1]: 9 Sample Cooler(s): 6
PO Number: GPC82177-0005

GEL Laboratories LLC
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

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Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

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Address: 241 Ralph McGill Blvd SE, Atlanta, GA 30308
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Send Results To: jabraham@southernco.com EDD@stantec.com cassidy.sutherland@stantec.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Ag (App. I) (6020B)	NI Metals App. III (B, Ca) (6020B)	NI Alkalinity (300.0 R2.1) see Additional Remarks	TDS (SM Method 2540C)	Anions (Cl, Fl, Sulfate) (300.0 Rev. 2.1 1993)	NI Metals App. IV (6020B) see Additional Remarks	NI RAD 226-228 Cmbd	NI Mercury (7470B)	NI Metals Al, K, Mg, Na, Fe, Mn (6020B)	NI Fe2+/ Mn2+ (6020B) Field Filtered	SA Nitrate/ Nitrite (EPA Method 353.2)	<-- Preservative Type (6) Comments (task_code: ARK-CCR-ASSMT-2024S2)
ARK-ARGWA-5	08-21-24	0940	N	Y	WG			1										X		
ARK-ARGWA-13	08-21-24	1105	N	Y	WG			1										X		
ARK-ARGWC-7	08-21-24	1600	N	Y	WG			1										X		
ARK-ARGWC-8	08-21-24	1530	N	Y	WG			1										X		
ARK-ARGWC-9	08-21-24	1325	N	Y	WG			1										X		
ARK-ARGWC-10	08-21-24	1425	N	Y	WG			1										X		
ARK-ARGWC-15	08-21-24	1115	N	Y	WG			1										X		
ARK-ARGWC-16	08-21-24	1125	N	Y	WG			1										X		
ARK-ARGWC-17	08-21-24	1345	N	Y	WG			1										X		
ARK-ARGWC-18	08-21-24	1345	N	Y	WG			1										X		

Chain of Custody Signatures

	Relinquished By (Signed)	Print Name	Date	Received by (signed)	Print Name	Date
1		Stantec	8/22/24			8/22/24
2						8/22/24 1525
3						

TAT Requested: **Normal:** X **Rush:** ____ **Specify:** ____ **(Subject to Surcharge)**

Fax Results: [ ] Yes [X] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [X] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: Metals App. IV: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl
Alkalinity: bicarbonate as CaCO3, carbonate as CaCO3, total as CaCO3

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** ____ °C

> ***For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)***

Sample Collection Time Zone : [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns.
(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

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Page 2 of 2
Project # 175569434
GEL Quote #:
COC Number [1]: 9 Sample Cooler(s): 6
PO Number: GPC82177-0005

GEL Laboratories LLC
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: ***GEL Project Manager: Alaina Pinnick***

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Georgia Power Phone # (937-344-6533)

Project/Site Name: Plant Arkwright Ash Pond _3_ Fax: N/A

Address: 241 Ralph McGill Blvd SE, Atlanta, GA 30308

Collected By: Jackson Bankston, Zach Levy, John Myer, Dylan Quintal

Send Results To: jabraham@southernco.com EDD@stantec.com cassidy.sutherland@stantec.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Ag (App. I) (6020B)	NI Metals App. III (B, Ca) (6020B)	Alkalinity (300.0 R2.1) see Additional Remarks	TDS (SM Method 2540C)	Anions (Cl, Fl, Sulfate) (300.0 Rev. 2.1 1993)	NI Metals App. IV (6020B) see Additional Remarks	NI RAD 226-228 Cmbd	NI Mercury (7470B)	NI Metals Al, K, Mg, Na, Fe, Mn (6020B)	NI Fe2+/ Mn2+ (6020B) Field Filtered	SA Nitrate/ Nitrite (EPA Method 353.2)	<-- Preservative Type (6) Comments (task_code: ARK-CCR-ASSMT-2024S2)
ARK-ARAMW-4	08-21-24	1555	N	Y	WG			1										X		

Chain of Custody Signatures

	Relinquished By (Signed)	Print Name	Date	Received by (signed)	Print Name	Date
1		Stantec	8/22/24			8/22/24
2						8/22/24 1525
3						

TAT Requested: **Normal:** X **Rush:** ____ **Specify:** ____ **(Subject to Surcharge)**

Fax Results: [ ] Yes [X] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [X] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: Metals App. IV: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl
Alkalinity: bicarbonate as CaCO3, carbonate as CaCO3, total as CaCO3

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** 0 °C

> ***For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)***

Sample Collection Time Zone : [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
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Cr = Chromium **MR**= Misc. RCRA metals
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Characteristic Hazards
FL = Flammable/Ignitable
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TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns.
(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

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Page 1 of 2 | Project # 175569434 | GEL Quote #: | COC Number (1): 9 Sample Cooler(s): 6 | PO Number: GPC82177-0005

GEL Laboratories LLC

gel.com | Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: 682333 **GEL Project Manager: Alaina Pinnick**

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

682333

Page 1 of 2 682333 SDG 682333

Client Name: Georgia Power | Phone # (937-344-6533)

Project/Site Name: Plant Arkwright Ash Pond _3_ | Fax: N/A

Address: 241 Ralph McGill Blvd SE, Atlanta, GA 30308

Collected By: Jackson Bankston, Zach Levy, John Myer, Dylan Quintal | Send Results To: jabraham@southernco.com EDD@stantec.com cassidy.sutherland@stantec.com

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Ag (App. I) (6020B)	NI Metals App. III (B, Ca) (6020B)	Alkalinity (300.0 R2.1) see Additional Remarks	TDS (SM Method 2540C)	Anions (Cl, Fl, Sulfate) (300.0 Rev. 2.1 1993)	NI Metals App. IV (6020B) see Additional Remarks	NI RAD 226-228 Cmbd	NI Mercury (7470B)	NI Metals Al, K, Mg, Na, Fe, Mn (6020B)	NI Fe2+/Mn2+ (6020B) Field Filtered	SA Nitrate/ Nitrite (EPA Method 353.2)	<-- Preservative Type (6) Comments (task_code: ARK-CCR-ASSMT-2024S2)
ARK-ARGWA-5	08-21-24	0940	N	Y	WG			1										X		
ARK-ARGWA-13	08-21-24	1105	N	Y	WG			1										X		
ARK-ARGWC-7	08-21-24	1600	N	Y	WG			1										X		
ARK-ARGWC-8	08-21-24	1530	N	Y	WG			1										X		
ARK-ARGWC-9	08-21-24	1325	N	Y	WG			1										X		
ARK-ARGWC-10	08-21-24	1425	N	Y	WG			1										X		
ARK-ARGWC-15	08-21-24	1115	N	Y	WG			1										X		
ARK-ARGWC-16	08-21-24	1125	N	Y	WG			1										X		
ARK-ARGWC-17	08-21-24	1345	N	Y	WG			1										X		
ARK-ARGWC-18	08-21-24	1345	N	Y	WG			1										X		

Chain of Custody Signatures

	Relinquished By (Signed)	Print Name	Date	Received by (signed)	Print Name	Date
1		Stantec	8/22/24	1		8/22/24
2				2		8/22/24 1525
3				3		

TAT Requested: Normal: X Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [X] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [X] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: Metals App. IV: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl
Alkalinity: bicarbonate as CaCO3, carbonate as CaCO3, total as CaCO3

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] Yes [ ] No ***Cooler Temp:*** ____ °C

> ***For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)***

Sample Collection Time Zone : [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

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6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

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FL = Flammable/Ignitable
CO = Corrosive
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TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns.
(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

Page: 2 of 2
Project # 175569434
GEL Quote #:
COC Number [1]: 9 Sample Cooler(s): 6
PO Number: GPC82177-0005

GEL Laboratories LLC
gel.com | Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: **GEL Project Manager: Alaina Pinnick**

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Georgia Power Phone # (937-344-6533)

Project/Site Name: Plant Arkwright Ash Pond _3_ Fax: N/A

Address: 241 Ralph McGill Blvd SE, Atlanta, GA 30308

Collected By: Jackson Bankston, Zach Levy, John Myer, Dylan Quintal

Send Results To: jabraham@southernco.com EDD@stantec.com cassidy.sutherland@stantec.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Ag (App. I) (6020B)	NI Metals App. III (B, Ca) (6020B)	Alkalinity (300.0 R2.1) see Additional Remarks	TDS (SM Method 2540C)	Anions (Cl, Fl, Sulfate) (300.0 Rev. 2.1 1993)	NI Metals App. IV (6020B) see Additional Remarks	NI RAD 226-228 Cmbd	NI Mercury (7470B)	NI Metals Al, K, Mg, Na, Fe, Mn (6020B)	NI Fe2+/ Mn2+ (6020B) Field Filtered	SA Nitrate/ Nitrite (EPA Method 353.2)	<-- Preservative Type (6)
ARK-ARAMW-4	08-21-24	1555	N	Y	WG			1										X		

Comments (task_code: ARK-CCR-ASSMT-2024S2)

Chain of Custody Signatures

	Relinquished By (Signed)	Print Name	Date	Received by (signed)	Print Name	Date
1		Stantec	8/22/24	1		8/22/24
2				2		8/22/24 1525
3				3		

TAT Requested: Normal: X Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [X] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [X] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: Metals App. IV: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl
Alkalinity: bicarbonate as CaCO3, carbonate as CaCO3, total as CaCO3

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** ____ °C

> ***For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)***

Sample Collection Time Zone : [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

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FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns.
(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

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Page 30 of 33 SDG 608233

Page 1 of 2
Project # 175569434
GEL Quote #:
COC Number [1]: 9 Sample Cooler(s): 6
PO Number: GPC82177-0005

GEL Laboratories LLC
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: **GEL Project Manager: Alaina Pinnick**

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Georgia Power Phone # (937-344-6533)

Project/Site Name: Plant Arkwright Ash Pond _3_ Fax: N/A

Address: 241 Ralph McGill Blvd SE, Atlanta, GA 30308

Collected By: Jackson Bankston, Zach Levy, John Myers, Dylan Quintal

Send Results To: jabraham@southernco.com EDD@stantec.com cassidy.sutherland@stantec.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Ag (App. I) (6020B)	NI Metals App. III (B, Ca) (6020B)	NI Alkalinity (300.0 R2.1) see Additional Remarks	TDS (SM Method 2540C)	Anions (Cl, Fl, Sulfate) (300.0 Rev. 2.1 1993)	NI Metals App. IV (6020B) see Additional Remarks	NI RAD 226-228 Cmbd	NI Mercury (7470B)	NI Metals Al, K, Mg, Na, Fe, Mn (6020B)	NI Fe2+/ Mn2+ (6020B) Field Filtered	SA Nitrate/ Nitrite (EPA Method 353.2)	<-- Preservative Type (6) Comments (task_code: ARK-CCR-ASSMT-2024S2)
ARK-ARGWA-5	08-21-24	0940	N	Y	WG			1										X		
ARK-ARGWA-13	08-21-24	1105	N	Y	WG			1										X		
ARK-ARGWC-7	08-21-24	1600	N	Y	WG			1										X		
ARK-ARGWC-8	08-21-24	1530	N	Y	WG			1										X		
ARK-ARGWC-9	08-21-24	1325	N	Y	WG			1										X		
ARK-ARGWC-10	08-21-24	1425	N	Y	WG			1										X		
ARK-ARGWC-15	08-21-24	1115	N	Y	WG			1										X		
ARK-ARGWC-16	08-21-24	1125	N	Y	WG			1										X		
ARK-ARGWC-17	08-21-24	1345	N	Y	WG			1										X		
ARK-ARGWC-18	08-21-24	1345	N	Y	WG			1										X		

Chain of Custody Signatures

	Relinquished By (Signed)	Print Name	Date	Received by (signed)	Print Name	Date
1		Stantec	8/22/24			8/22/24
2						8/22/24 1525
3						

TAT Requested: **Normal:** X **Rush:** ____ **Specify:** ____ **(Subject to Surcharge)**

Fax Results: [ ] Yes [X] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [X] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: Metals App. IV: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl
Alkalinity: bicarbonate as CaCO3, carbonate as CaCO3, total as CaCO3

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] Yes [ ] No ***Cooler Temp:*** ____ °C

> For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)

Sample Collection Time Zone : [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

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FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns.
(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

Page 2 of 2
Project # 175569434
GEL Quote #:
COC Number [1]: 9 Sample Cooler(s): 6
PO Number: GPC82177-0005

GEL Laboratories LLC
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: **GEL Project Manager: Alaina Pinnick**

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Georgia Power Phone # (937-344-6533)
Project/Site Name: Plant Arkwright Ash Pond _3_ Fax: N/A
Address: 241 Ralph McGill Blvd SE, Atlanta, GA 30308
Collected By: Jackson Bankston, Zach Levy, John Myer, Dylan Quintal
Send Results To: jabraham@southernco.com EDD@stantec.com cassidy.sutherland@stantec.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Ag (App. I) (6020B)	NI Metals App. III (B, Ca) (6020B)	Alkalinity (300.0 R2.1) see Additional Remarks	TDS (SM Method 2540C)	Anions (Cl, Fl, Sulfate) (300.0 Rev. 2.1 1993)	NI Metals App. IV (6020B) see Additional Remarks	NI RAD 226-228 Cmbd	NI Mercury (7470B)	NI Metals Al, K, Mg, Na, Fe, Mn (6020B)	NI Fe2+/ Mn2+ (6020B) Field Filtered	SA Nitrate/ Nitrite (EPA Method 353.2)	<-- Preservative Type (6) Comments (task_code: ARK-CCR-ASSMT-2024S2)
ARK-ARAMW-4	08-21-24	1555	N	Y	WG			1										X		

Chain of Custody Signatures

Relinquished By (Signed)	Print Name	Date	Received by (signed)	Print Name	Date
1	Stantec	8/22/24	1		8/22/24
2			2		8/22/24 1525
3			3		

TAT Requested: Normal: X Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [X] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [X] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: Metals App. IV: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl
Alkalinity: bicarbonate as CaCO3, carbonate as CaCO3, total as CaCO3

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] Yes [ ] No ***Cooler Temp:*** ____ °C

> ***For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)***

Sample Collection Time Zone : [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns.
(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

Page 21 of 33 SDG 680333

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

682333

Client: GPCC	**SDG/AR/COC/Work Order:**
Received By: QG	**Date Received:** 8/22/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other n/a

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM / mR/Hr **Classified as: Rad 1 Rad 2 Rad 3**
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	**Comments/Qualifiers (Required for Non-Conforming Items)**
1	Shipping containers received intact and sealed?			✓	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?			✓	Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*			✓	Preservation Method: Wet Ice Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius **TEMP:**_____
4	Daily check performed and passed on IR temperature gun?	✓			**Temperature Device Serial #:** IR1-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?			✓	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?		✓		Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?			✓	ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?			✓	ID's and containers affected:
10	Date & time on COC match date & time on bottles?		✓		Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?			✓	Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?			✓	
13	COC form is properly signed in relinquished/received sections?			✓	Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

Cooler 1- 0°c
2- 0°c
3- 1°c
4- 0°c
5- 0°c
6- 0°c
7- 1°c
8- 0°c

PM (or PMA) review: Initials HB Date 8/23/24 Page 1 of 1

List of current GEL Certifications as of 06 September 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-41
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

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

August 20, 2024

Kelley Sharpe
ARCADIS - Atlanta
2839 Paces Ferry Rd
STE 900
Atlanta, GA 30339

RE: Project: Plant Arkwright-CCR Ash Pond
Pace Project No.: 92747274

Dear Kelley Sharpe:

Enclosed are the analytical results for sample(s) received by the laboratory on August 13, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Asheville
- Pace Analytical Services - Peachtree Corners, GA

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

Sincerely,

Maiya Parks
maiya.parks@pacelabs.com
770-734-4205
Project Manager

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Jordan Gamble, ARCADIS - Atlanta
Ben Hodges, Southern Company
Priya Jacob, ARCADIS - Atlanta
Jennifer Kolbe, Stantec Consulting
Laura Midkiff, Southern Company
Noelia Muskus Ruiz, Georgia Power
Tina Sullivan, ERM

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CERTIFICATIONS

Project: Plant Arkwright-CCR Ash Pond
Pace Project No.: 92747274

Pace Analytical Services Asheville
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners
110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
North Carolina Certification #: 381
South Carolina Certification #: 98011001
Virginia Certification #: 460204

REPORT OF LABORATORY ANALYSIS

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Peachtree Corners, GA 30092
(770)734-4200

SAMPLE SUMMARY

Project: Plant Arkwright-CCR Ash Pond
Pace Project No.: 92747274

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92747274001	**ARK-BT-1.6**	Water	08/12/24 09:05	08/13/24 13:25
92747274002	**ARK-BT-1.1**	Water	08/12/24 09:36	08/13/24 13:25
92747274003	**ARK-BT-1.2**	Water	08/12/24 09:28	08/13/24 13:25
92747274004	**ARK-BT-1.3**	Water	08/12/24 09:18	08/13/24 13:25
92747274005	**ARK-BT-1.0**	Water	08/12/24 09:44	08/13/24 13:25
92747274006	**ARK-BC-0.8b**	Water	08/12/24 11:41	08/13/24 13:25

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SAMPLE ANALYTE COUNT

Project: Plant Arkwright-CCR Ash Pond
Pace Project No.: 92747274

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92747274001	**ARK-BT-1.6**	EPA 6010D	AJM	5	PASI-GA
		EPA 6020B	CW1	1	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B-2011	SMS	2	PASI-A
		EPA 9056A	CDC	3	PASI-A
92747274002	**ARK-BT-1.1**	EPA 6010D	AJM	5	PASI-GA
		EPA 6020B	CW1	1	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B-2011	SMS	2	PASI-A
		EPA 9056A	CDC	3	PASI-A
92747274003	**ARK-BT-1.2**	EPA 6010D	AJM	5	PASI-GA
		EPA 6020B	CW1	1	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B-2011	SMS	2	PASI-A
		EPA 9056A	CDC	3	PASI-A
92747274004	**ARK-BT-1.3**	EPA 6010D	AJM	5	PASI-GA
		EPA 6020B	CW1	1	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B-2011	SMS	2	PASI-A
		EPA 9056A	CDC	3	PASI-A
92747274005	**ARK-BT-1.0**	EPA 6010D	AJM	5	PASI-GA
		EPA 6020B	CW1	1	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B-2011	SMS	2	PASI-A
		EPA 9056A	CDC	3	PASI-A
92747274006	**ARK-BC-0.8b**	EPA 6010D	AJM	5	PASI-GA
		EPA 6020B	CW1	1	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B-2011	SMS	2	PASI-A
		EPA 9056A	CDC	3	PASI-A

PASI-A = Pace Analytical Services - Asheville
PASI-GA = Pace Analytical Services - Peachtree Corners, GA

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(770)734-4200

ANALYTICAL RESULTS

Project: Plant Arkwright-CCR Ash Pond
Pace Project No.: 92747274

Sample: ARK-BT-1.6 **Lab ID: 92747274001** Collected: 08/12/24 09:05 Received: 08/13/24 13:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Boron	ND	mg/L	0.040	1	08/15/24 16:46	08/19/24 15:01	7440-42-8	
Potassium	**1.8**	mg/L	0.50	1	08/15/24 16:46	08/19/24 15:01	7440-09-7	
Sodium	**5.7**	mg/L	1.0	1	08/15/24 16:46	08/19/24 15:01	7440-23-5	
Calcium	**8.8**	mg/L	1.0	1	08/15/24 16:46	08/19/24 15:01	7440-70-2	
Magnesium	**4.9**	mg/L	0.050	1	08/15/24 16:46	08/19/24 15:01	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Cobalt	ND	mg/L	0.0050	1	08/14/24 09:52	08/14/24 17:09	7440-48-4	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA							
Total Dissolved Solids	**208**	mg/L	25.0	1		08/16/24 14:11		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville							
Alkalinity,Bicarbonate (CaCO3)	**48.6**	mg/L	5.0	1		08/14/24 18:22		
Alkalinity, Total as CaCO3	**48.6**	mg/L	5.0	1		08/14/24 18:22		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville							
Chloride	**5.5**	mg/L	1.0	1		08/14/24 17:09	16887-00-6	
Fluoride	ND	mg/L	0.10	1		08/14/24 17:09	16984-48-8	
Sulfate	**2.3**	mg/L	1.0	1		08/14/24 17:09	14808-79-8	

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(770)734-4200

ANALYTICAL RESULTS

Project: Plant Arkwright-CCR Ash Pond
Pace Project No.: 92747274

Sample: ARK-BT-1.1 **Lab ID: 92747274002** Collected: 08/12/24 09:36 Received: 08/13/24 13:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Boron	ND	mg/L	0.040	1	08/15/24 16:46	08/19/24 15:04	7440-42-8	
Potassium	ND	mg/L	0.50	1	08/15/24 16:46	08/19/24 15:04	7440-09-7	
Sodium	**6.0**	mg/L	1.0	1	08/15/24 16:46	08/19/24 15:04	7440-23-5	
Calcium	**9.8**	mg/L	1.0	1	08/15/24 16:46	08/19/24 15:04	7440-70-2	
Magnesium	**5.8**	mg/L	0.050	1	08/15/24 16:46	08/19/24 15:04	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Cobalt	ND	mg/L	0.0050	1	08/14/24 09:52	08/14/24 17:33	7440-48-4	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA							
Total Dissolved Solids	**122**	mg/L	25.0	1		08/16/24 14:12		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville							
Alkalinity,Bicarbonate (CaCO3)	**54.1**	mg/L	5.0	1		08/14/24 18:28		
Alkalinity, Total as CaCO3	**54.1**	mg/L	5.0	1		08/14/24 18:28		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville							
Chloride	**3.9**	mg/L	1.0	1		08/14/24 17:23	16887-00-6	
Fluoride	ND	mg/L	0.10	1		08/14/24 17:23	16984-48-8	
Sulfate	**3.3**	mg/L	1.0	1		08/14/24 17:23	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Arkwright-CCR Ash Pond
Pace Project No.: 92747274

Sample: ARK-BT-1.2 **Lab ID: 92747274003** Collected: 08/12/24 09:28 Received: 08/13/24 13:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Boron	ND	mg/L	0.040	1	08/15/24 16:46	08/19/24 15:08	7440-42-8	
Potassium	ND	mg/L	0.50	1	08/15/24 16:46	08/19/24 15:08	7440-09-7	
Sodium	**6.2**	mg/L	1.0	1	08/15/24 16:46	08/19/24 15:08	7440-23-5	
Calcium	**10.4**	mg/L	1.0	1	08/15/24 16:46	08/19/24 15:08	7440-70-2	
Magnesium	**6.3**	mg/L	0.050	1	08/15/24 16:46	08/19/24 15:08	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Cobalt	ND	mg/L	0.0050	1	08/14/24 09:52	08/14/24 17:37	7440-48-4	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA							
Total Dissolved Solids	**89.0**	mg/L	25.0	1		08/16/24 14:12		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville							
Alkalinity,Bicarbonate (CaCO3)	**59.7**	mg/L	5.0	1		08/14/24 18:44		
Alkalinity, Total as CaCO3	**59.7**	mg/L	5.0	1		08/14/24 18:44		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville							
Chloride	**4.1**	mg/L	1.0	1		08/14/24 17:37	16887-00-6	
Fluoride	ND	mg/L	0.10	1		08/14/24 17:37	16984-48-8	
Sulfate	**2.3**	mg/L	1.0	1		08/14/24 17:37	14808-79-8	

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

ANALYTICAL RESULTS

Project: Plant Arkwright-CCR Ash Pond
Pace Project No.: 92747274

Sample: ARK-BT-1.3 **Lab ID: 92747274004** Collected: 08/12/24 09:18 Received: 08/13/24 13:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Boron	ND	mg/L	0.040	1	08/15/24 16:46	08/19/24 15:20	7440-42-8	
Potassium	**0.79**	mg/L	0.50	1	08/15/24 16:46	08/19/24 15:20	7440-09-7	
Sodium	**6.4**	mg/L	1.0	1	08/15/24 16:46	08/19/24 15:20	7440-23-5	
Calcium	**10.4**	mg/L	1.0	1	08/15/24 16:46	08/19/24 15:20	7440-70-2	
Magnesium	**6.3**	mg/L	0.050	1	08/15/24 16:46	08/19/24 15:20	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Cobalt	ND	mg/L	0.0050	1	08/14/24 09:52	08/14/24 17:41	7440-48-4	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA							
Total Dissolved Solids	**100**	mg/L	25.0	1		08/16/24 14:12		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville							
Alkalinity,Bicarbonate (CaCO3)	**58.6**	mg/L	5.0	1		08/14/24 18:50		
Alkalinity, Total as CaCO3	**58.6**	mg/L	5.0	1		08/14/24 18:50		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville							
Chloride	**4.3**	mg/L	1.0	1		08/14/24 18:19	16887-00-6	
Fluoride	ND	mg/L	0.10	1		08/14/24 18:19	16984-48-8	
Sulfate	**2.5**	mg/L	1.0	1		08/14/24 18:19	14808-79-8	

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(770)734-4200

ANALYTICAL RESULTS

Project: Plant Arkwright-CCR Ash Pond
Pace Project No.: 92747274

Sample: ARK-BT-1.0 **Lab ID: 92747274005** Collected: 08/12/24 09:44 Received: 08/13/24 13:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Boron	ND	mg/L	0.040	1	08/15/24 16:46	08/19/24 15:23	7440-42-8	
Potassium	**0.88**	mg/L	0.50	1	08/15/24 16:46	08/19/24 15:23	7440-09-7	
Sodium	**5.6**	mg/L	1.0	1	08/15/24 16:46	08/19/24 15:23	7440-23-5	
Calcium	**5.9**	mg/L	1.0	1	08/15/24 16:46	08/19/24 15:23	7440-70-2	
Magnesium	**4.9**	mg/L	0.050	1	08/15/24 16:46	08/19/24 15:23	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Cobalt	ND	mg/L	0.0050	1	08/14/24 09:52	08/14/24 17:45	7440-48-4	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA							
Total Dissolved Solids	**90.0**	mg/L	25.0	1		08/16/24 14:13		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville							
Alkalinity,Bicarbonate (CaCO3)	**37.5**	mg/L	5.0	1		08/14/24 18:57		
Alkalinity, Total as CaCO3	**37.5**	mg/L	5.0	1		08/14/24 18:57		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville							
Chloride	**3.7**	mg/L	1.0	1		08/14/24 18:33	16887-00-6	
Fluoride	ND	mg/L	0.10	1		08/14/24 18:33	16984-48-8	
Sulfate	**5.1**	mg/L	1.0	1		08/14/24 18:33	14808-79-8	

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Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Arkwright-CCR Ash Pond
Pace Project No.: 92747274

Sample: ARK-BC-0.8b **Lab ID: 92747274006** Collected: 08/12/24 11:41 Received: 08/13/24 13:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Boron	ND	mg/L	0.040	1	08/15/24 16:46	08/19/24 15:27	7440-42-8	
Potassium	**2.3**	mg/L	0.50	1	08/15/24 16:46	08/19/24 15:27	7440-09-7	
Sodium	**8.7**	mg/L	1.0	1	08/15/24 16:46	08/19/24 15:27	7440-23-5	
Calcium	**11.0**	mg/L	1.0	1	08/15/24 16:46	08/19/24 15:27	7440-70-2	
Magnesium	**4.7**	mg/L	0.050	1	08/15/24 16:46	08/19/24 15:27	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Cobalt	ND	mg/L	0.0050	1	08/14/24 09:52	08/14/24 17:53	7440-48-4	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA							
Total Dissolved Solids	**118**	mg/L	25.0	1		08/16/24 14:13		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville							
Alkalinity,Bicarbonate (CaCO3)	**54.7**	mg/L	5.0	1		08/14/24 19:03		
Alkalinity, Total as CaCO3	**54.7**	mg/L	5.0	1		08/14/24 19:03		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville							
Chloride	**7.7**	mg/L	1.0	1		08/14/24 18:47	16887-00-6	
Fluoride	ND	mg/L	0.10	1		08/14/24 18:47	16984-48-8	
Sulfate	**4.2**	mg/L	1.0	1		08/14/24 18:47	14808-79-8	

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QUALITY CONTROL DATA

Project: Plant Arkwright-CCR Ash Pond
Pace Project No.: 92747274

QC Batch: 875955
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92747274001, 92747274002, 92747274003, 92747274004, 92747274005, 92747274006

METHOD BLANK: 4512090 Matrix: Water
Associated Lab Samples: 92747274001, 92747274002, 92747274003, 92747274004, 92747274005, 92747274006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron	mg/L	ND	0.040	08/19/24 13:54	
Calcium	mg/L	ND	1.0	08/19/24 13:54	
Magnesium	mg/L	ND	0.050	08/19/24 13:54	
Potassium	mg/L	ND	0.50	08/19/24 13:54	
Sodium	mg/L	ND	1.0	08/19/24 13:54	

LABORATORY CONTROL SAMPLE: 4512091

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	1	1.0	101	80-120	
Calcium	mg/L	1	1.0	105	80-120	
Magnesium	mg/L	1	1.0	104	80-120	
Potassium	mg/L	1	1.1	107	80-120	
Sodium	mg/L	1	1.1	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4512092 4512093

Parameter	Units	92747247001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	mg/L	ND	1	1	1.1	1.1	105	103	75-125	2	20	
Calcium	mg/L	11.5	1	1	13.1	13.1	155	159	75-125	0	20	M1
Magnesium	mg/L	4.9	1	1	6.1	6.2	118	126	75-125	1	20	M1
Potassium	mg/L	2.3	1	1	3.5	3.5	113	112	75-125	0	20	
Sodium	mg/L	8.5	1	1	9.7	9.8	126	134	75-125	1	20	M1

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QUALITY CONTROL DATA

Project: Plant Arkwright-CCR Ash Pond
Pace Project No.: 92747274

QC Batch: 875521
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92747274001, 92747274002, 92747274003, 92747274004, 92747274005, 92747274006

METHOD BLANK: 4509771 Matrix: Water
Associated Lab Samples: 92747274001, 92747274002, 92747274003, 92747274004, 92747274005, 92747274006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cobalt	mg/L	ND	0.0050	08/14/24 15:37	

LABORATORY CONTROL SAMPLE: 4509772

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cobalt	mg/L	0.1	0.10	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4509773 4509774

Parameter	Units	92746959001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cobalt	mg/L	ND	0.1	0.1	0.10	0.097	102	97	75-125	4	20	

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QUALITY CONTROL DATA

Project: Plant Arkwright-CCR Ash Pond
Pace Project No.: 92747274

QC Batch: 876190
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92747274001, 92747274002, 92747274003, 92747274004, 92747274005, 92747274006

METHOD BLANK: 4513596 Matrix: Water
Associated Lab Samples: 92747274001, 92747274002, 92747274003, 92747274004, 92747274005, 92747274006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	08/16/24 14:10	

LABORATORY CONTROL SAMPLE: 4513597

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	415	104	80-120	

SAMPLE DUPLICATE: 4513598

Parameter	Units	92747267003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	141	141	0	10	

SAMPLE DUPLICATE: 4513599

Parameter	Units	92747305002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	93.0	87.0	7	10	

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QUALITY CONTROL DATA

Project: Plant Arkwright-CCR Ash Pond
Pace Project No.: 92747274

QC Batch: 875570
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92747274001, 92747274002, 92747274003, 92747274004, 92747274005, 92747274006

METHOD BLANK: 4509947 Matrix: Water
Associated Lab Samples: 92747274001, 92747274002, 92747274003, 92747274004, 92747274005, 92747274006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	08/14/24 16:17	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	08/14/24 16:17	

LABORATORY CONTROL SAMPLE: 4509948

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	52.4	105	80-120	

LABORATORY CONTROL SAMPLE: 4509949

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	53.6	107	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4509950 4509951

Parameter	Units	92747247001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	55.7	50	50	106	107	101	103	80-120	1	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4509952 4509953

Parameter	Units	92747247002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	59.3	50	50	108	110	98	101	80-120	1	25	

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QUALITY CONTROL DATA

Project: Plant Arkwright-CCR Ash Pond
Pace Project No.: 92747274

QC Batch: 875472
QC Batch Method: EPA 9056A
Analysis Method: EPA 9056A
Analysis Description: 9056 IC anions 28 Days
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92747274001, 92747274002, 92747274003, 92747274004, 92747274005, 92747274006

METHOD BLANK: 4509648 Matrix: Water
Associated Lab Samples: 92747274001, 92747274002, 92747274003, 92747274004, 92747274005, 92747274006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	08/14/24 12:44	
Fluoride	mg/L	ND	0.10	08/14/24 12:44	
Sulfate	mg/L	ND	1.0	08/14/24 12:44	

LABORATORY CONTROL SAMPLE: 4509649

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.7	101	90-110	
Fluoride	mg/L	2.5	2.6	103	90-110	
Sulfate	mg/L	50	51.1	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4509650 4509651

Parameter	Units	92747247001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	7.5	50	50	58.2	59.1	101	103	90-110	2	10	
Fluoride	mg/L	ND	2.5	2.5	2.6	2.7	101	103	90-110	2	10	
Sulfate	mg/L	7.6	50	50	58.6	59.6	102	104	90-110	2	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4509652 4509653

Parameter	Units	92747267005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	7.6	50	50	58.0	58.6	101	102	90-110	1	10	
Fluoride	mg/L	ND	2.5	2.5	2.6	2.6	101	102	90-110	1	10	
Sulfate	mg/L	7.5	50	50	58.4	58.9	102	103	90-110	1	10	

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QUALIFIERS

Project: Plant Arkwright-CCR Ash Pond
Pace Project No.: 92747274

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

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

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

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

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Arkwright-CCR Ash Pond
Pace Project No.: 92747274

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92747274001	**ARK-BT-1.6**	EPA 3010A	875955	EPA 6010D	876037
92747274002	**ARK-BT-1.1**	EPA 3010A	875955	EPA 6010D	876037
92747274003	**ARK-BT-1.2**	EPA 3010A	875955	EPA 6010D	876037
92747274004	**ARK-BT-1.3**	EPA 3010A	875955	EPA 6010D	876037
92747274005	**ARK-BT-1.0**	EPA 3010A	875955	EPA 6010D	876037
92747274006	**ARK-BC-0.8b**	EPA 3010A	875955	EPA 6010D	876037
92747274001	**ARK-BT-1.6**	EPA 3005A	875521	EPA 6020B	875636
92747274002	**ARK-BT-1.1**	EPA 3005A	875521	EPA 6020B	875636
92747274003	**ARK-BT-1.2**	EPA 3005A	875521	EPA 6020B	875636
92747274004	**ARK-BT-1.3**	EPA 3005A	875521	EPA 6020B	875636
92747274005	**ARK-BT-1.0**	EPA 3005A	875521	EPA 6020B	875636
92747274006	**ARK-BC-0.8b**	EPA 3005A	875521	EPA 6020B	875636
92747274001	**ARK-BT-1.6**	SM 2540C-2015	876190		
92747274002	**ARK-BT-1.1**	SM 2540C-2015	876190		
92747274003	**ARK-BT-1.2**	SM 2540C-2015	876190		
92747274004	**ARK-BT-1.3**	SM 2540C-2015	876190		
92747274005	**ARK-BT-1.0**	SM 2540C-2015	876190		
92747274006	**ARK-BC-0.8b**	SM 2540C-2015	876190		
92747274001	**ARK-BT-1.6**	SM 2320B-2011	875570		
92747274002	**ARK-BT-1.1**	SM 2320B-2011	875570		
92747274003	**ARK-BT-1.2**	SM 2320B-2011	875570		
92747274004	**ARK-BT-1.3**	SM 2320B-2011	875570		
92747274005	**ARK-BT-1.0**	SM 2320B-2011	875570		
92747274006	**ARK-BC-0.8b**	SM 2320B-2011	875570		
92747274001	**ARK-BT-1.6**	EPA 9056A	875472		
92747274002	**ARK-BT-1.1**	EPA 9056A	875472		
92747274003	**ARK-BT-1.2**	EPA 9056A	875472		
92747274004	**ARK-BT-1.3**	EPA 9056A	875472		
92747274005	**ARK-BT-1.0**	EPA 9056A	875472		
92747274006	**ARK-BC-0.8b**	EPA 9056A	875472		

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Pace® Location Requested (City/State):
Pace Analytical Peachtree Corners
110 Technology Pkwy, Peachtree Corners, GA 30092

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

WO# : 92747274

92747274

Company Name:	ARCADIS - Atlanta	Contact/Report To:	Kelley Sharpe
Street Address:	2839 Paces Ferry Rd, Atlanta, GA 30339	Phone #:	(770)547-2978
		E-Mail:	kelley.sharpe@arcadis.com
		Cc E-Mail:	Arcadis-Atl + GA Power Distribution List
Customer Project #:			
Project Name:	Plant Arkwright-CCR Ash Pond	Invoice To:	Accounts Payable
		Invoice E-Mail:	georgiapowerinvoices@southernco.com
Site Collection Info/Facility ID (as applicable):	Plant Arkwright SWS	Purchase Order # (if applicable):	GPC82474-0003
		Quote #:	
Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [ ] ET		County / State origin of sample(s):	Georgia

Data Deliverables: [ ] Level II [ ] Level III [ ] Level IV [ ] EQUIS [ ] Other _____

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [ ] No

Rush (Pre-approval required): [ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other _____

DW PWSID # or WW Permit # as applicable:

Date Results Requested: 5 Day TAT

Field Filtered (if applicable): [ ] Yes [ ] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Res. Chlorine Results	Res. Chlorine Units	App. IV Metals - Co only	App. III Metals - B, Ca	Metals - K, Mg, Na	Alkalinity (Total/BiCarb)	Cl, F, SO4	TDS	Sample Comment	Preservation non-conformance identified for sample.
ARK-BT-1.6	WS	G	8/12/24	0965			3			X	X	X	X	X	X		
ARK-BT-1.1	WS	G	8/12/24	0936			3			X	X	X	X	X	X		
ARK-BT-1.2	WS	G	8/12/24	0928			3			X	X	X	X	X	X		
ARK-BT-1.3	WS	G	8/12/24	0918			3			X	X	X	X	X	X		
ARK-BT-1.0	WS	G	8/12/24	0944			3			X	X	X	X	X	X		
ARK-BC-0.8b	WS	G	8/12/24	1141			3			X	X	X	X	X	X		

Specify Container Size **

Identify Container Preservative Type***

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only

Proj. Mgr: **Maiya Parks**

AcctNum / Client ID:

Table #:

Profile / Template: **15836**

Prelog / Bottle Ord. ID: **EZ 3144736**

Additional Instructions from Pace®: **ARK-CSURF-ASSMT-2024S2**

Collected By: (Printed Name) Graeme Gr

Signature:

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
Perry Sutton / Arcadis	8/13/24 1325		5/13/24 1325	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Delivered by: [ ] In- Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: 1 of 1

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Arcadis - Atlanta

Project #: **WO#: 92747274**

PM: MP Due Date: 08/20/24

CLIENT: GA-ArcadAtl

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

Custody Seal Present? ☑ Yes ☐ No Seals Intact? ☑ Yes ☐ No ☐ N/A

Date/Initials Person Examining Contents: 8/13/24 ow

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

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☐ IR Gun ID: 270

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 5.4 Correction Factor: Add/Subtract (°C) 0

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 5.4

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☑ Yes	☐ No	☐ N/A	3.
Rush Turn Around Time Requested?	☑ Yes	☐ No	☐ N/A	4. 5 DAY TAT
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☑ No	☐ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: WS				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

WO#: 92747274

PM: MP Due Date: 08/20/24

CLIENT: GA-ArcadAtl

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

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

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Project #

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Client ARCADIS - Atlanta Profile/EZ (Circle one) 3144736 Notes

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)		BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
CC																														
1			2				1 ✓																							
2			2				1 ✓																							
3			2				1 ✓																							
4			2				1 ✓																							
5			2				1 ✓																							
6			2				1 ✓																							
7																														
8																														
9																														
10																														
11																														
12																														

pH Adjustment Log for Preserved Samples

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

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

B.4 Data Quality Evaluation

DATA USABILITY SUMMARY

Steven Elliott (Stantec) reviewed eight data packages from GEL Laboratories (GEL) for the analysis of water samples collected August 21 and 22, 2024, at the Georgia Power Arkwright Plant AP3 site. Samples were collected according to the Field Sampling Plan – Plant Arkwright (Amec Foster Wheeler, 2016).

Analyses requested included:

- SW-846 6020B – Metals, total and dissolved, by inductively coupled plasma - mass spectrometry (ICP/MS)
- SW-846 7470A – Mercury by manual cold-vapor
- EPA 300 Rev 2.1 – Chloride, fluoride, and sulfate by ion chromatography
- SM 2540C - 2015 – Total dissolved solids (TDS)
- EPA 353.2 – Nitrate/nitrite as nitrogen
- SM 2320B – Alkalinity, total, bicarbonate, carbonate
- EPA Method 904/ SW846 9320 Modified – Radium 228 by Gas Flow Proportional Counting
- EPA Method 903.1 Mod – Radium 226

Data were reviewed and validated as described in the field sampling plan and the *National Functional Guidelines for Inorganic Superfund Methods Data Review* (November 2020). The results of the review/validation are discussed in this Data Usability Summary (DUS) and the associated Laboratory Data Review Checklists.

DATA REVIEW/VALIDATION RESULTS

Introduction

Fifteen (15) groundwater samples, two (2) field blank, two (2) equipment blank, and two (2) field duplicate samples were analyzed for one or more of the analyses listed above. Table 1 lists the field identifications cross-referenced to laboratory identifications. Table 2 is a summary of qualified data. Tables 3a through 3e summarize field duplicate results.

Analytical Results

The data packages contain a minimum of one quality control batch per analytical method analyzed. The quality control batch identifies the laboratory QC samples that correspond to the designated field samples. Not detected results are reported as less than the value of the method detection limit (MDL).

Preservation and Holding Times

The samples were evaluated for agreement with the chain-of-custody forms. The samples were received in the appropriate containers with the paperwork filled out properly. The laboratory sample condition upon receipt forms indicates all samples were received at temperatures ranging from 0°C to 2.0°C. All samples were analyzed within the technical holding time. No data were qualified.

Calibrations

Case narratives indicate Initial and continuing calibration verification data were within method acceptance criteria.

Blanks

Laboratory Method Blanks. No contamination was detected in any of the laboratory method blanks.

Field Blanks. Field blanks were analyzed for the full suite of sample analyses and all analytes were not detected with the following exceptions:

SDG 682329

- TDS was detected in the blanks ARK-AP3-FB-05 at a concentration below the laboratory Reporting Limit (RL). Associated sample results reported with results less than 10 times the blank concentration have been qualified as estimated with a high bias (J+).

SDG 682332

- Radium 226 was detected in the blank ARK-AP3-FB-04 1.35 (08/21/2024), ARK-AP3-EB-04 0.196 and ARK-AP3-EB-05 0.461 at concentrations above the laboratory RL. No qualification was required for associated sample results reported as not detected. Associated sample results reported with results less than 10 times the blank concentration have been qualified as estimated with a high bias (J+).

Laboratory Control Samples

Laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) recoveries met the laboratory acceptance criteria for all analyses.

Matrix Spike/Matrix Spike Duplicates

Site-specific MS/MSD precision and accuracy results were within the laboratory acceptance criteria.

Laboratory Duplicates

Appropriate analytical duplicates were analyzed and RPDs were within the laboratory acceptance criteria with the following exception:

SDG 682329

- TDS had a high laboratory duplicate RPD for sample ARK-ARGWC-17. All associated sample results were reported with results greater than 10 times the blank concentration and therefore no qualification was necessary.

Field Precision

Two sets of field duplicate samples were collected for this sampling event (see Table 3a and 3b for sample/duplicate identification and precision calculations). The calculated RPDs between sample and duplicate were within the QAPP acceptance criteria of 25% for all analytes detected above five times the RL. For results reported less than five times the RL, with a difference between sample and duplicate less than two times the RL are also considered acceptable (qualified "A*"). All field duplicate precision was considered acceptable.

Summary

The groundwater analytical data are usable for the purpose of determining current concentrations of COCs in this medium at the affected property. A summary of qualified data is presented in Table 2 below.

References:

Amec Foster Wheeler, 2016. Arkwright Field Sampling Plan. October.

United State Environmental Protection Agency (USEPA), 2020. National Functional Guidelines for Superfund Inorganic Methods Data Review. November.

Table 1 – Cross-Reference between Laboratory and Field Identifications

Field Identification	Laboratory Identification	SDG	Analyses	Sample Date
ARK-ARGWA-3	682138001	682138	6020B, 7470A, 300, 2540C, 353.2, 2320B	8/21/2024
ARK-ARGWA-12	682138002	682138	6020B, 7470A, 300, 2540C, 353.2, 2320B	8/21/2024
ARK-ARGWA-24	682138003	682138	6020B, 7470A, 300, 2540C, 353.2, 2320B	8/21/2024
ARK-ARGWA-3	682143001	682143	6020B (D) (Mg, Fe)	8/21/2024
ARK-ARGWA-12	682143002	682143	6020B (D) (Mg, Fe)	8/21/2024
ARK-ARGWA-24	682143003	682143	6020B (D) (Mg, Fe)	8/21/2024
ARK-ARGWA-14	682324001	682324	6020B, 7470A, 300, 2540C, 353.2, 2320B	8/22/2024
ARK-ARGWA-14	682325001	682325	903.1, 904	8/22/2024
ARK-ARGWA-14	682326001	682326	6020B (D) (Mg, Fe)	8/22/2024
ARK-ARGWA-5	682329001	682329	6020B, 7470A, 300, 2540C, 353.2, 2320B	8/21/2024
ARK-ARGWA-13	682329002	682329	6020B, 7470A, 300, 2540C, 353.2, 2320B	8/21/2024
ARK-ARGWC-7	682329003	682329	6020B, 7470A, 300, 2540C, 353.2, 2320B	8/21/2024
ARK-ARGWC-8	682329004	682329	6020B, 7470A, 300, 2540C, 353.2, 2320B	8/21/2024
ARK-ARGWC-9	682329005	682329	6020B, 7470A, 300, 2540C, 353.2, 2320B	8/21/2024
ARK-ARGWC-10	682329006	682329	6020B, 7470A, 300, 2540C, 353.2, 2320B	8/21/2024
ARK-ARGWC-15	682329007	682329	6020B, 7470A, 300, 2540C, 353.2, 2320B	8/21/2024
ARK-ARGWC-16	682329008	682329	6020B, 7470A, 300, 2540C, 353.2, 2320B	8/21/2024
ARK-ARGWC-17	682329009	682329	6020B, 7470A, 300, 2540C, 353.2, 2320B	8/21/2024
ARK-ARGWC-18	682329010	682329	6020B, 7470A, 300, 2540C, 353.2, 2320B	8/21/2024

Field Identification	Laboratory Identification	SDG	Analyses	Sample Date
ARK-ARAMW-4	682329011	682329	6020B, 7470A, 300, 2540C, 353.2, 2320B	8/21/2024
ARK-AP3-EB-04	682329012	682329	6020B, 7470A, 300, 2540C, 353.2, 2320B	8/21/2024
ARK-AP3-FD-04	682329013	682329	6020B, 7470A, 300, 2540C, 353.2, 2320B	8/21/2024
ARK-AP3-FB-04	682329014	682329	6020B, 7470A, 300, 2540C, 353.2, 2320B	8/21/2024
ARK-AP3-EB-05	682329015	682329	6020B, 7470A, 300, 2540C, 353.2, 2320B	8/21/2024
ARK-AP3-FD-05	682329016	682329	6020B, 7470A, 300, 2540C, 353.2, 2320B	8/21/2024
ARK-AP3-FB-05	682329017	682329	6020B, 7470A, 300, 2540C, 353.2, 2320B	8/21/2024
ARK-ARGWA-5	682332001	682332	903.1, 904	8/21/2024
ARK-ARGWA-13	682332002	682332	903.1, 904	8/21/2024
ARK-ARGWC-7	682332003	682332	903.1, 904	8/21/2024
ARK-ARGWC-8	682332004	682332	903.1, 904	8/21/2024
ARK-ARGWC-9	682332005	682332	903.1, 904	8/21/2024
ARK-ARGWC-10	682332006	682332	903.1, 904	8/21/2024
ARK-ARGWC-15	682332007	682332	903.1, 904	8/21/2024
ARK-ARGWC-16	682332008	682332	903.1, 904	8/21/2024
ARK-ARGWC-17	682332009	682332	903.1, 904	8/21/2024
ARK-ARGWC-18	682332010	682332	903.1, 904	8/21/2024
ARK-ARAMW-4	682332011	682332	903.1, 904	8/21/2024
ARK-AP3-EB-04	682332012	682332	903.1, 904	8/21/2024
ARK-AP3-FD-04	682332013	682332	903.1, 904	8/21/2024
ARK-AP3-FB-04	682332014	682332	903.1, 904	8/21/2024
ARK-AP3-EB-05	682332015	682332	903.1, 904	8/21/2024
ARK-AP3-FD-05	682332016	682332	903.1, 904	8/21/2024
ARK-AP3-FB-05	682332017	682332	903.1, 904	8/21/2024
ARK-ARGWA-5	682333001	682333	6020B (D) (Mg, Fe)	8/21/2024
ARK-ARGWA-13	682333002	682333	6020B (D) (Mg, Fe)	8/21/2024
ARK-ARGWC-7	682333003	682333	6020B (D) (Mg, Fe)	8/21/2024

Field Identification	Laboratory Identification	SDG	Analyses	Sample Date
ARK-ARGWC-8	682333004	682333	6020B (D) (Mg, Fe)	8/21/2024
ARK-ARGWC-9	682333005	682333	6020B (D) (Mg, Fe)	8/21/2024
ARK-ARGWC-10	682333006	682333	6020B (D) (Mg, Fe)	8/21/2024
ARK-ARGWC-15	682333007	682333	6020B (D) (Mg, Fe)	8/21/2024
ARK-ARGWC-16	682333008	682333	6020B (D) (Mg, Fe)	8/21/2024
ARK-ARGWC-17	682333009	682333	6020B (D) (Mg, Fe)	8/21/2024
ARK-ARGWC-18	682333010	682333	6020B (D) (Mg, Fe)	8/21/2024
ARK-ARAMW-4	682333011	682333	6020B (D) (Mg, Fe)	8/21/2024

Table 2 – Qualified Analytical Data

Field Identification	Analyte	Qualification / Code	Reason for Qualification
ARK-ARGWA-3	TDS	J+ / BFH	Detected in FB
ARK-ARGWC-9	TDS	J+ / BFH	Detected in FB
ARK-AP3-FD-05	TDS	J+ / BFH	Detected in FB
ARK-ARGWA-5	Radium 226	J+ / BFH	Detected in EB
ARK-ARGWA-13	Radium 226	J+ / BFH	Detected in EB
ARK-ARGWC-7	Radium 226	J+ / BFH	Detected in EB
ARK-ARGWC-8	Radium 226	J+ / BFH	Detected in EB
ARK-ARGWC-10	Radium 226	J+ / BFH	Detected in EB
ARK-ARGWC-15	Radium 226	J+ / BFH	Detected in EB
ARK-ARGWC-16	Radium 226	J+ / BFH	Detected in EB
ARK-ARGWC-17	Radium 226	J+ / BFH	Detected in EB
ARK-ARGWC-17	TDS	J / LD1	High Lab Duplicate RPD

BFH – Blank Field High – detected in the field blank (FB) above the RL
J – estimated result
J+ – estimated data with a high bias
LD1 – lab duplicate RPD exceeded lab limits

Table 3a – Field Precision

Field Identification	Analyte	Sample Result (mg/L)	Duplicate Result (mg/L)	RPD[a]	Qualified
ARK-ARGWC-16 / ARK-AP3-FD-04	Chloride	5.71	5.76	0.9%	A
	Sulfate	350	366	<5*RL, <2*RL	A*
	Boron	0.449	0.467	<5*RL, <2*RL	A*
	Barium	0.0349	0.035	0.3%	A
	Aluminum	0.0246 J	NA	NC	None
	Calcium	69.9	71.5	2.3%	A
	Magnesium	48.3	NA	NC	None
	Manganese (D)	0.308	NA	NC	None
	Manganese	0.315	NA	NC	None
	Selenium	0.00497 J	0.00456 J	<5*RL, <2*RL	A*
	Sodium	17.2	NA	NC	None
	Potassium	4.24	NA	NC	None
	Nitrate/nitrite	0.549	0.547	0.4%	A
	TDS	601	600	0.2%	A
	Total Alkalinity	10.0	NA	NC	None
	Bicarbonate	10.0	NA	NC	None
	Radium 226	0.769	0.351 U	<5*RL, <2*RL	A*

[a] RPD = ((SR - DR)*200)/(SR + DR)
A - Acceptable Data.
A* - Acceptable data where results were less than 5X the RDL and the difference between sample and duplicate was less than 2X the RDL.
D - dissolved
J – Estimated detected.
NA – not analyzed
NC – not calculated

Table 3b – Field Precision

Field Identification	Analyte	Sample Result (mg/L)	Duplicate Result (mg/L)	RPD[a]	Qualified
ARK-ARGWC-9/ ARK-AP3-FD-05	Chloride	4.93	4.98	1.0%	A
	Fluoride	0.0405 J	0.039 J	<5*RL, <2*RL	A*
	Sulfate	1.42	1.43	<5*RL, <2*RL	A*
	Boron	0.00660 J	0.00696 J	<5*RL, <2*RL	A*
	Barium	0.0363	0.0322	0.2%	A
	Aluminum	0.331	NA	NC	None
	Calcium	4.65	4.36	6.4%	A
	Chromium	0.00727 J	0.00673 J	<5*RL, <2*RL	A*
	Iron	0.226	NA	NC	None
	Magnesium	2.10	NA	NC	None
	Manganese	0.00683	NA	NC	None
	Sodium	6.57	NA	NC	None
	Potassium	1.71	NA	NC	None
	Nitrate/nitrite	0.694	0.696	0.3%	A
	TDS	74.0	76.0	2.7%	A
	Total Alkalinity	25.1	NA	NC	None
	Bicarbonate	25.1	NA	NC	None
	Radium 226	0.503 U	0.465	<5*RL, <2*RL	A*

[a] RPD = ((SR - DR)*200)/(SR + DR)
A - Acceptable Data.
A* - Acceptable data where results were less than 5X the RDL and the difference between sample and duplicate was less than 2X the RDL.
D - dissolved
J – Estimated detected.
NA – not analyzed
NC – not calculated

Appendix C
Statistical Analyses

GROUNDWATER STATS CONSULTING

February 28, 2025

Southern Company Services
Attn: Mr. Joju Abraham
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308-3374

Re: Plant Arkwright #3 Ash Pond
August 2024 Semi-Annual Statistical Analysis

Dear Mr. Abraham,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the August 2024 Semi-Annual Groundwater statistical analysis of data for Georgia Power Company's Plant Arkwright #3 Ash Pond. The analysis complies with the Georgia Environmental Protection Division (EPD) Rules for Solid Waste Management Chapter 391-3-4-.10 and follows the United States Environmental Protection Agency (USEPA) Unified Guidance (2009).

Semi-annual sampling is conducted for USEPA's Coal Combustion Residuals (CCR) Appendix III and IV parameters in addition to Appendix I 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, ARGWA-14, and ARGWA-24
- **Downgradient wells:** ARGWC-7, ARGWC-8, ARGWC-9, ARGWC-10, ARGWC-15, ARGWC-16, ARGWC-17, and ARGWC-18
- **Assessment well:** ARAMW-4

Data from assessment wells are plotted on time series and box plots, and are analyzed with confidence intervals for Appendix I and IV constituents when a minimum of 4 samples are available.

Data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was reviewed by Andrew Collins, Project Manager for Groundwater Stats Consulting.

The CCR and Georgia EPD programs monitor the constituents listed below. The terms "parameters" and "constituents" are used interchangeably.

- **Georgia EPD 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

Data for Appendix III constituents were analyzed using prediction limits; data for Appendix I constituents were analyzed using prediction limits and confidence intervals; and data for Appendix IV were analyzed using confidence intervals. Note that when there are no detections present in downgradient wells for a given constituent, statistical analyses are not required. Summaries of well/constituent pairs containing 100% non-detects since 2005 for Appendix I constituents at downgradient wells and since 2016 for Appendix I and IV constituents at downgradient and assessment wells follow 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 screening, described below, 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 previous screening to demonstrate that the selected statistical methods for the parameters listed above comply with the USEPA Unified Guidance and the Georgia EPD 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 EPD 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

The distribution of data is tested using the Shapiro-Wilk/Shapiro-Francia test for normality. Parametric prediction limits (or tolerance limits or confidence intervals, as applicable) are utilized when the screened historical data follow a normal or transformed-normal distribution. When data cannot be normalized or the majority of data are non-detects, a nonparametric test is utilized. While the false positive rate associated with parametric limits is based on an annual 10% (5% per semi-annual event) as recommend by the EPA Unified Guidance (2009), the false positive rate associated with the nonparametric limits is dependent upon the available background sample size, number of future comparisons, and verification resample plan. The following approaches are used for handling non-detects (USEPA, 2009).

- No statistical analyses are required on wells and analytes containing 100% non-detects (USEPA Unified Guidance, 2009, Chapter 6).
- When data contain <15% non-detects, simple substitution of one-half the reporting limit is utilized in the statistical analysis. The reporting limit utilized for non-detects is the most recent practical quantification limit (PQL) as reported by the laboratory.
- When data contain between 15-50% non-detects, the Kaplan-Meier non-detect adjustment is applied to the background data for parametric limits. This technique adjusts the mean and standard deviation of the historical concentrations to account for concentrations below the reporting limit.

- Nonparametric prediction limits are used on data containing greater than 50% non-detects.

Natural systems continuously evolve due to physical changes made to the environment. Examples include capping a landfill, paving areas near a well, or lining a drainage channel to prevent erosion. Periodic updating of background statistical limits is necessary to accommodate these types of changes. In the interwell case, prediction limits are updated with upgradient well data during each event after 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

Outlier Analysis

Time series plots were used to identify suspected outliers, or extreme values that would result in limits that are not representative of the current background data population. Suspected outliers at all wells and parameters were formally tested using Tukey's box plot method and, when identified, flagged in the computer database with "o" and deselected prior to construction of statistical limits. 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. Outliers were flagged in downgradient wells, though there are no intrawell statistical analyses in the current report. For the analysis of the Appendix IV constituents, this improves the estimate of downgradient confidence intervals.

A summary of flagged values is included in Figure C. When the most recent values are identified as outliers in upgradient wells, those values are not flagged in the database at that time (except in cases where they would cause background limits to be elevated) as they may represent a possible trend in an upgradient well. 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 non-detects 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, the measurements 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.

Trend Testing

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. Although data since 2014 for selenium at upgradient well ARGWA-13 have consistently been detections above the reporting limit while earlier data are primarily non-detect values, the measurements across the record represent spatial variability in groundwater quality upgradient of the facility. Therefore, all concentrations for this well/constituent pair are used in constructing statistical limits.

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 are used for all Appendix I and Appendix III constituents in accordance with Georgia EPD requirements.

Prediction Limit Analysis of Appendix I & III Parameters – August 2024

All Appendix I and III parameters were analyzed using interwell prediction limits. Upgradient well data were reassessed using time series for potential outliers during this analysis. No additional values were flagged and a summary of flagged outliers follows this report (Figure C).

Appendix I & III Interwell Prediction Limits

Interwell prediction limits, combined with a 1-of-2 resample plan, were constructed using all historical upgradient well data through August 2024 for Appendix I and III constituents (Figures D & E, respectively). Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent. The August 2024 sample from each downgradient well is compared to the background limits to determine whether initial exceedances are present.

In the event of an initial exceedance of compliance well data, the 1-of-2 resample plan allows for collection of one additional sample to determine whether the initial exceedance is confirmed. When a resample confirms the initial exceedance, a statistically significant increase 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; therefore, no exceedance is noted, and no further action is necessary. If no resample is collected, the original result is considered a confirmed exceedance. Summary tables, along with complete results of the interwell prediction limits for Appendix I and III constituents, follow this letter. No exceedances were noted for the Appendix I constituents. The following exceedances were identified for the Appendix III constituents:

- Boron: ARGWC-18
- pH (lower limit): ARGWC-16 and ARGWC-17

Note that the interwell limit for sulfate is high relative to concentrations in downgradient wells and is a result of the reported concentrations in upgradient well ARGWA-13 which reflect spatial variation in groundwater quality at the site. Since this limit will not be sensitive to changes in sulfate concentrations in downgradient wells, trend tests were performed as a secondary measure to identify whether concentrations are changing over time at each well. The results are discussed below in the trend test section.

Trend Test Evaluation – Appendix III

When prediction limit exceedances are identified in downgradient wells, data are further evaluated using the Sen's Slope/Mann Kendall trend test to determine whether concentrations are statistically increasing, decreasing, or stable at the 99% confidence level (Figure F). Upgradient well data are included in the trend analyses for all parameters found to exceed their prediction limit in downgradient wells to identify whether similar patterns exist upgradient of the site. Upgradient trends are an indication of variability in groundwater quality unrelated to practices at the site.

Additionally, trend tests for sulfate were included to monitor concentrations at each well. Note that samples for sulfate were collected prior to 2016 and all data were evaluated in the trend analyses. Both a summary table and graphical display of trend tests results follows this letter. Statistically significant trends were identified for the following well/constituent pairs:

Increasing trends:

- Boron: ARGWA-13 (upgradient)
- Sulfate: ARGWA-13 (upgradient), ARGWC-9, and ARGWC-16

Decreasing trends:

- Boron: ARGWA-24 (upgradient)
- pH: ARGWC-17
- Sulfate: ARGWA-14 (upgradient), ARGWC-7, and ARGWC-8

Confidence Interval Analysis of Appendix I & IV Parameters – August 2024

For Appendix I and IV parameters, confidence intervals for each downgradient and assessment well/constituent pair were compared against corresponding Groundwater Protection Standards (GWPS). GWPS were developed as described below. Downgradient and assessment well/constituent pairs that contain 100% non-detects since 2016 do not require analysis. Data from upgradient wells for Appendix I and IV parameters are reassessed for outliers during each analysis. No additional outliers were flagged during this analysis and a summary of flagged outliers follows this report (Figure C).

Interwell Upper Tolerance Limits

Interwell tolerance limits were used to calculate site-specific background limits from all available pooled upgradient well data through August 2024 for Appendix I and IV constituents (Figure G). Parametric tolerance limits are used when data follow a normal or transformed-normal distribution. When data contained greater than 50% non-detects or did not follow a normal or transformed-normal distribution, nonparametric tolerance limits were used.

Groundwater Protection Standards

The background limits were then used when determining the groundwater protection standard (GWPS) under 40 CFR §257.95(h) and Georgia EPD Rule 391-3-4-.10(6)(a). On July 30, 2018, US EPA revised the Federal CCR rule updating GWPS for cobalt, lead, lithium, and molybdenum as described above in 40 CFR §257.95(h)(2). Effective on February 22, 2022, Georgia EPD incorporated the updated GWPS into the current Georgia EPD Rules for Solid Waste Management 391-3-4-.10(6)(a). In accordance with the updated Rules, the GWPS is:

- The maximum contaminant level (MCL) established under §141.62 and §141.66 of this title
- Where an MCL has not been established for a constituent, Federal and State CCR Rules specify levels for cobalt (0.006 mg/L), lead (0.015 mg/L), lithium (0.040 mg/L), and molybdenum (0.100 mg/L)
- The respective background level for a constituent when the background level is higher than the MCL or Federal CCR Rule identified GWPS

Following Georgia EPD Rule requirements and the Federal CCR requirements, GWPS were established for statistical comparison of Appendix I and IV constituents for this sample event (Figure H).

Confidence Intervals

To complete the statistical comparison to GWPS, confidence intervals were constructed when a minimum of 4 samples was available using data from June 2016 through August 2024 for each of the Appendix I and IV constituents in accordance with the state requirements in each downgradient and assessment well (Figure I). The Sanitas software was used to calculate the confidence intervals, either parametric or nonparametric, depending on the data distribution and percentage of non-detects. When data followed a normal or transformed-normal distribution, parametric confidence intervals were used for Appendix IV parameters. Nonparametric confidence intervals, which use the appropriate order statistics, depending on the sample size, as interval limits, were constructed when data did not follow a normal or transformed-normal distribution or when there were greater than 50% non-detects. The lower confidence limit, which is constructed with 99% confidence for parametric confidence intervals, is compared to the GWPS prepared as described above. The achievable confidence level associated with nonparametric confidence intervals is dependent upon the number samples available.

Only when the entire confidence interval is above a GWPS is the well/constituent pair considered to exceed its respective standard. In the event of a confidence interval exceedance of the GWPS, a statistically significant level (SSL) exceedance is identified. A summary of the confidence intervals follows this letter and an exceedance was identified for the following well/constituent pair:

- Cobalt: ARGWC-17

While the confidence interval for thallium at assessment well ARAMW-4 indicates an exceedance, this is a result of the Sanitas™ statistical software identifying exceedances when the lower limit is equal to or greater than the established GWPS. No detections are present above the reporting limit of 0.002 mg/L in this record and the lower limit was equal to the MCL of 0.002 mg/L; therefore, no SSL is identified

Trend Test Evaluation – Appendix IV

Data at wells with confidence interval exceedances are further evaluated using the Sen's Slope/Mann Kendall trend test at the 95% confidence level to determine whether concentrations are statistically increasing, decreasing, or stable (Figure J). Although the trend tests for Assessment monitoring pairs were previously evaluated using 99% confidence, the 95% confidence level more rapidly identifies statistically significant trends. Additionally, the 95% confidence level is recommended in cases with limited sample sizes and, particularly, for new assessment wells. Upgradient wells are included in the trend

analyses to identify whether similar patterns exist upgradient of the site for the same constituents. When trends are present in upgradient wells, it is an indication of variability in groundwater quality unrelated to practices at the site. A summary of the Appendix IV trend test results follows this letter. A statistically significant increasing trend was identified for the following well/constituent pair:

- Cobalt: ARGWC-17

Although no SSL is recorded for thallium at ARAMW-4, trend tests were also included for thallium at assessment well ARAMW-4 along with the upgradient wells to further demonstrate no trends (all with a slope of 0) are present for this constituent.

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for Plant Arkwright #3 Ash Pond. If you have any questions or comments, please feel free to contact us.

For Groundwater Stats Consulting,

Easton Rayner
Groundwater Analyst

Andrew Collins
Project Manager

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG

100% Non-Detects: Appendix I & IV Downgradient and Assessment

Analysis Run 10/3/2024 11:45 AM View: Appendix I & IV
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Antimony (mg/L)
ARAMW-4, ARGWC-15, ARGWC-16, ARGWC-17, ARGWC-18, ARGWC-8

Beryllium (mg/L)
ARAMW-4, ARGWC-10, ARGWC-15

Cadmium (mg/L)
ARGWC-10, ARGWC-15, ARGWC-18, ARGWC-7, ARGWC-8, ARGWC-9

Chromium (mg/L)
ARAMW-4, ARGWC-18

Lead (mg/L)
ARAMW-4, ARGWC-7

Mercury (mg/L)
ARAMW-4, ARGWC-17, ARGWC-9

Molybdenum (mg/L)
ARGWC-10, ARGWC-16, ARGWC-17, ARGWC-7, ARGWC-9

Selenium (mg/L)
ARGWC-18, ARGWC-8

Silver (mg/L)
ARAMW-4, ARGWC-10, ARGWC-17, ARGWC-18, ARGWC-7, ARGWC-8, ARGWC-9

Thallium (mg/L)
ARGWC-10, ARGWC-7, ARGWC-8, ARGWC-9

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100% Non-Detects: Appendix I Downgradient

Analysis Run 10/3/2024 11:15 AM View: Appendix I
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Cadmium (mg/L)
ARGWC-10, ARGWC-18, ARGWC-7, ARGWC-8, ARGWC-9

Silver (mg/L)
ARGWC-8

Appendix I Interwell Prediction Limits - All Results (No Significant)

Plant Arkwright Client: Southern Company Data: Arkwright No 3 Printed 10/3/2024, 11:19 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	0.00593	n/a	8/21/2024	0.005ND	No	235	n/a	n/a	82.13	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	ARGWC-15	0.00593	n/a	8/21/2024	0.005ND	No	235	n/a	n/a	82.13	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	ARGWC-16	0.00593	n/a	8/21/2024	0.005ND	No	235	n/a	n/a	82.13	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	ARGWC-17	0.00593	n/a	8/21/2024	0.005ND	No	235	n/a	n/a	82.13	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	ARGWC-18	0.00593	n/a	8/21/2024	0.005ND	No	235	n/a	n/a	82.13	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	ARGWC-7	0.00593	n/a	8/21/2024	0.005ND	No	235	n/a	n/a	82.13	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	ARGWC-8	0.00593	n/a	8/21/2024	0.005ND	No	235	n/a	n/a	82.13	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	ARGWC-9	0.00593	n/a	8/21/2024	0.005ND	No	235	n/a	n/a	82.13	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Barium (mg/L)	ARGWC-10	0.24	n/a	8/21/2024	0.0328	No	232	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Barium (mg/L)	ARGWC-15	0.24	n/a	8/21/2024	0.039	No	232	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Barium (mg/L)	ARGWC-16	0.24	n/a	8/21/2024	0.0349	No	232	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Barium (mg/L)	ARGWC-17	0.24	n/a	8/21/2024	0.048	No	232	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Barium (mg/L)	ARGWC-18	0.24	n/a	8/21/2024	0.0355	No	232	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Barium (mg/L)	ARGWC-7	0.24	n/a	8/21/2024	0.0473	No	232	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Barium (mg/L)	ARGWC-8	0.24	n/a	8/21/2024	0.0585	No	232	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Barium (mg/L)	ARGWC-9	0.24	n/a	8/21/2024	0.0363	No	232	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Cadmium (mg/L)	ARGWC-15	0.0043	n/a	8/21/2024	0.001ND	No	227	n/a	n/a	95.15	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Cadmium (mg/L)	ARGWC-16	0.0043	n/a	8/21/2024	0.001ND	No	227	n/a	n/a	95.15	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Cadmium (mg/L)	ARGWC-17	0.0043	n/a	8/21/2024	0.001ND	No	227	n/a	n/a	95.15	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Lead (mg/L)	ARGWC-10	0.013	n/a	8/21/2024	0.002ND	No	233	n/a	n/a	90.56	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Lead (mg/L)	ARGWC-15	0.013	n/a	8/21/2024	0.000948J	No	233	n/a	n/a	90.56	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Lead (mg/L)	ARGWC-16	0.013	n/a	8/21/2024	0.002ND	No	233	n/a	n/a	90.56	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Lead (mg/L)	ARGWC-17	0.013	n/a	8/21/2024	0.002ND	No	233	n/a	n/a	90.56	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Lead (mg/L)	ARGWC-18	0.013	n/a	8/21/2024	0.002ND	No	233	n/a	n/a	90.56	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Lead (mg/L)	ARGWC-7	0.013	n/a	8/21/2024	0.002ND	No	233	n/a	n/a	90.56	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Lead (mg/L)	ARGWC-8	0.013	n/a	8/21/2024	0.002ND	No	233	n/a	n/a	90.56	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Lead (mg/L)	ARGWC-9	0.013	n/a	8/21/2024	0.002ND	No	233	n/a	n/a	90.56	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Selenium (mg/L)	ARGWC-10	0.034	n/a	8/21/2024	0.005ND	No	235	n/a	n/a	82.55	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Selenium (mg/L)	ARGWC-15	0.034	n/a	8/21/2024	0.005ND	No	235	n/a	n/a	82.55	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Selenium (mg/L)	ARGWC-16	0.034	n/a	8/21/2024	0.00497J	No	235	n/a	n/a	82.55	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Selenium (mg/L)	ARGWC-17	0.034	n/a	8/21/2024	0.005ND	No	235	n/a	n/a	82.55	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Selenium (mg/L)	ARGWC-18	0.034	n/a	8/21/2024	0.005ND	No	235	n/a	n/a	82.55	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Selenium (mg/L)	ARGWC-7	0.034	n/a	8/21/2024	0.005ND	No	235	n/a	n/a	82.55	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Selenium (mg/L)	ARGWC-8	0.034	n/a	8/21/2024	0.005ND	No	235	n/a	n/a	82.55	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Selenium (mg/L)	ARGWC-9	0.034	n/a	8/21/2024	0.005ND	No	235	n/a	n/a	82.55	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Silver (mg/L)	ARGWC-10	0.0051	n/a	8/21/2024	0.001ND	No	203	n/a	n/a	95.07	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Silver (mg/L)	ARGWC-15	0.0051	n/a	8/21/2024	0.001ND	No	203	n/a	n/a	95.07	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Silver (mg/L)	ARGWC-16	0.0051	n/a	8/21/2024	0.001ND	No	203	n/a	n/a	95.07	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Silver (mg/L)	ARGWC-17	0.0051	n/a	8/21/2024	0.001ND	No	203	n/a	n/a	95.07	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Silver (mg/L)	ARGWC-18	0.0051	n/a	8/21/2024	0.001ND	No	203	n/a	n/a	95.07	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Silver (mg/L)	ARGWC-7	0.0051	n/a	8/21/2024	0.001ND	No	203	n/a	n/a	95.07	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Silver (mg/L)	ARGWC-9	0.0051	n/a	8/21/2024	0.001ND	No	203	n/a	n/a	95.07	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2

Appendix III Interwell Prediction Limits - Significant Results

Plant Arkwright Client: Southern Company Data: Arkwright No 3 Printed 10/3/2024, 11:22 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**	**1.11**	**n/a**	**8/21/2024**	**2.47**	**Yes**	**114**	**n/a**	**n/a**	**42.98**	**n/a**	**n/a**	**0.0001522**	**NP Inter (normality) 1 of 2**
pH (SU)	**ARGWC-16**	**7.04**	**5.53**	**8/21/2024**	**5.24**	**Yes**	**123**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.000259**	**NP Inter (normality) 1 of 2**
pH (SU)	**ARGWC-17**	**7.04**	**5.53**	**8/21/2024**	**5.15**	**Yes**	**123**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.000259**	**NP Inter (normality) 1 of 2**

Appendix III Interwell Prediction Limits - All Results

Plant Arkwright Client: Southern Company Data: Arkwright No 3 Printed 10/3/2024, 11:22 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	1.11	n/a	8/21/2024	0.00605J	No	114	n/a	n/a	42.98	n/a	n/a	0.0001522	NP Inter (normality) 1 of 2
Boron (mg/L)	ARGWC-15	1.11	n/a	8/21/2024	0.0103J	No	114	n/a	n/a	42.98	n/a	n/a	0.0001522	NP Inter (normality) 1 of 2
Boron (mg/L)	ARGWC-16	1.11	n/a	8/21/2024	0.449	No	114	n/a	n/a	42.98	n/a	n/a	0.0001522	NP Inter (normality) 1 of 2
Boron (mg/L)	ARGWC-17	1.11	n/a	8/21/2024	0.0575	No	114	n/a	n/a	42.98	n/a	n/a	0.0001522	NP Inter (normality) 1 of 2
Boron (mg/L)	**ARGWC-18**	**1.11**	**n/a**	**8/21/2024**	**2.47**	**Yes**	**114**	**n/a**	**n/a**	**42.98**	**n/a**	**n/a**	**0.0001522**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	ARGWC-7	1.11	n/a	8/21/2024	0.0724	No	114	n/a	n/a	42.98	n/a	n/a	0.0001522	NP Inter (normality) 1 of 2
Boron (mg/L)	ARGWC-8	1.11	n/a	8/21/2024	0.877	No	114	n/a	n/a	42.98	n/a	n/a	0.0001522	NP Inter (normality) 1 of 2
Boron (mg/L)	ARGWC-9	1.11	n/a	8/21/2024	0.0066J	No	114	n/a	n/a	42.98	n/a	n/a	0.0001522	NP Inter (normality) 1 of 2
Calcium (mg/L)	ARGWC-10	190	n/a	8/21/2024	7.87	No	114	n/a	n/a	0	n/a	n/a	0.0001522	NP Inter (normality) 1 of 2
Calcium (mg/L)	ARGWC-15	190	n/a	8/21/2024	26.1	No	114	n/a	n/a	0	n/a	n/a	0.0001522	NP Inter (normality) 1 of 2
Calcium (mg/L)	ARGWC-16	190	n/a	8/21/2024	69.9	No	114	n/a	n/a	0	n/a	n/a	0.0001522	NP Inter (normality) 1 of 2
Calcium (mg/L)	ARGWC-17	190	n/a	8/21/2024	24.2	No	114	n/a	n/a	0	n/a	n/a	0.0001522	NP Inter (normality) 1 of 2
Calcium (mg/L)	ARGWC-18	190	n/a	8/21/2024	48.9	No	114	n/a	n/a	0	n/a	n/a	0.0001522	NP Inter (normality) 1 of 2
Calcium (mg/L)	ARGWC-7	190	n/a	8/21/2024	8.99	No	114	n/a	n/a	0	n/a	n/a	0.0001522	NP Inter (normality) 1 of 2
Calcium (mg/L)	ARGWC-8	190	n/a	8/21/2024	43.4	No	114	n/a	n/a	0	n/a	n/a	0.0001522	NP Inter (normality) 1 of 2
Calcium (mg/L)	ARGWC-9	190	n/a	8/21/2024	4.65	No	114	n/a	n/a	0	n/a	n/a	0.0001522	NP Inter (normality) 1 of 2
Chloride (mg/L)	ARGWC-10	17	n/a	8/21/2024	3.99	No	222	n/a	n/a	0.4505	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	ARGWC-15	17	n/a	8/21/2024	2.55	No	222	n/a	n/a	0.4505	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	ARGWC-16	17	n/a	8/21/2024	5.71	No	222	n/a	n/a	0.4505	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	ARGWC-17	17	n/a	8/21/2024	2.76	No	222	n/a	n/a	0.4505	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	ARGWC-18	17	n/a	8/21/2024	6.72	No	222	n/a	n/a	0.4505	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	ARGWC-7	17	n/a	8/21/2024	4.45	No	222	n/a	n/a	0.4505	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	ARGWC-8	17	n/a	8/21/2024	5.59	No	222	n/a	n/a	0.4505	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	ARGWC-9	17	n/a	8/21/2024	4.93	No	222	n/a	n/a	0.4505	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Fluoride (mg/L)	ARGWC-10	0.53	n/a	8/21/2024	0.063J	No	124	n/a	n/a	27.42	n/a	n/a	0.0001277	NP Inter (normality) 1 of 2
Fluoride (mg/L)	ARGWC-15	0.53	n/a	8/21/2024	0.0719J	No	124	n/a	n/a	27.42	n/a	n/a	0.0001277	NP Inter (normality) 1 of 2
Fluoride (mg/L)	ARGWC-16	0.53	n/a	8/21/2024	0.1ND	No	124	n/a	n/a	27.42	n/a	n/a	0.0001277	NP Inter (normality) 1 of 2
Fluoride (mg/L)	ARGWC-17	0.53	n/a	8/21/2024	0.1ND	No	124	n/a	n/a	27.42	n/a	n/a	0.0001277	NP Inter (normality) 1 of 2
Fluoride (mg/L)	ARGWC-18	0.53	n/a	8/21/2024	0.0683J	No	124	n/a	n/a	27.42	n/a	n/a	0.0001277	NP Inter (normality) 1 of 2
Fluoride (mg/L)	ARGWC-7	0.53	n/a	8/21/2024	0.1ND	No	124	n/a	n/a	27.42	n/a	n/a	0.0001277	NP Inter (normality) 1 of 2
Fluoride (mg/L)	ARGWC-8	0.53	n/a	8/21/2024	0.139	No	124	n/a	n/a	27.42	n/a	n/a	0.0001277	NP Inter (normality) 1 of 2
Fluoride (mg/L)	ARGWC-9	0.53	n/a	8/21/2024	0.0405J	No	124	n/a	n/a	27.42	n/a	n/a	0.0001277	NP Inter (normality) 1 of 2
pH (SU)	ARGWC-10	7.04	5.53	8/21/2024	5.96	No	123	n/a	n/a	0	n/a	n/a	0.000259	NP Inter (normality) 1 of 2
pH (SU)	ARGWC-15	7.04	5.53	8/21/2024	6.26	No	123	n/a	n/a	0	n/a	n/a	0.000259	NP Inter (normality) 1 of 2
pH (SU)	**ARGWC-16**	**7.04**	**5.53**	**8/21/2024**	**5.24**	**Yes**	**123**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.000259**	**NP Inter (normality) 1 of 2**
pH (SU)	**ARGWC-17**	**7.04**	**5.53**	**8/21/2024**	**5.15**	**Yes**	**123**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.000259**	**NP Inter (normality) 1 of 2**
pH (SU)	ARGWC-18	7.04	5.53	8/21/2024	6	No	123	n/a	n/a	0	n/a	n/a	0.000259	NP Inter (normality) 1 of 2
pH (SU)	ARGWC-7	7.04	5.53	8/21/2024	5.74	No	123	n/a	n/a	0	n/a	n/a	0.000259	NP Inter (normality) 1 of 2
pH (SU)	ARGWC-8	7.04	5.53	8/21/2024	6.51	No	123	n/a	n/a	0	n/a	n/a	0.000259	NP Inter (normality) 1 of 2
pH (SU)	ARGWC-9	7.04	5.53	8/21/2024	5.97	No	123	n/a	n/a	0	n/a	n/a	0.000259	NP Inter (normality) 1 of 2
Sulfate (mg/L)	ARGWC-10	950	n/a	8/21/2024	0.492	No	230	n/a	n/a	15.65	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	ARGWC-15	950	n/a	8/21/2024	4.47	No	230	n/a	n/a	15.65	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	ARGWC-16	950	n/a	8/21/2024	350	No	230	n/a	n/a	15.65	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	ARGWC-17	950	n/a	8/21/2024	143	No	230	n/a	n/a	15.65	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	ARGWC-18	950	n/a	8/21/2024	199	No	230	n/a	n/a	15.65	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	ARGWC-7	950	n/a	8/21/2024	32.1	No	230	n/a	n/a	15.65	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	ARGWC-8	950	n/a	8/21/2024	48.7	No	230	n/a	n/a	15.65	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	ARGWC-9	950	n/a	8/21/2024	1.42	No	230	n/a	n/a	15.65	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	ARGWC-10	1500	n/a	8/21/2024	90	No	109	n/a	n/a	0	n/a	n/a	0.0001667	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	ARGWC-15	1500	n/a	8/21/2024	168	No	109	n/a	n/a	0	n/a	n/a	0.0001667	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	ARGWC-16	1500	n/a	8/21/2024	601	No	109	n/a	n/a	0	n/a	n/a	0.0001667	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	ARGWC-17	1500	n/a	8/21/2024	235	No	109	n/a	n/a	0	n/a	n/a	0.0001667	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	ARGWC-18	1500	n/a	8/21/2024	460	No	109	n/a	n/a	0	n/a	n/a	0.0001667	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	ARGWC-7	1500	n/a	8/21/2024	119	No	109	n/a	n/a	0	n/a	n/a	0.0001667	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	ARGWC-8	1500	n/a	8/21/2024	266	No	109	n/a	n/a	0	n/a	n/a	0.0001667	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	ARGWC-9	1500	n/a	8/21/2024	74	No	109	n/a	n/a	0	n/a	n/a	0.0001667	NP Inter (normality) 1 of 2

Appendix III Trend Tests - Significant Results

Plant Arkwright Client: Southern Company Data: Arkwright No 3 Printed 10/3/2024, 11:28 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	**ARGWA-13 (bg)**	**0.08897**	**129**	**87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**ARGWA-24 (bg)**	**-0.02099**	**-28**	**-25**	**Yes**	**9**	**44.44**	**n/a**	**n/a**	**0.01**	**NP**
pH (SU)	**ARGWC-17**	**-0.04639**	**-118**	**-98**	**Yes**	**23**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**ARGWA-13 (bg)**	**47.51**	**333**	**191**	**Yes**	**36**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**ARGWA-14 (bg)**	**-13.08**	**-389**	**-176**	**Yes**	**34**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**ARGWC-16**	**14.92**	**406**	**191**	**Yes**	**36**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**ARGWC-7**	**-6.016**	**-7.905**	**-2.58**	**Yes**	**43**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**ARGWC-8**	**-4.099**	**-568**	**-191**	**Yes**	**36**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**ARGWC-9**	**0.0742**	**330**	**184**	**Yes**	**35**	**5.714**	**n/a**	**n/a**	**0.01**	**NP**

Appendix III Trend Tests - All Results

Plant Arkwright Client: Southern Company Data: Arkwright No 3 Printed 10/3/2024, 11:28 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	ARGWA-12 (bg)	0	-31	-87	No	21	42.86	n/a	n/a	0.01	NP
Boron (mg/L)	**ARGWA-13 (bg)**	**0.08897**	**129**	**87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	ARGWA-14 (bg)	0	0	87	No	21	19.05	n/a	n/a	0.01	NP
Boron (mg/L)	**ARGWA-24 (bg)**	**-0.02099**	**-28**	**-25**	**Yes**	**9**	**44.44**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	ARGWA-3 (bg)	0	-32	-87	No	21	80.95	n/a	n/a	0.01	NP
Boron (mg/L)	ARGWA-5 (bg)	0	-63	-87	No	21	71.43	n/a	n/a	0.01	NP
Boron (mg/L)	ARGWC-18	0.02549	53	87	No	21	0	n/a	n/a	0.01	NP
pH (SU)	ARGWA-12 (bg)	-0.008528	-31	-92	No	22	0	n/a	n/a	0.01	NP
pH (SU)	ARGWA-13 (bg)	0.00465	20	92	No	22	0	n/a	n/a	0.01	NP
pH (SU)	ARGWA-14 (bg)	-0.01103	-12	-92	No	22	0	n/a	n/a	0.01	NP
pH (SU)	ARGWA-24 (bg)	-0.03536	-9	-25	No	9	0	n/a	n/a	0.01	NP
pH (SU)	ARGWA-3 (bg)	0.01186	42	105	No	24	0	n/a	n/a	0.01	NP
pH (SU)	ARGWA-5 (bg)	-0.01483	-42	-105	No	24	0	n/a	n/a	0.01	NP
pH (SU)	ARGWC-16	-0.01266	-64	-105	No	24	0	n/a	n/a	0.01	NP
pH (SU)	**ARGWC-17**	**-0.04639**	**-118**	**-98**	**Yes**	**23**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	ARGWA-12 (bg)	-0.1446	-104	-191	No	36	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**ARGWA-13 (bg)**	**47.51**	**333**	**191**	**Yes**	**36**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**ARGWA-14 (bg)**	**-13.08**	**-389**	**-176**	**Yes**	**34**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	ARGWA-24 (bg)	-0.6184	-25	-25	No	9	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	ARGWA-3 (bg)	0	-1.043	-2.58	No	57	31.58	n/a	n/a	0.01	NP
Sulfate (mg/L)	ARGWA-5 (bg)	0	-0.6407	-2.58	No	58	31.03	n/a	n/a	0.01	NP
Sulfate (mg/L)	ARGWC-10	0.001843	128	191	No	36	41.67	n/a	n/a	0.01	NP
Sulfate (mg/L)	ARGWC-15	0.06364	55	191	No	36	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**ARGWC-16**	**14.92**	**406**	**191**	**Yes**	**36**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	ARGWC-17	-1.043	-48	-176	No	34	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	ARGWC-18	0.7115	139	191	No	36	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**ARGWC-7**	**-6.016**	**-7.905**	**-2.58**	**Yes**	**43**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**ARGWC-8**	**-4.099**	**-568**	**-191**	**Yes**	**36**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**ARGWC-9**	**0.0742**	**330**	**184**	**Yes**	**35**	**5.714**	**n/a**	**n/a**	**0.01**	**NP**

Upper Tolerance Limits

Plant Arkwright Client: Southern Company Data: Arkwright No 3 Printed 10/3/2024, 11:37 AM

Constituent	Well	Upper Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Antimony (mg/L)	n/a	0.003	n/a	n/a	n/a	104	96.15	n/a	0.004822	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.00593	n/a	n/a	n/a	235	82.13	n/a	NaN	NP Inter(NDs)
Barium (mg/L)	n/a	0.24	n/a	n/a	n/a	232	0	n/a	NaN	NP Inter(normality)
Beryllium (mg/L)	n/a	0.0005	n/a	n/a	n/a	114	97.37	n/a	0.002887	NP Inter(NDs)
Cadmium (mg/L)	n/a	0.0043	n/a	n/a	n/a	227	95.15	n/a	NaN	NP Inter(NDs)
Chromium (mg/L)	n/a	0.0139	n/a	n/a	n/a	114	68.42	n/a	0.002887	NP Inter(NDs)
Cobalt (mg/L)	n/a	0.0058	n/a	n/a	n/a	119	81.51	n/a	0.002234	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	n/a	4.25	n/a	n/a	n/a	114	2.632	n/a	0.002887	NP Inter(normality)
Fluoride (mg/L)	n/a	0.53	n/a	n/a	n/a	124	27.42	n/a	0.001729	NP Inter(normality)
Lead (mg/L)	n/a	0.013	n/a	n/a	n/a	233	90.56	n/a	NaN	NP Inter(NDs)
Lithium (mg/L)	n/a	0.01	n/a	n/a	n/a	118	48.31	n/a	0.002352	NP Inter(normality)
Mercury (mg/L)	n/a	0.0002	n/a	n/a	n/a	99	96.97	n/a	0.006232	NP Inter(NDs)
Molybdenum (mg/L)	n/a	0.004	n/a	n/a	n/a	119	83.19	n/a	0.002234	NP Inter(NDs)
Selenium (mg/L)	n/a	0.034	n/a	n/a	n/a	235	82.55	n/a	NaN	NP Inter(NDs)
Silver (mg/L)	n/a	0.0051	n/a	n/a	n/a	203	95.07	n/a	NaN	NP Inter(NDs)
Thallium (mg/L)	n/a	0.002	n/a	n/a	n/a	114	93.86	n/a	0.002887	NP Inter(NDs)

PLANT ARKWRIGHT AP #3 GWPS				
Constituent Name	**MCL**	**CCR-Rule Specified Level**	**Background Limit**	**GWPS**
Antimony, Total (mg/L)	0.006		0.003	0.006
Arsenic, Total (mg/L)	0.01		0.006	0.01
Barium, Total (mg/L)	2		0.24	2
Beryllium, Total (mg/L)	0.004		0.0005	0.004
Cadmium, Total (mg/L)	0.005		0.0043	0.005
Chromium, Total (mg/L)	0.1		0.014	0.1
Cobalt, Total (mg/L)	n/a	0.006	0.0058	0.006
Combined Radium, Total (pCi/L)	5		4.25	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	0.01	0.04
Mercury, Total (mg/L)	0.002		0.0002	0.002
Molybdenum, Total (mg/L)	n/a	0.1	0.004	0.1
Selenium, Total (mg/L)	0.05		0.034	0.05
Silver, Total (mg/L)	n/a		0.0051	0.0051
Thallium, Total (mg/L)	0.002		0.002	0.002

**MCL = Maximum Contaminant Level*

**GWPS = Groundwater Protection Standard*

**CCR = Coal Combustion Residuals*

Confidence Interval - Significant Results

Plant Arkwright Client: Southern Company Data: Arkwright No 3 Printed 10/3/2024, 11:52 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Cobalt (mg/L)	**ARGWC-17**	**0.03319**	**0.02124**	**0.006**	**Yes**	**22**	**0**	**sqrt(x)**	**0.01**	**Param.**
Thallium (mg/L)	**ARAMW-4**	**0.002**	**0.002**	**0.002**	**Yes**	**10**	**90**	**No**	**0.011**	**NP (NDs)**

Confidence Interval - All Results

Plant Arkwright Client: Southern Company Data: Arkwright No 3 Printed 10/3/2024, 11:52 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Lower Compl.	Sig.	N	%NDs	Transform	Alpha	Method
Antimony (mg/L)	ARGWC-10	0.003	0.00094	0.006	n/a	No	19	94.74	No	0.01	NP (NDs)
Antimony (mg/L)	ARGWC-7	0.003	0.0013	0.006	n/a	No	19	94.74	No	0.01	NP (NDs)
Antimony (mg/L)	ARGWC-9	0.003	0.00048	0.006	n/a	No	19	94.74	No	0.01	NP (NDs)
Arsenic (mg/L)	ARAMW-4	0.005	0.00035	0.01	n/a	No	10	40	No	0.011	NP (normality)
Arsenic (mg/L)	ARGWC-10	0.005	0.0019	0.01	n/a	No	23	86.96	No	0.01	NP (NDs)
Arsenic (mg/L)	ARGWC-15	0.005	0.0024	0.01	n/a	No	23	86.96	No	0.01	NP (NDs)
Arsenic (mg/L)	ARGWC-16	0.005	0.00431	0.01	n/a	No	23	78.26	No	0.01	NP (NDs)
Arsenic (mg/L)	ARGWC-17	0.005	0.0015	0.01	n/a	No	23	73.91	No	0.01	NP (NDs)
Arsenic (mg/L)	ARGWC-18	0.005	0.0016	0.01	n/a	No	23	82.61	No	0.01	NP (NDs)
Arsenic (mg/L)	ARGWC-7	0.005	0.0048	0.01	n/a	No	23	86.96	No	0.01	NP (NDs)
Arsenic (mg/L)	ARGWC-8	0.005	0.00337	0.01	n/a	No	23	78.26	No	0.01	NP (NDs)
Arsenic (mg/L)	ARGWC-9	0.005	0.00457	0.01	n/a	No	23	86.96	No	0.01	NP (NDs)
Barium (mg/L)	ARAMW-4	0.04617	0.03298	2	n/a	No	10	0	sqrt(x)	0.01	Param.
Barium (mg/L)	ARGWC-10	0.03384	0.03116	2	n/a	No	23	0	No	0.01	Param.
Barium (mg/L)	ARGWC-15	0.037	0.029	2	n/a	No	23	0	No	0.01	NP (normality)
Barium (mg/L)	ARGWC-16	0.05164	0.04344	2	n/a	No	23	0	No	0.01	Param.
Barium (mg/L)	ARGWC-17	0.0566	0.04608	2	n/a	No	23	0	x^(1/3)	0.01	Param.
Barium (mg/L)	ARGWC-18	0.04001	0.03625	2	n/a	No	23	0	No	0.01	Param.
Barium (mg/L)	ARGWC-7	0.04567	0.03786	2	n/a	No	23	0	No	0.01	Param.
Barium (mg/L)	ARGWC-8	0.05342	0.04603	2	n/a	No	23	0	No	0.01	Param.
Barium (mg/L)	ARGWC-9	0.04615	0.04128	2	n/a	No	23	0	No	0.01	Param.
Beryllium (mg/L)	ARGWC-16	0.0005	0.00027	0.004	n/a	No	21	95.24	No	0.01	NP (NDs)
Beryllium (mg/L)	ARGWC-17	0.0025	0.000344	0.004	n/a	No	21	33.33	No	0.01	NP (normality)
Beryllium (mg/L)	ARGWC-18	0.0005	0.00034	0.004	n/a	No	21	95.24	No	0.01	NP (NDs)
Beryllium (mg/L)	ARGWC-7	0.0005	0.00041	0.004	n/a	No	21	90.48	No	0.01	NP (NDs)
Beryllium (mg/L)	ARGWC-8	0.0005	0.00047	0.004	n/a	No	21	95.24	No	0.01	NP (NDs)
Beryllium (mg/L)	ARGWC-9	0.0005	0.00037	0.004	n/a	No	21	95.24	No	0.01	NP (NDs)
Cadmium (mg/L)	ARAMW-4	0.001	0.00023	0.005	n/a	No	9	77.78	No	0.002	NP (NDs)
Cadmium (mg/L)	ARGWC-16	0.001	0.0001	0.005	n/a	No	22	95.45	No	0.01	NP (NDs)
Cadmium (mg/L)	ARGWC-17	0.001	0.000445	0.005	n/a	No	22	77.27	No	0.01	NP (NDs)
Chromium (mg/L)	ARGWC-10	0.005351	0.004605	0.1	n/a	No	21	0	sqrt(x)	0.01	Param.
Chromium (mg/L)	ARGWC-15	0.01	0.0087	0.1	n/a	No	21	85.71	No	0.01	NP (NDs)
Chromium (mg/L)	ARGWC-16	0.0027	0.0017	0.1	n/a	No	21	23.81	No	0.01	NP (normality)
Chromium (mg/L)	ARGWC-17	0.01	0.0021	0.1	n/a	No	21	85.71	No	0.01	NP (NDs)
Chromium (mg/L)	ARGWC-7	0.00384	0.003185	0.1	n/a	No	21	4.762	No	0.01	Param.
Chromium (mg/L)	ARGWC-8	0.01	0.0017	0.1	n/a	No	21	90.48	No	0.01	NP (NDs)
Chromium (mg/L)	ARGWC-9	0.009422	0.007738	0.1	n/a	No	21	0	sqrt(x)	0.01	Param.
Cobalt (mg/L)	ARAMW-4	0.005185	0.00325	0.006	n/a	No	12	0	No	0.01	Param.
Cobalt (mg/L)	ARGWC-10	0.001	0.00019	0.006	n/a	No	22	81.82	No	0.01	NP (NDs)
Cobalt (mg/L)	ARGWC-15	0.001579	0.0003409	0.006	n/a	No	22	40.91	ln(x)	0.01	Param.
Cobalt (mg/L)	ARGWC-16	0.001	0.00026	0.006	n/a	No	22	86.36	No	0.01	NP (NDs)
Cobalt (mg/L)	**ARGWC-17**	**0.03319**	**0.02124**	**0.006**	**n/a**	**Yes**	**22**	**0**	**sqrt(x)**	**0.01**	**Param.**
Cobalt (mg/L)	ARGWC-18	0.001437	0.00114	0.006	n/a	No	22	0	No	0.01	Param.
Cobalt (mg/L)	ARGWC-7	0.001	0.00034	0.006	n/a	No	22	90.91	No	0.01	NP (NDs)
Cobalt (mg/L)	ARGWC-8	0.001	0.00023	0.006	n/a	No	22	63.64	No	0.01	NP (NDs)
Cobalt (mg/L)	ARGWC-9	0.001	0.00021	0.006	n/a	No	22	86.36	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	ARAMW-4	1.449	0.5007	5	n/a	No	10	10	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	ARGWC-10	0.5	0.0831	5	n/a	No	21	4.762	No	0.01	NP (normality)
Combined Radium 226 + 228 (pCi/L)	ARGWC-15	1.006	0.4323	5	n/a	No	21	4.762	ln(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	ARGWC-16	0.712	0.227	5	n/a	No	21	0	No	0.01	NP (normality)
Combined Radium 226 + 228 (pCi/L)	ARGWC-17	1.05	0.118	5	n/a	No	21	0	No	0.01	NP (normality)
Combined Radium 226 + 228 (pCi/L)	ARGWC-18	0.693	0.331	5	n/a	No	21	4.762	No	0.01	NP (normality)
Combined Radium 226 + 228 (pCi/L)	ARGWC-7	0.804	0.281	5	n/a	No	21	0	No	0.01	NP (normality)
Combined Radium 226 + 228 (pCi/L)	ARGWC-8	0.618	0.218	5	n/a	No	21	4.762	No	0.01	NP (normality)
Combined Radium 226 + 228 (pCi/L)	ARGWC-9	0.6039	0.182	5	n/a	No	21	0	No	0.01	Param.
Fluoride (mg/L)	ARAMW-4	0.09075	0.03208	4	n/a	No	11	9.091	ln(x)	0.01	Param.
Fluoride (mg/L)	ARGWC-10	0.0857	0.04878	4	n/a	No	23	39.13	x^(1/3)	0.01	Param.
Fluoride (mg/L)	ARGWC-15	0.1536	0.08698	4	n/a	No	23	17.39	No	0.01	Param.
Fluoride (mg/L)	ARGWC-16	0.1	0.038	4	n/a	No	23	52.17	No	0.01	NP (NDs)
Fluoride (mg/L)	ARGWC-17	0.1	0.055	4	n/a	No	23	60.87	No	0.01	NP (NDs)
Fluoride (mg/L)	ARGWC-18	0.1287	0.0797	4	n/a	No	22	4.545	sqrt(x)	0.01	Param.
Fluoride (mg/L)	ARGWC-7	0.1	0.062	4	n/a	No	23	65.22	No	0.01	NP (NDs)
Fluoride (mg/L)	ARGWC-8	0.1721	0.119	4	n/a	No	22	0	No	0.01	Param.
Fluoride (mg/L)	ARGWC-9	0.09774	0.04561	4	n/a	No	23	39.13	sqrt(x)	0.01	Param.
Lead (mg/L)	ARGWC-10	0.031	0.00013	0.015	n/a	No	23	91.3	No	0.01	NP (NDs)
Lead (mg/L)	ARGWC-15	0.002	0.0016	0.015	n/a	No	23	73.91	No	0.01	NP (NDs)
Lead (mg/L)	ARGWC-16	0.002	0.00021	0.015	n/a	No	23	95.65	No	0.01	NP (NDs)
Lead (mg/L)	ARGWC-17	0.002	0.00022	0.015	n/a	No	23	95.65	No	0.01	NP (NDs)

Confidence Interval - All Results

Plant Arkwright Client: Southern Company Data: Arkwright No 3 Printed 10/3/2024, 11:52 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Lower Compl.	Sig.	N	%NDs	Transform	Alpha	Method
Lead (mg/L)	ARGWC-18	0.002	0.00031	0.015	n/a	No	23	82.61	No	0.01	NP (NDs)
Lead (mg/L)	ARGWC-8	0.002	0.00024	0.015	n/a	No	23	91.3	No	0.01	NP (NDs)
Lead (mg/L)	ARGWC-9	0.002	0.00016	0.015	n/a	No	23	95.65	No	0.01	NP (NDs)
Lithium (mg/L)	ARAMW-4	0.01438	0.01218	0.04	n/a	No	11	0	No	0.01	Param.
Lithium (mg/L)	ARGWC-10	0.01	0.0055	0.04	n/a	No	22	81.82	No	0.01	NP (NDs)
Lithium (mg/L)	ARGWC-15	0.01	0.0045	0.04	n/a	No	22	72.73	No	0.01	NP (NDs)
Lithium (mg/L)	ARGWC-16	0.01	0.0076	0.04	n/a	No	22	81.82	No	0.01	NP (NDs)
Lithium (mg/L)	ARGWC-17	0.01	0.0071	0.04	n/a	No	22	81.82	No	0.01	NP (NDs)
Lithium (mg/L)	ARGWC-18	0.0048	0.0037	0.04	n/a	No	22	9.091	No	0.01	NP (normality)
Lithium (mg/L)	ARGWC-7	0.01	0.0034	0.04	n/a	No	22	54.55	No	0.01	NP (NDs)
Lithium (mg/L)	ARGWC-8	0.004068	0.003152	0.04	n/a	No	22	27.27	sqrt(x)	0.01	Param.
Lithium (mg/L)	ARGWC-9	0.01	0.0061	0.04	n/a	No	22	95.45	No	0.01	NP (NDs)
Mercury (mg/L)	ARGWC-10	0.0002	0.000077	0.002	n/a	No	18	94.44	No	0.01	NP (NDs)
Mercury (mg/L)	ARGWC-15	0.0002	0.000071	0.002	n/a	No	18	94.44	No	0.01	NP (NDs)
Mercury (mg/L)	ARGWC-16	0.0002	0.000094	0.002	n/a	No	18	66.67	No	0.01	NP (NDs)
Mercury (mg/L)	ARGWC-18	0.0002	0.000074	0.002	n/a	No	18	94.44	No	0.01	NP (NDs)
Mercury (mg/L)	ARGWC-7	0.0002	0.00007	0.002	n/a	No	18	94.44	No	0.01	NP (NDs)
Mercury (mg/L)	ARGWC-8	0.0002	0.000081	0.002	n/a	No	18	94.44	No	0.01	NP (NDs)
Molybdenum (mg/L)	ARAMW-4	0.001	0.000274	0.1	n/a	No	11	45.45	No	0.006	NP (normality)
Molybdenum (mg/L)	ARGWC-15	0.00212	0.00097	0.1	n/a	No	22	27.27	No	0.01	NP (normality)
Molybdenum (mg/L)	ARGWC-18	0.001	0.000288	0.1	n/a	No	22	95.45	No	0.01	NP (NDs)
Molybdenum (mg/L)	ARGWC-8	0.04328	0.0388	0.1	n/a	No	22	0	No	0.01	Param.
Selenium (mg/L)	ARAMW-4	0.005	0.00276	0.05	n/a	No	10	70	No	0.011	NP (NDs)
Selenium (mg/L)	ARGWC-10	0.005	0.0017	0.05	n/a	No	23	95.65	No	0.01	NP (NDs)
Selenium (mg/L)	ARGWC-15	0.005	0.0005	0.05	n/a	No	23	86.96	No	0.01	NP (NDs)
Selenium (mg/L)	ARGWC-16	0.003051	0.001596	0.05	n/a	No	23	4.348	No	0.01	Param.
Selenium (mg/L)	ARGWC-17	0.005	0.00231	0.05	n/a	No	23	91.3	No	0.01	NP (NDs)
Selenium (mg/L)	ARGWC-7	0.005	0.0028	0.05	n/a	No	23	91.3	No	0.01	NP (NDs)
Selenium (mg/L)	ARGWC-9	0.005	0.00029	0.05	n/a	No	23	91.3	No	0.01	NP (NDs)
Silver (mg/L)	ARGWC-15	0.001	0.00037	0.0051	n/a	No	18	88.89	No	0.01	NP (NDs)
Silver (mg/L)	ARGWC-16	0.001	0.00026	0.0051	n/a	No	18	94.44	No	0.01	NP (NDs)
Thallium (mg/L)	**ARAMW-4**	**0.002**	**0.002**	**0.002**	**n/a**	**Yes**	**10**	**90**	**No**	**0.011**	**NP (NDs)**
Thallium (mg/L)	ARGWC-15	0.002	0.000095	0.002	n/a	No	21	95.24	No	0.01	NP (NDs)
Thallium (mg/L)	ARGWC-16	0.002	0.00027	0.002	n/a	No	21	85.71	No	0.01	NP (NDs)
Thallium (mg/L)	ARGWC-17	0.002	0.00063	0.002	n/a	No	21	95.24	No	0.01	NP (NDs)
Thallium (mg/L)	ARGWC-18	0.002	0.00028	0.002	n/a	No	21	95.24	No	0.01	NP (NDs)

Appendix IV Trend Tests - Significant Results

Plant Arkwright Client: Southern Company Data: Arkwright No 3 Printed 10/3/2024, 12:01 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Cobalt (mg/L)	**ARGWC-17**	**0.001983**	**85**	**71**	**Yes**	**22**	**0**	**n/a**	**n/a**	**0.05**	**NP**

Appendix IV Trend Tests - All Results

Plant Arkwright Client: Southern Company Data: Arkwright No 3 Printed 10/3/2024, 12:01 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Cobalt (mg/L)	ARGWA-12 (bg)	-0.00002683	-59	-71	No	22	50	n/a	n/a	0.05	NP
Cobalt (mg/L)	ARGWA-13 (bg)	0	7	71	No	22	90.91	n/a	n/a	0.05	NP
Cobalt (mg/L)	ARGWA-14 (bg)	0	5	71	No	22	95.45	n/a	n/a	0.05	NP
Cobalt (mg/L)	ARGWA-24 (bg)	0	3	20	No	9	66.67	n/a	n/a	0.05	NP
Cobalt (mg/L)	ARGWA-3 (bg)	0	3	71	No	22	90.91	n/a	n/a	0.05	NP
Cobalt (mg/L)	ARGWA-5 (bg)	0	-6	-71	No	22	86.36	n/a	n/a	0.05	NP
Cobalt (mg/L)	**ARGWC-17**	**0.001983**	**85**	**71**	**Yes**	**22**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Thallium (mg/L)	ARAMW-4	0	9	23	No	10	90	n/a	n/a	0.05	NP
Thallium (mg/L)	ARGWA-12 (bg)	0	0	66	No	21	100	n/a	n/a	0.05	NP
Thallium (mg/L)	ARGWA-13 (bg)	0	0	66	No	21	100	n/a	n/a	0.05	NP
Thallium (mg/L)	ARGWA-14 (bg)	0	-4	-66	No	21	95.24	n/a	n/a	0.05	NP
Thallium (mg/L)	ARGWA-24 (bg)	0	0	20	No	9	100	n/a	n/a	0.05	NP
Thallium (mg/L)	ARGWA-3 (bg)	0	3	66	No	21	90.48	n/a	n/a	0.05	NP
Thallium (mg/L)	ARGWA-5 (bg)	0	-4	-66	No	21	80.95	n/a	n/a	0.05	NP

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FIGURE A.

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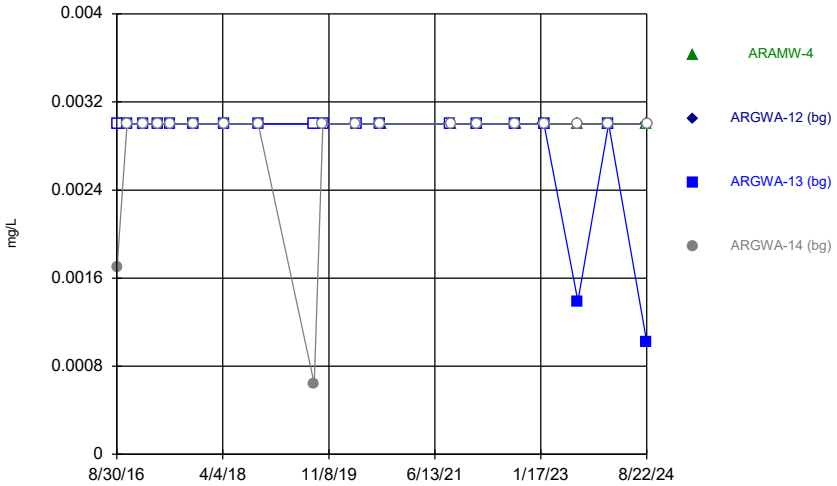
Time Series



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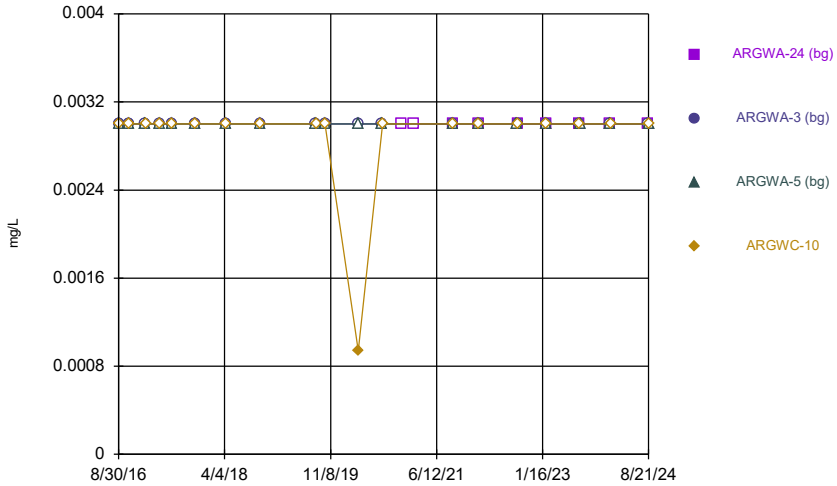

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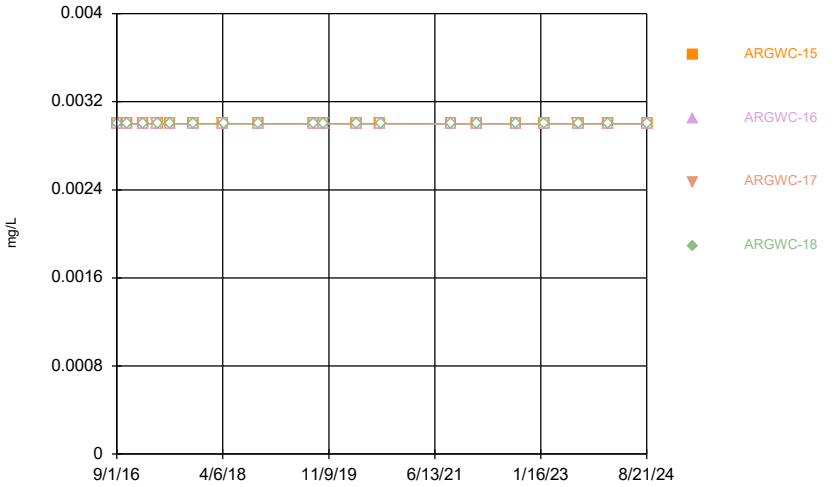

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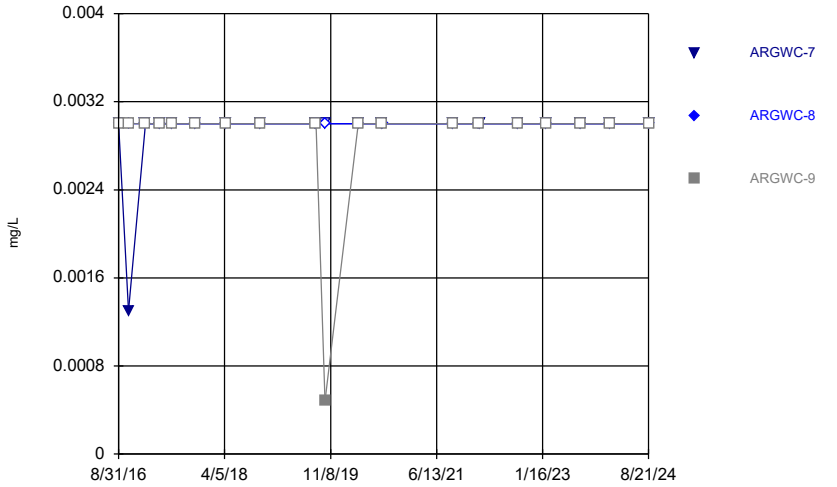

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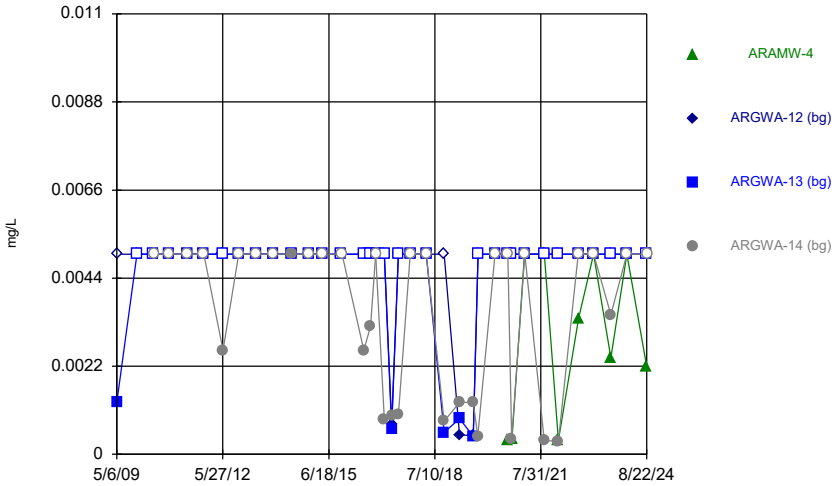

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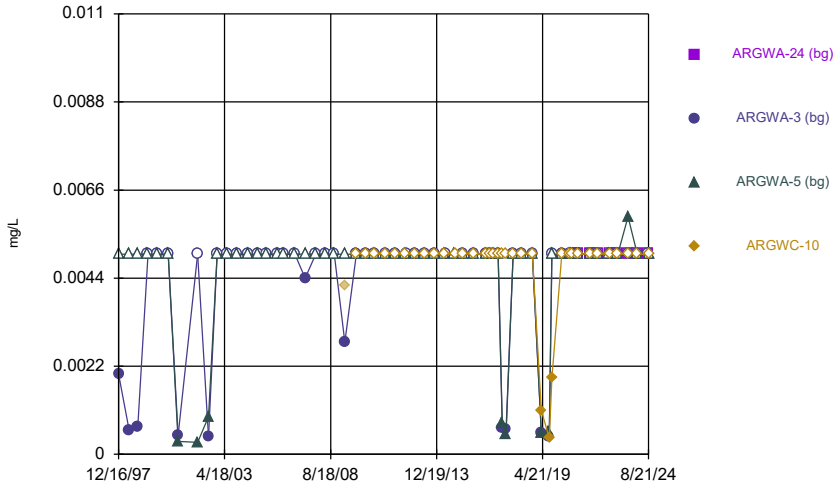

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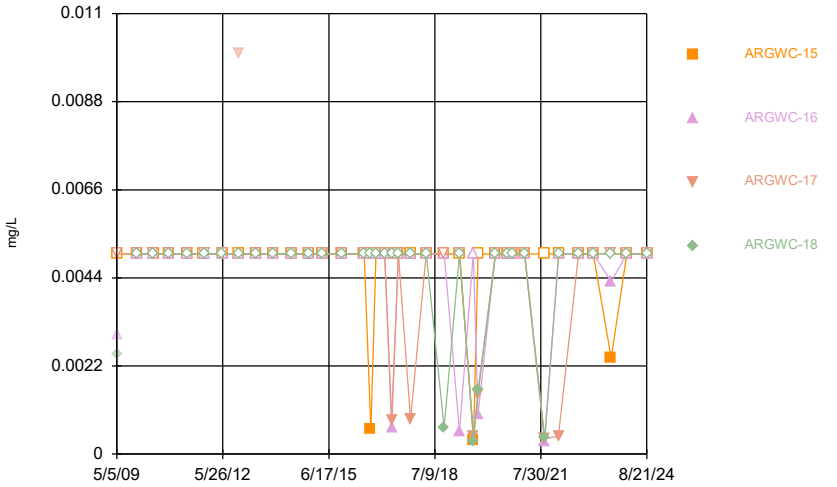

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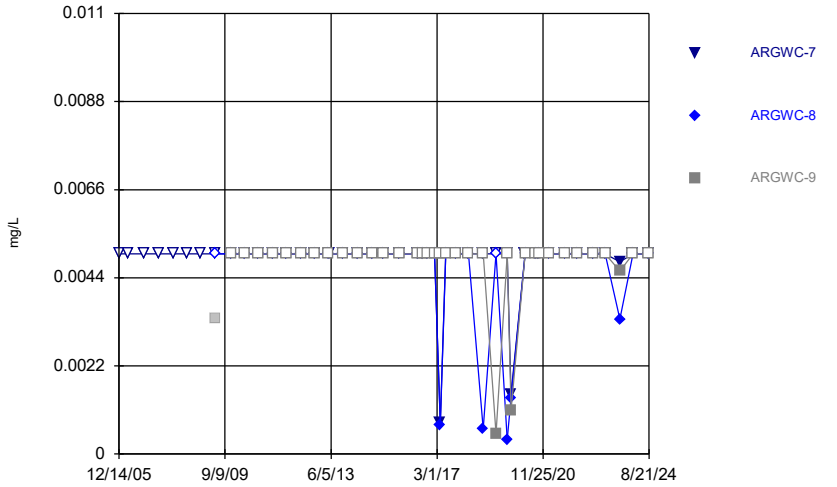

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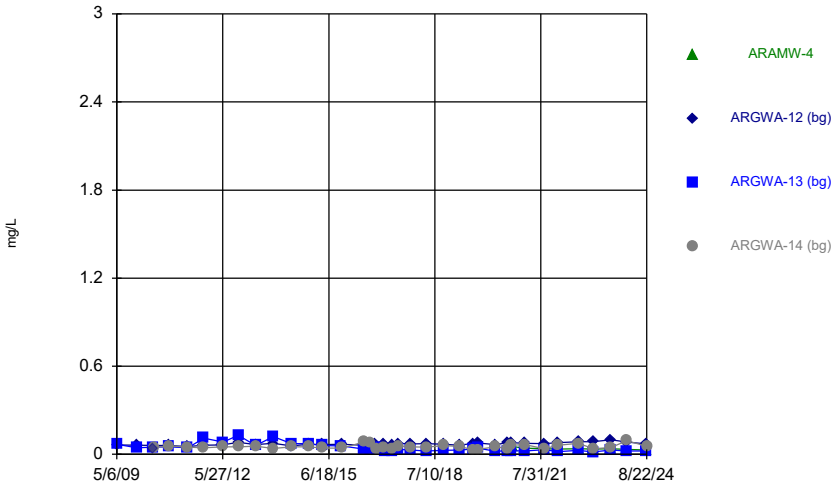
Time Series



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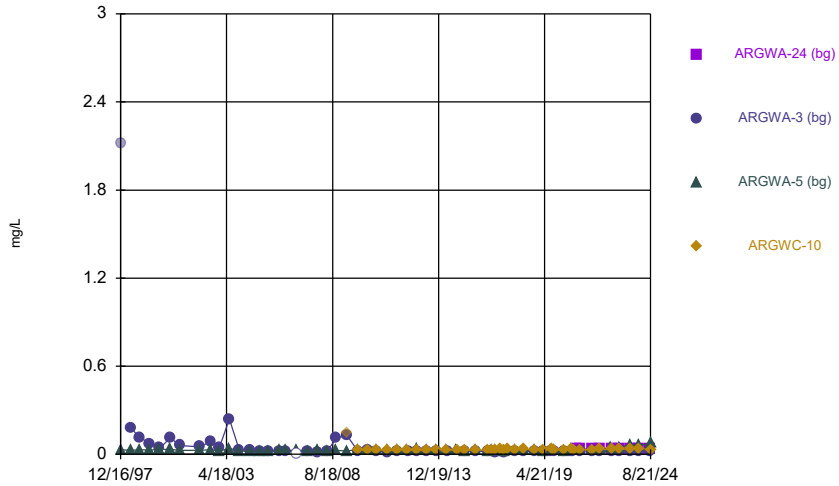

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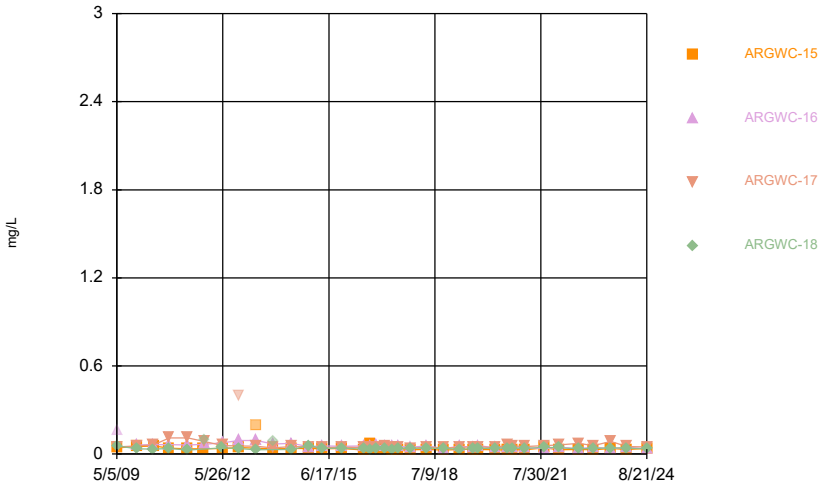
Time Series



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Plant Arkwright Client: Southern Company Data: Arkwright No 3

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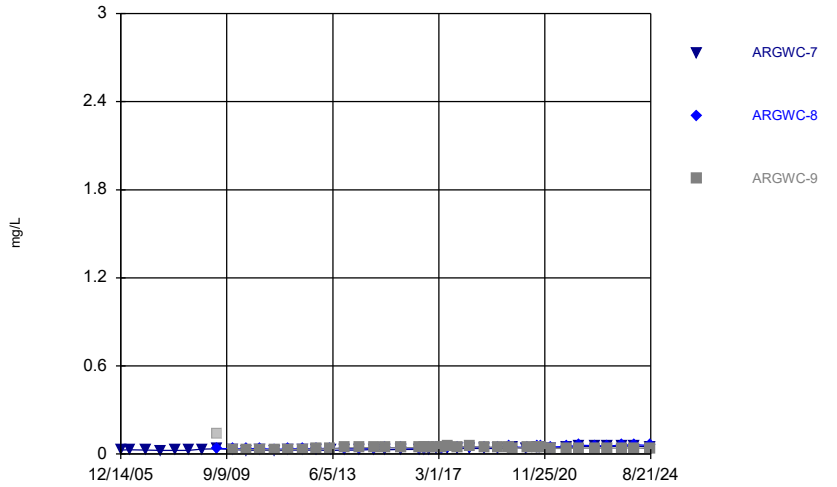
Time Series



Constituent: Barium Analysis Run 10/3/2024 12:12 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

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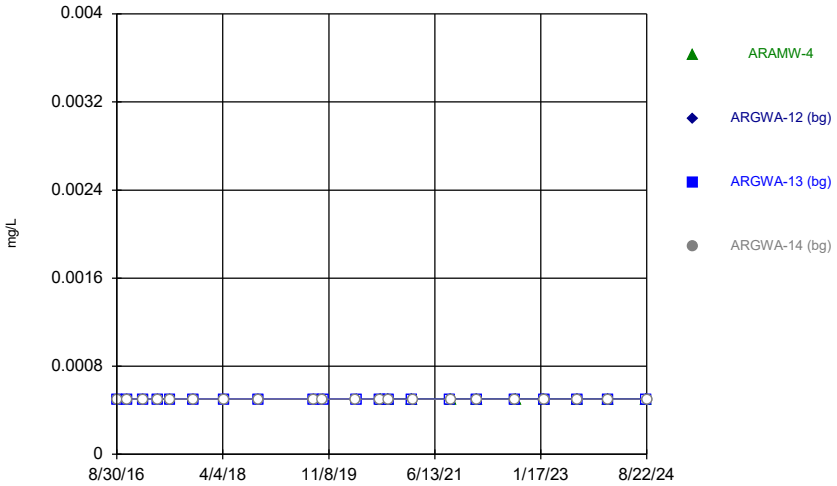
Hollow symbols indicate censored values.

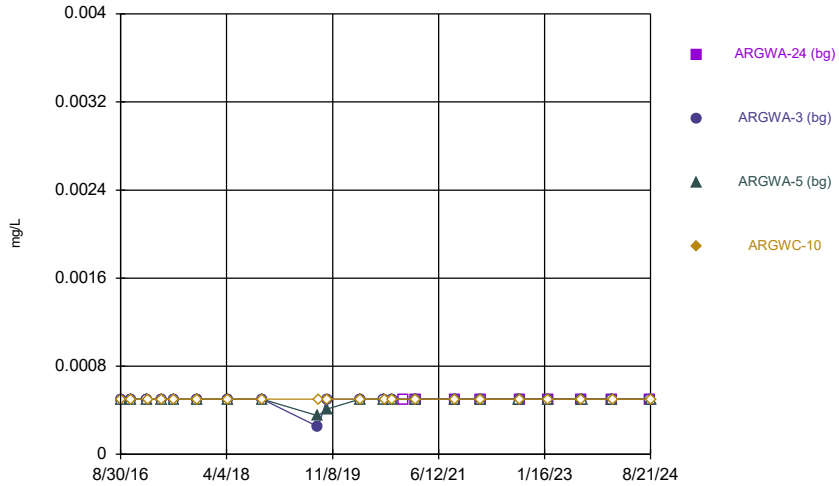
Time Series



Constituent: Beryllium Analysis Run 10/3/2024 12:12 PM
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



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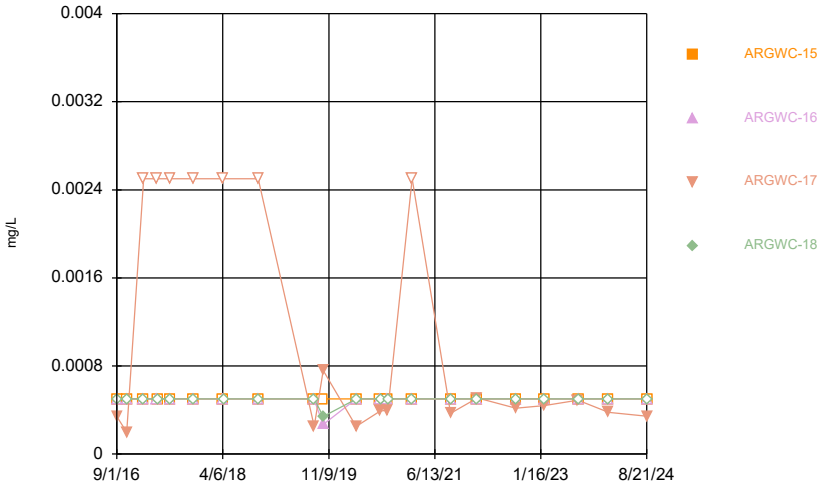
Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



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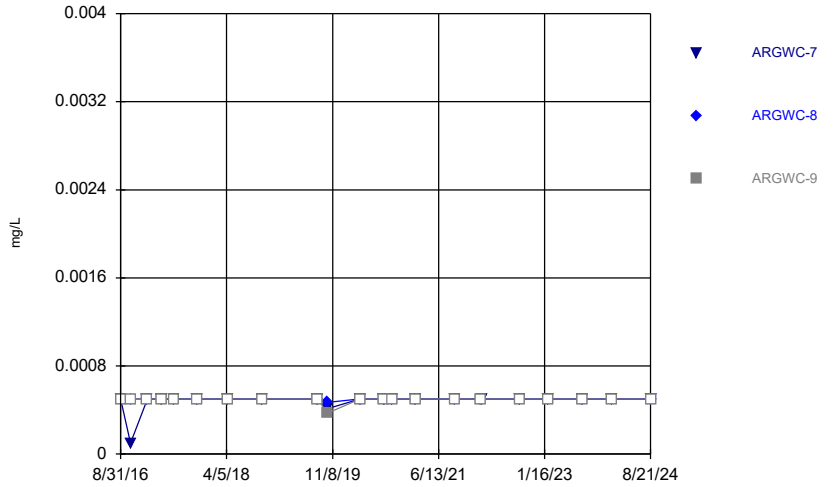
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



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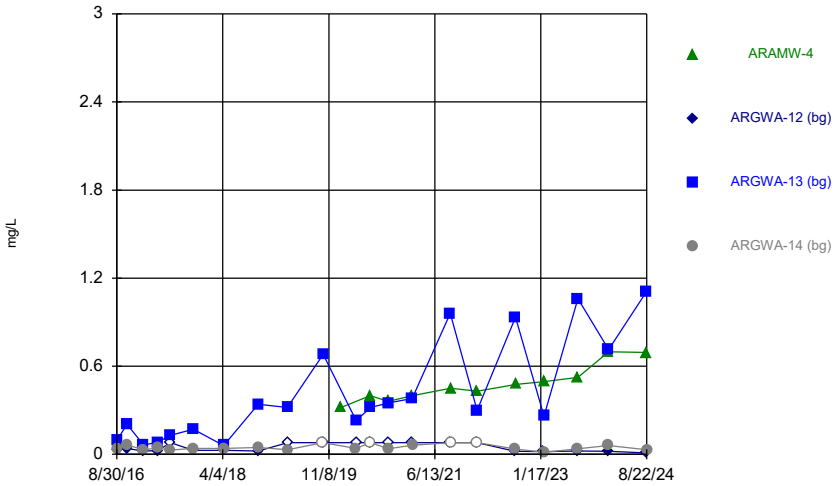
Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

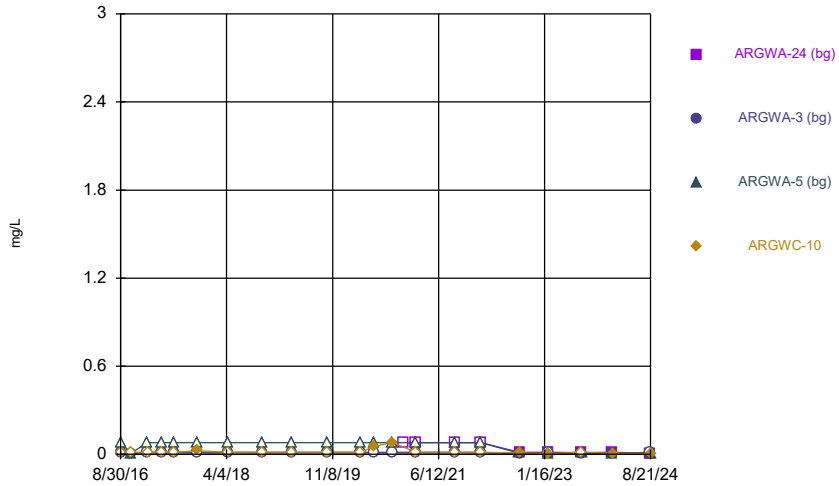
Time Series



Constituent: Boron Analysis Run 10/3/2024 12:12 PM
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



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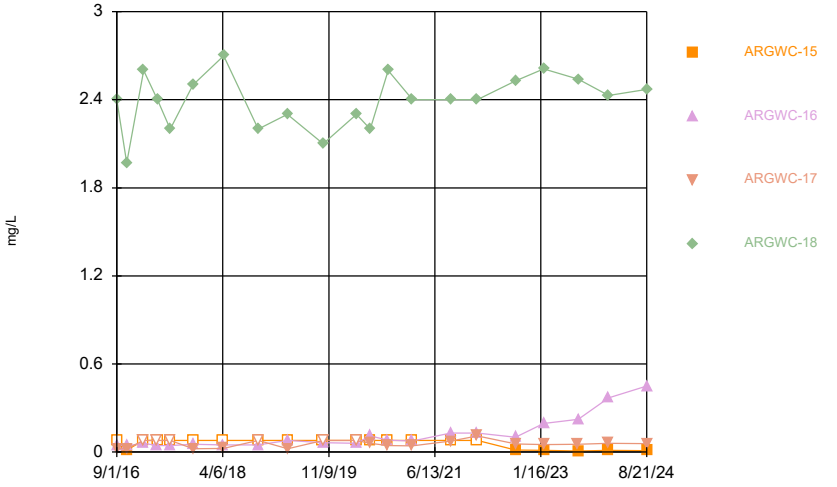
Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



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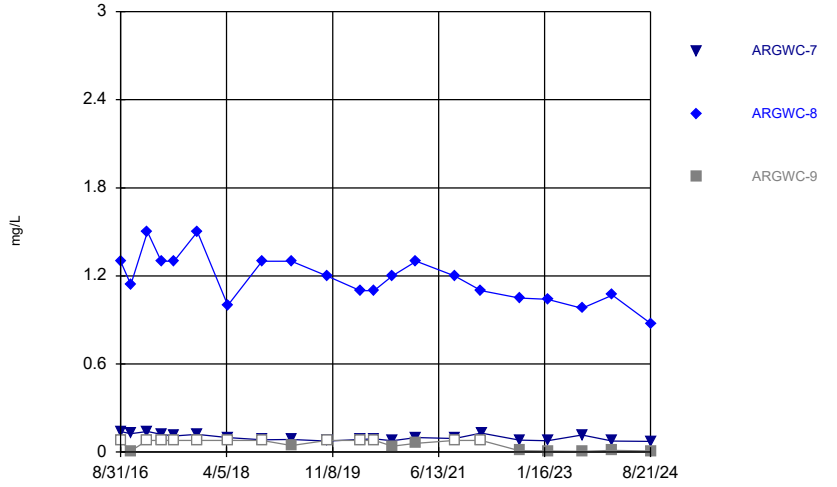
Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



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Plant Arkwright Client: Southern Company Data: Arkwright No 3

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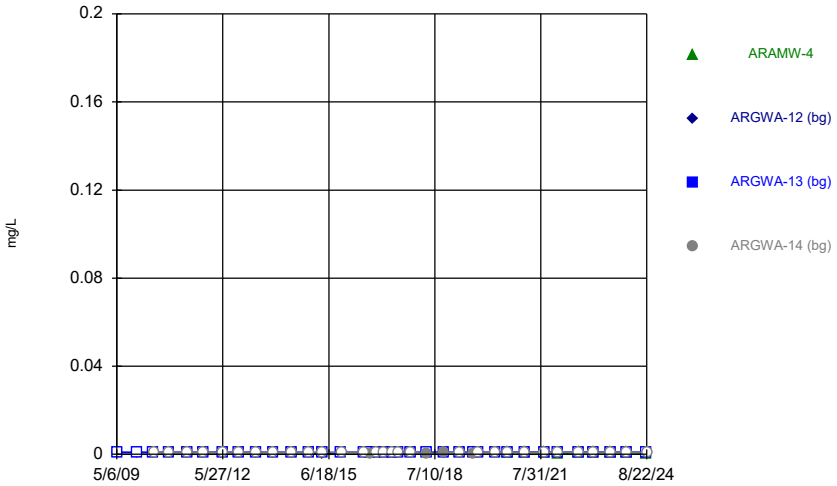
Hollow symbols indicate censored values.

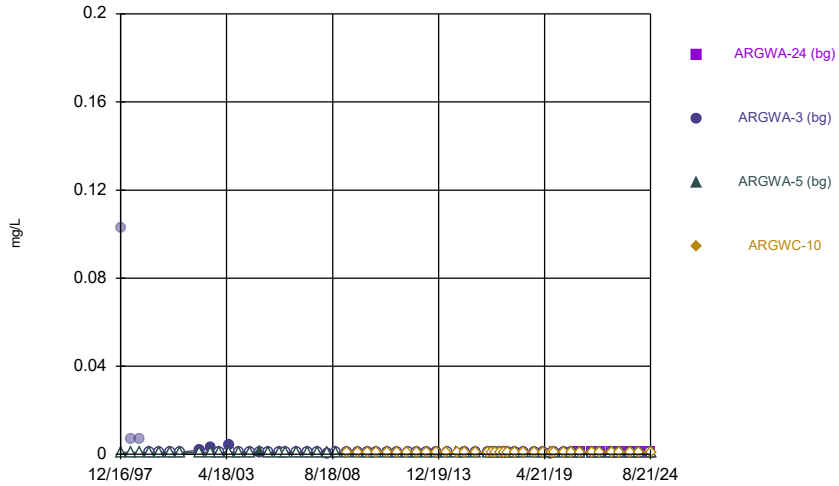
Time Series



Constituent: Cadmium Analysis Run 10/3/2024 12:12 PM
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



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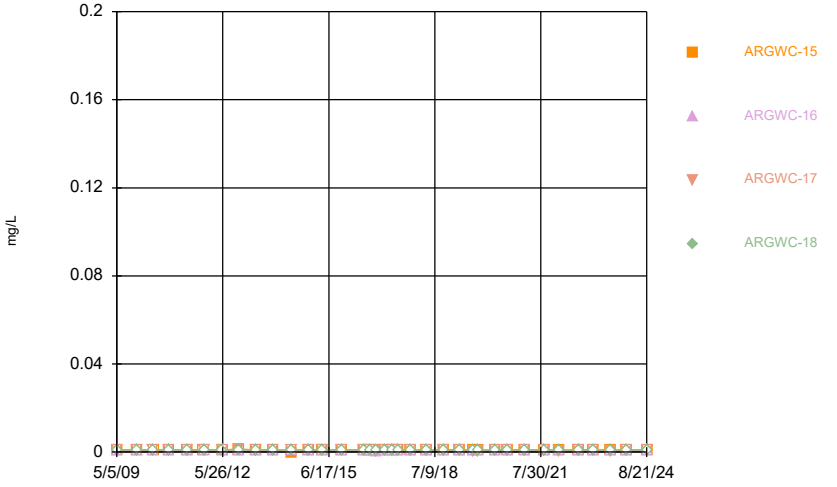
Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



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Plant Arkwright Client: Southern Company Data: Arkwright No 3

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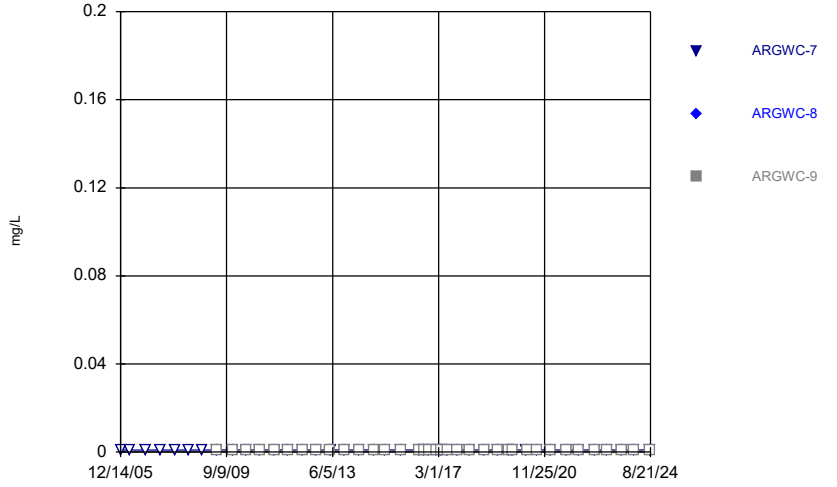
Hollow symbols indicate censored values.

Time Series



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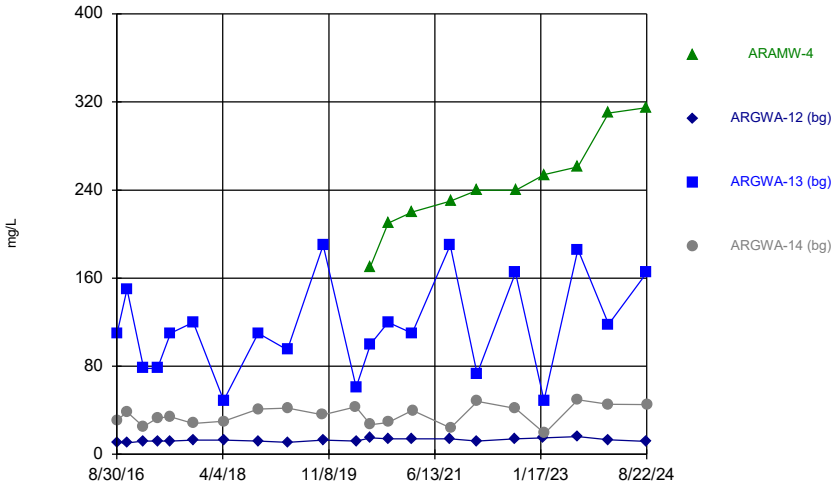
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG

Time Series

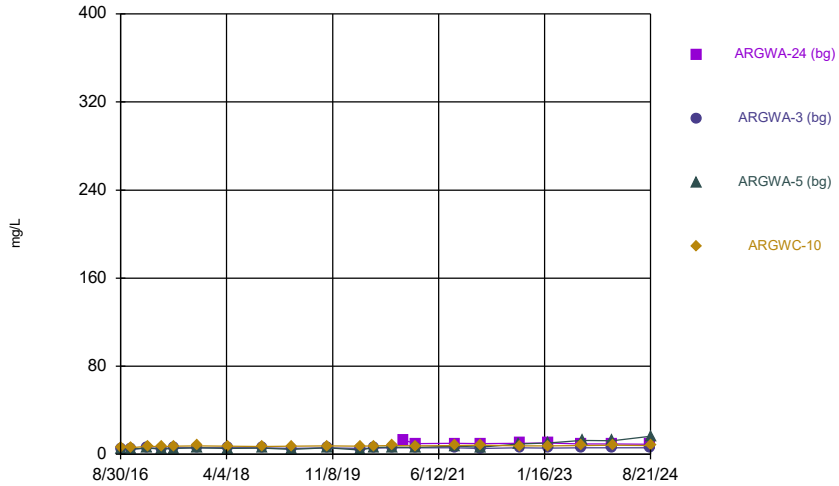


Constituent: Calcium Analysis Run 10/3/2024 12:12 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG

Time Series

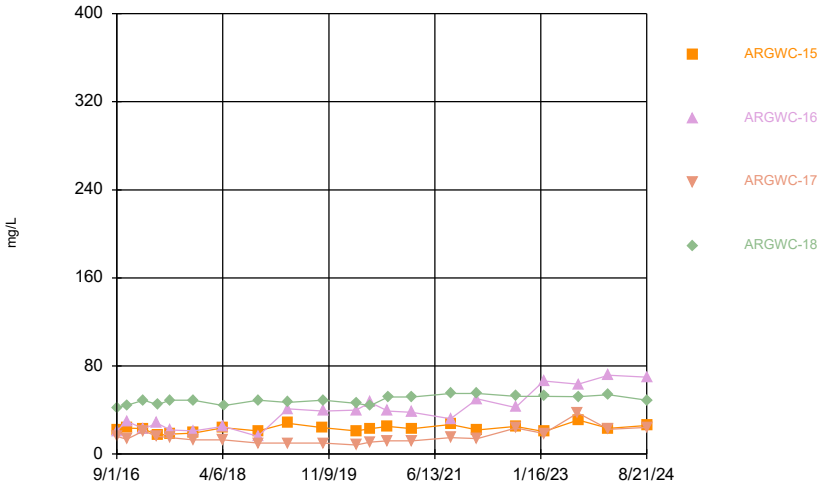


Constituent: Calcium Analysis Run 10/3/2024 12:12 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG

Time Series



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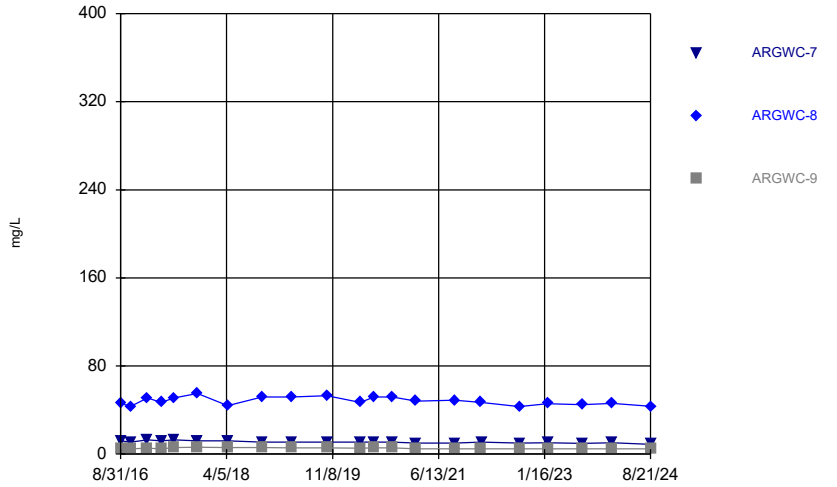
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG

Time Series



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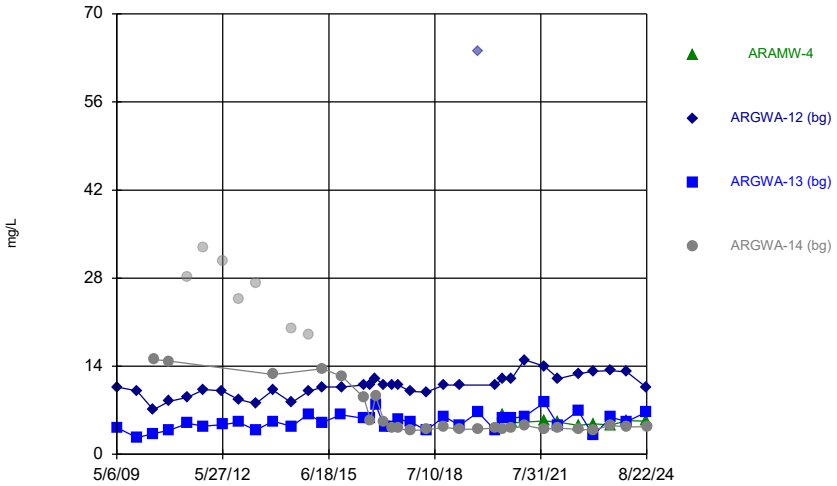
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG

Time Series



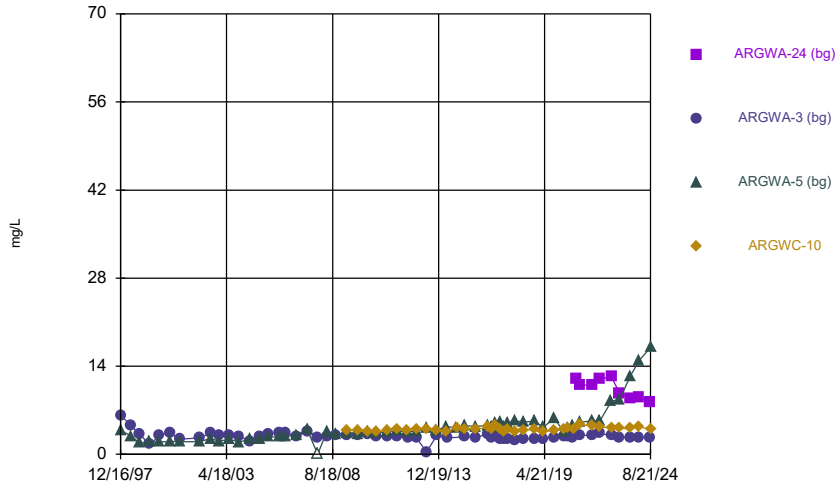
Constituent: Chloride Analysis Run 10/3/2024 12:12 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Time Series



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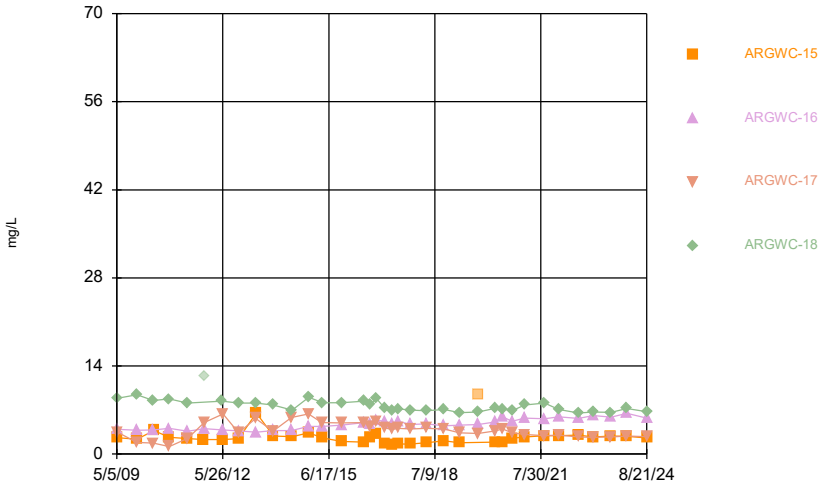
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG

Time Series



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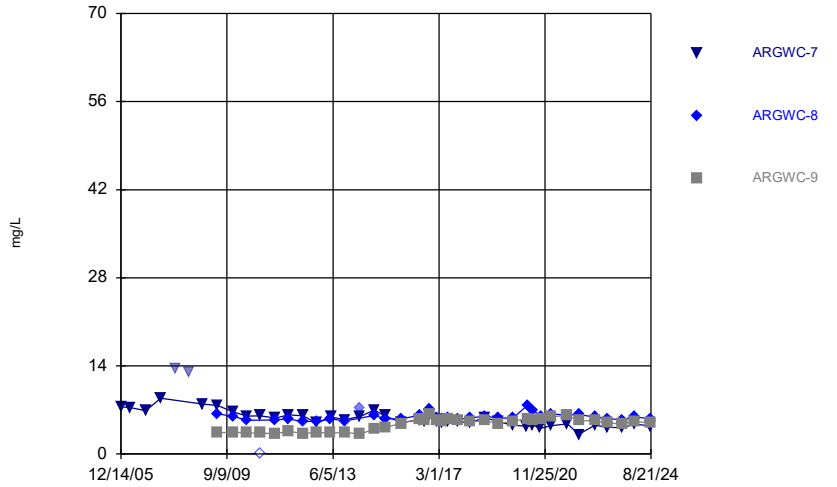
Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Time Series



Constituent: Chloride Analysis Run 10/3/2024 12:12 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG
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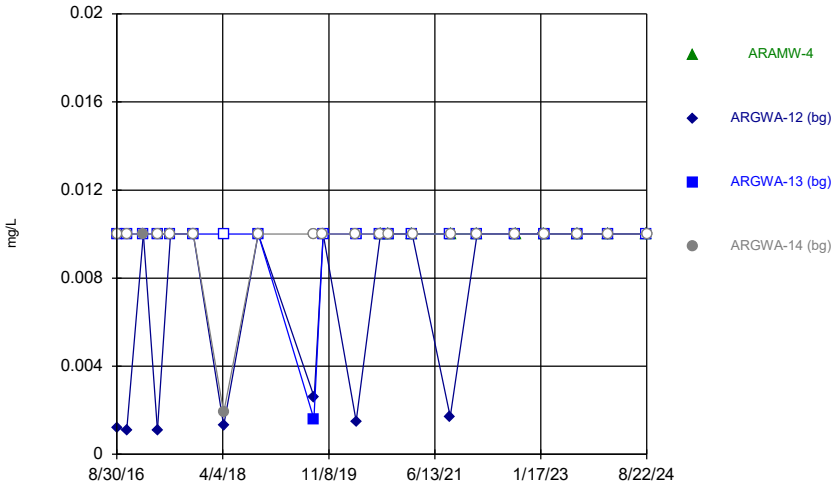
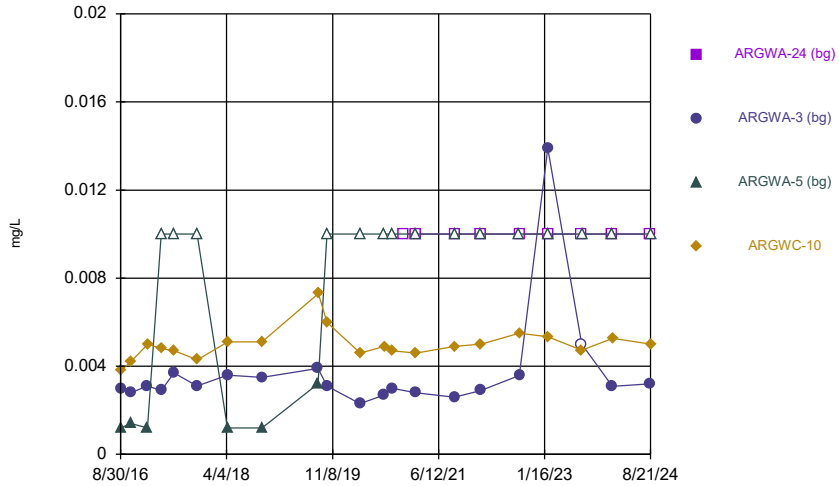
Time Series



Constituent: Chromium Analysis Run 10/3/2024 12:12 PM
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Chromium Analysis Run 10/3/2024 12:12 PM
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG
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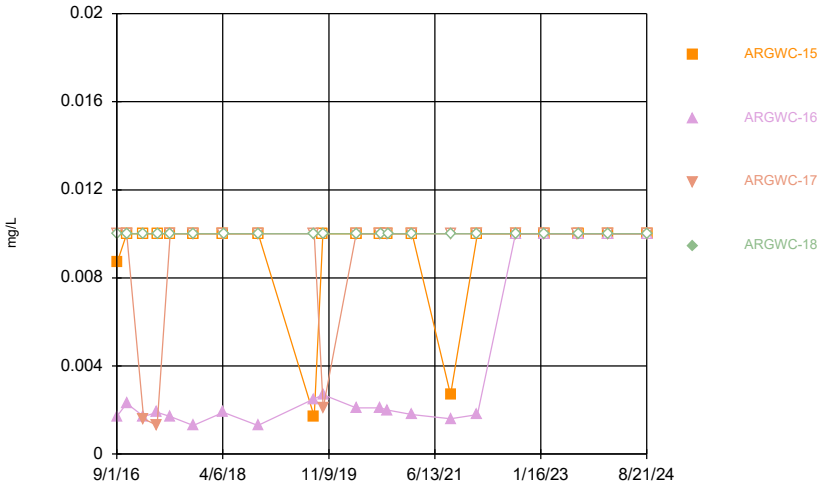
Time Series



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Plant Arkwright Client: Southern Company Data: Arkwright No 3

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG
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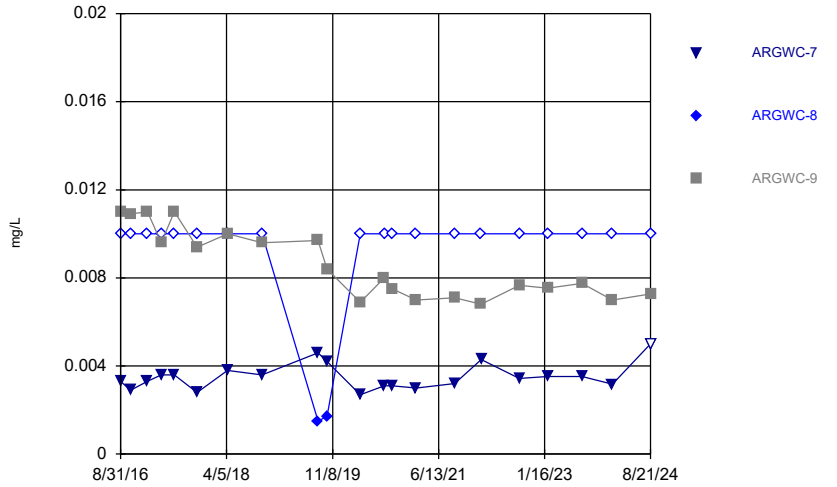
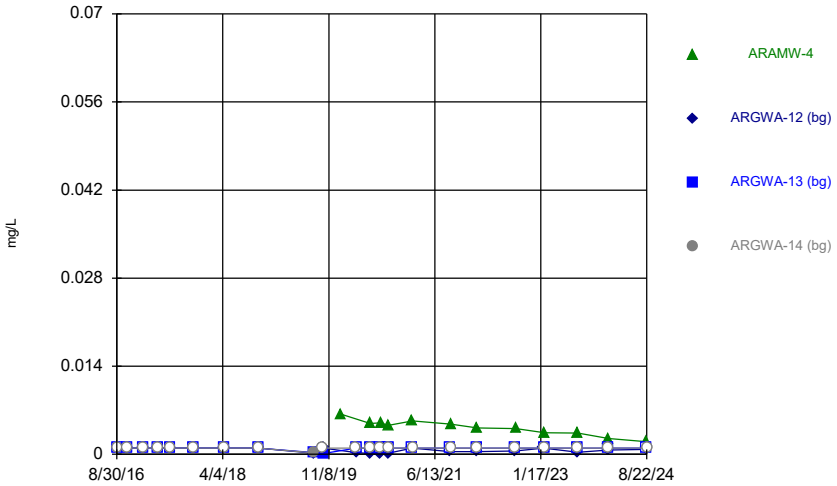
Time Series



Constituent: Chromium Analysis Run 10/3/2024 12:12 PM
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

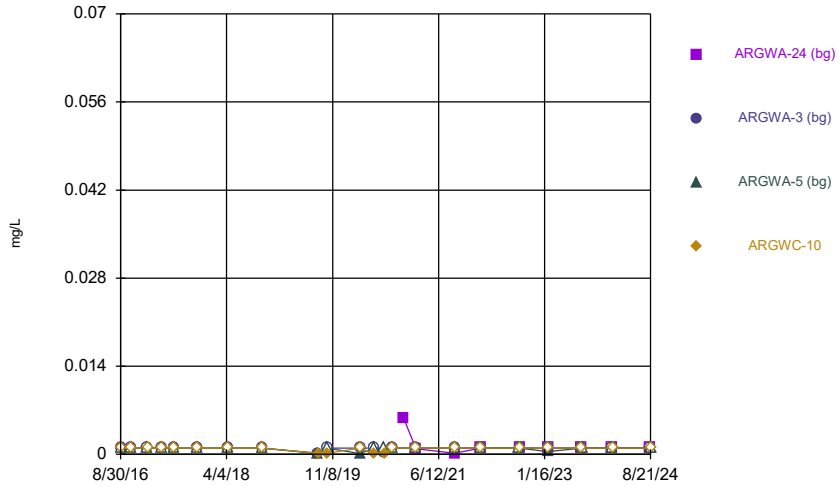
Time Series



Constituent: Cobalt Analysis Run 10/3/2024 12:12 PM
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

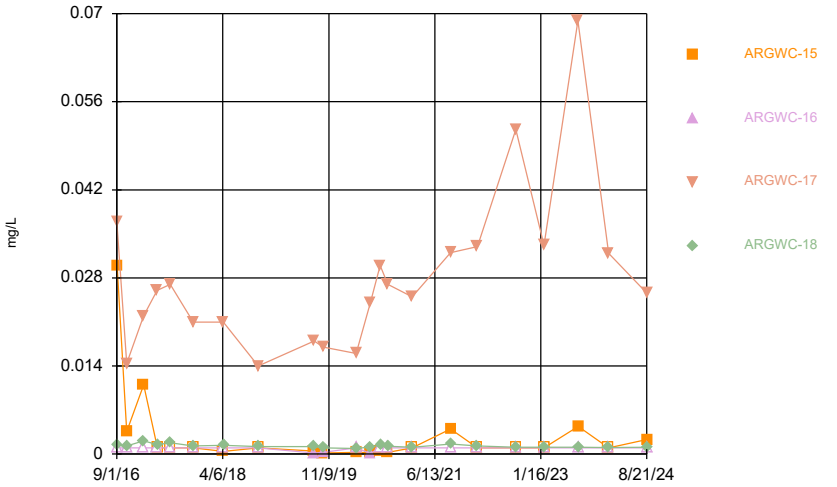
Time Series



Constituent: Cobalt Analysis Run 10/3/2024 12:12 PM
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

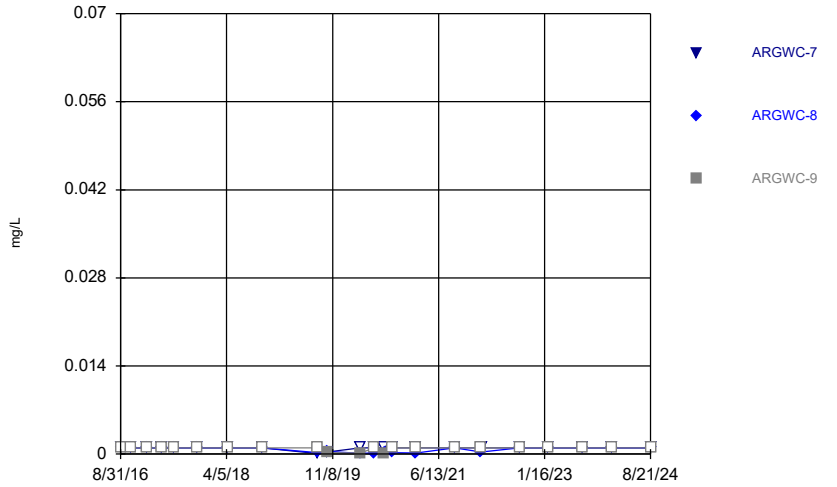
Time Series



Constituent: Cobalt Analysis Run 10/3/2024 12:12 PM
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

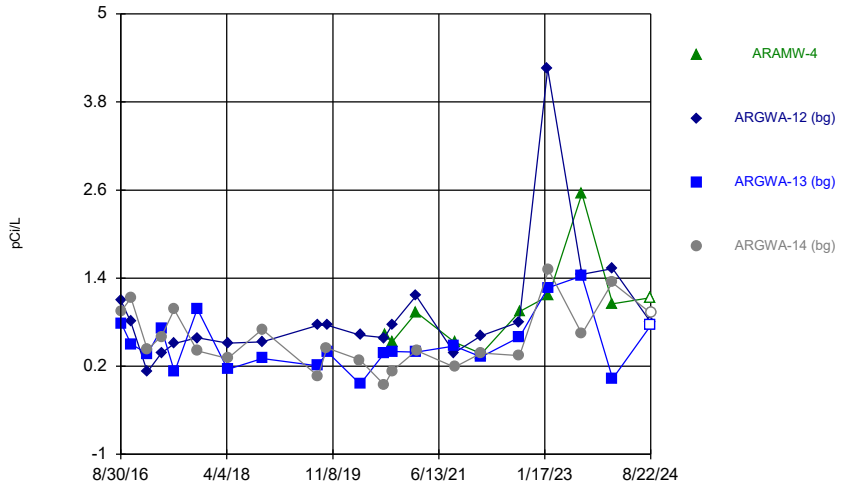
Time Series



Constituent: Cobalt Analysis Run 10/3/2024 12:12 PM
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

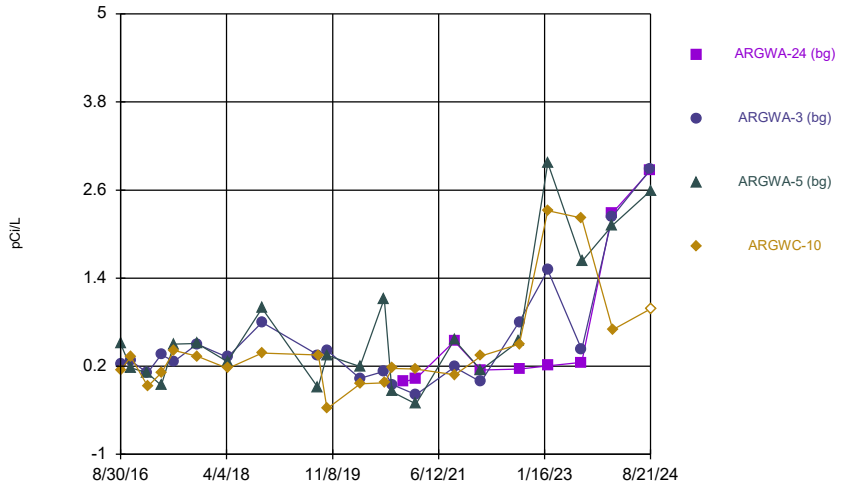
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 10/3/2024 12:12 PM
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

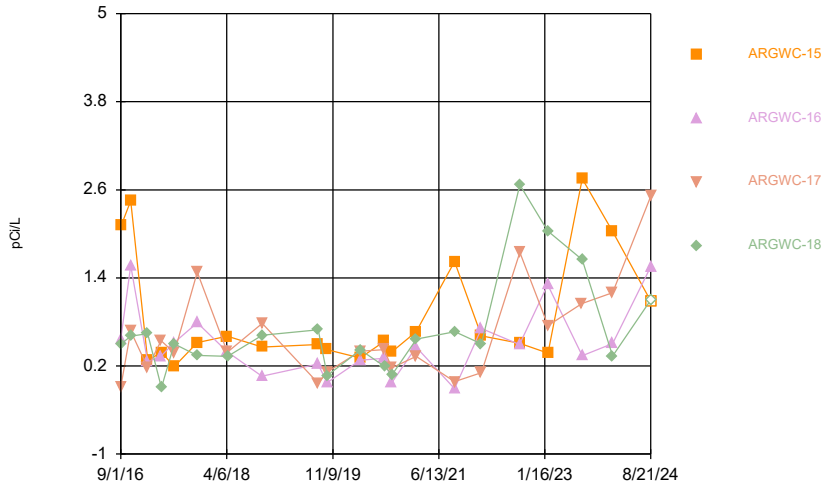
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 10/3/2024 12:12 PM
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

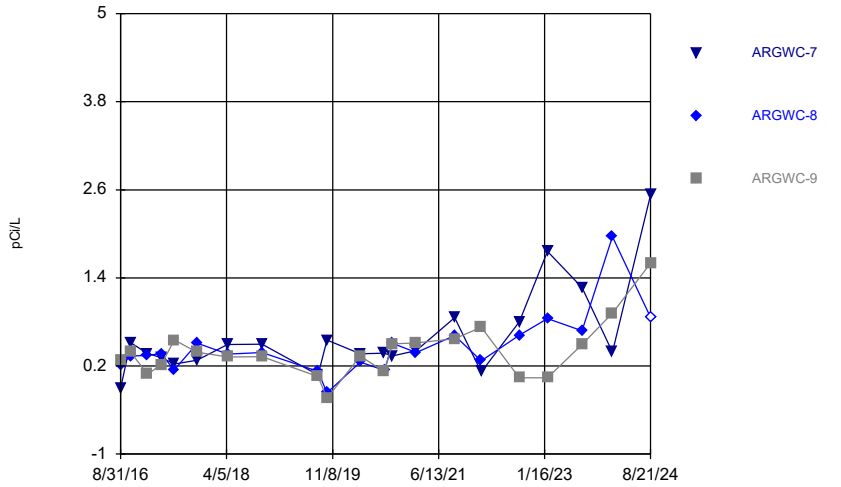
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 10/3/2024 12:12 PM
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

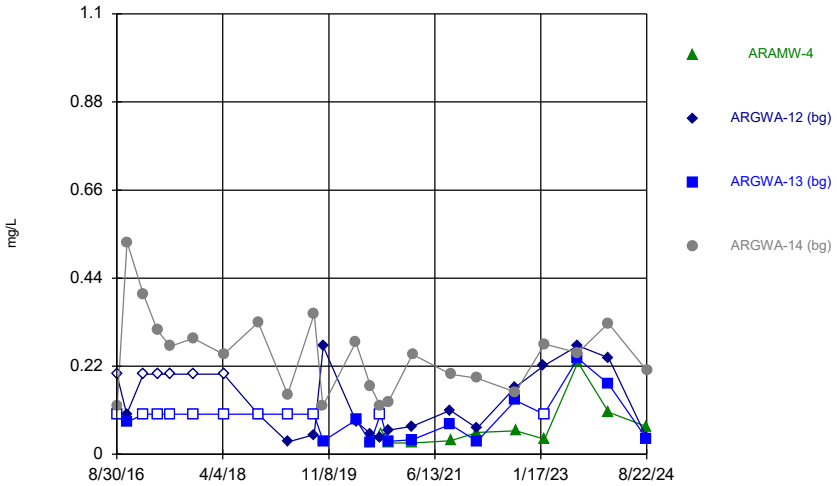
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 10/3/2024 12:12 PM
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

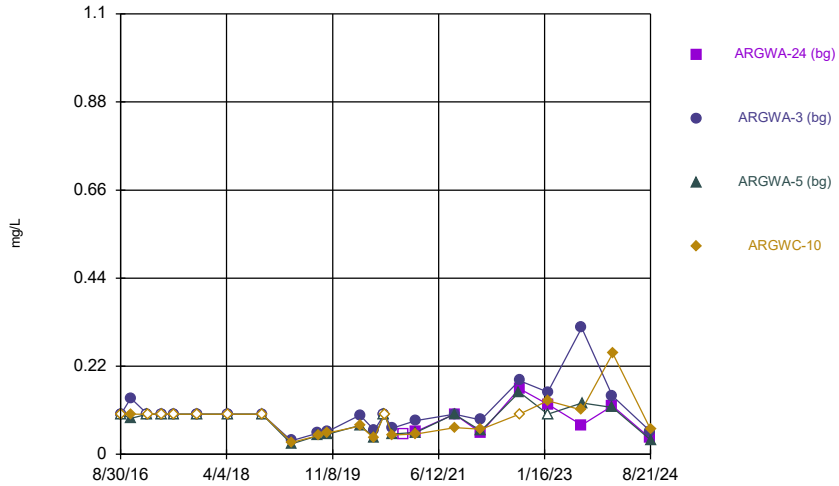
Time Series



Constituent: Fluoride Analysis Run 10/3/2024 12:12 PM
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

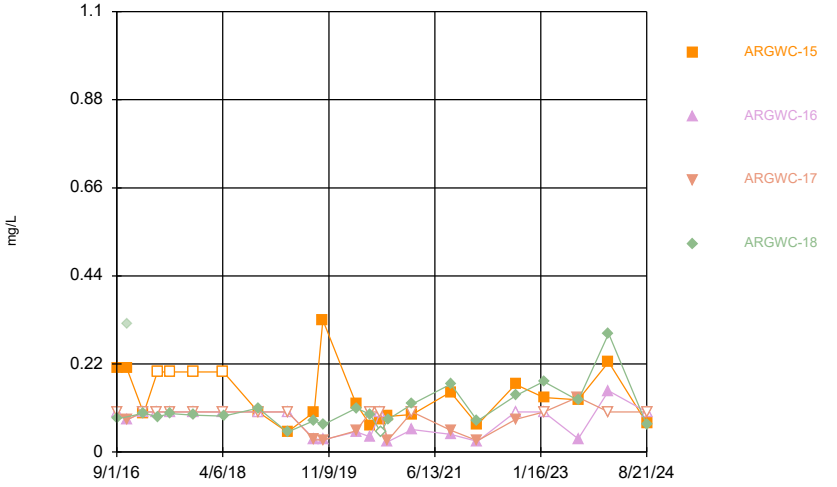
Time Series



Constituent: Fluoride Analysis Run 10/3/2024 12:12 PM
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

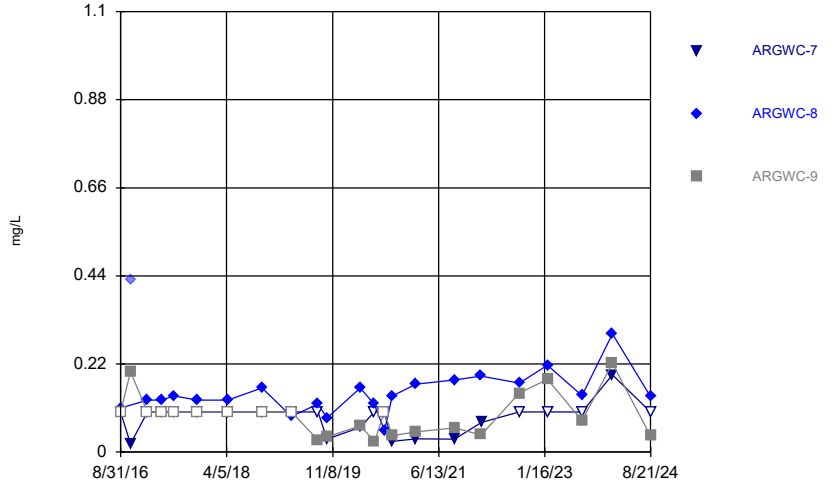
Time Series



Constituent: Fluoride Analysis Run 10/3/2024 12:12 PM
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Fluoride Analysis Run 10/3/2024 12:12 PM
Plant Arkwright Client: Southern Company Data: Arkwright No 3

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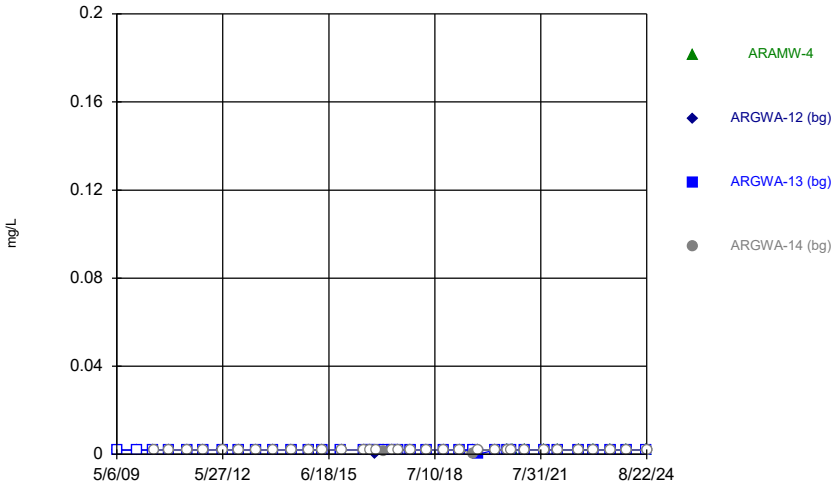
Hollow symbols indicate censored values.

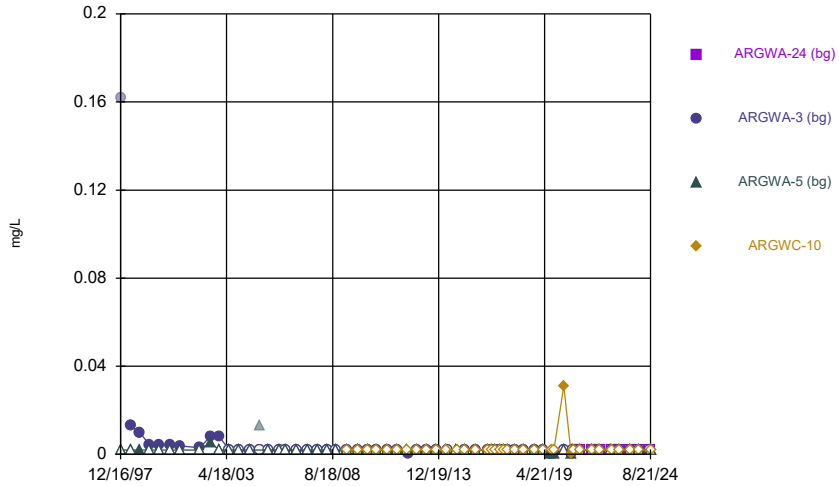
Time Series



Constituent: Lead Analysis Run 10/3/2024 12:12 PM
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

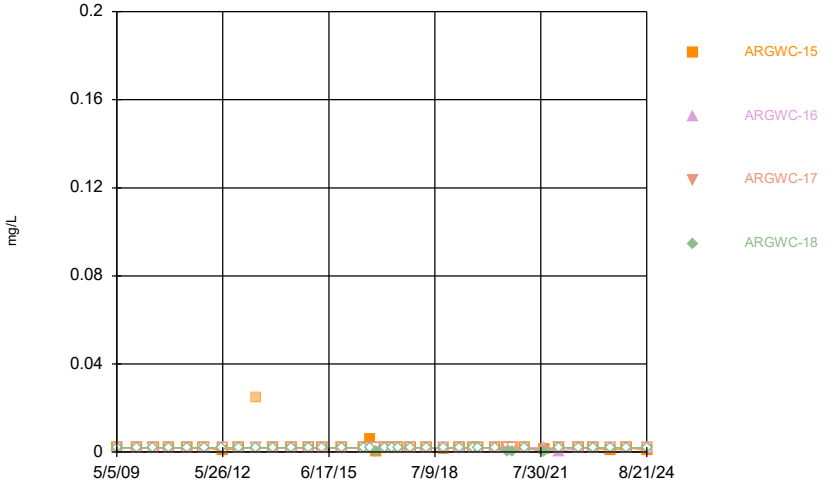
Time Series



Constituent: Lead Analysis Run 10/3/2024 12:12 PM
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

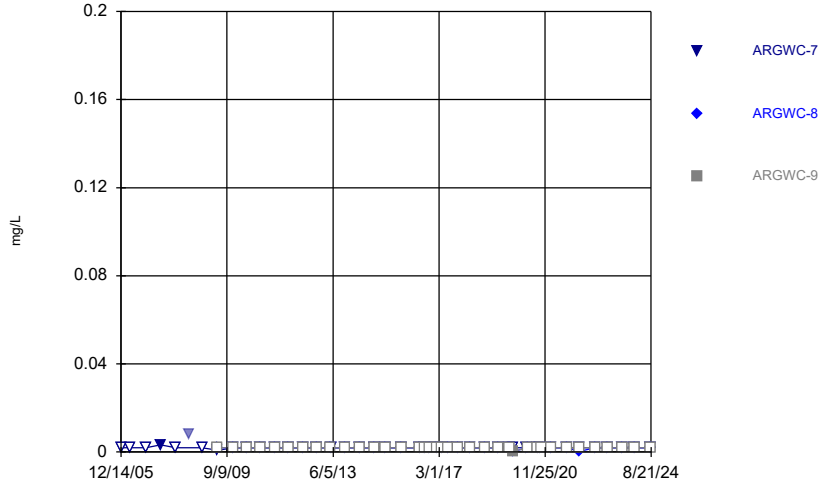
Time Series



Constituent: Lead Analysis Run 10/3/2024 12:12 PM
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

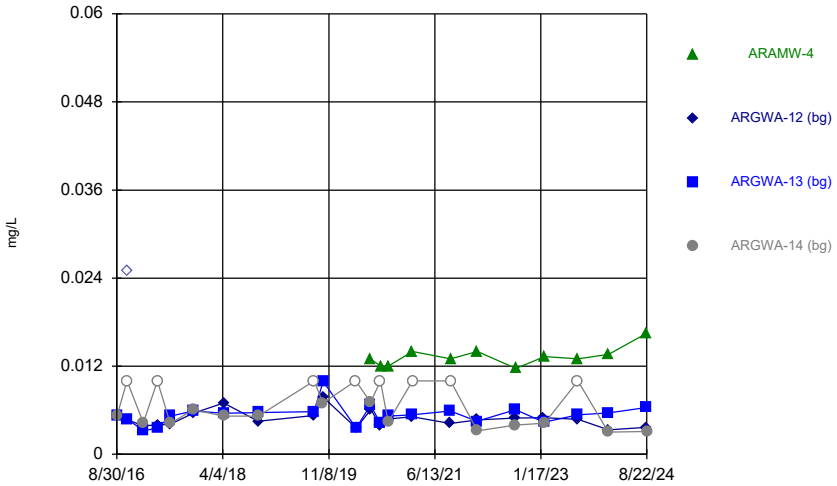
Time Series



Constituent: Lead Analysis Run 10/3/2024 12:12 PM
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

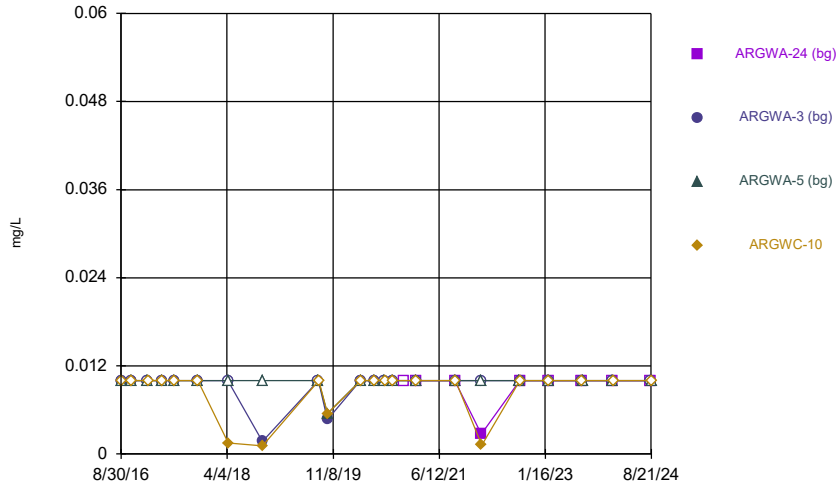
Time Series



Constituent: Lithium Analysis Run 10/3/2024 12:12 PM
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



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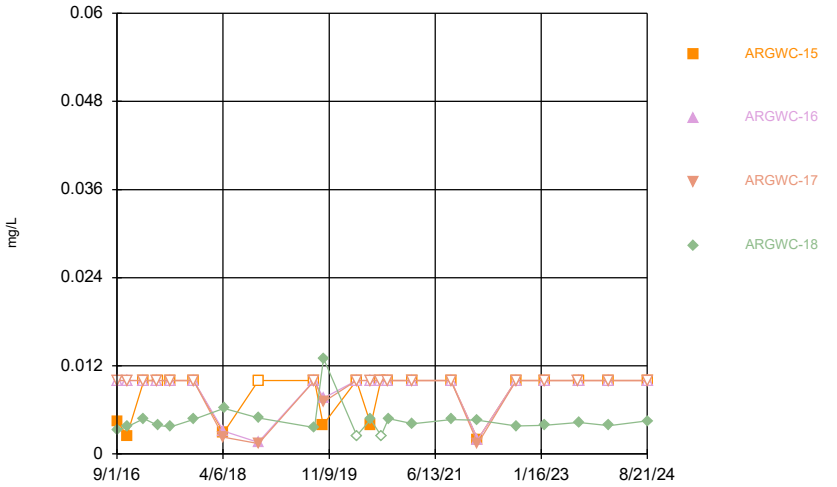
Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



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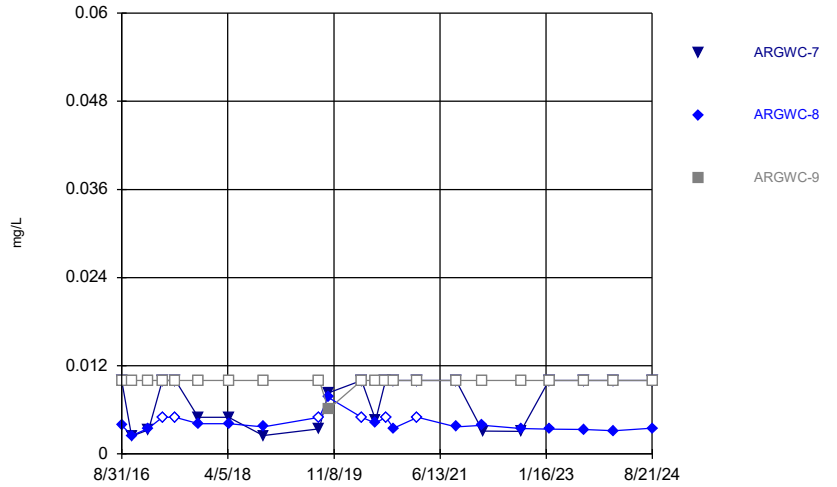
Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



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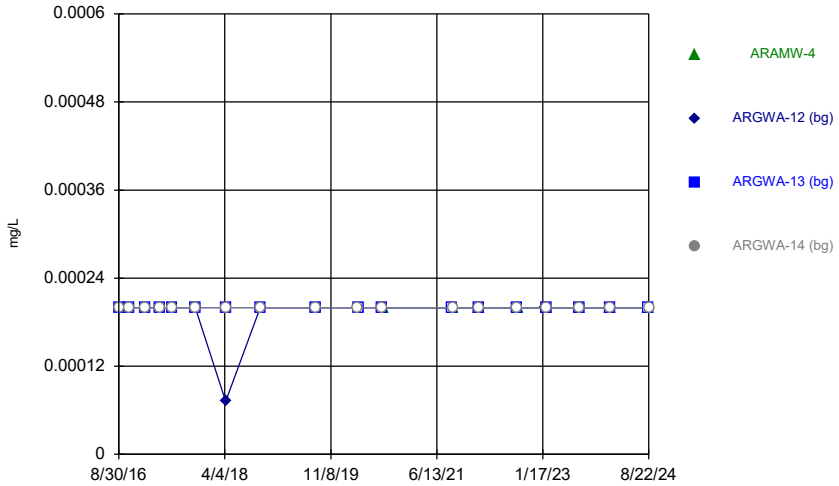
Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



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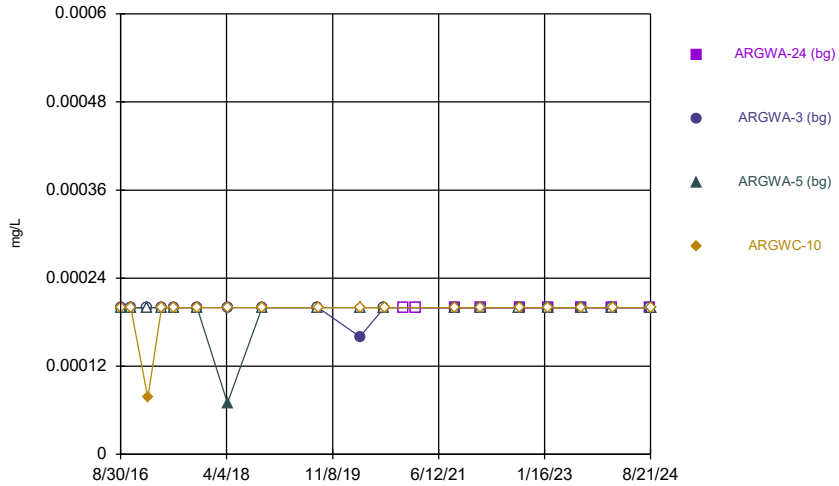
Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

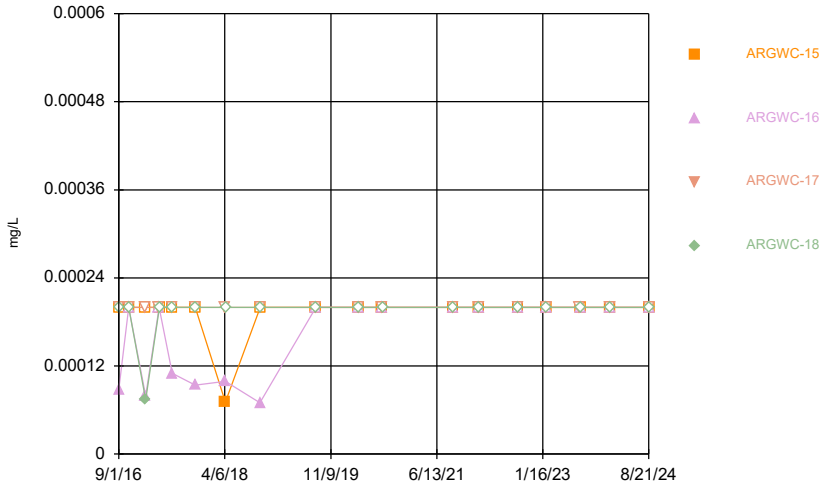
Time Series



Constituent: Mercury Analysis Run 10/3/2024 12:13 PM
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



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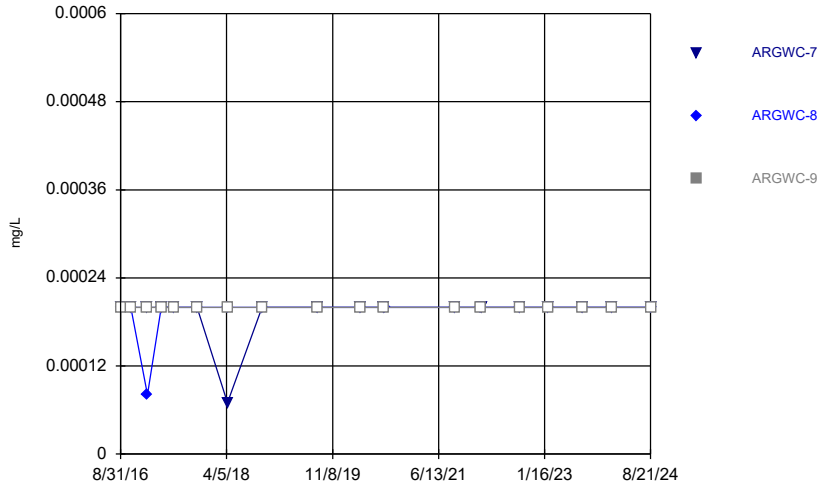
Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



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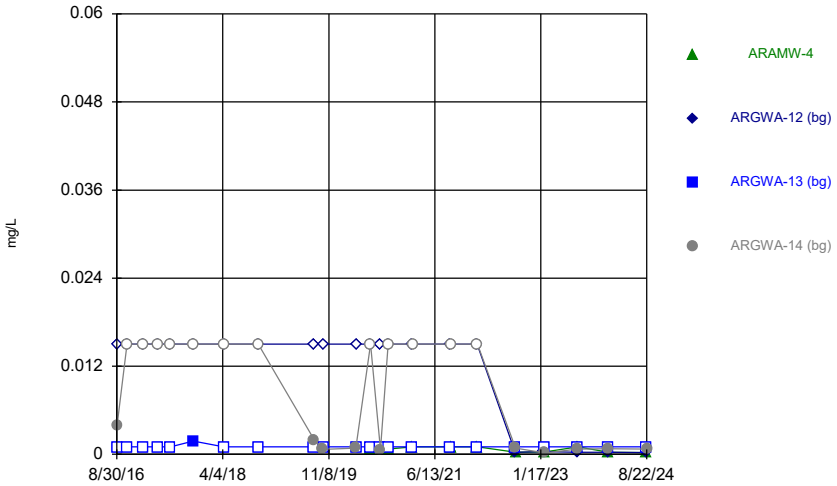
Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

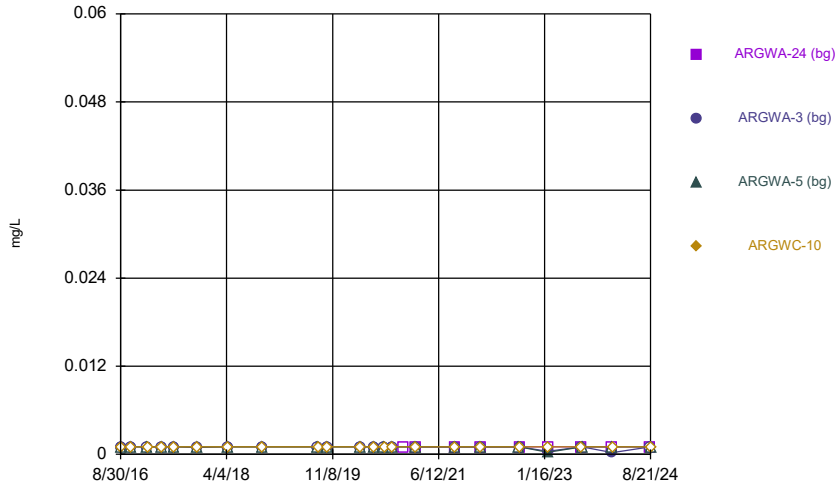
Time Series



Constituent: Molybdenum Analysis Run 10/3/2024 12:13 PM
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



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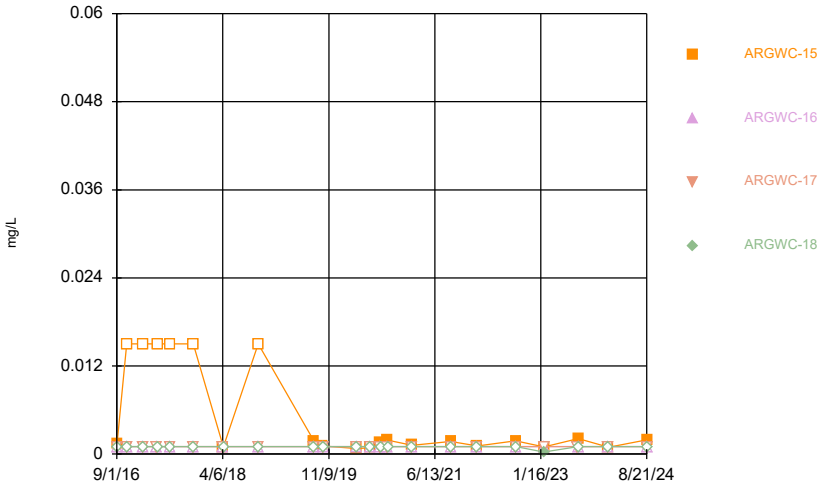
Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Molybdenum Analysis Run 10/3/2024 12:13 PM
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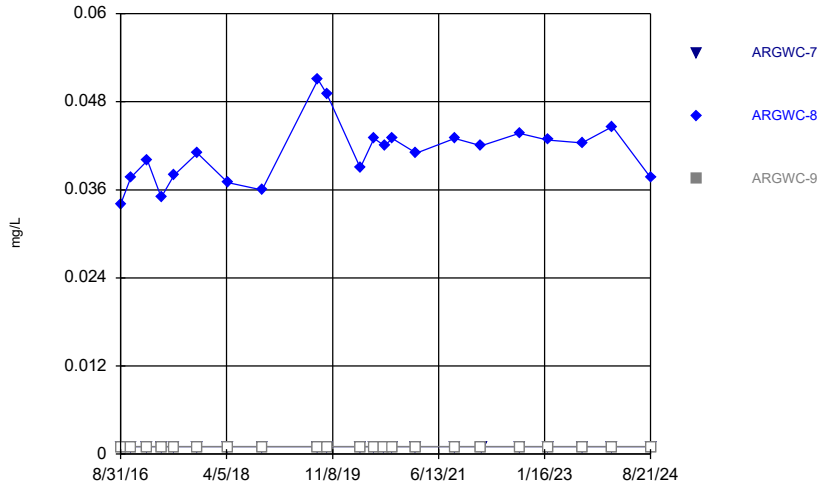
Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



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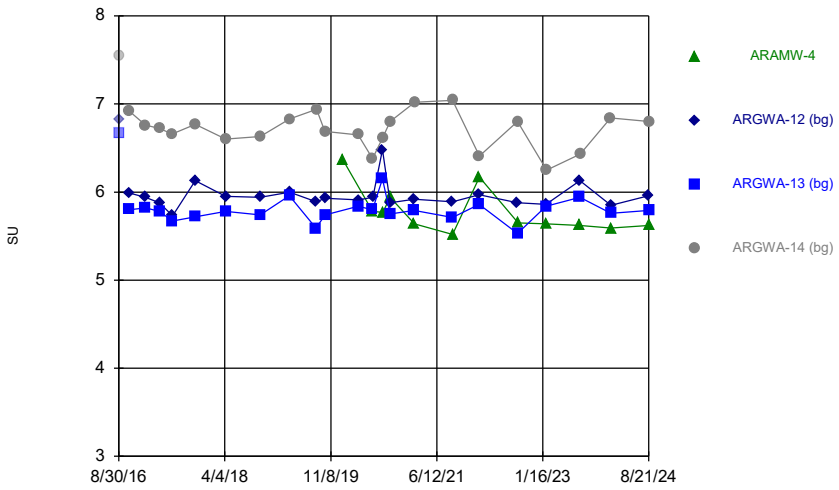
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG

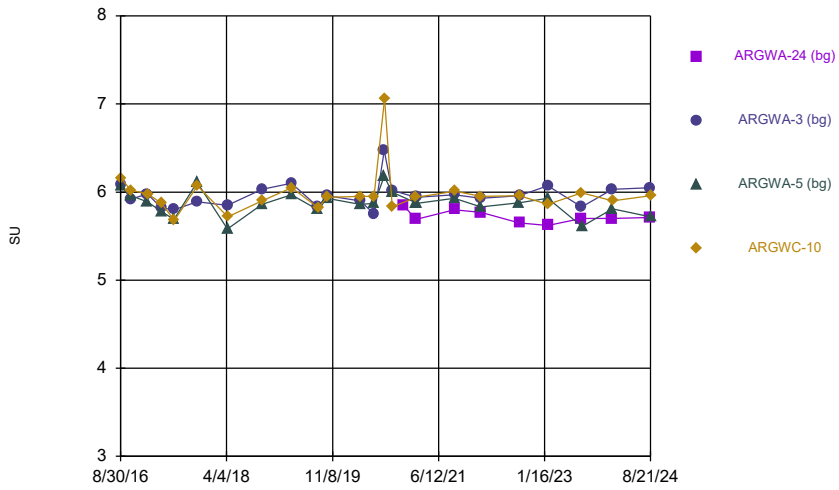
Time Series



Constituent: pH Analysis Run 10/3/2024 12:13 PM
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG

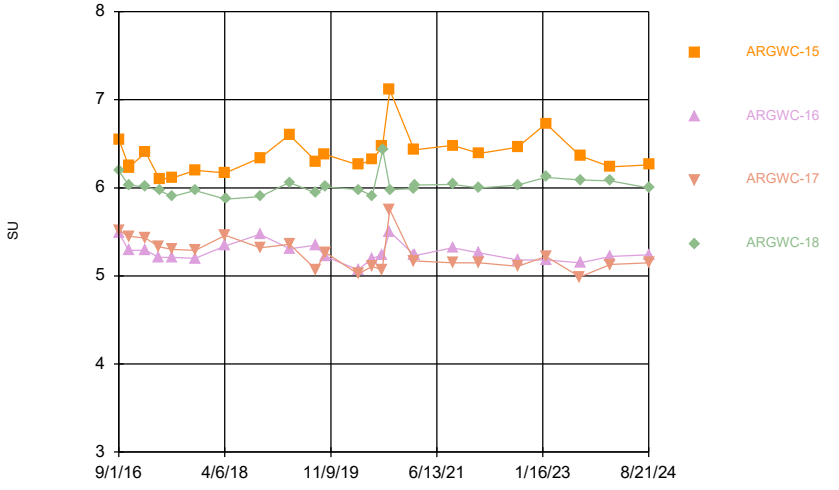
Time Series



Constituent: pH Analysis Run 10/3/2024 12:13 PM
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG

Time Series



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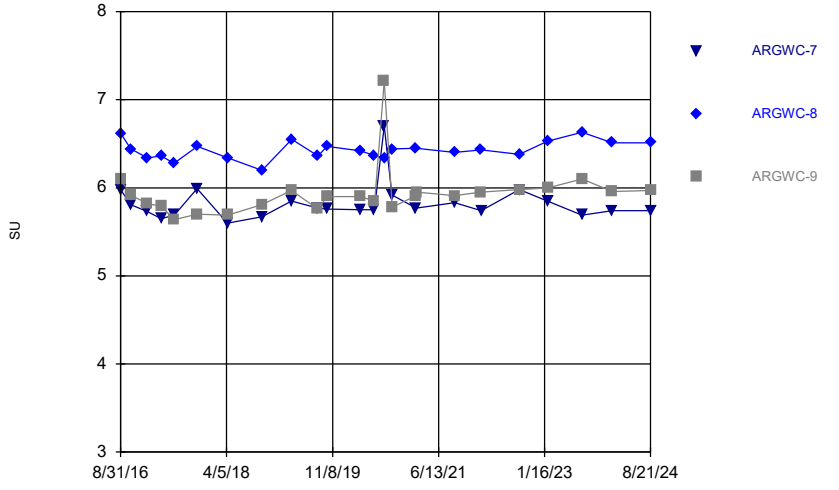
Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG

Time Series



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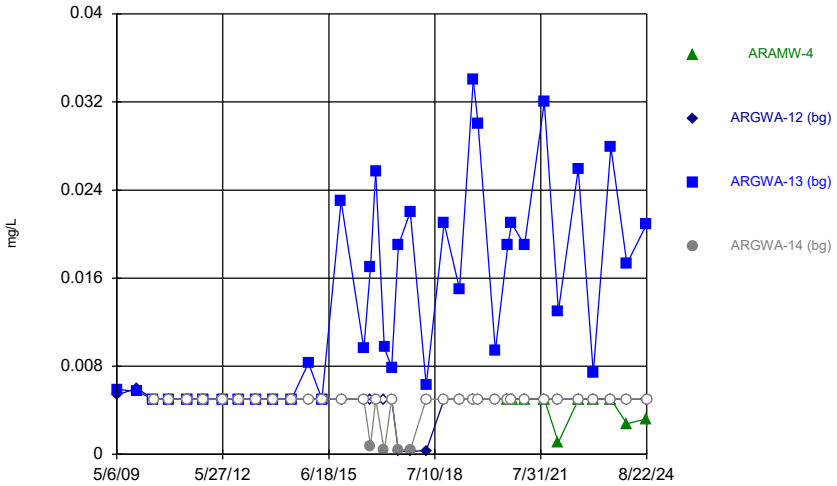
Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

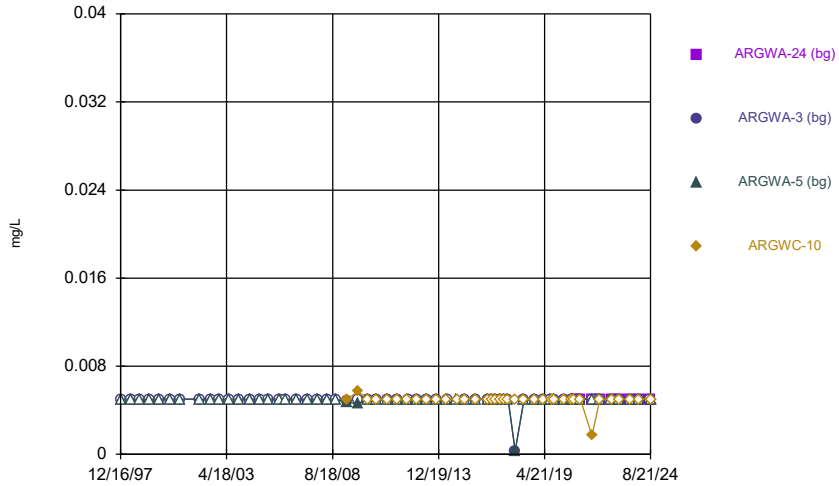
Time Series



Constituent: Selenium Analysis Run 10/3/2024 12:13 PM
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



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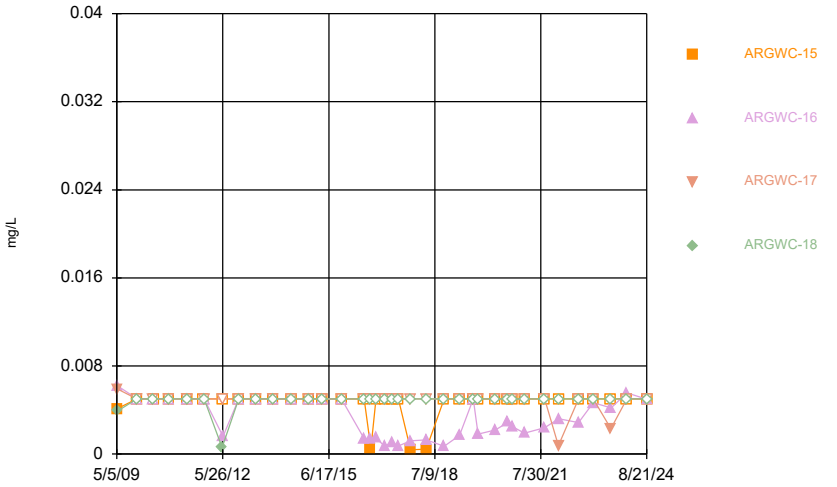
Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



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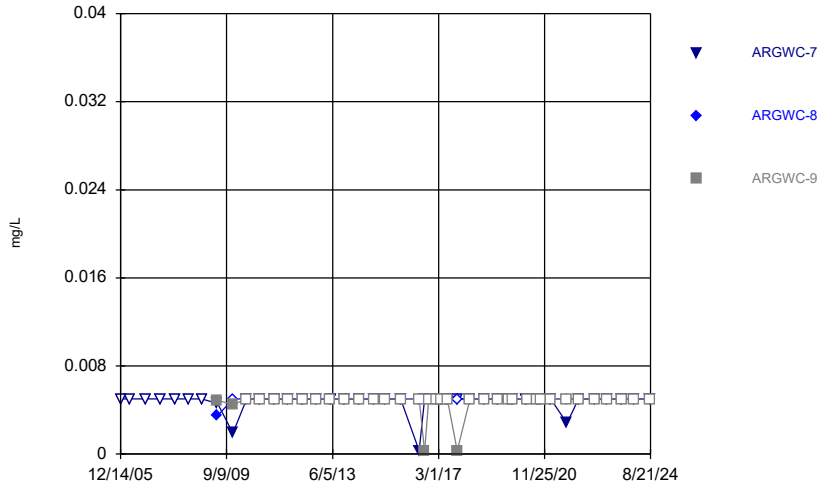
Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

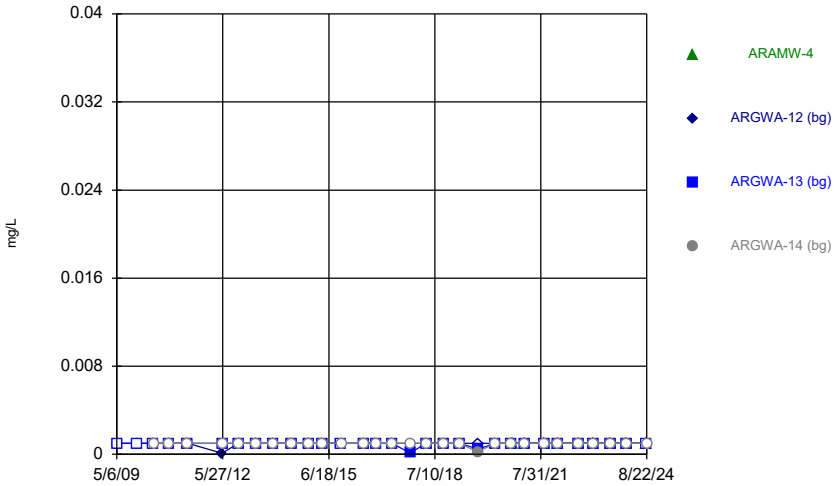
Time Series



Constituent: Selenium Analysis Run 10/3/2024 12:13 PM
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

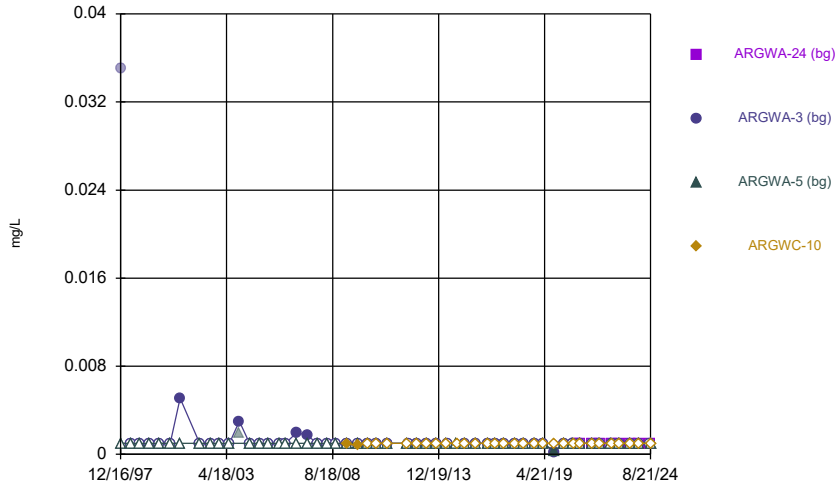
Time Series



Constituent: Silver Analysis Run 10/3/2024 12:13 PM
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

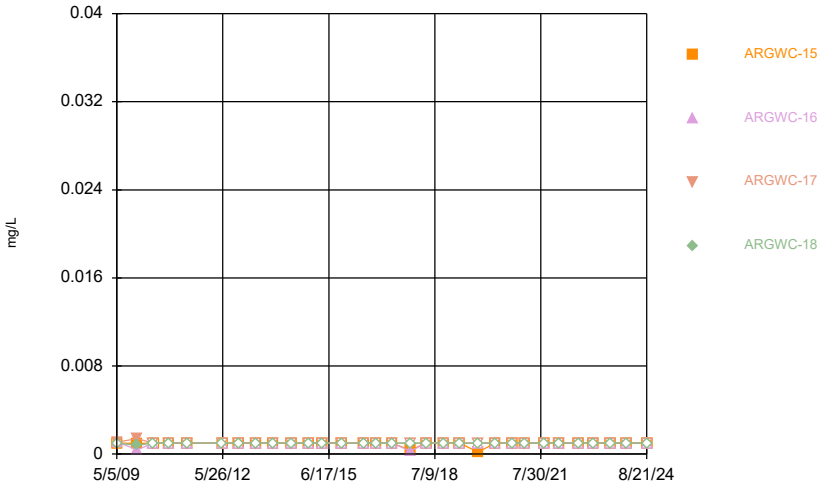
Time Series



Constituent: Silver Analysis Run 10/3/2024 12:13 PM
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Silver Analysis Run 10/3/2024 12:13 PM
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG
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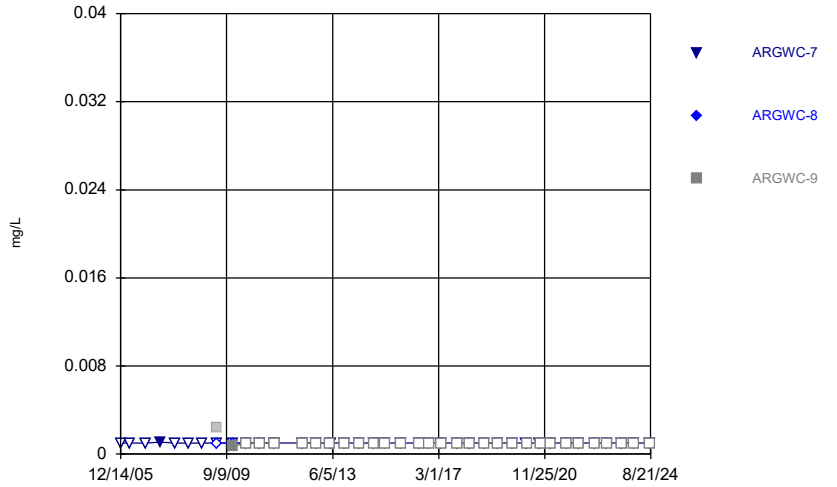
Time Series



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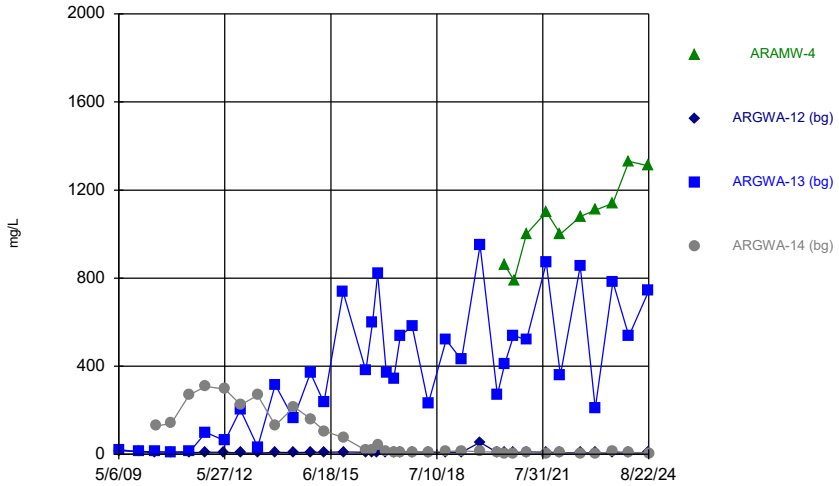
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG

Time Series



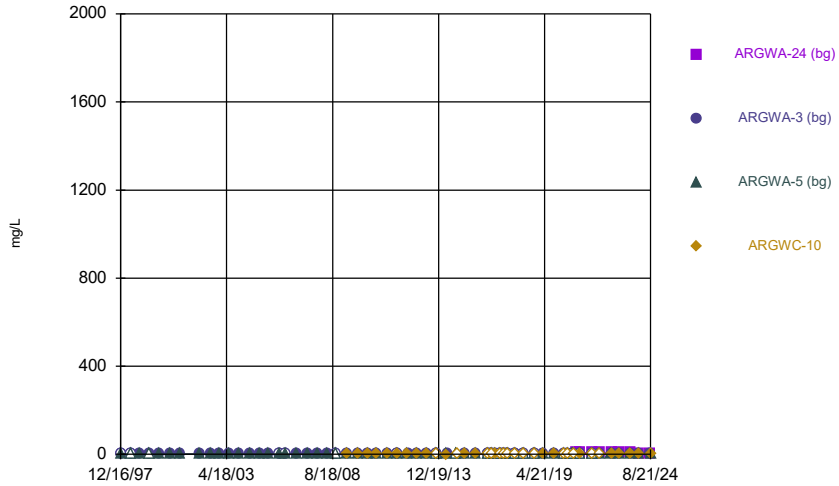
Constituent: Sulfate Analysis Run 10/3/2024 12:13 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Time Series

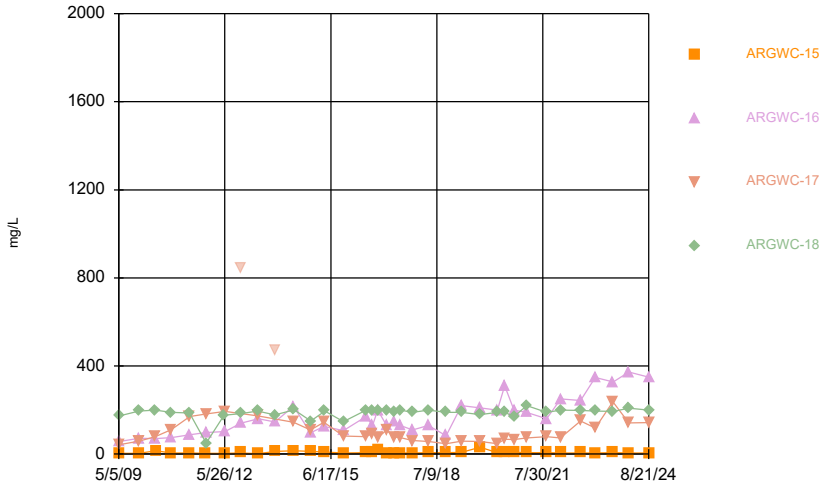


Constituent: Sulfate Analysis Run 10/3/2024 12:13 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG

Time Series



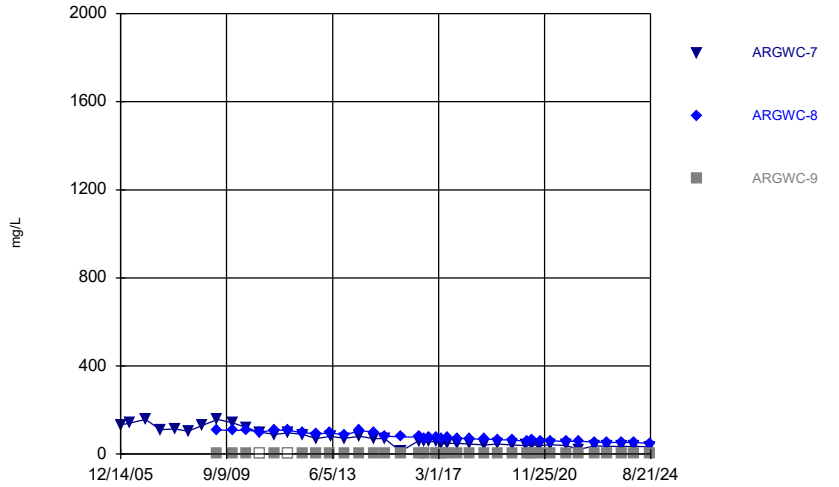
Constituent: Sulfate Analysis Run 10/3/2024 12:13 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Time Series

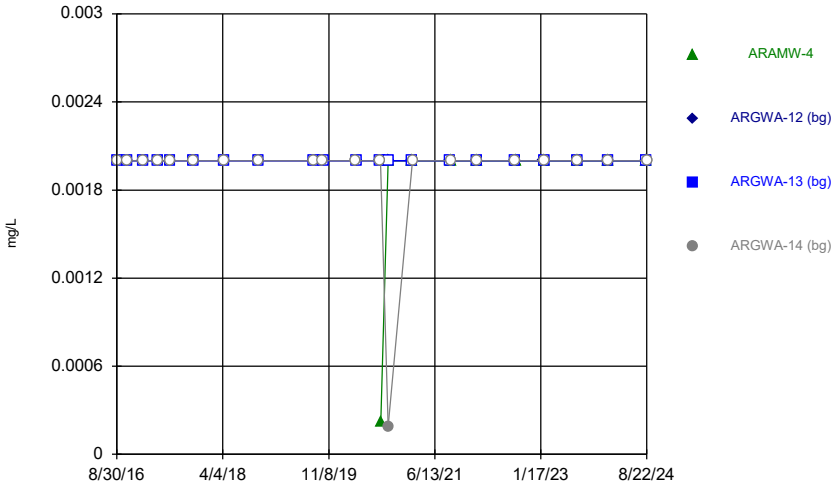


Constituent: Sulfate Analysis Run 10/3/2024 12:13 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

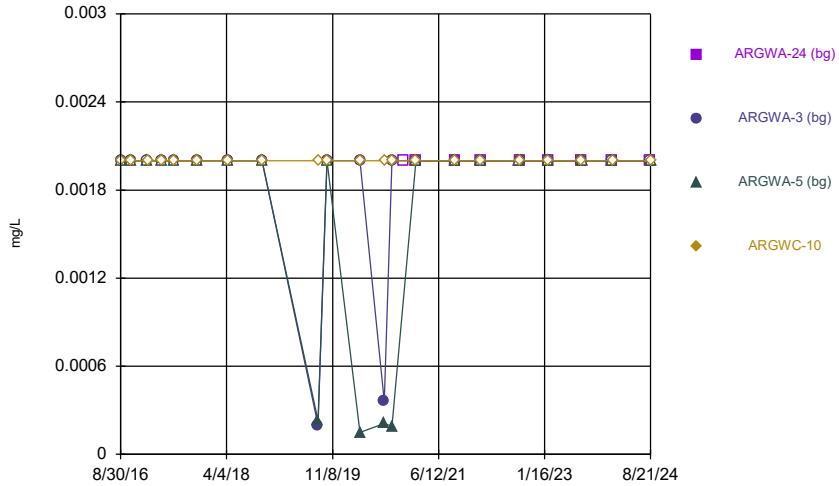
Time Series



Constituent: Thallium Analysis Run 10/3/2024 12:13 PM
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

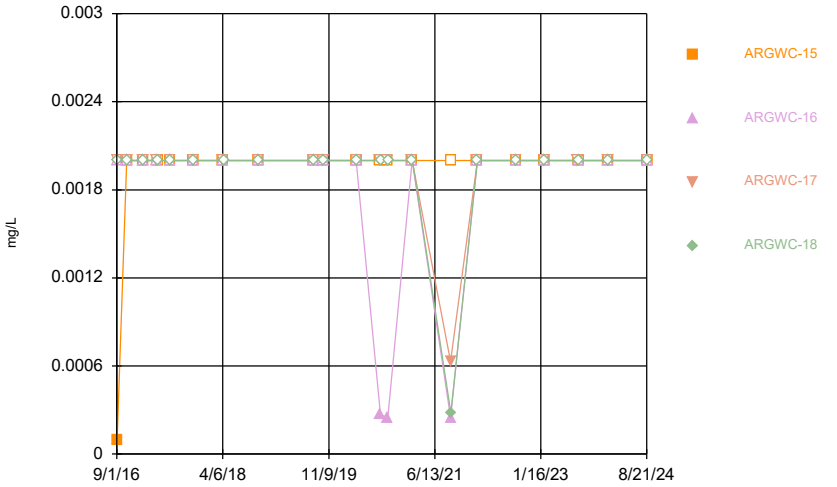
Time Series



Constituent: Thallium Analysis Run 10/3/2024 12:13 PM
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Thallium Analysis Run 10/3/2024 12:13 PM
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Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG
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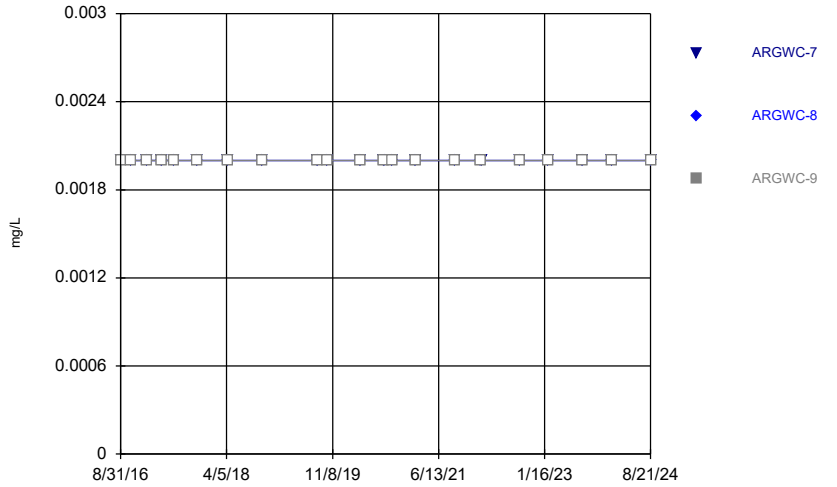
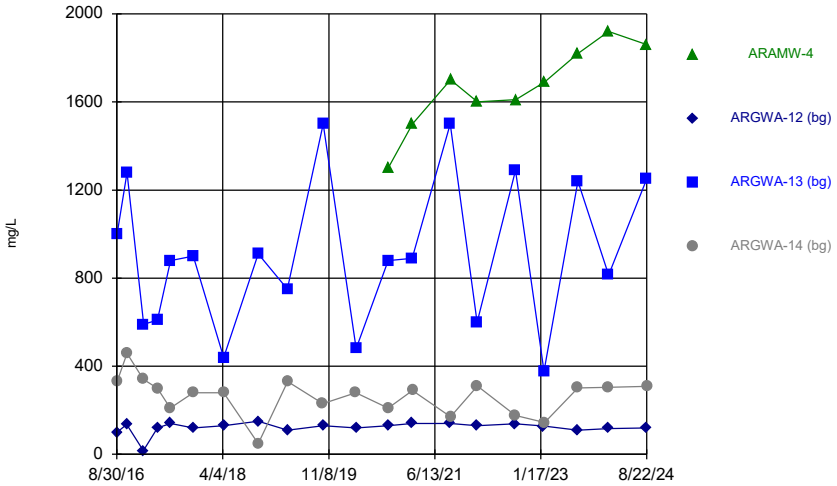


Constituent: Thallium Analysis Run 10/3/2024 12:13 PM
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG

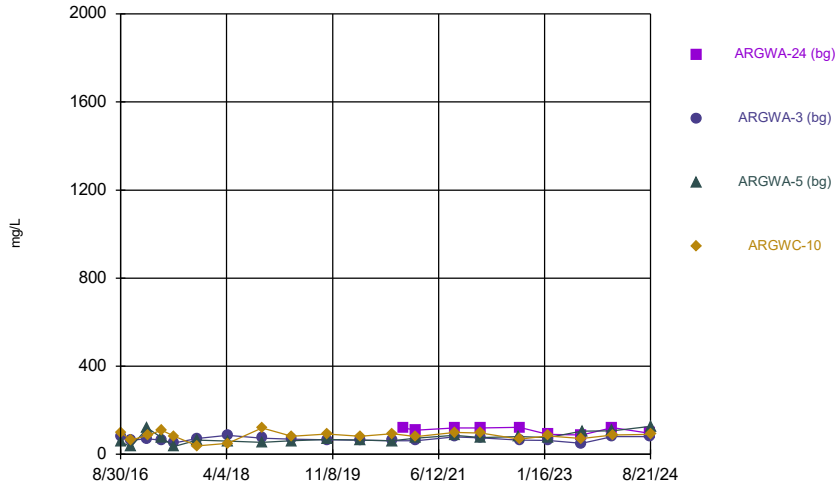
Time Series



Constituent: Total Dissolved Solids Analysis Run 10/3/2024 12:13 PM
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG

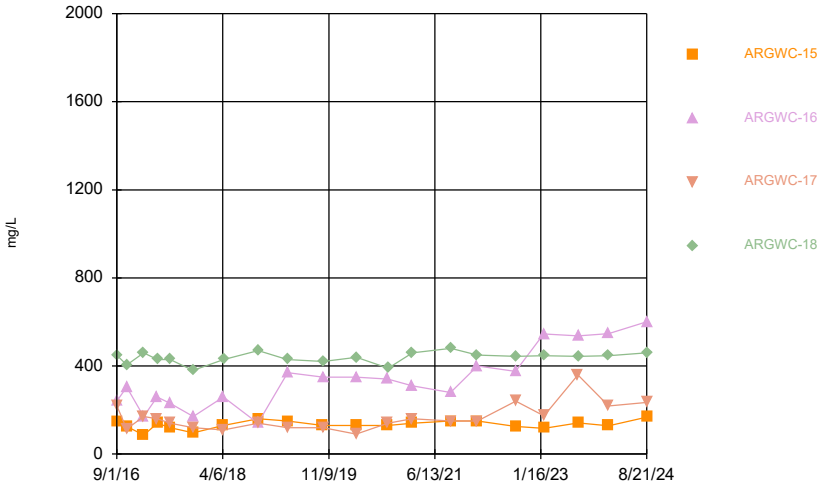
Time Series



Constituent: Total Dissolved Solids Analysis Run 10/3/2024 12:13 PM
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG

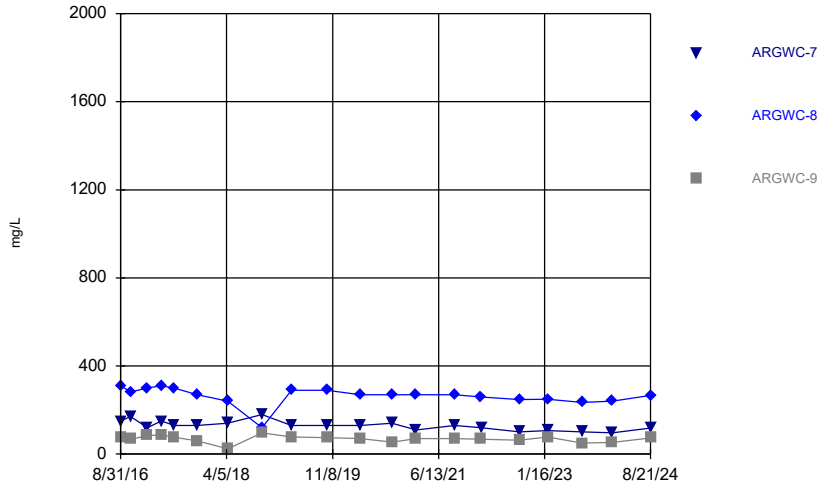
Time Series



Constituent: Total Dissolved Solids Analysis Run 10/3/2024 12:13 PM
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG

Time Series



Constituent: Total Dissolved Solids Analysis Run 10/3/2024 12:13 PM
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Time Series

Constituent: Antimony (mg/L) Analysis Run 10/3/2024 12:14 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

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8/31/2016			<0.003	0.0017 (J)
10/24/2016		<0.003		
10/25/2016			<0.003	<0.003
1/23/2017		<0.003		<0.003
1/24/2017			<0.003	
4/11/2017		<0.003	<0.003	<0.003
6/20/2017				<0.003
6/21/2017		<0.003	<0.003	
10/25/2017		<0.003	<0.003	<0.003
4/9/2018			<0.003	<0.003
4/10/2018		<0.003		
10/16/2018		<0.003	<0.003	<0.003
8/19/2019			<0.003	
8/20/2019		<0.003		
8/21/2019				0.00064 (J)
10/7/2019				<0.003
10/8/2019		<0.003	<0.003	
4/6/2020				<0.003
4/7/2020		<0.003	<0.003	
8/18/2020		<0.003	<0.003	
8/19/2020				<0.003
8/20/2020	<0.003			
9/7/2021		<0.003	<0.003	
9/8/2021	<0.003			<0.003
2/1/2022		<0.003	<0.003	
2/2/2022	<0.003			<0.003
8/30/2022		<0.003		
8/31/2022			<0.003	<0.003
9/2/2022	<0.003			
2/2/2023		<0.003		
2/3/2023			<0.003	
2/7/2023	<0.003			<0.003
8/9/2023	<0.003	<0.003	0.00139 (J)	
8/10/2023				<0.003
1/24/2024				<0.003
1/25/2024	<0.003	<0.003	<0.003	
8/20/2024		<0.003		
8/21/2024	<0.003		0.00102 (J)	
8/22/2024				<0.003

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 10/3/2024 12:14 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-24 (bg)	ARGWA-3 (bg)	ARGWA-5 (bg)	ARGWC-10
8/30/2016			<0.003	
8/31/2016		<0.003		
9/1/2016				<0.003
10/25/2016		<0.003	<0.003	<0.003
1/24/2017		<0.003	<0.003	
1/27/2017				<0.003
4/11/2017		<0.003	<0.003	
4/12/2017				<0.003
6/20/2017		<0.003	<0.003	
6/22/2017				<0.003
10/25/2017		<0.003	<0.003	
10/26/2017				<0.003
4/10/2018		<0.003	<0.003	
4/11/2018				<0.003
10/16/2018		<0.003	<0.003	
10/17/2018				<0.003
8/20/2019		<0.003	<0.003	
8/21/2019				<0.003
10/8/2019		<0.003	<0.003	
10/9/2019				<0.003
4/7/2020		<0.003	<0.003	
4/8/2020				0.00094 (J)
8/18/2020		<0.003	<0.003	
8/19/2020				<0.003
12/1/2020	<0.003			
2/9/2021	<0.003			
9/8/2021	<0.003	<0.003	<0.003	
9/10/2021				<0.003
2/1/2022	<0.003	<0.003	<0.003	
2/2/2022				<0.003
8/30/2022			<0.003	
8/31/2022	<0.003	<0.003		<0.003
2/2/2023	<0.003			<0.003
2/3/2023		<0.003	<0.003	
8/9/2023	<0.003	<0.003		<0.003
8/10/2023			<0.003	
1/24/2024	<0.003	<0.003	<0.003	
1/25/2024				<0.003
8/20/2024	<0.003	<0.003		
8/21/2024			<0.003	<0.003

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 10/3/2024 12:14 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-15	ARGWC-16	ARGWC-17	ARGWC-18
9/1/2016		<0.003	<0.003	<0.003
9/2/2016	<0.003			
10/25/2016		<0.003	<0.003	
10/26/2016	<0.003			<0.003
1/26/2017	<0.003	<0.003	<0.003	
1/27/2017				<0.003
4/11/2017		<0.003	<0.003	
4/12/2017	<0.003			<0.003
6/21/2017	<0.003	<0.003	<0.003	<0.003
10/25/2017				<0.003
10/26/2017	<0.003	<0.003	<0.003	
4/10/2018	<0.003	<0.003	<0.003	
4/11/2018				<0.003
10/16/2018		<0.003		
10/17/2018	<0.003		<0.003	<0.003
8/20/2019		<0.003		
8/21/2019	<0.003		<0.003	<0.003
10/8/2019	<0.003			
10/9/2019		<0.003	<0.003	<0.003
4/8/2020	<0.003	<0.003	<0.003	
4/9/2020				<0.003
8/18/2020			<0.003	
8/19/2020	<0.003	<0.003		
8/20/2020				<0.003
9/8/2021	<0.003	<0.003	<0.003	
9/9/2021				<0.003
2/2/2022			<0.003	
2/3/2022	<0.003	<0.003		<0.003
8/31/2022	<0.003	<0.003		
9/2/2022			<0.003	<0.003
2/2/2023		<0.003		<0.003
2/3/2023	<0.003		<0.003	
8/9/2023			<0.003	
8/10/2023	<0.003	<0.003		<0.003
1/25/2024	<0.003	<0.003	<0.003	<0.003
8/21/2024	<0.003	<0.003	<0.003	<0.003

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 10/3/2024 12:14 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-7	ARGWC-8	ARGWC-9
8/31/2016	<0.003	<0.003	<0.003
10/25/2016	0.0013 (J)		<0.003
10/26/2016		<0.003	
1/26/2017	<0.003	<0.003	<0.003
4/12/2017	<0.003	<0.003	<0.003
6/21/2017		<0.003	
6/22/2017	<0.003		<0.003
10/25/2017	<0.003		<0.003
10/26/2017		<0.003	
4/10/2018	<0.003		
4/11/2018		<0.003	<0.003
10/17/2018	<0.003	<0.003	<0.003
8/21/2019	<0.003	<0.003	<0.003
10/9/2019	<0.003	<0.003	0.00048 (J)
4/8/2020	<0.003		
4/9/2020		<0.003	<0.003
8/18/2020	<0.003		
8/19/2020			<0.003
8/20/2020		<0.003	
9/9/2021		<0.003	<0.003
9/10/2021	<0.003		
2/2/2022		<0.003	<0.003
2/3/2022	<0.003		
8/31/2022	<0.003	<0.003	<0.003
2/2/2023	<0.003	<0.003	<0.003
8/10/2023	<0.003	<0.003	<0.003
1/25/2024	<0.003	<0.003	<0.003
8/21/2024	<0.003	<0.003	<0.003

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/3/2024 12:14 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARAMW-4	ARGWA-12 (bg)	ARGWA-13 (bg)	ARGWA-14 (bg)
5/6/2009		<0.005		
5/7/2009			0.0013	
12/3/2009		<0.005	<0.005	
5/25/2010		<0.005	<0.005	
6/2/2010				<0.005
11/9/2010		<0.005		
11/10/2010			<0.005	<0.005
5/19/2011				<0.005
5/24/2011		<0.005		
5/25/2011			<0.005	
11/9/2011				<0.005
11/10/2011		<0.005	<0.005	
5/18/2012		<0.005		
5/30/2012			<0.005	0.0026 (J)
11/9/2012		<0.005	<0.005	
11/11/2012				<0.005
5/8/2013		<0.005		
5/9/2013			<0.005	<0.005
11/6/2013		<0.005		
11/11/2013			<0.005	<0.005
5/20/2014		<0.005		
5/21/2014			<0.005	
5/29/2014				0.005 (J)
11/18/2014		<0.005	<0.005	
11/19/2014				<0.005
4/7/2015			<0.005	
4/14/2015		<0.005		<0.005
10/28/2015			<0.005	
10/29/2015		<0.005		
11/4/2015				<0.005
6/23/2016		<0.005	<0.005	0.0026
8/30/2016		<0.005		
8/31/2016			<0.005	0.0032
10/24/2016		<0.005		
10/25/2016			<0.005	<0.005
1/23/2017		<0.005		0.00088 (J)
1/24/2017			<0.005	
4/11/2017		0.00076 (J)	0.00063 (J)	0.00095 (J)
6/20/2017				0.00099 (J)
6/21/2017		<0.005	<0.005	
10/25/2017		<0.005	<0.005	<0.005
4/9/2018			<0.005	<0.005
4/10/2018		<0.005		
10/16/2018		<0.005	0.00055 (J)	0.00083 (J)
3/26/2019			0.00089 (J)	
3/27/2019		0.00049 (J)		0.0013
8/19/2019			0.00045 (J)	
8/20/2019		0.00046 (J)		
8/21/2019				0.0013
10/7/2019				0.00045 (J)
10/8/2019		<0.005	<0.005	
4/6/2020				<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/3/2024 12:14 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARAMW-4	ARGWA-12 (bg)	ARGWA-13 (bg)	ARGWA-14 (bg)
4/7/2020		<0.005	<0.005	
8/18/2020		<0.005	<0.005	
8/19/2020				<0.005
8/20/2020	0.00034 (J)			
9/29/2020		<0.005	<0.005	0.00038 (J)
9/30/2020	0.00039 (J)			
2/9/2021		<0.005	<0.005	
2/10/2021	<0.005			
2/11/2021				<0.005
9/7/2021		<0.005	<0.005	
9/8/2021	<0.005			0.00034 (J)
2/1/2022		<0.005	<0.005	
2/2/2022	0.00035 (J)			0.00033 (J)
8/30/2022		<0.005		
8/31/2022			<0.005	<0.005
9/2/2022	0.00339 (J)			
2/2/2023		<0.005		
2/3/2023			<0.005	
2/7/2023	<0.005			<0.005
8/9/2023	0.00241 (J)	<0.005	<0.005	
8/10/2023				0.00349 (J)
1/24/2024				<0.005
1/25/2024	<0.005	<0.005	<0.005	
8/20/2024		<0.005		
8/21/2024	0.00219 (J)		<0.005	
8/22/2024				<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/3/2024 12:14 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-24 (bg)	ARGWA-3 (bg)	ARGWA-5 (bg)	ARGWC-10
12/16/1997		0.002	<0.005	
6/30/1998		0.0006	<0.005	
12/2/1998		0.0007	<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		0.000475	0.00032	
12/5/2001		<0.005	0.0003	
6/26/2002		0.000431	0.000939	
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		0.0044	<0.005	
11/17/2007		<0.005	<0.005	
5/3/2008		<0.005	<0.005	
10/22/2008		<0.005	<0.005	
5/6/2009			<0.005	
5/7/2009		0.0028		
5/13/2009				0.0042 (o)
12/1/2009			<0.005	
12/3/2009				<0.005
12/4/2009		<0.005		
5/25/2010			<0.005	
5/26/2010				<0.005
6/1/2010		<0.005		
11/9/2010			<0.005	<0.005
11/10/2010		<0.005		
5/19/2011				<0.005
5/24/2011			<0.005	
5/25/2011		<0.005		
11/10/2011			<0.005	
11/11/2011				<0.005
11/12/2011		<0.005		
5/17/2012				<0.005
5/18/2012			<0.005	
5/31/2012		<0.005		
11/9/2012			<0.005	<0.005
11/11/2012		<0.005		
5/7/2013				<0.005
5/8/2013			<0.005	
5/13/2013		<0.005		
11/6/2013			<0.005	<0.005
11/12/2013		<0.005		
5/20/2014			<0.005	<0.005
5/29/2014		<0.005		
11/17/2014			<0.005	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/3/2024 12:14 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-24 (bg)	ARGWA-3 (bg)	ARGWA-5 (bg)	ARGWC-10
11/18/2014				<0.005
4/7/2015			<0.005	<0.005
4/14/2015		<0.005		
10/28/2015			<0.005	<0.005
11/3/2015		<0.005		
6/23/2016		<0.005	<0.005	<0.005
8/30/2016			<0.005	
8/31/2016		<0.005		
9/1/2016				<0.005
10/25/2016		<0.005	<0.005	<0.005
1/24/2017		<0.005	<0.005	
1/27/2017				<0.005
4/11/2017		0.00067 (J)	0.00077 (J)	
4/12/2017				<0.005
6/20/2017		0.00064 (J)	0.00052 (J)	
6/22/2017				<0.005
10/25/2017		<0.005	<0.005	
10/26/2017				<0.005
4/10/2018		<0.005	<0.005	
4/11/2018				<0.005
10/16/2018		<0.005	<0.005	
10/17/2018				<0.005
3/27/2019		0.00055 (J)	0.00055 (J)	
3/28/2019				0.0011 (J)
8/20/2019		0.00045 (J)	0.00058 (J)	
8/21/2019				0.0004 (J)
10/8/2019		<0.005	<0.005	
10/9/2019				0.0019
4/7/2020		<0.005	<0.005	
4/8/2020				<0.005
8/18/2020		<0.005	<0.005	
8/19/2020				<0.005
9/29/2020		<0.005	<0.005	
10/1/2020				<0.005
12/1/2020	<0.005			
2/9/2021	<0.005	<0.005	<0.005	<0.005
9/8/2021	<0.005	<0.005	<0.005	
9/10/2021				<0.005
2/1/2022	<0.005	<0.005	<0.005	
2/2/2022				<0.005
8/30/2022			<0.005	
8/31/2022	<0.005	<0.005		<0.005
2/2/2023	<0.005			<0.005
2/3/2023		<0.005	<0.005	
8/9/2023	<0.005	<0.005		<0.005
8/10/2023			0.00593	
1/24/2024	<0.005	<0.005	<0.005	
1/25/2024				<0.005
8/20/2024	<0.005	<0.005		
8/21/2024			<0.005	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/3/2024 12:14 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-15	ARGWC-16	ARGWC-17	ARGWC-18
5/5/2009	<0.005			
5/12/2009		0.003 (o)	<0.005	0.0025 (o)
12/4/2009	<0.005		<0.005	<0.005
12/5/2009		<0.005		
5/25/2010			<0.005	<0.005
5/26/2010		<0.005		
6/1/2010	<0.005			
11/9/2010		<0.005	<0.005	
11/10/2010	<0.005			<0.005
5/19/2011				<0.005
5/24/2011		<0.005	<0.005	
5/25/2011	<0.005			
11/9/2011	<0.005			
11/12/2011		<0.005	<0.005	<0.005
5/17/2012				<0.005
5/30/2012		<0.005	<0.005	
5/31/2012	<0.005			
11/9/2012		<0.005	0.01 (o)	
11/10/2012	<0.005			<0.005
5/7/2013				<0.005
5/8/2013			<0.005	
5/13/2013	<0.005	<0.005		
11/5/2013				<0.005
11/6/2013		<0.005	<0.005	
11/12/2013	<0.005			
5/20/2014			<0.005	
5/21/2014		<0.005		
5/28/2014	<0.005			<0.005
11/17/2014		<0.005	<0.005	
11/19/2014				<0.005
11/20/2014	<0.005			
4/7/2015		<0.005	<0.005	
4/14/2015	<0.005			
4/15/2015				<0.005
10/28/2015		<0.005	<0.005	
10/29/2015				<0.005
11/3/2015	<0.005			
6/23/2016	<0.005			
6/24/2016		<0.005	<0.005	<0.005
9/1/2016		<0.005	<0.005	<0.005
9/2/2016	0.00062 (J)			
10/25/2016		<0.005	<0.005	
10/26/2016	<0.005			<0.005
1/26/2017	<0.005	<0.005	<0.005	
1/27/2017				<0.005
4/11/2017		0.00067 (J)	0.00084 (J)	
4/12/2017	<0.005			<0.005
6/21/2017	<0.005	<0.005	<0.005	<0.005
10/25/2017				<0.005
10/26/2017	<0.005	<0.005	0.00087 (J)	
4/10/2018	<0.005	<0.005	<0.005	
4/11/2018				<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/3/2024 12:14 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-15	ARGWC-16	ARGWC-17	ARGWC-18
10/16/2018		<0.005		
10/17/2018	<0.005		<0.005	0.00066 (J)
3/27/2019	<0.005			<0.005
3/28/2019		0.00057 (J)	<0.005	
8/20/2019		<0.005		
8/21/2019	0.00036 (J)		0.00044 (J)	0.00033 (J)
10/8/2019	<0.005			
10/9/2019		0.001	0.0015	0.0016
4/8/2020	<0.005	<0.005	<0.005	
4/9/2020				<0.005
8/18/2020			<0.005	
8/19/2020	<0.005	<0.005		
8/20/2020				<0.005
9/29/2020	<0.005	<0.005	<0.005	
9/30/2020				<0.005
2/9/2021	<0.005	<0.005	<0.005	
2/10/2021				<0.005
9/8/2021	<0.005	0.00031 (J)	0.00039 (J)	
9/9/2021				0.0004 (J)
2/2/2022			0.00044 (J)	
2/3/2022	<0.005	<0.005		<0.005
8/31/2022	<0.005	<0.005		
9/2/2022			<0.005	<0.005
2/2/2023		<0.005		<0.005
2/3/2023	<0.005		<0.005	
8/9/2023			<0.005	
8/10/2023	0.0024 (J)	0.00431 (J)		<0.005
1/25/2024	<0.005	<0.005	<0.005	<0.005
8/21/2024	<0.005	<0.005	<0.005	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/3/2024 12:14 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	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		
5/13/2009			0.0034 (o)
5/14/2009	<0.005	<0.005	
12/1/2009	<0.005		
12/3/2009		<0.005	<0.005
5/26/2010	<0.005	<0.005	<0.005
11/9/2010		<0.005	<0.005
11/10/2010	<0.005		
5/18/2011		<0.005	
5/19/2011			<0.005
5/25/2011	<0.005		
11/11/2011	<0.005	<0.005	<0.005
5/17/2012	<0.005	<0.005	<0.005
11/9/2012	<0.005	<0.005	<0.005
5/7/2013		<0.005	<0.005
5/8/2013	<0.005		
11/5/2013	<0.005	<0.005	
11/6/2013			<0.005
5/21/2014	<0.005	<0.005	<0.005
11/17/2014	<0.005		
11/18/2014		<0.005	<0.005
4/7/2015	<0.005	<0.005	<0.005
10/28/2015	<0.005	<0.005	<0.005
6/23/2016	<0.005	<0.005	<0.005
8/31/2016	<0.005	<0.005	<0.005
10/25/2016	<0.005		<0.005
10/26/2016		<0.005	
1/26/2017	<0.005	<0.005	<0.005
4/12/2017	0.00078 (J)	0.00072 (J)	<0.005
6/21/2017		<0.005	
6/22/2017	<0.005		<0.005
10/25/2017	<0.005		<0.005
10/26/2017		<0.005	
4/10/2018	<0.005		
4/11/2018		<0.005	<0.005
10/17/2018	<0.005	0.00063 (J)	<0.005
3/28/2019	<0.005	<0.005	0.00051 (J)
8/21/2019	<0.005	0.00036 (J)	<0.005
10/9/2019	0.0015	0.0014	0.0011
4/8/2020	<0.005		
4/9/2020		<0.005	<0.005
8/18/2020	<0.005		
8/19/2020			<0.005
8/20/2020		<0.005	
9/29/2020	<0.005		
10/1/2020		<0.005	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/3/2024 12:14 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-7	ARGWC-8	ARGWC-9
2/10/2021	<0.005	<0.005	<0.005
9/9/2021		<0.005	<0.005
9/10/2021	<0.005		
2/2/2022		<0.005	<0.005
2/3/2022	<0.005		
8/31/2022	<0.005	<0.005	<0.005
2/2/2023	<0.005	<0.005	<0.005
8/10/2023	0.0048 (J)	0.00337 (J)	0.00457 (J)
1/25/2024	<0.005	<0.005	<0.005
8/21/2024	<0.005	<0.005	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Barium (mg/L) Analysis Run 10/3/2024 12:14 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARAMW-4	ARGWA-12 (bg)	ARGWA-13 (bg)	ARGWA-14 (bg)
5/6/2009		0.065		
5/7/2009			0.068	
12/3/2009		0.062	0.044	
5/25/2010		0.038 (o)	0.049	
6/2/2010				0.046
11/9/2010		0.059		
11/10/2010			0.052	0.057
5/19/2011				0.048
5/24/2011		0.054		
5/25/2011			0.045	
11/9/2011				0.045
11/10/2011		0.063	0.11	
5/18/2012		0.0646		
5/30/2012			0.0831	0.0519
11/9/2012		0.081	0.13	
11/11/2012				0.051
5/8/2013		0.066		
5/9/2013			0.059	0.056
11/6/2013		0.074		
11/11/2013			0.12	0.041
5/20/2014		0.057		
5/21/2014			0.073	
5/29/2014				0.051
11/18/2014		0.069	0.072	
11/19/2014				0.051
4/7/2015			0.06	
4/14/2015		0.067		0.043
10/28/2015			0.057	
10/29/2015		0.069		
11/4/2015				0.042
6/23/2016		0.063	0.036	0.084
8/30/2016		0.062		
8/31/2016			0.041	0.076
10/24/2016		0.0674		
10/25/2016			0.0429	0.039
1/23/2017		0.069		0.044
1/24/2017			0.025	
4/11/2017		0.064	0.024	0.038
6/20/2017				0.057
6/21/2017		0.074	0.034	
10/25/2017		0.07	0.03	0.05
4/9/2018			0.023	0.049
4/10/2018		0.073		
10/16/2018		0.069	0.028	0.06
3/26/2019			0.029	
3/27/2019		0.063		0.054
8/19/2019			0.035	
8/20/2019		0.075		
8/21/2019				0.031
10/7/2019				0.033
10/8/2019		0.078	0.042	
4/6/2020				0.051

Time Series

Constituent: Barium (mg/L) Analysis Run 10/3/2024 12:14 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARAMW-4	ARGWA-12 (bg)	ARGWA-13 (bg)	ARGWA-14 (bg)
4/7/2020		0.066	0.021	
8/18/2020		0.079	0.025	
8/19/2020				0.041
8/20/2020	0.053			
9/29/2020		0.079	0.024	0.062
9/30/2020	0.053			
2/9/2021		0.076	0.022	
2/10/2021	0.042			
2/11/2021				0.066
9/7/2021		0.073	0.031	
9/8/2021	0.037			0.037
2/1/2022		0.079	0.018	
2/2/2022	0.036			0.062
8/30/2022		0.085		
8/31/2022			0.0262	0.074
9/2/2022	0.0374			
2/2/2023		0.087		
2/3/2023			0.0166	
2/7/2023	0.0364			0.0376
8/9/2023	0.0372	0.1	0.0299	
8/10/2023				0.0465
1/24/2024				0.093
1/25/2024	0.0343	0.0833	0.0221	
8/20/2024		0.0701		
8/21/2024	0.0298		0.0218	
8/22/2024				0.0563

Time Series

Constituent: Barium (mg/L) Analysis Run 10/3/2024 12:14 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-24 (bg)	ARGWA-3 (bg)	ARGWA-5 (bg)	ARGWC-10
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	
5/6/2009			0.023	
5/7/2009		0.13		
5/13/2009				0.15 (o)
12/1/2009			0.033	
12/3/2009				0.03
12/4/2009		0.019		
5/25/2010			0.03	
5/26/2010				0.029
6/1/2010		0.027		
11/9/2010			0.033	0.029
11/10/2010		0.025		
5/19/2011				0.027
5/24/2011			0.027	
5/25/2011		0.015		
11/10/2011			0.032	
11/11/2011				0.031
11/12/2011		0.021		
5/17/2012				0.0299
5/18/2012			0.0311	
5/31/2012		0.0222		
11/9/2012			0.034	0.03
11/11/2012		0.022		
5/7/2013				0.028
5/8/2013			0.026	
5/13/2013		0.019		
11/6/2013			0.028	0.033
11/12/2013		0.025		
5/20/2014			0.027	0.029
5/29/2014		0.024		
11/17/2014			0.029	

Time Series

Constituent: Barium (mg/L) Analysis Run 10/3/2024 12:14 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-24 (bg)	ARGWA-3 (bg)	ARGWA-5 (bg)	ARGWC-10
11/18/2014				0.029
4/7/2015			0.024	0.028
4/14/2015		0.022		
10/28/2015			0.028	0.029
11/3/2015		0.022		
6/23/2016		0.019	0.025	0.028
8/30/2016			0.026	
8/31/2016		0.018		
9/1/2016				0.027
10/25/2016		0.016	0.0293	0.0296
1/24/2017		0.017	0.028	
1/27/2017				0.035
4/11/2017		0.016	0.024	
4/12/2017				0.031
6/20/2017		0.02	0.027	
6/22/2017				0.035
10/25/2017		0.019	0.03	
10/26/2017				0.032
4/10/2018		0.019	0.028	
4/11/2018				0.034
10/16/2018		0.018	0.027	
10/17/2018				0.031
3/27/2019		0.019	0.024	
3/28/2019				0.031
8/20/2019		0.02	0.029	
8/21/2019				0.035
10/8/2019		0.02	0.03	
10/9/2019				0.031
4/7/2020		0.018	0.02	
4/8/2020				0.031
8/18/2020		0.021	0.031	
8/19/2020				0.034
9/29/2020		0.019	0.03	
10/1/2020				0.032
12/1/2020	0.038			
2/9/2021	0.036	0.017	0.028	0.031
9/8/2021	0.039	0.018	0.033	
9/10/2021				0.031
2/1/2022	0.04	0.018	0.033	
2/2/2022				0.034
8/30/2022			0.0446	
8/31/2022	0.0412	0.0181		0.0345
2/2/2023	0.0392			0.034
2/3/2023		0.0177	0.0484	
8/9/2023	0.039	0.0191		0.0363
8/10/2023			0.0638	
1/24/2024	0.0369	0.0178	0.0621	
1/25/2024				0.0373
8/20/2024	0.0344	0.0172		
8/21/2024			0.0756	0.0328

Time Series

Constituent: Barium (mg/L) Analysis Run 10/3/2024 12:14 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-15	ARGWC-16	ARGWC-17	ARGWC-18
5/5/2009	0.042			
5/12/2009		0.16 (o)	0.048	0.055
12/4/2009	0.051		0.055	0.036
12/5/2009		0.062		
5/25/2010			0.063	0.033
5/26/2010		0.065		
6/1/2010	0.055			
11/9/2010		0.065	0.11	
11/10/2010	0.041			0.038
5/19/2011				0.028
5/24/2011		0.062	0.11	
5/25/2011	0.035			
11/9/2011	0.035			
11/12/2011		0.067	0.086	0.092 (o)
5/17/2012				0.0427
5/30/2012		0.0767	0.0586	
5/31/2012	0.0372			
11/9/2012		0.093	0.4 (o)	
11/10/2012	0.044			0.038
5/7/2013				0.03
5/8/2013			0.054	
5/13/2013	0.2 (o)	0.093		
11/5/2013				0.087 (o)
11/6/2013		0.068	0.043	
11/12/2013	0.035			
5/20/2014			0.051	
5/21/2014		0.072		
5/28/2014	0.038			0.032
11/17/2014		0.05	0.049	
11/19/2014				0.058
11/20/2014	0.037			
4/7/2015		0.055	0.043	
4/14/2015	0.035			
4/15/2015				0.039
10/28/2015		0.054	0.047	
10/29/2015				0.04
11/3/2015	0.038			
6/23/2016	0.028			
6/24/2016		0.056	0.044	0.034
9/1/2016		0.051	0.046	0.033
9/2/2016	0.074			
10/25/2016		0.0637	0.0436	
10/26/2016	0.0408			0.0339
1/26/2017	0.038	0.055	0.051	
1/27/2017				0.037
4/11/2017		0.055	0.043	
4/12/2017	0.03			0.032
6/21/2017	0.028	0.054	0.043	0.036
10/25/2017				0.041
10/26/2017	0.029	0.046	0.038	
4/10/2018	0.032	0.056	0.046	
4/11/2018				0.04

Time Series

Constituent: Barium (mg/L) Analysis Run 10/3/2024 12:14 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-15	ARGWC-16	ARGWC-17	ARGWC-18
10/16/2018		0.039		
10/17/2018	0.028		0.043	0.039
3/27/2019	0.032			0.033
3/28/2019		0.054	0.045	
8/20/2019		0.046		
8/21/2019	0.033		0.05	0.036
10/8/2019	0.031			
10/9/2019		0.057	0.049	0.039
4/8/2020	0.03	0.042	0.045	
4/9/2020				0.041
8/18/2020			0.062	
8/19/2020	0.028	0.045		
8/20/2020				0.041
9/29/2020	0.03	0.042	0.056	
9/30/2020				0.041
2/9/2021	0.029	0.044	0.051	
2/10/2021				0.038
9/8/2021	0.043	0.035	0.058	
9/9/2021				0.046
2/2/2022			0.062	
2/3/2022	0.03	0.047		0.043
8/31/2022	0.0325	0.0383		
9/2/2022			0.0727	0.0369
2/2/2023		0.0468		0.0387
2/3/2023	0.0287		0.0572	
8/9/2023			0.0861	
8/10/2023	0.037	0.0381		0.0415
1/25/2024	0.0325	0.0476	0.0519	0.0404
8/21/2024	0.039	0.0349	0.048	0.0355

Time Series

Constituent: Barium (mg/L) Analysis Run 10/3/2024 12:14 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	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		
5/13/2009			0.14 (o)
5/14/2009	0.035	0.039	
12/1/2009	0.031		
12/3/2009		0.036	0.032
5/26/2010	0.025	0.036	0.031
11/9/2010		0.038	0.03
11/10/2010	0.027		
5/18/2011		0.032	
5/19/2011			0.028
5/25/2011	0.022		
11/11/2011	0.027	0.036	0.032
5/17/2012	0.0265	0.0353	0.0319
11/9/2012	0.028	0.038	0.036
5/7/2013		0.037	0.035
5/8/2013	0.026		
11/5/2013	0.027	0.037	
11/6/2013			0.043
5/21/2014	0.028	0.037	0.042
11/17/2014	0.031		
11/18/2014		0.038	0.044
4/7/2015	0.029	0.045	0.043
10/28/2015	0.032	0.042	0.045
6/23/2016	0.031	0.039	0.043
8/31/2016	0.03	0.037	0.042
10/25/2016	0.0317		0.0455
10/26/2016		0.0423	
1/26/2017	0.035	0.046	0.048
4/12/2017	0.034	0.041	0.045
6/21/2017		0.049	
6/22/2017	0.038		0.055
10/25/2017	0.038		0.049
10/26/2017		0.046	
4/10/2018	0.038		
4/11/2018		0.048	0.052
10/17/2018	0.038	0.045	0.046
3/28/2019	0.038	0.045	0.047
8/21/2019	0.041	0.052	0.045
10/9/2019	0.046	0.049	0.041
4/8/2020	0.039		
4/9/2020		0.045	0.044
8/18/2020	0.044		
8/19/2020			0.046
8/20/2020		0.053	
9/29/2020	0.042		
10/1/2020		0.052	0.045

Time Series

Constituent: Barium (mg/L) Analysis Run 10/3/2024 12:14 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-7	ARGWC-8	ARGWC-9
2/10/2021	0.041	0.049	0.038
9/9/2021		0.051	0.038
9/10/2021	0.045		
2/2/2022		0.059	0.04
2/3/2022	0.051		
8/31/2022	0.0505	0.0571	0.0391
2/2/2023	0.0518	0.0554	0.0391
8/10/2023	0.054	0.0603	0.0401
1/25/2024	0.0563	0.0641	0.0414
8/21/2024	0.0473	0.0585	0.0363

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/3/2024 12:14 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARAMW-4	ARGWA-12 (bg)	ARGWA-13 (bg)	ARGWA-14 (bg)
8/30/2016		<0.0005		
8/31/2016			<0.0005	<0.0005
10/24/2016		<0.0005		
10/25/2016			<0.0005	<0.0005
1/23/2017		<0.0005		<0.0005
1/24/2017			<0.0005	
4/11/2017		<0.0005	<0.0005	<0.0005
6/20/2017				<0.0005
6/21/2017		<0.0005	<0.0005	
10/25/2017		<0.0005	<0.0005	<0.0005
4/9/2018			<0.0005	<0.0005
4/10/2018		<0.0005		
10/16/2018		<0.0005	<0.0005	<0.0005
8/19/2019			<0.0005	
8/20/2019		<0.0005		
8/21/2019				<0.0005
10/7/2019				<0.0005
10/8/2019		<0.0005	<0.0005	
4/6/2020				<0.0005
4/7/2020		<0.0005	<0.0005	
8/18/2020		<0.0005	<0.0005	
8/19/2020				<0.0005
8/20/2020	<0.0005			
9/29/2020		<0.0005	<0.0005	<0.0005
9/30/2020	<0.0005			
2/9/2021		<0.0005	<0.0005	
2/10/2021	<0.0005			
2/11/2021				<0.0005
9/7/2021		<0.0005	<0.0005	
9/8/2021	<0.0005			<0.0005
2/1/2022		<0.0005	<0.0005	
2/2/2022	<0.0005			<0.0005
8/30/2022		<0.0005		
8/31/2022			<0.0005	<0.0005
9/2/2022	<0.0005			
2/2/2023		<0.0005		
2/3/2023			<0.0005	
2/7/2023	<0.0005			<0.0005
8/9/2023	<0.0005	<0.0005	<0.0005	
8/10/2023				<0.0005
1/24/2024				<0.0005
1/25/2024	<0.0005	<0.0005	<0.0005	
8/20/2024		<0.0005		
8/21/2024	<0.0005		<0.0005	
8/22/2024				<0.0005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/3/2024 12:14 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-24 (bg)	ARGWA-3 (bg)	ARGWA-5 (bg)	ARGWC-10
8/30/2016			<0.0005	
8/31/2016		<0.0005		
9/1/2016				<0.0005
10/25/2016		<0.0005	<0.0005	<0.0005
1/24/2017		<0.0005	<0.0005	
1/27/2017				<0.0005
4/11/2017		<0.0005	<0.0005	
4/12/2017				<0.0005
6/20/2017		<0.0005	<0.0005	
6/22/2017				<0.0005
10/25/2017		<0.0005	<0.0005	
10/26/2017				<0.0005
4/10/2018		<0.0005	<0.0005	
4/11/2018				<0.0005
10/16/2018		<0.0005	<0.0005	
10/17/2018				<0.0005
8/20/2019		0.00025 (J)	0.00035 (J)	
8/21/2019				<0.0005
10/8/2019		<0.0005	0.00041 (J)	
10/9/2019				<0.0005
4/7/2020		<0.0005	<0.0005	
4/8/2020				<0.0005
8/18/2020		<0.0005	<0.0005	
8/19/2020				<0.0005
9/29/2020		<0.0005	<0.0005	
10/1/2020				<0.0005
12/1/2020	<0.0005			
2/9/2021	<0.0005	<0.0005	<0.0005	<0.0005
9/8/2021	<0.0005	<0.0005	<0.0005	
9/10/2021				<0.0005
2/1/2022	<0.0005	<0.0005	<0.0005	
2/2/2022				<0.0005
8/30/2022			<0.0005	
8/31/2022	<0.0005	<0.0005		<0.0005
2/2/2023	<0.0005			<0.0005
2/3/2023		<0.0005	<0.0005	
8/9/2023	<0.0005	<0.0005		<0.0005
8/10/2023			<0.0005	
1/24/2024	<0.0005	<0.0005	<0.0005	
1/25/2024				<0.0005
8/20/2024	<0.0005	<0.0005		
8/21/2024			<0.0005	<0.0005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/3/2024 12:14 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-15	ARGWC-16	ARGWC-17	ARGWC-18
9/1/2016		<0.0005	0.00034 (J)	<0.0005
9/2/2016	<0.0005			
10/25/2016		<0.0005	0.0002 (J)	
10/26/2016	<0.0005			<0.0005
1/26/2017	<0.0005	<0.0005	<0.0025	
1/27/2017				<0.0005
4/11/2017		<0.0005	<0.0025	
4/12/2017	<0.0005			<0.0005
6/21/2017	<0.0005	<0.0005	<0.0025	<0.0005
10/25/2017				<0.0005
10/26/2017	<0.0005	<0.0005	<0.0025	
4/10/2018	<0.0005	<0.0005	<0.0025	
4/11/2018				<0.0005
10/16/2018		<0.0005		
10/17/2018	<0.0005		<0.0025	<0.0005
8/20/2019		<0.0005		
8/21/2019	<0.0005		0.00025 (J)	<0.0005
10/8/2019	<0.0005			
10/9/2019		0.00027 (J)	0.00076 (J)	0.00034 (J)
4/8/2020	<0.0005	<0.0005	0.00025 (J)	
4/9/2020				<0.0005
8/18/2020			0.00039 (J)	
8/19/2020	<0.0005	<0.0005		
8/20/2020				<0.0005
9/29/2020	<0.0005	<0.0005	0.0004 (J)	
9/30/2020				<0.0005
2/9/2021	<0.0005	<0.0005	<0.0025	
2/10/2021				<0.0005
9/8/2021	<0.0005	<0.0005	0.00037 (J)	
9/9/2021				<0.0005
2/2/2022			0.00051 (J)	
2/3/2022	<0.0005	<0.0005		<0.0005
8/31/2022	<0.0005	<0.0005		
9/2/2022			0.000417 (J)	<0.0005
2/2/2023		<0.0005		<0.0005
2/3/2023	<0.0005		0.00044 (J)	
8/9/2023			0.00049 (J)	
8/10/2023	<0.0005	<0.0005		<0.0005
1/25/2024	<0.0005	<0.0005	0.000379 (J)	<0.0005
8/21/2024	<0.0005	<0.0005	0.000344 (J)	<0.0005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/3/2024 12:14 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-7	ARGWC-8	ARGWC-9
8/31/2016	<0.0005	<0.0005	<0.0005
10/25/2016	0.0001 (J)		<0.0005
10/26/2016		<0.0005	
1/26/2017	<0.0005	<0.0005	<0.0005
4/12/2017	<0.0005	<0.0005	<0.0005
6/21/2017		<0.0005	
6/22/2017	<0.0005		<0.0005
10/25/2017	<0.0005		<0.0005
10/26/2017		<0.0005	
4/10/2018	<0.0005		
4/11/2018		<0.0005	<0.0005
10/17/2018	<0.0005	<0.0005	<0.0005
8/21/2019	<0.0005	<0.0005	<0.0005
10/9/2019	0.00041 (J)	0.00047 (J)	0.00037 (J)
4/8/2020	<0.0005		
4/9/2020		<0.0005	<0.0005
8/18/2020	<0.0005		
8/19/2020			<0.0005
8/20/2020		<0.0005	
9/29/2020	<0.0005		
10/1/2020		<0.0005	<0.0005
2/10/2021	<0.0005	<0.0005	<0.0005
9/9/2021		<0.0005	<0.0005
9/10/2021	<0.0005		
2/2/2022		<0.0005	<0.0005
2/3/2022	<0.0005		
8/31/2022	<0.0005	<0.0005	<0.0005
2/2/2023	<0.0005	<0.0005	<0.0005
8/10/2023	<0.0005	<0.0005	<0.0005
1/25/2024	<0.0005	<0.0005	<0.0005
8/21/2024	<0.0005	<0.0005	<0.0005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 10/3/2024 12:14 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARAMW-4	ARGWA-12 (bg)	ARGWA-13 (bg)	ARGWA-14 (bg)
8/30/2016		0.032 (J)		
8/31/2016			0.1	0.04 (J)
10/24/2016		0.0406 (J)		
10/25/2016			0.204	0.065 (J)
1/23/2017		0.023 (J)		0.031 (J)
1/24/2017			0.064	
4/11/2017		0.025 (J)	0.081	0.043 (J)
6/20/2017				0.029 (J)
6/21/2017		<0.08	0.13	
10/25/2017		0.028 (J)	0.17	0.041 (J)
4/9/2018			0.059	0.04 (J)
4/10/2018		0.027 (J)		
10/16/2018		0.023 (J)	0.34	0.046 (J)
3/26/2019			0.32	
3/27/2019		<0.08		0.032 (J)
10/7/2019				<0.08
10/8/2019		<0.08	0.68	
1/15/2020	0.32			
4/6/2020				0.041 (J)
4/7/2020		<0.08	0.23	
6/24/2020	0.4			
6/25/2020			0.32	<0.08
6/26/2020		<0.08		
9/29/2020		<0.08	0.35	0.039 (J)
9/30/2020	0.36			
2/9/2021		<0.08	0.38	
2/10/2021	0.4			
2/11/2021				0.062 (J)
9/7/2021		<0.08	0.96	
9/8/2021	0.45			<0.08
2/1/2022		<0.08	0.3	
2/2/2022	0.43			<0.08
8/30/2022		0.0214		
8/31/2022			0.933	0.0356
9/2/2022	0.477			
2/2/2023		0.0179		
2/3/2023			0.26	
2/7/2023	0.495			0.0145 (J)
8/9/2023	0.523	0.0235	1.06	
8/10/2023				0.0372
1/24/2024				0.0605
1/25/2024	0.698	0.0208	0.713	
8/20/2024		0.0106 (J)		
8/21/2024	0.693		1.11	
8/22/2024				0.0311

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 10/3/2024 12:14 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-24 (bg)	ARGWA-3 (bg)	ARGWA-5 (bg)	ARGWC-10
8/30/2016			<0.08	
8/31/2016		<0.015		
9/1/2016				<0.015
10/25/2016		0.0068 (J)	0.0073 (J)	<0.015
1/24/2017		<0.015	<0.08	
1/27/2017				<0.015
4/11/2017		<0.015	<0.08	
4/12/2017				<0.015
6/20/2017		<0.015	<0.08	
6/22/2017				<0.015
10/25/2017		<0.015	<0.08	
10/26/2017				0.026 (J)
4/10/2018		<0.015	<0.08	
4/11/2018				<0.015
10/16/2018		<0.015	<0.08	
10/17/2018				<0.015
3/27/2019		<0.015	<0.08	
3/28/2019				<0.015
10/8/2019		<0.015	<0.08	
10/9/2019				<0.015
4/7/2020		<0.015	<0.08	
4/8/2020				<0.015
6/23/2020				0.053 (J)
6/25/2020		<0.015	<0.08	
9/29/2020		<0.015	<0.08	
10/1/2020				0.082
12/1/2020	<0.08			
2/9/2021	<0.08	<0.015	<0.08	<0.015
9/8/2021	<0.08	<0.015	<0.08	
9/10/2021				<0.015
2/1/2022	<0.08	<0.015	<0.08	
2/2/2022				<0.015
8/30/2022			0.00855	
8/31/2022	0.0151	0.00589		0.00863
2/2/2023	0.014 (J)			0.00561 (J)
2/3/2023		<0.015	0.0066 (J)	
8/9/2023	0.0117 (J)	0.00594 (J)		<0.015
8/10/2023			0.0139 (J)	
1/24/2024	0.0133 (J)	0.00554 (J)	0.00641 (J)	
1/25/2024				0.00819 (J)
8/20/2024	0.00663 (J)	<0.015		
8/21/2024			0.00762 (J)	0.00605 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 10/3/2024 12:14 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-15	ARGWC-16	ARGWC-17	ARGWC-18
9/1/2016		0.049 (J)	0.022 (J)	2.4
9/2/2016	<0.08			
10/25/2016		0.042 (J)	0.0219 (J)	
10/26/2016	0.0138 (J)			1.97
1/26/2017	<0.08	0.059	<0.08	
1/27/2017				2.6
4/11/2017		0.045 (J)	<0.08	
4/12/2017	<0.08			2.4
6/21/2017	<0.08	0.045 (J)	<0.08	2.2
10/25/2017				2.5
10/26/2017	<0.08	0.054	0.023 (J)	
4/10/2018	<0.08	0.048 (J)	0.026 (J)	
4/11/2018				2.7
10/16/2018		0.048 (J)		
10/17/2018	<0.08		<0.08	2.2
3/27/2019	<0.08			2.3
3/28/2019		0.08	0.022 (J)	
10/8/2019	<0.08			
10/9/2019		0.065 (J)	<0.08	2.1
4/8/2020	<0.08	0.059 (J)	<0.08	
4/9/2020				2.3
6/24/2020		0.11	0.059 (J)	2.2
6/25/2020	<0.08			
9/29/2020	<0.08	0.081	0.045 (J)	
9/30/2020				2.6
2/9/2021	<0.08	0.076 (J)	0.042 (J)	
2/10/2021				2.4
9/8/2021	<0.08	0.13	0.074 (J)	
9/9/2021				2.4
2/2/2022			0.11	
2/3/2022	<0.08	0.13		2.4
8/31/2022	0.0137	0.101		
9/2/2022			0.0555	2.53
2/2/2023		0.194		2.61
2/3/2023	0.0113 (J)		0.051	
8/9/2023			0.0534	
8/10/2023	0.00806 (J)	0.224		2.54
1/25/2024	0.0125 (J)	0.37	0.059	2.43
8/21/2024	0.0103 (J)	0.449	0.0575	2.47

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 10/3/2024 12:14 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-7	ARGWC-8	ARGWC-9
8/31/2016	0.14	1.3	<0.08
10/25/2016	0.126		0.0071 (J)
10/26/2016		1.14	
1/26/2017	0.14	1.5	<0.08
4/12/2017	0.12	1.3	<0.08
6/21/2017		1.3	
6/22/2017	0.11		<0.08
10/25/2017	0.12		<0.08
10/26/2017		1.5	
4/10/2018	0.1		
4/11/2018		1	<0.08
10/17/2018	0.084	1.3	<0.08
3/28/2019	0.087	1.3	0.044 (J)
10/9/2019	0.076 (J)	1.2	<0.08
4/8/2020	0.086		
4/9/2020		1.1	<0.08
6/23/2020		1.1	
6/25/2020	0.091		
6/26/2020			<0.08
9/29/2020	0.078 (J)		
10/1/2020		1.2	0.041 (J)
2/10/2021	0.1	1.3	0.06 (J)
9/9/2021		1.2	<0.08
9/10/2021	0.093		
2/2/2022		1.1	<0.08
2/3/2022	0.13		
8/31/2022	0.0815	1.05	0.00885
2/2/2023	0.0773	1.04	0.00794 (J)
8/10/2023	0.116	0.98	0.00623 (J)
1/25/2024	0.076	1.07	0.0114 (J)
8/21/2024	0.0724	0.877	0.0066 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/3/2024 12:14 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARAMW-4	ARGWA-12 (bg)	ARGWA-13 (bg)	ARGWA-14 (bg)
5/6/2009		<0.001		
5/7/2009			<0.001	
12/3/2009		<0.001	<0.001	
5/25/2010		<0.001	<0.001	
6/2/2010				<0.001
11/9/2010		<0.001		
11/10/2010			<0.001	<0.001
5/19/2011				<0.001
5/24/2011		<0.001		
5/25/2011			<0.001	
11/9/2011				<0.001
11/10/2011		<0.001	<0.001	
5/18/2012		<0.001		
5/30/2012			<0.001	<0.001
11/9/2012		<0.001	<0.001	
11/11/2012				<0.001
5/8/2013		<0.001		
5/9/2013			<0.001	<0.001
11/6/2013		<0.001		
11/11/2013			<0.001	<0.001
5/20/2014		<0.001		
5/21/2014			<0.001	
5/29/2014				<0.001
11/18/2014		<0.001	<0.001	
11/19/2014				<0.001
4/7/2015			<0.001	
4/14/2015		0.00026		<0.001
10/28/2015			<0.001	
10/29/2015		<0.001		
11/4/2015				<0.001
6/23/2016		<0.001	<0.001	<0.001
8/30/2016		<0.001		
8/31/2016			<0.001	0.00039 (J)
10/24/2016		<0.001		
10/25/2016			<0.001	<0.001
1/23/2017		<0.001		<0.001
1/24/2017			<0.001	
4/11/2017		<0.001	<0.001	<0.001
6/20/2017				<0.001
6/21/2017		<0.001	<0.001	
10/25/2017		<0.001	<0.001	<0.001
4/9/2018			<0.001	0.00052 (J)
4/10/2018		<0.001		
10/16/2018		<0.001	<0.001	0.00071 (J)
3/26/2019			<0.001	
3/27/2019		<0.001		<0.001
8/19/2019			<0.001	
8/20/2019		<0.001		
8/21/2019				0.00015 (J)
10/7/2019				<0.001
10/8/2019		<0.001	<0.001	
4/6/2020				<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/3/2024 12:14 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARAMW-4	ARGWA-12 (bg)	ARGWA-13 (bg)	ARGWA-14 (bg)
4/7/2020		<0.001	<0.001	
8/18/2020		<0.001	<0.001	
8/19/2020				<0.001
8/20/2020	<0.001			
2/9/2021		<0.001	<0.001	
2/10/2021	<0.001			
2/11/2021				<0.001
9/7/2021		<0.001	<0.001	
9/8/2021	<0.001			<0.001
2/1/2022		<0.001	<0.001	
2/2/2022	0.00023 (J)			<0.001
8/30/2022		<0.001		
8/31/2022			<0.001	<0.001
9/2/2022	<0.001			
2/2/2023		<0.001		
2/3/2023			<0.001	
2/7/2023	<0.001			<0.001
8/9/2023	<0.001	<0.001	<0.001	
8/10/2023				<0.001
1/24/2024				<0.001
1/25/2024	<0.001	<0.001	<0.001	
8/20/2024		<0.001		
8/21/2024	0.000451 (J)		<0.001	
8/22/2024				<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/3/2024 12:14 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-24 (bg)	ARGWA-3 (bg)	ARGWA-5 (bg)	ARGWC-10
12/16/1997		0.103 (o)	<0.001	
6/30/1998		0.007 (o)	<0.001	
12/2/1998		0.007 (o)	<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	<0.001	
12/5/2001		0.002	<0.001	
6/26/2002		0.003	<0.001	
12/3/2002		<0.001	<0.001	
6/11/2003		0.0043	<0.001	
12/10/2003		<0.001	<0.001	
6/15/2004		<0.001	<0.001	
12/14/2004		<0.001	0.0012	
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		0.00033	<0.001	
10/22/2008		<0.001	<0.001	
5/6/2009			<0.001	
5/7/2009		<0.001		
5/13/2009				<0.001
12/1/2009			<0.001	
12/3/2009				<0.001
12/4/2009		<0.001		
5/25/2010			<0.001	
5/26/2010				<0.001
6/1/2010		<0.001		
11/9/2010			<0.001	<0.001
11/10/2010		<0.001		
5/19/2011				<0.001
5/24/2011			<0.001	
5/25/2011		<0.001		
11/10/2011			<0.001	
11/11/2011				<0.001
11/12/2011		<0.001		
5/17/2012				<0.001
5/18/2012			<0.001	
5/31/2012		<0.001		
11/9/2012			<0.001	<0.001
11/11/2012		<0.001		
5/7/2013				<0.001
5/8/2013			<0.001	
5/13/2013		<0.001		
11/6/2013			<0.001	<0.001
11/12/2013		<0.001		
5/20/2014			<0.001	<0.001
5/29/2014		<0.001		
11/17/2014			<0.001	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/3/2024 12:14 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-24 (bg)	ARGWA-3 (bg)	ARGWA-5 (bg)	ARGWC-10
11/18/2014				<0.001
4/7/2015			<0.001	<0.001
4/14/2015		<0.001		
10/28/2015			<0.001	<0.001
11/3/2015		<0.001		
6/23/2016		<0.001	<0.001	<0.001
8/30/2016			<0.001	
8/31/2016		<0.001		
9/1/2016				<0.001
10/25/2016		<0.001	<0.001	<0.001
1/24/2017		<0.001	<0.001	
1/27/2017				<0.001
4/11/2017		<0.001	<0.001	
4/12/2017				<0.001
6/20/2017		<0.001	<0.001	
6/22/2017				<0.001
10/25/2017		<0.001	<0.001	
10/26/2017				<0.001
4/10/2018		<0.001	<0.001	
4/11/2018				<0.001
10/16/2018		<0.001	<0.001	
10/17/2018				<0.001
3/27/2019		<0.001	<0.001	
3/28/2019				<0.001
8/20/2019		0.00014 (J)	<0.001	
8/21/2019				<0.001
10/8/2019		<0.001	<0.001	
10/9/2019				<0.001
4/7/2020		<0.001	<0.001	
4/8/2020				<0.001
8/18/2020		<0.001	<0.001	
8/19/2020				<0.001
12/1/2020	<0.001			
2/9/2021	<0.001	<0.001	<0.001	<0.001
9/8/2021	<0.001	<0.001	<0.001	
9/10/2021				<0.001
2/1/2022	<0.001	<0.001	<0.001	
2/2/2022				<0.001
8/30/2022			<0.001	
8/31/2022	<0.001	<0.001		<0.001
2/2/2023	<0.001			<0.001
2/3/2023		<0.001	<0.001	
8/9/2023	<0.001	<0.001		<0.001
8/10/2023			<0.001	
1/24/2024	<0.001	<0.001	<0.001	
1/25/2024				<0.001
8/20/2024	<0.001	<0.001		
8/21/2024			<0.001	<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/3/2024 12:14 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-15	ARGWC-16	ARGWC-17	ARGWC-18
5/5/2009	<0.001			
5/12/2009		<0.001	<0.001	<0.001
12/4/2009	<0.001		<0.001	<0.001
12/5/2009		<0.001		
5/25/2010			<0.001	<0.001
5/26/2010		<0.001		
6/1/2010	<0.001			
11/9/2010		<0.001	<0.001	
11/10/2010	<0.001			<0.001
5/19/2011				<0.001
5/24/2011		<0.001	<0.001	
5/25/2011	<0.001			
11/9/2011	<0.001			
11/12/2011		<0.001	<0.001	<0.001
5/17/2012				<0.001
5/30/2012		<0.001	<0.001	
5/31/2012	<0.001			
11/9/2012		<0.001	0.0015	
11/10/2012	<0.001			<0.001
5/7/2013				<0.001
5/8/2013			<0.001	
5/13/2013	<0.001	<0.001		
11/5/2013				<0.001
11/6/2013		<0.001	<0.001	
11/12/2013	<0.001			
5/20/2014			<0.001	
5/21/2014		<0.001		
5/28/2014	0			<0.001
11/17/2014		<0.001	<0.001	
11/19/2014				<0.001
11/20/2014	<0.001			
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	<0.001			
6/23/2016	<0.001			
6/24/2016		<0.001	<0.001	<0.001
9/1/2016		<0.001	<0.001	<0.001
9/2/2016	<0.001			
10/25/2016		0.0001 (J)	0.0001 (J)	
10/26/2016	<0.001			<0.001
1/26/2017	<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
6/21/2017	<0.001	<0.001	<0.001	<0.001
10/25/2017				<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

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/3/2024 12:14 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-15	ARGWC-16	ARGWC-17	ARGWC-18
10/16/2018		<0.001		
10/17/2018	<0.001		<0.001	<0.001
3/27/2019	<0.001			<0.001
3/28/2019		<0.001	<0.001	
8/20/2019		<0.001		
8/21/2019	<0.001		0.00013 (J)	<0.001
10/8/2019	<0.001			
10/9/2019		<0.001	0.00018 (J)	<0.001
4/8/2020	<0.001	<0.001	<0.001	
4/9/2020				<0.001
8/18/2020			<0.001	
8/19/2020	<0.001	<0.001		
8/20/2020				<0.001
2/9/2021	<0.001	<0.001	<0.001	
2/10/2021				<0.001
9/8/2021	<0.001	<0.001	<0.001	
9/9/2021				<0.001
2/2/2022			0.0003 (J)	
2/3/2022	<0.001	<0.001		<0.001
8/31/2022	<0.001	<0.001		
9/2/2022			<0.001	<0.001
2/2/2023		<0.001		<0.001
2/3/2023	<0.001		<0.001	
8/9/2023			0.000445 (J)	
8/10/2023	<0.001	<0.001		<0.001
1/25/2024	<0.001	<0.001	<0.001	<0.001
8/21/2024	<0.001	<0.001	<0.001	<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/3/2024 12:14 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	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		
5/13/2009			<0.001
5/14/2009	<0.001	<0.001	
12/1/2009	<0.001		
12/3/2009		<0.001	<0.001
5/26/2010	<0.001	<0.001	<0.001
11/9/2010		<0.001	<0.001
11/10/2010	<0.001		
5/18/2011		<0.001	
5/19/2011			<0.001
5/25/2011	<0.001		
11/11/2011	<0.001	<0.001	<0.001
5/17/2012	<0.001	<0.001	<0.001
11/9/2012	<0.001	<0.001	<0.001
5/7/2013		<0.001	<0.001
5/8/2013	<0.001		
11/5/2013	<0.001	<0.001	
11/6/2013			<0.001
5/21/2014	<0.001	<0.001	<0.001
11/17/2014	<0.001		
11/18/2014		<0.001	<0.001
4/7/2015	<0.001	<0.001	<0.001
10/28/2015	<0.001	<0.001	<0.001
6/23/2016	<0.001	<0.001	<0.001
8/31/2016	<0.001	<0.001	<0.001
10/25/2016	<0.001		<0.001
10/26/2016		<0.001	
1/26/2017	<0.001	<0.001	<0.001
4/12/2017	<0.001	<0.001	<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	
4/10/2018	<0.001		
4/11/2018		<0.001	<0.001
10/17/2018	<0.001	<0.001	<0.001
3/28/2019	<0.001	<0.001	<0.001
8/21/2019	<0.001	<0.001	<0.001
10/9/2019	<0.001	<0.001	<0.001
4/8/2020	<0.001		
4/9/2020		<0.001	<0.001
8/18/2020	<0.001		
8/19/2020			<0.001
8/20/2020		<0.001	
2/10/2021	<0.001	<0.001	<0.001
9/9/2021		<0.001	<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/3/2024 12:14 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-7	ARGWC-8	ARGWC-9
9/10/2021	<0.001		
2/2/2022		<0.001	<0.001
2/3/2022	<0.001		
8/31/2022	<0.001	<0.001	<0.001
2/2/2023	<0.001	<0.001	<0.001
8/10/2023	<0.001	<0.001	<0.001
1/25/2024	<0.001	<0.001	<0.001
8/21/2024	<0.001	<0.001	<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Calcium (mg/L) Analysis Run 10/3/2024 12:14 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARAMW-4	ARGWA-12 (bg)	ARGWA-13 (bg)	ARGWA-14 (bg)
8/30/2016		11		
8/31/2016			110	31
10/24/2016		10.4		
10/25/2016			150	38.5
1/23/2017		12		25
1/24/2017			78	
4/11/2017		12	78	33
6/20/2017				34
6/21/2017		12	110	
10/25/2017		13	120	28
4/9/2018			49	30
4/10/2018		13		
10/16/2018		12	110	41
3/26/2019			95	
3/27/2019		11		42
10/7/2019				36
10/8/2019		13	190	
4/6/2020				43
4/7/2020		12	61	
6/24/2020	170			
6/25/2020			100	27
6/26/2020		15		
9/29/2020		14	120	29
9/30/2020	210			
2/9/2021		14	110	
2/10/2021	220			
2/11/2021				40
9/7/2021		14	190	
9/8/2021	230			24
2/1/2022		12	73	
2/2/2022	240			48
8/30/2022		14.2		
8/31/2022			165	41.6
9/2/2022	240			
2/2/2023		14.9		
2/3/2023			49	
2/7/2023	254			19.1
8/9/2023	261	16	186	
8/10/2023				49.5
1/24/2024				45.6
1/25/2024	310	13.3	118	
8/20/2024		11.8		
8/21/2024	315		165	
8/22/2024				45.3

Time Series

Constituent: Calcium (mg/L) Analysis Run 10/3/2024 12:14 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-24 (bg)	ARGWA-3 (bg)	ARGWA-5 (bg)	ARGWC-10
8/30/2016			5.1	
8/31/2016		5.4		
9/1/2016				6.6
10/25/2016		4.47	4.76	5.89
1/24/2017		5.8	5.6	
1/27/2017				7.4
4/11/2017		5.3	4.7	
4/12/2017				6.7
6/20/2017		5.8	5.4	
6/22/2017				7.5
10/25/2017		5.9	6	
10/26/2017				7.8
4/10/2018		5.9	5.3	
4/11/2018				7.4
10/16/2018		5.8	5.6	
10/17/2018				7.1
3/27/2019		5.4	4.5	
3/28/2019				7.3
10/8/2019		6	5.9	
10/9/2019				7.7
4/7/2020		5.5	4	
4/8/2020				7.5
6/23/2020				7.7
6/25/2020		5.7	6.1	
9/29/2020		5.9	6.6	
10/1/2020				8.1
12/1/2020	13			
2/9/2021	9.7	5.8	6.2	7.7
9/8/2021	10	5.8	7.3	
9/10/2021				8.1
2/1/2022	9.6	5.4	6.5	
2/2/2022				8.3
8/30/2022			9.56 (J)	
8/31/2022	10.1	5.91		7.65
2/2/2023	10.2			7.69
2/3/2023		5.79	10.4	
8/9/2023	9.31	5.96		7.85
8/10/2023			12.6	
1/24/2024	9.3	5.9	12.4	
1/25/2024				8.32
8/20/2024	9.12	6.01		
8/21/2024			16.4	7.87

Time Series

Constituent: Calcium (mg/L) Analysis Run 10/3/2024 12:14 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-15	ARGWC-16	ARGWC-17	ARGWC-18
9/1/2016		21	16	42
9/2/2016	22			
10/25/2016		29.8	13.5	
10/26/2016	23.7			44.3
1/26/2017	23	23	21	
1/27/2017				49
4/11/2017		28	16	
4/12/2017	17			45
6/21/2017	18	22	15	49
10/25/2017				49
10/26/2017	19	21	13	
4/10/2018	24	25	13	
4/11/2018				44
10/16/2018		16		
10/17/2018	21		10	49
3/27/2019	28			47
3/28/2019		41	10	
10/8/2019	24			
10/9/2019		39	10	49
4/8/2020	21	40	8.3	
4/9/2020				46
6/24/2020		47	11	44
6/25/2020	23			
9/29/2020	25	39	12	
9/30/2020				52
2/9/2021	23	38	12	
2/10/2021				52
9/8/2021	27	32	15	
9/9/2021				55
2/2/2022			14	
2/3/2022	22	50		55
8/31/2022	25	42.4		
9/2/2022			23.7	52.4
2/2/2023		66.5		52.4
2/3/2023	20.5		18.8	
8/9/2023			37.4	
8/10/2023	30.9	63.4		52.1
1/25/2024	23.3	71.7	22.6	54
8/21/2024	26.1	69.9	24.2	48.9

Time Series

Constituent: Calcium (mg/L) Analysis Run 10/3/2024 12:14 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-7	ARGWC-8	ARGWC-9
8/31/2016	12	46	5.2
10/25/2016	10.9		4.64
10/26/2016		43.3	
1/26/2017	13	51	5.5
4/12/2017	12	47	4.9
6/21/2017		51	
6/22/2017	13		5.8
10/25/2017	12		6.1
10/26/2017		55	
4/10/2018	12		
4/11/2018		44	6
10/17/2018	11	52	5.8
3/28/2019	11	52	5.6
10/9/2019	11	53	5.7
4/8/2020	11		
4/9/2020		47	5.3
6/23/2020		52	
6/25/2020	11		
6/26/2020			5.6
9/29/2020	11		
10/1/2020		52	5.7
2/10/2021	9.9	48	4.8
9/9/2021		49	4.7
9/10/2021	10		
2/2/2022		47	4.7
2/3/2022	11		
8/31/2022	9.99	43	4.77
2/2/2023	10.2	45.7	4.88
8/10/2023	9.75	44.9	4.75
1/25/2024	10.3	46	4.81
8/21/2024	8.99	43.4	4.65

Time Series

Constituent: Chloride (mg/L) Analysis Run 10/3/2024 12:14 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARAMW-4	ARGWA-12 (bg)	ARGWA-13 (bg)	ARGWA-14 (bg)
5/6/2009		10.7		
5/7/2009			4.24	
12/3/2009		10.1	2.66	
5/25/2010		7.11	3.29	
6/2/2010				15.1
11/9/2010		8.4		
11/10/2010			3.82	14.8
5/19/2011				28.2 (o)
5/24/2011		9.07		
5/25/2011			4.92	
11/9/2011				32.8 (o)
11/10/2011		10.3	4.48	
5/18/2012		10.1		
5/30/2012			4.72	30.8 (o)
11/9/2012		8.73	5.1	
11/11/2012				24.6 (o)
5/8/2013		8.06		
5/9/2013			3.85	27.2 (o)
11/6/2013		10.2		
11/11/2013			5.26	12.7
5/20/2014		8.2		
5/21/2014			4.47	
5/29/2014				20 (o)
11/18/2014		10	6.4	
11/19/2014				19 (o)
4/7/2015			5.04	
4/14/2015		10.7		13.6
10/28/2015			6.3	
10/29/2015		10.7		
11/4/2015				12.4
6/23/2016		11	5.7	9
8/30/2016		11		
8/31/2016			5.7	5.4
10/24/2016		12		
10/25/2016			7.9	9.3
1/23/2017		11		5.1
1/24/2017			4.4	
4/11/2017		11	4.3	4.1
6/20/2017				4.1
6/21/2017		11	5.5	
10/25/2017		10	5.2	3.8
4/9/2018			3.8	3.9
4/10/2018		9.9		
10/16/2018		11	6	4.3
3/26/2019			4.6	
3/27/2019		11		4
10/7/2019				4
10/8/2019		64 (o)	6.7	
4/6/2020				4.2
4/7/2020		11	3.8	
6/24/2020	6.4			
6/25/2020			5.8	4

Time Series

Constituent: Chloride (mg/L) Analysis Run 10/3/2024 12:14 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARAMW-4	ARGWA-12 (bg)	ARGWA-13 (bg)	ARGWA-14 (bg)
6/26/2020		12		
9/29/2020		12	5.7	4.1
9/30/2020	5			
2/9/2021		15	6	
2/10/2021	5.1			
2/11/2021				4.6
9/7/2021		14	8.2	
9/8/2021	5.3			4
2/1/2022		12	4.6	
2/2/2022	5.1			4.2
8/30/2022		12.8 (J)		
8/31/2022			6.89	3.92
9/2/2022	4.58			
2/2/2023		13.2		
2/3/2023			3.04	
2/7/2023	4.85			3.88
8/9/2023	4.64	13.3	5.87	
8/10/2023				4.61
1/24/2024				4.33
1/25/2024	5.34	13.1	5.2	
8/20/2024		10.6		
8/21/2024	5.28		6.76	
8/22/2024				4.39

Time Series

Constituent: Chloride (mg/L) Analysis Run 10/3/2024 12:14 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-24 (bg)	ARGWA-3 (bg)	ARGWA-5 (bg)	ARGWC-10
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	
5/6/2009			3.49	
5/7/2009		2.96		
5/13/2009				3.85
12/1/2009			3.26	
12/3/2009				3.73
12/4/2009		2.97		
5/25/2010			3.62	
5/26/2010				3.7
6/1/2010		3.23		
11/9/2010			3.38	3.6
11/10/2010		2.86		
5/19/2011				3.79
5/24/2011			3.62	
5/25/2011		2.86		
11/10/2011			3.74	
11/11/2011				4.07
11/12/2011		2.83		
5/17/2012				3.84
5/18/2012			3.6	
5/31/2012		2.68		
11/9/2012			3.66	3.99
11/11/2012		2.63		
5/7/2013				3.94
5/8/2013			4.16	
5/13/2013		0.364		
11/6/2013			3.87	3.89
11/12/2013		2.95		
5/20/2014			4.4	3.54
5/29/2014		2.64		
11/17/2014			4.2	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chloride (mg/L) Analysis Run 10/3/2024 12:14 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-24 (bg)	ARGWA-3 (bg)	ARGWA-5 (bg)	ARGWC-10
11/18/2014				4.2
4/7/2015			4.53	4.09
4/14/2015		2.78		
10/28/2015			4.47	3.98
11/3/2015		2.66		
6/23/2016		3.3	4.6	4.3
8/30/2016			4.3	
8/31/2016		2.7		
9/1/2016				4
10/25/2016		3.1	5	4.6
1/24/2017		2.5	5.1	
1/27/2017				3.9
4/11/2017		2.4	4.4	
4/12/2017				3.7
6/20/2017		2.5	5	
6/22/2017				3.9
10/25/2017		2.3	5.3	
10/26/2017				3.7
4/10/2018		2.4	5.1	
4/11/2018				3.8
10/16/2018		2.5	5.3	
10/17/2018				4
3/27/2019		2.5	4.3	
3/28/2019				3.7
10/8/2019		2.6	5.7	
10/9/2019				3.8
4/7/2020		2.9	3.7	
4/8/2020				3.9
6/23/2020				4.2
6/25/2020		2.8	4.2	
9/29/2020		2.7	4.6	
10/1/2020				3.9
12/1/2020	12			
2/9/2021	11	3	5.1	4.7
9/8/2021	11	3	5.3	
9/10/2021				4.6
2/1/2022	12	3.4	5.3	
2/2/2022				4.4
8/30/2022			8.47	
8/31/2022	12.3	2.94		4.2
2/2/2023	9.71			4.1
2/3/2023		2.67	8.74	
8/9/2023	8.91	2.71		4.11
8/10/2023			12.4	
1/24/2024	9.01	2.72	14.9	
1/25/2024				4.36
8/20/2024	8.27	2.66		
8/21/2024			17	3.99

Time Series

Constituent: Chloride (mg/L) Analysis Run 10/3/2024 12:14 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-15	ARGWC-16	ARGWC-17	ARGWC-18
5/5/2009	2.61			
5/12/2009		3.96	3.5	8.89
12/4/2009	2.37		1.85	9.43
12/5/2009		3.81		
5/25/2010			1.74	8.49
5/26/2010		3.85		
6/1/2010	3.71			
11/9/2010		4.08	1.18	
11/10/2010	2.69			8.77
5/19/2011				8.11
5/24/2011		3.63	2.51	
5/25/2011	2.44			
11/9/2011	2.3			
11/12/2011		4.03	4.99	12.3 (o)
5/17/2012				8.4
5/30/2012		3.82	6.4	
5/31/2012	2.29			
11/9/2012		3.69	3.37	
11/10/2012	2.46			8.13
5/7/2013				8.11
5/8/2013			5.67	
5/13/2013	6.55	3.5		
11/5/2013				7.82
11/6/2013		3.74	3.62	
11/12/2013	2.86			
5/20/2014			5.82	
5/21/2014		3.74		
5/28/2014	2.75			6.99
11/17/2014		4.4	6.4	
11/19/2014				9
11/20/2014	3.4			
4/7/2015		4.38	5.02	
4/14/2015	2.56			
4/15/2015				8.14
10/28/2015		4.62	4.98	
10/29/2015				8.17
11/3/2015	2.01			
6/23/2016	1.9			
6/24/2016		5	5	8.4
9/1/2016		4.8	4.4	7.8
9/2/2016	2.7			
10/25/2016		5.4	5.1	
10/26/2016	3.3			8.9
1/26/2017	1.6	5.2	4.2	
1/27/2017				7.3
4/11/2017		4.8	3.9	
4/12/2017	1.5			7
6/21/2017	1.6	5.2	4.1	7.2
10/25/2017				7
10/26/2017	1.6	4.7	4	
4/10/2018	1.8	4.8	4.1	
4/11/2018				6.9

Time Series

Constituent: Chloride (mg/L) Analysis Run 10/3/2024 12:14 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-15	ARGWC-16	ARGWC-17	ARGWC-18
10/16/2018		4.5		
10/17/2018	2.1		4	7.1
3/27/2019	1.8			6.6
3/28/2019		4.6	3.4	
10/8/2019	9.4 (o)			
10/9/2019		4.7	3.3	6.7
4/8/2020	1.9	5.1	3.7	
4/9/2020				7.3
6/24/2020		5.9	4	7.2
6/25/2020	1.9			
9/29/2020	2.5	5.2	3.4	
9/30/2020				6.9
2/9/2021	2.7	5.7	3.1	
2/10/2021				7.8
9/8/2021	2.9	5.6	2.9	
9/9/2021				8.1
2/2/2022			3	
2/3/2022	2.9	5.9		7.1
8/31/2022	3.01	5.67		
9/2/2022			2.74	6.52
2/2/2023		6.12		6.7
2/3/2023	2.71		2.68	
8/9/2023			2.72	
8/10/2023	2.88	5.85		6.62
1/25/2024	2.83	6.48	2.88	7.26
8/21/2024	2.55	5.71	2.76	6.72

Time Series

Constituent: Chloride (mg/L) Analysis Run 10/3/2024 12:14 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	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		
5/13/2009			3.37
5/14/2009	7.68	6.38	
12/1/2009	6.66		
12/3/2009		5.96	3.49
5/26/2010	6	5.37	3.35
11/9/2010		<0.071 (o)	3.34
11/10/2010	6.07		
5/18/2011		5.4	
5/19/2011			3.25
5/25/2011	5.7		
11/11/2011	6.23	5.58	3.57
5/17/2012	6.06	5.15	3.27
11/9/2012	4.9	5.2	3.45
5/7/2013		5.56	3.35
5/8/2013	5.85		
11/5/2013	5.44	5.24	
11/6/2013			3.45
5/21/2014	5.96	7.34 (o)	3.18
11/17/2014	7		
11/18/2014		6.1	4
4/7/2015	6.08	5.62	4.22
10/28/2015	5.02	5.58	4.87
6/23/2016	5.4	6.2	5.6
8/31/2016	5.1	5.6	5.4
10/25/2016	6.2		6.4
10/26/2016		7.1	
1/26/2017	5.1	5.8	5.3
4/12/2017	4.9	5.6	5.2
6/21/2017		5.8	
6/22/2017	5.1		5.5
10/25/2017	5.1		5.3
10/26/2017		5.5	
4/10/2018	5		
4/11/2018		5.7	5.1
10/17/2018	5.8	6	5.3
3/28/2019	5.1	5.7	4.8
10/9/2019	4.6	5.7	5.2
4/8/2020	4.4		
4/9/2020		7.7	5.6
6/23/2020		7	
6/25/2020	4.6		
6/26/2020			5.4
9/29/2020	4.1		
10/1/2020		6	5.5
2/10/2021	4.5	6.4	5.9

Time Series

Constituent: Chloride (mg/L) Analysis Run 10/3/2024 12:14 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-7	ARGWC-8	ARGWC-9
9/9/2021		6.2	6.1
9/10/2021	4.8		
2/2/2022		6.3	5.3
2/3/2022	3.1		
8/31/2022	4.59	5.86	5.28 (J)
2/2/2023	4.25	5.6	4.88
8/10/2023	4.2	5.45	4.8
1/25/2024	4.76	5.9	5.15
8/21/2024	4.45	5.59	4.93

Time Series

Constituent: Chromium (mg/L) Analysis Run 10/3/2024 12:14 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARAMW-4	ARGWA-12 (bg)	ARGWA-13 (bg)	ARGWA-14 (bg)
8/30/2016		0.0012 (J)		
8/31/2016			<0.01	<0.01
10/24/2016		0.0011 (J)		
10/25/2016			<0.01	<0.01
1/23/2017		<0.01		0.01
1/24/2017			<0.01	
4/11/2017		0.0011 (J)	<0.01	<0.01
6/20/2017				<0.01
6/21/2017		<0.01	<0.01	
10/25/2017		<0.01	<0.01	<0.01
4/9/2018			<0.01	0.0019 (J)
4/10/2018		0.0013 (J)		
10/16/2018		<0.01	<0.01	<0.01
8/19/2019			0.0016 (J)	
8/20/2019		0.0026		
8/21/2019				<0.01
10/7/2019				<0.01
10/8/2019		<0.01	<0.01	
4/6/2020				<0.01
4/7/2020		0.0015 (J)	<0.01	
8/18/2020		<0.01	<0.01	
8/19/2020				<0.01
8/20/2020	<0.01			
9/29/2020		<0.01	<0.01	<0.01
9/30/2020	<0.01			
2/9/2021		<0.01	<0.01	
2/10/2021	<0.01			
2/11/2021				<0.01
9/7/2021		0.0017 (J)	<0.01	
9/8/2021	<0.01			<0.01
2/1/2022		<0.01	<0.01	
2/2/2022	<0.01			<0.01
8/30/2022		<0.01		
8/31/2022			<0.01	<0.01
9/2/2022	<0.01			
2/2/2023		<0.01		
2/3/2023			<0.01	
2/7/2023	<0.01			<0.01
8/9/2023	<0.01	<0.01	<0.01	
8/10/2023				<0.01
1/24/2024				<0.01
1/25/2024	<0.01	<0.01	<0.01	
8/20/2024		<0.01		
8/21/2024	<0.01		<0.01	
8/22/2024				<0.01

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 10/3/2024 12:14 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-24 (bg)	ARGWA-3 (bg)	ARGWA-5 (bg)	ARGWC-10
8/30/2016			0.0012 (J)	
8/31/2016		0.003		
9/1/2016				0.0038
10/25/2016		0.0028 (J)	0.0014 (J)	0.0042 (J)
1/24/2017		0.0031	0.0012 (J)	
1/27/2017				0.005
4/11/2017		0.0029	<0.01	
4/12/2017				0.0048
6/20/2017		0.0037	<0.01	
6/22/2017				0.0047
10/25/2017		0.0031	<0.01	
10/26/2017				0.0043
4/10/2018		0.0036	0.0012 (J)	
4/11/2018				0.0051
10/16/2018		0.0035	0.0012 (J)	
10/17/2018				0.0051
8/20/2019		0.0039	0.0032	
8/21/2019				0.0073
10/8/2019		0.0031	<0.01	
10/9/2019				0.006
4/7/2020		0.0023	<0.01	
4/8/2020				0.0046
8/18/2020		0.0027	<0.01	
8/19/2020				0.0049
9/29/2020		0.003	<0.01	
10/1/2020				0.0047
12/1/2020	<0.01			
2/9/2021	<0.01	0.0028	<0.01	0.0046
9/8/2021	<0.01	0.0026	<0.01	
9/10/2021				0.0049
2/1/2022	<0.01	0.0029	<0.01	
2/2/2022				0.005
8/30/2022			<0.01	
8/31/2022	<0.01	0.00358 (J)		0.0055 (J)
2/2/2023	<0.01			0.00534 (J)
2/3/2023		0.0139	<0.01	
8/9/2023	<0.01	<0.01		0.00473 (J)
8/10/2023			<0.01	
1/24/2024	<0.01	0.00308 (J)	<0.01	
1/25/2024				0.00527 (J)
8/20/2024	<0.01	0.0032 (J)		
8/21/2024			<0.01	0.00501 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 10/3/2024 12:14 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-15	ARGWC-16	ARGWC-17	ARGWC-18
9/1/2016		0.0017 (J)	<0.01	<0.01
9/2/2016	0.0087			
10/25/2016		0.0023 (J)	<0.01	
10/26/2016	<0.01			<0.01
1/26/2017	<0.01	0.0017 (J)	0.0016 (J)	
1/27/2017				<0.01
4/11/2017		0.0019 (J)	0.0013 (J)	
4/12/2017	<0.01			<0.01
6/21/2017	<0.01	0.0017 (J)	<0.01	<0.01
10/25/2017				<0.01
10/26/2017	<0.01	0.0013 (J)	<0.01	
4/10/2018	<0.01	0.0019 (J)	<0.01	
4/11/2018				<0.01
10/16/2018		0.0013 (J)		
10/17/2018	<0.01		<0.01	<0.01
8/20/2019		0.0025		
8/21/2019	0.0017 (J)		<0.01	<0.01
10/8/2019	<0.01			
10/9/2019		0.0027	0.0021	<0.01
4/8/2020	<0.01	0.0021	<0.01	
4/9/2020				<0.01
8/18/2020			<0.01	
8/19/2020	<0.01	0.0021		
8/20/2020				<0.01
9/29/2020	<0.01	0.002	<0.01	
9/30/2020				<0.01
2/9/2021	<0.01	0.0018 (J)	<0.01	
2/10/2021				<0.01
9/8/2021	0.0027	0.0016 (J)	<0.01	
9/9/2021				<0.01
2/2/2022			<0.01	
2/3/2022	<0.01	0.0018 (J)		<0.01
8/31/2022	<0.01	<0.01		
9/2/2022			<0.01	<0.01
2/2/2023		<0.01		<0.01
2/3/2023	<0.01		<0.01	
8/9/2023			<0.01	
8/10/2023	<0.01	<0.01		<0.01
1/25/2024	<0.01	<0.01	<0.01	<0.01
8/21/2024	<0.01	<0.01	<0.01	<0.01

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 10/3/2024 12:14 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-7	ARGWC-8	ARGWC-9
8/31/2016	0.0033	<0.01	0.011
10/25/2016	0.0029 (J)		0.0109
10/26/2016		<0.01	
1/26/2017	0.0033	<0.01	0.011
4/12/2017	0.0036	<0.01	0.0096
6/21/2017		<0.01	
6/22/2017	0.0036		0.011
10/25/2017	0.0028		0.0094
10/26/2017		<0.01	
4/10/2018	0.0038		
4/11/2018		<0.01	0.01
10/17/2018	0.0036	<0.01	0.0096
8/21/2019	0.0046	0.0015 (J)	0.0097
10/9/2019	0.0042	0.0017 (J)	0.0084
4/8/2020	0.0027		
4/9/2020		<0.01	0.0069
8/18/2020	0.0031		
8/19/2020			0.008
8/20/2020		<0.01	
9/29/2020	0.0031		
10/1/2020		<0.01	0.0075
2/10/2021	0.003	<0.01	0.007
9/9/2021		<0.01	0.0071
9/10/2021	0.0032		
2/2/2022		<0.01	0.0068
2/3/2022	0.0043		
8/31/2022	0.00344 (J)	<0.01	0.00766 (J)
2/2/2023	0.00353 (J)	<0.01	0.00753 (J)
8/10/2023	0.00353 (J)	<0.01	0.00775 (J)
1/25/2024	0.00317 (J)	<0.01	0.007 (J)
8/21/2024	<0.01	<0.01	0.00727 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/3/2024 12:14 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARAMW-4	ARGWA-12 (bg)	ARGWA-13 (bg)	ARGWA-14 (bg)
8/30/2016		<0.001		
8/31/2016			<0.001	<0.001
10/24/2016		<0.001		
10/25/2016			<0.001	<0.001
1/23/2017		<0.001		<0.001
1/24/2017			<0.001	
4/11/2017		<0.001	<0.001	<0.001
6/20/2017				<0.001
6/21/2017		<0.001	<0.001	
10/25/2017		<0.001	<0.001	<0.001
4/9/2018			<0.001	<0.001
4/10/2018		<0.001		
10/16/2018		<0.001	<0.001	<0.001
8/19/2019			0.00029 (J)	
8/20/2019		0.00019 (J)		
8/21/2019				0.00022 (J)
10/7/2019				<0.001
10/8/2019		<0.001	0.00011 (J)	
1/15/2020	0.0064			
4/6/2020				<0.001
4/7/2020		0.00029 (J)	<0.001	
6/24/2020	0.0049			
6/25/2020			<0.001	<0.001
6/26/2020		0.00013 (J)		
8/18/2020		0.00019 (J)	<0.001	
8/19/2020				<0.001
8/20/2020	0.005			
9/29/2020		0.00016 (J)	<0.001	<0.001
9/30/2020	0.0046			
2/9/2021		<0.001	<0.001	
2/10/2021	0.0053			
2/11/2021				<0.001
9/7/2021		0.00043 (J)	<0.001	
9/8/2021	0.0048			<0.001
2/1/2022		0.00041 (J)	<0.001	
2/2/2022	0.0042			<0.001
8/30/2022		0.000509 (J)		
8/31/2022			<0.001	<0.001
9/2/2022	0.00411			
2/2/2023		<0.001		
2/3/2023			<0.001	
2/7/2023	0.00343			<0.001
8/9/2023	0.00337	0.000325 (J)	<0.001	
8/10/2023				<0.001
1/24/2024				<0.001
1/25/2024	0.00251	0.000661 (J)	<0.001	
8/20/2024		0.00079 (J)		
8/21/2024	0.00199		<0.001	
8/22/2024				<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/3/2024 12:14 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-24 (bg)	ARGWA-3 (bg)	ARGWA-5 (bg)	ARGWC-10
8/30/2016			<0.001	
8/31/2016		<0.001		
9/1/2016				<0.001
10/25/2016		<0.001	<0.001	<0.001
1/24/2017		<0.001	<0.001	
1/27/2017				<0.001
4/11/2017		<0.001	<0.001	
4/12/2017				<0.001
6/20/2017		<0.001	<0.001	
6/22/2017				<0.001
10/25/2017		<0.001	<0.001	
10/26/2017				<0.001
4/10/2018		<0.001	<0.001	
4/11/2018				<0.001
10/16/2018		<0.001	<0.001	
10/17/2018				<0.001
8/20/2019		0.00018 (J)	0.00012 (J)	
8/21/2019				0.00017 (J)
10/8/2019		<0.001	<0.001	
10/9/2019				0.00019 (J)
4/7/2020		<0.001	0.00014 (J)	
4/8/2020				<0.001
6/23/2020				0.00013 (J)
6/25/2020		<0.001	<0.001	
8/18/2020		0.00022 (J)	<0.001	
8/19/2020				0.00015 (J)
9/29/2020		<0.001	<0.001	
10/1/2020				<0.001
12/1/2020	0.0058			
2/9/2021	0.00088 (J)	<0.001	<0.001	<0.001
9/8/2021	0.00019 (J)	<0.001	<0.001	
9/10/2021				<0.001
2/1/2022	<0.001	<0.001	<0.001	
2/2/2022				<0.001
8/30/2022			<0.001	
8/31/2022	<0.001	<0.001		<0.001
2/2/2023	<0.001			<0.001
2/3/2023		<0.001	0.000448 (J)	
8/9/2023	<0.001	<0.001		<0.001
8/10/2023			<0.001	
1/24/2024	<0.001	<0.001	<0.001	
1/25/2024				<0.001
8/20/2024	<0.001	<0.001		
8/21/2024			<0.001	<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/3/2024 12:14 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-15	ARGWC-16	ARGWC-17	ARGWC-18
9/1/2016		<0.001	0.037	0.0014 (J)
9/2/2016	0.03			
10/25/2016		<0.001	0.0144	
10/26/2016	0.0036 (J)			0.0013 (J)
1/26/2017	0.011	<0.001	0.022	
1/27/2017				0.0021 (J)
4/11/2017		<0.001	0.026	
4/12/2017	<0.001			0.0015 (J)
6/21/2017	<0.001	<0.001	0.027	0.0018 (J)
10/25/2017				0.0013 (J)
10/26/2017	<0.001	<0.001	0.021	
4/10/2018	0.00045 (J)	<0.001	0.021	
4/11/2018				0.0014 (J)
10/16/2018		<0.001		
10/17/2018	<0.001		0.014	0.0012 (J)
8/20/2019		0.00016 (J)		
8/21/2019	0.00048 (J)		0.018	0.0012
10/8/2019	0.00019 (J)			
10/9/2019		0.00026 (J)	0.017	0.00099
4/8/2020	0.00026 (J)	<0.001	0.016	
4/9/2020				0.00091 (J)
6/24/2020		0.00013 (J)	0.024	0.00115 (JD)
6/25/2020	0.00022 (J)			
8/18/2020			0.03	
8/19/2020	0.0004 (J)	<0.001		
8/20/2020				0.0014 (JD)
9/29/2020	0.0003 (J)	<0.001	0.027	
9/30/2020				0.00125 (JD)
2/9/2021	<0.001	<0.001	0.025	
2/10/2021				0.0011 (J)
9/8/2021	0.004	<0.001	0.032	
9/9/2021				0.0016 (J)
2/2/2022			0.033	
2/3/2022	<0.001	<0.001		0.0013 (J)
8/31/2022	<0.001	<0.001		
9/2/2022			0.0516	0.00111
2/2/2023		<0.001		0.00109
2/3/2023	<0.001		0.0332	
8/9/2023			0.0689	
8/10/2023	0.00439	<0.001		0.0011
1/25/2024	<0.001	<0.001	0.0319	0.00106
8/21/2024	0.0023	<0.001	0.0256	0.00108

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/3/2024 12:14 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-7	ARGWC-8	ARGWC-9
8/31/2016	<0.001	<0.001	<0.001
10/25/2016	<0.001		<0.001
10/26/2016		<0.001	
1/26/2017	<0.001	<0.001	<0.001
4/12/2017	<0.001	<0.001	<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	
4/10/2018	<0.001		
4/11/2018		<0.001	<0.001
10/17/2018	<0.001	<0.001	<0.001
8/21/2019	8.6E-05 (J)	0.00021 (J)	<0.001
10/9/2019	0.00034 (J)	0.00041 (J)	0.00021 (J)
4/8/2020	<0.001		
4/9/2020		0.00013 (J)	0.00015 (J)
6/23/2020		0.00017 (J)	
6/25/2020	<0.001		
6/26/2020			<0.001
8/18/2020	<0.001		
8/19/2020			0.00013 (J)
8/20/2020		0.00023 (J)	
9/29/2020	<0.001		
10/1/2020		0.00021 (J)	<0.001
2/10/2021	<0.001	0.00015 (J)	<0.001
9/9/2021		<0.001	<0.001
9/10/2021	<0.001		
2/2/2022		0.00032 (J)	<0.001
2/3/2022	<0.001		
8/31/2022	<0.001	<0.001	<0.001
2/2/2023	<0.001	<0.001	<0.001
8/10/2023	<0.001	<0.001	<0.001
1/25/2024	<0.001	<0.001	<0.001
8/21/2024	<0.001	<0.001	<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/3/2024 12:14 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARAMW-4	ARGWA-12 (bg)	ARGWA-13 (bg)	ARGWA-14 (bg)
8/30/2016		1.1		
8/31/2016			0.788	0.949 (U)
10/24/2016		0.808 (U)		
10/25/2016			0.503 (U)	1.13
1/23/2017		0.121 (U)		0.426
1/24/2017			0.369	
4/11/2017		0.378 (U)	0.71	0.604
6/20/2017				0.974
6/21/2017		0.511	0.124 (U)	
10/25/2017		0.587	0.981	0.409 (U)
4/9/2018			0.157 (U)	0.306 (U)
4/10/2018		0.513		
10/16/2018		0.53	0.305 (U)	0.701
8/19/2019			0.204 (U)	
8/20/2019		0.759		
8/21/2019				0.0663 (U)
10/7/2019				0.447 (U)
10/8/2019		0.76	0.398 (U)	
4/6/2020				0.286 (U)
4/7/2020		0.622	-0.0414 (U)	
8/18/2020		0.587	0.38 (U)	
8/19/2020				-0.0549 (U)
8/20/2020	0.624 (U)			
9/29/2020		0.765	0.403 (U)	0.134 (U)
9/30/2020	0.532			
2/9/2021		1.16	0.394 (U)	
2/10/2021	0.932			
2/11/2021				0.413 (U)
9/7/2021		0.385	0.475	
9/8/2021	0.528			0.188 (U)
2/1/2022		0.615	0.328 (U)	
2/2/2022	0.369 (U)			0.381 (U)
8/30/2022		0.804		
8/31/2022			0.596	0.345
9/2/2022	0.947			
2/2/2023		4.25		
2/3/2023			1.27 (U)	
2/7/2023	1.16 (U)			1.51 (U)
8/9/2023	2.55	1.45	1.43 (U)	
8/10/2023				0.641 (U)
1/24/2024				1.34 (U)
1/25/2024	1.05 (U)	1.53	0.0289 (U)	
8/20/2024		<1.61		
8/21/2024	<2.27		<1.51	
8/22/2024				<1.85

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/3/2024 12:14 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-24 (bg)	ARGWA-3 (bg)	ARGWA-5 (bg)	ARGWC-10
8/30/2016			0.505 (U)	
8/31/2016		0.226 (U)		
9/1/2016				0.153 (U)
10/25/2016		0.273 (U)	0.177 (U)	0.328 (U)
1/24/2017		0.11 (U)	0.107 (U)	
1/27/2017				-0.0761 (U)
4/11/2017		0.358 (U)	-0.0587 (U)	
4/12/2017				0.112 (U)
6/20/2017		0.265 (U)	0.503	
6/22/2017				0.414
10/25/2017		0.5	0.512	
10/26/2017				0.334 (U)
4/10/2018		0.323	0.262 (U)	
4/11/2018				0.17 (U)
10/16/2018		0.798	0.989	
10/17/2018				0.38 (U)
8/20/2019		0.352 (U)	-0.0925 (U)	
8/21/2019				0.352 (U)
10/8/2019		0.419 (U)	0.348 (U)	
10/9/2019				-0.38 (U)
4/7/2020		0.0354 (U)	0.198 (U)	
4/8/2020				-0.0401 (U)
8/18/2020		0.132 (U)	1.12	
8/19/2020				-0.0271 (U)
9/29/2020		-0.0479 (U)	-0.146 (U)	
10/1/2020				0.172 (U)
12/1/2020	-0.0123 (U)			
2/9/2021	0.0311 (U)	-0.187 (U)	-0.312 (U)	0.163 (U)
9/8/2021	0.539	0.188 (U)	0.558	
9/10/2021				0.0831 (U)
2/1/2022	0.149 (U)	-0.0119 (U)	0.147 (U)	
2/2/2022				0.338 (U)
8/30/2022			0.546	
8/31/2022	0.161	0.805		0.5
2/2/2023	0.206 (U)			2.32 (U)
2/3/2023		1.51 (U)	2.97	
8/9/2023	0.251 (U)	0.426 (U)		2.22
8/10/2023			1.63	
1/24/2024	2.29	2.24	2.12	
1/25/2024				0.699 (U)
8/20/2024	2.87	2.88		
8/21/2024			2.59	<1.96

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/3/2024 12:14 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-15	ARGWC-16	ARGWC-17	ARGWC-18
9/1/2016		0.568	-0.081 (U)	0.495 (U)
9/2/2016	2.11			
10/25/2016		1.57	0.675 (U)	
10/26/2016	2.45			0.606 (U)
1/26/2017	0.276 (U)	0.255 (U)	0.18 (U)	
1/27/2017				0.641
4/11/2017		0.334 (U)	0.547	
4/12/2017	0.387 (U)			-0.0936 (U)
6/21/2017	0.194 (U)	0.518	0.38	0.5
10/25/2017				0.345 (U)
10/26/2017	0.519	0.79	1.48	
4/10/2018	0.604	0.394	0.39	
4/11/2018				0.331 (U)
10/16/2018		0.0598 (U)		
10/17/2018	0.46 (U)		0.781	0.62
8/20/2019		0.227 (U)		
8/21/2019	0.491		-0.0366 (U)	0.693
10/8/2019	0.421 (U)			
10/9/2019		-0.0245 (U)	0.118 (U)	0.0684 (U)
4/8/2020	0.309 (U)	0.28 (U)	0.402 (U)	
4/9/2020				0.419 (U)
8/18/2020			0.423	
8/19/2020	0.538	0.306 (U)		
8/20/2020				0.191 (U)
9/29/2020	0.394 (U)	-0.0246 (U)	0.175 (U)	
9/30/2020				0.0811 (U)
2/9/2021	0.669	0.46	0.332 (U)	
2/10/2021				0.568
9/8/2021	1.62	-0.108 (U)	-0.015 (U)	
9/9/2021				0.669
2/2/2022			0.107 (U)	
2/3/2022	0.609	0.712		0.503
8/31/2022	0.51	0.493		
9/2/2022			1.75	2.67
2/2/2023		1.31 (U)		2.04
2/3/2023	0.376 (U)		0.751 (U)	
8/9/2023			1.05 (U)	
8/10/2023	2.75	0.34 (U)		1.65 (U)
1/25/2024	2.03	0.505 (U)	1.2 (U)	0.334 (U)
8/21/2024	<2.17	1.55 (D)	2.51	<2.2

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/3/2024 12:14 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-7	ARGWC-8	ARGWC-9
8/31/2016	-0.106 (U)	0.218 (U)	0.279 (U)
10/25/2016	0.518 (U)		0.393 (U)
10/26/2016		0.335 (U)	
1/26/2017	0.37	0.345 (U)	0.0879 (U)
4/12/2017	0.316 (U)	0.37 (U)	0.219 (U)
6/21/2017		0.144 (U)	
6/22/2017	0.229 (U)		0.552
10/25/2017	0.281 (U)		0.388 (U)
10/26/2017		0.51	
4/10/2018	0.492		
4/11/2018		0.362	0.322
10/17/2018	0.495 (U)	0.385 (U)	0.327 (U)
8/21/2019	0.0805 (U)	0.125 (U)	0.0554 (U)
10/9/2019	0.552	-0.164 (U)	-0.238 (U)
4/8/2020	0.366 (U)		
4/9/2020		0.255 (U)	0.334 (U)
8/18/2020	0.376 (U)		
8/19/2020			0.124 (U)
8/20/2020		0.14 (U)	
9/29/2020	0.334 (U)		
10/1/2020		0.512 (U)	0.501
2/10/2021	0.412	0.384	0.515
9/9/2021		0.616	0.57
9/10/2021	0.861		
2/2/2022		0.271 (U)	0.73 (U)
2/3/2022	0.12 (U)		
8/31/2022	0.804	0.618	0.0403
2/2/2023	1.76 (U)	0.844 (U)	0.0399 (U)
8/10/2023	1.27 (U)	0.68 (U)	0.492 (U)
1/25/2024	0.388 (U)	1.96	0.921 (U)
8/21/2024	2.53	<1.73	1.6 (D)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 10/3/2024 12:14 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARAMW-4	ARGWA-12 (bg)	ARGWA-13 (bg)	ARGWA-14 (bg)
8/30/2016		<0.2		
8/31/2016			<0.1	0.12 (J)
10/24/2016		0.1 (J)		
10/25/2016			0.08 (J)	0.53
1/23/2017		<0.2		0.4
1/24/2017			<0.1	
4/11/2017		<0.2	<0.1	0.31
6/20/2017				0.27
6/21/2017		<0.2	<0.1	
10/25/2017		<0.2	<0.1	0.29
4/9/2018			<0.1	0.25
4/10/2018		<0.2		
10/16/2018		0.1 (J)	<0.1	0.33
3/26/2019			<0.1	
3/27/2019		0.031 (J)		0.15 (J)
8/19/2019			<0.1	
8/20/2019		0.049 (J)		
8/21/2019				0.35
10/7/2019				0.12 (J)
10/8/2019		0.27 (J)	0.033 (J)	
4/6/2020				0.28
4/7/2020		0.082 (J)	0.086 (J)	
6/24/2020	0.041 (J)			
6/25/2020			0.03 (J)	0.17
6/26/2020		0.051 (J)		
8/18/2020		0.041 (J)	<0.1	
8/19/2020				0.12
8/20/2020	<0.1			
9/29/2020		0.06 (J)	0.032 (J)	0.13
9/30/2020	0.028 (J)			
2/9/2021		0.07 (J)	0.036 (J)	
2/10/2021	0.028 (J)			
2/11/2021				0.25
9/7/2021		0.11	0.075 (J)	
9/8/2021	0.034 (J)			0.2
2/1/2022		0.065 (J)	0.032 (J)	
2/2/2022	0.055 (J)			0.19
8/30/2022		0.167		
8/31/2022			0.135	0.155
9/2/2022	0.059 (J)			
2/2/2023		0.221		
2/3/2023			<0.1	
2/7/2023	0.038 (J)			0.275
8/9/2023	0.23	0.271	0.239	
8/10/2023				0.254
1/24/2024				0.327
1/25/2024	0.105	0.241	0.175	
8/20/2024		0.0426 (J)		
8/21/2024	0.0693 (J)		0.0387 (J)	
8/22/2024				0.21

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 10/3/2024 12:14 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-24 (bg)	ARGWA-3 (bg)	ARGWA-5 (bg)	ARGWC-10
8/30/2016			<0.1	
8/31/2016		<0.1		
9/1/2016				<0.1
10/25/2016		0.14 (J)	0.09 (J)	0.1 (J)
1/24/2017		<0.1	<0.1	
1/27/2017				<0.1
4/11/2017		<0.1	<0.1	
4/12/2017				<0.1
6/20/2017		<0.1	<0.1	
6/22/2017				<0.1
10/25/2017		<0.1	<0.1	
10/26/2017				<0.1
4/10/2018		<0.1	<0.1	
4/11/2018				<0.1
10/16/2018		0.1 (J)	<0.1	
10/17/2018				<0.1
3/27/2019		0.034 (J)	0.026 (J)	
3/28/2019				0.03 (J)
8/20/2019		0.053 (J)	0.047 (J)	
8/21/2019				0.047 (J)
10/8/2019		0.056 (J)	0.05 (J)	
10/9/2019				0.053 (J)
4/7/2020		0.098 (J)	0.072 (J)	
4/8/2020				0.071 (J)
6/23/2020				0.04 (J)
6/25/2020		0.06 (J)	0.042 (J)	
8/18/2020		<0.1	<0.1	
8/19/2020				<0.1
9/29/2020		0.065 (J)	0.051 (J)	
10/1/2020				0.048 (J)
12/1/2020	<0.1			
2/9/2021	0.057 (J)	0.084 (J)	0.055 (J)	0.051 (J)
9/8/2021	0.1	0.1	0.1	
9/10/2021				0.067 (J)
2/1/2022	0.054 (J)	0.086 (J)	0.059 (J)	
2/2/2022				0.063 (J)
8/30/2022			0.155	
8/31/2022	0.164	0.184		<0.1
2/2/2023	0.125			0.134
2/3/2023		0.155 (J)	<0.1	
8/9/2023	0.0732 (J)	0.316		0.111
8/10/2023			0.128	
1/24/2024	0.121	0.146	0.117	
1/25/2024				0.252
8/20/2024	0.0399 (J)	0.0574 (J)		
8/21/2024			0.0365 (J)	0.063 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 10/3/2024 12:14 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-15	ARGWC-16	ARGWC-17	ARGWC-18
9/1/2016		<0.1	<0.1	0.083 (J)
9/2/2016	0.21			
10/25/2016		0.08 (J)	0.08 (J)	
10/26/2016	0.21 (J)			0.32 (o)
1/26/2017	0.097 (J)	<0.1	<0.1	
1/27/2017				0.097 (J)
4/11/2017		<0.1	<0.1	
4/12/2017	<0.2			0.088 (J)
6/21/2017	<0.2	<0.1	<0.1	0.096 (J)
10/25/2017				0.092 (J)
10/26/2017	<0.2	<0.1	<0.1	
4/10/2018	<0.2	<0.1	<0.1	
4/11/2018				0.09 (J)
10/16/2018		<0.1		
10/17/2018	0.1 (J)		<0.1	0.11 (J)
3/27/2019	0.05 (J)			0.05 (J)
3/28/2019		<0.1	<0.1	
8/20/2019		0.033 (J)		
8/21/2019	0.1 (J)		0.031 (J)	0.079 (J)
10/8/2019	0.33 (J)			
10/9/2019		0.031 (J)	0.03 (J)	0.068 (J)
4/8/2020	0.12	0.051 (J)	0.053 (J)	
4/9/2020				0.11
6/24/2020		0.038 (J)	<0.1	0.094 (J)
6/25/2020	0.067 (J)			
8/18/2020			<0.1	
8/19/2020	0.081 (J)	<0.1		
8/20/2020				<0.1
9/29/2020	0.089 (J)	0.026 (J)	0.029 (J)	
9/30/2020				0.082 (J)
2/9/2021	0.094 (J)	0.056 (J)	<0.1	
2/10/2021				0.12
9/8/2021	0.15	0.044 (J)	0.055 (J)	
9/9/2021				0.17
2/2/2022			0.028 (J)	
2/3/2022	0.068 (J)	0.027 (J)		0.078 (J)
8/31/2022	0.169	<0.1		
9/2/2022			0.082 (J)	0.141
2/2/2023		<0.1		0.176
2/3/2023	0.136 (J)		<0.1	
8/9/2023			0.137	
8/10/2023	0.131	0.0335 (J)		0.129
1/25/2024	0.225	0.153	<0.1	0.296
8/21/2024	0.0719 (J)	<0.1	<0.1	0.0683 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 10/3/2024 12:14 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-7	ARGWC-8	ARGWC-9
8/31/2016	<0.1	0.11 (J)	<0.1
10/25/2016	0.02 (J)		0.2 (J)
10/26/2016		0.43 (o)	
1/26/2017	<0.1	0.13 (J)	<0.1
4/12/2017	<0.1	0.13 (J)	<0.1
6/21/2017		0.14 (J)	
6/22/2017	<0.1		<0.1
10/25/2017	<0.1		<0.1
10/26/2017		0.13 (J)	
4/10/2018	<0.1		
4/11/2018		0.13 (J)	<0.1
10/17/2018	<0.1	0.16 (J)	<0.1
3/28/2019	<0.1	0.089 (J)	<0.1
8/21/2019	<0.1	0.12 (J)	0.03 (J)
10/9/2019	0.032 (J)	0.085 (J)	0.038 (J)
4/8/2020	0.062 (J)		
4/9/2020		0.16	0.066 (J)
6/23/2020		0.12	
6/25/2020	<0.1		
6/26/2020			0.027 (J)
8/18/2020	<0.1		
8/19/2020			<0.1
8/20/2020		0.054 (J)	
9/29/2020	0.027 (J)		
10/1/2020		0.14	0.041 (J)
2/10/2021	0.033 (J)	0.17	0.051 (J)
9/9/2021		0.18	0.06 (J)
9/10/2021	0.032 (J)		
2/2/2022		0.19	0.043 (J)
2/3/2022	0.074 (J)		
8/31/2022	<0.1	0.172	0.147
2/2/2023	<0.1	0.217	0.182
8/10/2023	<0.1	0.141	0.079 (J)
1/25/2024	0.193	0.295	0.222
8/21/2024	<0.1	0.139	0.0405 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 10/3/2024 12:14 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARAMW-4	ARGWA-12 (bg)	ARGWA-13 (bg)	ARGWA-14 (bg)
5/6/2009		<0.002		
5/7/2009			<0.002	
12/3/2009		<0.002	<0.002	
5/25/2010		<0.002	<0.002	
6/2/2010				<0.002
11/9/2010		<0.002		
11/10/2010			<0.002	<0.002
5/19/2011				<0.002
5/24/2011		<0.002		
5/25/2011			<0.002	
11/9/2011				<0.002
11/10/2011		<0.002	<0.002	
5/18/2012		<0.002		
5/30/2012			<0.002	<0.002
11/9/2012		<0.002	<0.002	
11/11/2012				<0.002
5/8/2013		<0.002		
5/9/2013			<0.002	<0.002
11/6/2013		<0.002		
11/11/2013			<0.002	<0.002
5/20/2014		<0.002		
5/21/2014			<0.002	
5/29/2014				<0.002
11/18/2014		<0.002	<0.002	
11/19/2014				<0.002
4/7/2015			<0.002	
4/14/2015		<0.002		<0.002
10/28/2015			<0.002	
10/29/2015		<0.002		
11/4/2015				<0.002
6/23/2016		<0.002	<0.002	<0.002
8/30/2016		<0.002		
8/31/2016			<0.002	<0.002
10/24/2016		0.0002 (J)		
10/25/2016			<0.002	<0.002
1/23/2017		<0.002		0.0013
1/24/2017			<0.002	
4/11/2017		<0.002	<0.002	<0.002
6/20/2017				<0.002
6/21/2017		<0.002	<0.002	
10/25/2017		<0.002	<0.002	<0.002
4/9/2018			<0.002	<0.002
4/10/2018		<0.002		
10/16/2018		<0.002	<0.002	<0.002
3/26/2019			<0.002	
3/27/2019		<0.002		<0.002
8/19/2019			<0.002	
8/20/2019		<0.002		
8/21/2019				0.00019 (J)
10/7/2019				<0.002
10/8/2019		<0.002	0.00013 (J)	
4/6/2020				<0.002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 10/3/2024 12:14 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARAMW-4	ARGWA-12 (bg)	ARGWA-13 (bg)	ARGWA-14 (bg)
4/7/2020		<0.002	<0.002	
8/18/2020		<0.002	<0.002	
8/19/2020				<0.002
8/20/2020	<0.002			
9/29/2020		<0.002	<0.002	<0.002
9/30/2020	<0.002			
2/9/2021		<0.002	<0.002	
2/10/2021	<0.002			
2/11/2021				<0.002
9/7/2021		<0.002	<0.002	
9/8/2021	<0.002			<0.002
2/1/2022		<0.002	<0.002	
2/2/2022	<0.002			<0.002
8/30/2022		<0.002		
8/31/2022			<0.002	<0.002
9/2/2022	<0.002			
2/2/2023		<0.002		
2/3/2023			<0.002	
2/7/2023	<0.002			<0.002
8/9/2023	<0.002	<0.002	<0.002	
8/10/2023				<0.002
1/24/2024				<0.002
1/25/2024	<0.002	<0.002	<0.002	
8/20/2024		<0.002		
8/21/2024	<0.002		<0.002	
8/22/2024				<0.002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 10/3/2024 12:14 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-24 (bg)	ARGWA-3 (bg)	ARGWA-5 (bg)	ARGWC-10
12/16/1997		0.162 (o)	<0.002	
6/30/1998		0.013	<0.002	
12/2/1998		0.01	0.002	
6/8/1999		0.004	<0.002	
12/7/1999		0.004	<0.002	
6/15/2000		0.004	<0.002	
12/12/2000		0.00378	<0.002	
12/5/2001		0.003	<0.002	
6/26/2002		0.00815	0.00539	
12/3/2002		0.008	<0.002	
6/11/2003		<0.002	<0.002	
12/10/2003		<0.002	<0.002	
6/15/2004		<0.002	<0.002	
12/14/2004		<0.002	0.013 (o)	
6/2/2005		<0.002	<0.002	
12/14/2005		<0.002	<0.002	
4/5/2006		<0.002	<0.002	
10/30/2006		<0.002	<0.002	
5/10/2007		<0.002	<0.002	
11/17/2007		<0.002	<0.002	
5/3/2008		<0.002	<0.002	
10/22/2008		<0.002	<0.002	
5/6/2009			<0.002	
5/7/2009		<0.002		
5/13/2009				<0.002
12/1/2009			<0.002	
12/3/2009				<0.002
12/4/2009		<0.002		
5/25/2010			<0.002	
5/26/2010				<0.002
6/1/2010		<0.002		
11/9/2010			<0.002	<0.002
11/10/2010		<0.002		
5/19/2011				<0.002
5/24/2011			<0.002	
5/25/2011		<0.002		
11/10/2011			<0.002	
11/11/2011				<0.002
11/12/2011		<0.002		
5/17/2012				<0.002
5/18/2012			<0.002	
5/31/2012		0.0005 (J)		
11/9/2012			<0.002	<0.002
11/11/2012		<0.002		
5/7/2013				<0.002
5/8/2013			<0.002	
5/13/2013		<0.002		
11/6/2013			<0.002	<0.002
11/12/2013		<0.002		
5/20/2014			<0.002	<0.002
5/29/2014		<0.002		
11/17/2014			<0.002	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 10/3/2024 12:14 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-24 (bg)	ARGWA-3 (bg)	ARGWA-5 (bg)	ARGWC-10
11/18/2014				<0.002
4/7/2015			<0.002	<0.002
4/14/2015		<0.002		
10/28/2015			<0.002	<0.002
11/3/2015		<0.002		
6/23/2016		<0.002	<0.002	<0.002
8/30/2016			<0.002	
8/31/2016		<0.002		
9/1/2016				<0.002
10/25/2016		<0.002	<0.002	<0.002
1/24/2017		<0.002	<0.002	
1/27/2017				<0.002
4/11/2017		<0.002	<0.002	
4/12/2017				<0.002
6/20/2017		<0.002	<0.002	
6/22/2017				<0.002
10/25/2017		<0.002	<0.002	
10/26/2017				<0.002
4/10/2018		<0.002	<0.002	
4/11/2018				<0.002
10/16/2018		<0.002	<0.002	
10/17/2018				<0.002
3/27/2019		<0.002	<0.002	
3/28/2019				<0.002
8/20/2019		0.00014 (J)	0.00014 (J)	
8/21/2019				<0.002
10/8/2019		0.001	0.00016 (J)	
10/9/2019				<0.002
4/7/2020		<0.002	<0.002	
4/8/2020				0.031
8/18/2020		0.00019 (J)	0.00013 (J)	
8/19/2020				0.00013 (J)
9/29/2020		<0.002	<0.002	
10/1/2020				<0.002
12/1/2020	<0.002			
2/9/2021	<0.002	<0.002	<0.002	<0.002
9/8/2021	<0.002	<0.002	<0.002	
9/10/2021				<0.002
2/1/2022	<0.002	<0.002	<0.002	
2/2/2022				<0.002
8/30/2022			<0.002	
8/31/2022	<0.002	<0.002		<0.002
2/2/2023	<0.002			<0.002
2/3/2023		<0.002	<0.002	
8/9/2023	<0.002	<0.002		<0.002
8/10/2023			<0.002	
1/24/2024	<0.002	<0.002	<0.002	
1/25/2024				<0.002
8/20/2024	<0.002	<0.002		
8/21/2024			<0.002	<0.002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 10/3/2024 12:14 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-15	ARGWC-16	ARGWC-17	ARGWC-18
5/5/2009	<0.002			
5/12/2009		<0.002	<0.002	<0.002
12/4/2009	<0.002		<0.002	<0.002
12/5/2009		<0.002		
5/25/2010			<0.002	<0.002
5/26/2010		<0.002		
6/1/2010	<0.002			
11/9/2010		<0.002	<0.002	
11/10/2010	<0.002			<0.002
5/19/2011				<0.002
5/24/2011		<0.002	<0.002	
5/25/2011	<0.002			
11/9/2011	<0.002			
11/12/2011		<0.002	<0.002	<0.002
5/17/2012				<0.002
5/30/2012		<0.002	<0.002	
5/31/2012	0.0008 (J)			
11/9/2012		<0.002	<0.002	
11/10/2012	<0.002			<0.002
5/7/2013				<0.002
5/8/2013			<0.002	
5/13/2013	0.025 (o)	<0.002		
11/5/2013				<0.002
11/6/2013		<0.002	<0.002	
11/12/2013	<0.002			
5/20/2014			<0.002	
5/21/2014		<0.002		
5/28/2014	<0.002			<0.002
11/17/2014		<0.002	<0.002	
11/19/2014				<0.002
11/20/2014	<0.002			
4/7/2015		<0.002	<0.002	
4/14/2015	<0.002			
4/15/2015				<0.002
10/28/2015		<0.002	<0.002	
10/29/2015				<0.002
11/3/2015	<0.002			
6/23/2016	<0.002			
6/24/2016		<0.002	<0.002	<0.002
9/1/2016		<0.002	<0.002	<0.002
9/2/2016	0.0056			
10/25/2016		<0.002	<0.002	
10/26/2016	0.0003 (J)			0.0002 (J)
1/26/2017	<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
6/21/2017	<0.002	<0.002	<0.002	<0.002
10/25/2017				<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

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 10/3/2024 12:14 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-15	ARGWC-16	ARGWC-17	ARGWC-18
10/16/2018		<0.002		
10/17/2018	0.0016		<0.002	<0.002
3/27/2019	<0.002			<0.002
3/28/2019		<0.002	<0.002	
8/20/2019		<0.002		
8/21/2019	<0.002		<0.002	<0.002
10/8/2019	<0.002			
10/9/2019		<0.002	<0.002	<0.002
4/8/2020	<0.002	<0.002	<0.002	
4/9/2020				<0.002
8/18/2020			<0.002	
8/19/2020	<0.002	<0.002		
8/20/2020				0.00028 (J)
9/29/2020	<0.002	<0.002	<0.002	
9/30/2020				0.0002 (J)
2/9/2021	<0.002	<0.002	<0.002	
2/10/2021				<0.002
9/8/2021	0.0016	<0.002	0.00022 (J)	
9/9/2021				0.00031 (J)
2/2/2022			<0.002	
2/3/2022	<0.002	0.00021 (J)		<0.002
8/31/2022	<0.002	<0.002		
9/2/2022			<0.002	<0.002
2/2/2023		<0.002		<0.002
2/3/2023	<0.002		<0.002	
8/9/2023			<0.002	
8/10/2023	0.000841 (J)	<0.002		<0.002
1/25/2024	<0.002	<0.002	<0.002	<0.002
8/21/2024	0.000948 (J)	<0.002	<0.002	<0.002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 10/3/2024 12:14 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-7	ARGWC-8	ARGWC-9
12/14/2005	<0.002		
4/5/2006	<0.002		
10/30/2006	<0.002		
5/10/2007	0.0032		
11/17/2007	<0.002		
5/2/2008	0.008 (o)		
10/22/2008	<0.002		
5/13/2009			<0.002
5/14/2009	0.00083	<0.002	
12/1/2009	<0.002		
12/3/2009		<0.002	<0.002
5/26/2010	<0.002	<0.002	<0.002
11/9/2010		<0.002	<0.002
11/10/2010	<0.002		
5/18/2011		<0.002	
5/19/2011			<0.002
5/25/2011	<0.002		
11/11/2011	<0.002	<0.002	<0.002
5/17/2012	<0.002	<0.002	<0.002
11/9/2012	<0.002	<0.002	<0.002
5/7/2013		<0.002	<0.002
5/8/2013	<0.002		
11/5/2013	<0.002	<0.002	
11/6/2013			<0.002
5/21/2014	<0.002	<0.002	<0.002
11/17/2014	<0.002		
11/18/2014		<0.002	<0.002
4/7/2015	<0.002	<0.002	<0.002
10/28/2015	<0.002	<0.002	<0.002
6/23/2016	<0.002	<0.002	<0.002
8/31/2016	<0.002	<0.002	<0.002
10/25/2016	<0.002		<0.002
10/26/2016		<0.002	
1/26/2017	<0.002	<0.002	<0.002
4/12/2017	<0.002	<0.002	<0.002
6/21/2017		<0.002	
6/22/2017	<0.002		<0.002
10/25/2017	<0.002		<0.002
10/26/2017		<0.002	
4/10/2018	<0.002		
4/11/2018		<0.002	<0.002
10/17/2018	<0.002	<0.002	<0.002
3/28/2019	<0.002	<0.002	<0.002
8/21/2019	<0.002	<0.002	<0.002
10/9/2019	<0.002	0.00019 (J)	0.00016 (J)
4/8/2020	<0.002		
4/9/2020		<0.002	<0.002
8/18/2020	<0.002		
8/19/2020			<0.002
8/20/2020		<0.002	
9/29/2020	<0.002		
10/1/2020		<0.002	<0.002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 10/3/2024 12:14 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-7	ARGWC-8	ARGWC-9
2/10/2021	<0.002	<0.002	<0.002
9/9/2021		<0.002	<0.002
9/10/2021	<0.002		
2/2/2022		0.00024 (J)	<0.002
2/3/2022	<0.002		
8/31/2022	<0.002	<0.002	<0.002
2/2/2023	<0.002	<0.002	<0.002
8/10/2023	<0.002	<0.002	<0.002
1/25/2024	<0.002	<0.002	<0.002
8/21/2024	<0.002	<0.002	<0.002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 10/3/2024 12:14 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARAMW-4	ARGWA-12 (bg)	ARGWA-13 (bg)	ARGWA-14 (bg)
8/30/2016		0.0052		
8/31/2016			0.0053	0.0053
10/24/2016		<0.05 (o)		
10/25/2016			0.0048 (J)	<0.01
1/23/2017		0.0039 (J)		0.0043 (J)
1/24/2017			0.0032 (J)	
4/11/2017		0.004 (J)	0.0036 (J)	<0.01
6/20/2017				0.0042 (J)
6/21/2017		0.0041 (J)	0.0052	
10/25/2017		0.0056	0.0059	0.0061
4/9/2018			0.0056	0.0052
4/10/2018		0.007		
10/16/2018		0.0045 (J)	0.0057	0.0052
8/19/2019			0.0058	
8/20/2019		0.0053		
8/21/2019				<0.01
10/7/2019				0.007
10/8/2019		0.0078	0.0099	
4/6/2020				<0.01
4/7/2020		0.0036 (J)	0.0036 (J)	
6/24/2020	0.013			
6/25/2020			0.0067	0.0071
6/26/2020		0.0061		
8/18/2020		0.0039 (J)	0.0042 (J)	
8/19/2020				<0.01
8/20/2020	0.012			
9/29/2020		0.0048 (J)	0.0052	0.0044 (J)
9/30/2020	0.012			
2/9/2021		0.0051	0.0054	
2/10/2021	0.014			
2/11/2021				<0.01
9/7/2021		0.0042 (J)	0.0059	
9/8/2021	0.013			<0.01
2/1/2022		0.0047 (J)	0.0045 (J)	
2/2/2022	0.014			0.0032 (J)
8/30/2022		0.00493 (J)		
8/31/2022			0.00609 (J)	0.00399 (J)
9/2/2022	0.0117			
2/2/2023		0.00499 (J)		
2/3/2023			0.00436 (J)	
2/7/2023	0.0133			0.00426 (J)
8/9/2023	0.013	0.00479 (J)	0.00536 (J)	
8/10/2023				<0.01
1/24/2024				0.00304 (J)
1/25/2024	0.0136	0.00332 (J)	0.00566 (J)	
8/20/2024		0.00366 (J)		
8/21/2024	0.0165		0.00639 (J)	
8/22/2024				0.00312 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 10/3/2024 12:14 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-24 (bg)	ARGWA-3 (bg)	ARGWA-5 (bg)	ARGWC-10
8/30/2016			<0.01	
8/31/2016		<0.01		
9/1/2016				<0.01
10/25/2016		<0.01	<0.01	<0.01
1/24/2017		<0.01	<0.01	
1/27/2017				<0.01
4/11/2017		<0.01	<0.01	
4/12/2017				<0.01
6/20/2017		<0.01	<0.01	
6/22/2017				<0.01
10/25/2017		<0.01	<0.01	
10/26/2017				<0.01
4/10/2018		<0.01	<0.01	
4/11/2018				0.0015 (J)
10/16/2018		0.0017 (J)	<0.01	
10/17/2018				0.0011 (J)
8/20/2019		<0.01	<0.01	
8/21/2019				<0.01
10/8/2019		0.0047 (J)	0.0055	
10/9/2019				0.0055
4/7/2020		<0.01	<0.01	
4/8/2020				<0.01
6/23/2020				<0.01
6/25/2020		<0.01	<0.01	
8/18/2020		<0.01	<0.01	
8/19/2020				<0.01
9/29/2020		<0.01	<0.01	
10/1/2020				<0.01
12/1/2020	<0.01			
2/9/2021	<0.01	<0.01	<0.01	<0.01
9/8/2021	<0.01	<0.01	<0.01	
9/10/2021				<0.01
2/1/2022	0.0027 (J)	<0.01	<0.01	
2/2/2022				0.0012 (J)
8/30/2022			<0.01	
8/31/2022	<0.01	<0.01		<0.01
2/2/2023	<0.01			<0.01
2/3/2023		<0.01	<0.01	
8/9/2023	<0.01	<0.01		<0.01
8/10/2023			<0.01	
1/24/2024	<0.01	<0.01	<0.01	
1/25/2024				<0.01
8/20/2024	<0.01	<0.01		
8/21/2024			<0.01	<0.01

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 10/3/2024 12:14 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-15	ARGWC-16	ARGWC-17	ARGWC-18
9/1/2016		<0.01	<0.01	0.0033 (J)
9/2/2016	0.0045 (J)			
10/25/2016		<0.01	<0.01	
10/26/2016	0.0025 (J)			0.0037 (J)
1/26/2017	<0.01	<0.01	<0.01	
1/27/2017				0.0048 (J)
4/11/2017		<0.01	<0.01	
4/12/2017	<0.01			0.0039 (J)
6/21/2017	<0.01	<0.01	<0.01	0.0037 (J)
10/25/2017				0.0047 (J)
10/26/2017	<0.01	<0.01	<0.01	
4/10/2018	0.0029 (J)	0.0031 (J)	0.0023 (J)	
4/11/2018				0.0062
10/16/2018		0.0016 (J)		
10/17/2018	<0.01		0.0014 (J)	0.0049 (J)
8/20/2019		<0.01		
8/21/2019	<0.01		<0.01	0.0036 (J)
10/8/2019	0.004 (J)			
10/9/2019		0.0076	0.0071	0.013
4/8/2020	<0.01	<0.01	<0.01	
4/9/2020				<0.005
6/24/2020		<0.01	<0.01	0.0047 (J)
6/25/2020	0.004 (J)			
8/18/2020			<0.01	
8/19/2020	<0.01	<0.01		
8/20/2020				<0.005
9/29/2020	<0.01	<0.01	<0.01	
9/30/2020				0.0048 (J)
2/9/2021	<0.01	<0.01	<0.01	
2/10/2021				0.0041 (J)
9/8/2021	<0.01	<0.01	<0.01	
9/9/2021				0.0047 (J)
2/2/2022			0.0014 (J)	
2/3/2022	0.002 (J)	0.002 (J)		0.0046 (J)
8/31/2022	<0.01	<0.01		
9/2/2022			<0.01	0.0038 (J)
2/2/2023		<0.01		0.00391 (J)
2/3/2023	<0.01		<0.01	
8/9/2023			<0.01	
8/10/2023	<0.01	<0.01		0.0043 (J)
1/25/2024	<0.01	<0.01	<0.01	0.00385 (J)
8/21/2024	<0.01	<0.01	<0.01	0.00449 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 10/3/2024 12:14 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-7	ARGWC-8	ARGWC-9
8/31/2016	<0.01	0.0039 (J)	<0.01
10/25/2016	0.0024 (J)		<0.01
10/26/2016		0.0025 (J)	
1/26/2017	0.0033 (J)	0.0035 (J)	<0.01
4/12/2017	<0.01	<0.005	<0.01
6/21/2017		<0.005	
6/22/2017	<0.01		<0.01
10/25/2017	0.005		<0.01
10/26/2017		0.0041 (J)	
4/10/2018	0.005		
4/11/2018		0.0041 (J)	<0.01
10/17/2018	0.0025 (J)	0.0037 (J)	<0.01
8/21/2019	0.0034 (J)	<0.005	<0.01
10/9/2019	0.0083	0.0077	0.0061
4/8/2020	<0.01		
4/9/2020		<0.005	<0.01
6/23/2020		0.0042 (J)	
6/25/2020	0.0046 (J)		
6/26/2020			<0.01
8/18/2020	<0.01		
8/19/2020			<0.01
8/20/2020		<0.005	
9/29/2020	<0.01		
10/1/2020		0.0035 (J)	<0.01
2/10/2021	<0.01	<0.005	<0.01
9/9/2021		0.0037 (J)	<0.01
9/10/2021	<0.01		
2/2/2022		0.0039 (J)	<0.01
2/3/2022	0.0031 (J)		
8/31/2022	0.00308 (J)	0.00345 (J)	<0.01
2/2/2023	<0.01	0.00337 (J)	<0.01
8/10/2023	<0.01	0.00333 (J)	<0.01
1/25/2024	<0.01	0.00315 (J)	<0.01
8/21/2024	<0.01	0.00349 (J)	<0.01

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 10/3/2024 12:14 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARAMW-4	ARGWA-12 (bg)	ARGWA-13 (bg)	ARGWA-14 (bg)
8/30/2016		<0.0002		
8/31/2016			<0.0002	<0.0002
10/24/2016		<0.0002		
10/25/2016			<0.0002	<0.0002
1/23/2017		<0.0002		<0.0002
1/24/2017			<0.0002	
4/11/2017		<0.0002	<0.0002	<0.0002
6/20/2017				<0.0002
6/21/2017		<0.0002	<0.0002	
10/25/2017		<0.0002	<0.0002	<0.0002
4/9/2018			<0.0002	<0.0002
4/10/2018		7.2E-05 (J)		
10/16/2018		<0.0002	<0.0002	<0.0002
8/19/2019			<0.0002	
8/20/2019		<0.0002		
8/21/2019				<0.0002
4/6/2020				<0.0002
4/7/2020		<0.0002	<0.0002	
8/18/2020		<0.0002	<0.0002	
8/19/2020				<0.0002
8/20/2020	<0.0002			
9/7/2021		<0.0002	<0.0002	
9/8/2021	<0.0002			<0.0002
2/1/2022		<0.0002	<0.0002	
2/2/2022	<0.0002			<0.0002
8/30/2022		<0.0002		
8/31/2022			<0.0002	<0.0002
9/2/2022	<0.0002			
2/2/2023		<0.0002		
2/3/2023			<0.0002	
2/7/2023	<0.0002			<0.0002
8/9/2023	<0.0002	<0.0002	<0.0002	
8/10/2023				<0.0002
1/24/2024				<0.0002
1/25/2024	<0.0002	<0.0002	<0.0002	
8/20/2024		<0.0002		
8/21/2024	<0.0002		<0.0002	
8/22/2024				<0.0002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 10/3/2024 12:14 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-24 (bg)	ARGWA-3 (bg)	ARGWA-5 (bg)	ARGWC-10
8/30/2016			<0.0002	
8/31/2016		<0.0002		
9/1/2016				<0.0002
10/25/2016		<0.0002	<0.0002	<0.0002
1/24/2017		<0.0002	<0.0002	
1/27/2017				7.7E-05 (J)
4/11/2017		<0.0002	<0.0002	
4/12/2017				<0.0002
6/20/2017		<0.0002	<0.0002	
6/22/2017				<0.0002
10/25/2017		<0.0002	<0.0002	
10/26/2017				<0.0002
4/10/2018		<0.0002	7E-05 (J)	
4/11/2018				<0.0002
10/16/2018		<0.0002	<0.0002	
10/17/2018				<0.0002
8/20/2019		<0.0002	<0.0002	
8/21/2019				<0.0002
4/7/2020		0.00016 (J)	<0.0002	
4/8/2020				<0.0002
8/18/2020		<0.0002	<0.0002	
8/19/2020				<0.0002
12/1/2020	<0.0002			
2/9/2021	<0.0002			
9/8/2021	<0.0002	<0.0002	<0.0002	
9/10/2021				<0.0002
2/1/2022	<0.0002	<0.0002	<0.0002	
2/2/2022				<0.0002
8/30/2022			<0.0002	
8/31/2022	<0.0002	<0.0002		<0.0002
2/2/2023	<0.0002			<0.0002
2/3/2023		<0.0002	<0.0002	
8/9/2023	<0.0002	<0.0002		<0.0002
8/10/2023			<0.0002	
1/24/2024	<0.0002	<0.0002	<0.0002	
1/25/2024				<0.0002
8/20/2024	<0.0002	<0.0002		
8/21/2024			<0.0002	<0.0002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 10/3/2024 12:14 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-15	ARGWC-16	ARGWC-17	ARGWC-18
9/1/2016		8.8E-05 (J)	<0.0002	<0.0002
9/2/2016	<0.0002			
10/25/2016		<0.0002	<0.0002	
10/26/2016	<0.0002			<0.0002
1/26/2017	<0.0002	7.9E-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
6/21/2017	<0.0002	0.00011 (J)	<0.0002	<0.0002
10/25/2017				<0.0002
10/26/2017	<0.0002	9.4E-05 (J)	<0.0002	
4/10/2018	7.1E-05 (J)	9.9E-05 (J)	<0.0002	
4/11/2018				<0.0002
10/16/2018		7E-05 (J)		
10/17/2018	<0.0002		<0.0002	<0.0002
8/20/2019		<0.0002		
8/21/2019	<0.0002		<0.0002	<0.0002
4/8/2020	<0.0002	<0.0002	<0.0002	
4/9/2020				<0.0002
8/18/2020			<0.0002	
8/19/2020	<0.0002	<0.0002		
8/20/2020				<0.0002
9/8/2021	<0.0002	<0.0002	<0.0002	
9/9/2021				<0.0002
2/2/2022			<0.0002	
2/3/2022	<0.0002	<0.0002		<0.0002
8/31/2022	<0.0002	<0.0002		
9/2/2022			<0.0002	<0.0002
2/2/2023		<0.0002		<0.0002
2/3/2023	<0.0002		<0.0002	
8/9/2023			<0.0002	
8/10/2023	<0.0002	<0.0002		<0.0002
1/25/2024	<0.0002	<0.0002	<0.0002	<0.0002
8/21/2024	<0.0002	<0.0002	<0.0002	<0.0002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 10/3/2024 12:14 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-7	ARGWC-8	ARGWC-9
8/31/2016	<0.0002	<0.0002	<0.0002
10/25/2016	<0.0002		<0.0002
10/26/2016		<0.0002	
1/26/2017	<0.0002	8.1E-05 (J)	<0.0002
4/12/2017	<0.0002	<0.0002	<0.0002
6/21/2017		<0.0002	
6/22/2017	<0.0002		<0.0002
10/25/2017	<0.0002		<0.0002
10/26/2017		<0.0002	
4/10/2018	7E-05 (J)		
4/11/2018		<0.0002	<0.0002
10/17/2018	<0.0002	<0.0002	<0.0002
8/21/2019	<0.0002	<0.0002	<0.0002
4/8/2020	<0.0002		
4/9/2020		<0.0002	<0.0002
8/18/2020	<0.0002		
8/19/2020			<0.0002
8/20/2020		<0.0002	
9/9/2021		<0.0002	<0.0002
9/10/2021	<0.0002		
2/2/2022		<0.0002	<0.0002
2/3/2022	<0.0002		
8/31/2022	<0.0002	<0.0002	<0.0002
2/2/2023	<0.0002	<0.0002	<0.0002
8/10/2023	<0.0002	<0.0002	<0.0002
1/25/2024	<0.0002	<0.0002	<0.0002
8/21/2024	<0.0002	<0.0002	<0.0002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/3/2024 12:14 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARAMW-4	ARGWA-12 (bg)	ARGWA-13 (bg)	ARGWA-14 (bg)
8/30/2016		<0.015		
8/31/2016			<0.001	0.004 (J)
10/24/2016		<0.015		
10/25/2016			<0.001	<0.015
1/23/2017		<0.015		<0.015
1/24/2017			<0.001	
4/11/2017		<0.015	<0.001	<0.015
6/20/2017				<0.015
6/21/2017		<0.015	<0.001	
10/25/2017		<0.015	0.0018 (J)	<0.015
4/9/2018			<0.001	<0.015
4/10/2018		<0.015		
10/16/2018		<0.015	<0.001	<0.015
8/19/2019			<0.001	
8/20/2019		<0.015		
8/21/2019				0.002 (J)
10/7/2019				0.00067 (J)
10/8/2019		<0.015	<0.001	
4/6/2020				0.00084 (J)
4/7/2020		<0.015	<0.001	
6/24/2020	0.00079 (J)			
6/25/2020			<0.001	<0.015
6/26/2020		<0.015		
8/18/2020		<0.015	<0.001	
8/19/2020				0.00065 (J)
8/20/2020	<0.001			
9/29/2020		<0.015	<0.001	<0.015
9/30/2020	0.00073 (J)			
2/9/2021		<0.015	<0.001	
2/10/2021	<0.001			
2/11/2021				<0.015
9/7/2021		<0.015	<0.001	
9/8/2021	<0.001			<0.015
2/1/2022		<0.015	<0.001	
2/2/2022	<0.001			<0.015
8/30/2022		0.000274		
8/31/2022			<0.001	0.000862 (J)
9/2/2022	0.000288			
2/2/2023		0.000357 (J)		
2/3/2023			<0.001	
2/7/2023	0.000328 (J)			0.000201 (J)
8/9/2023	<0.001	0.000299 (J)	<0.001	
8/10/2023				0.000738 (J)
1/24/2024				0.000781 (J)
1/25/2024	0.000274 (J)	0.000272 (J)	<0.001	
8/20/2024		0.000249 (J)		
8/21/2024	0.000218 (J)		<0.001	
8/22/2024				0.000727 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/3/2024 12:14 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-24 (bg)	ARGWA-3 (bg)	ARGWA-5 (bg)	ARGWC-10
8/30/2016			<0.001	
8/31/2016		<0.001		
9/1/2016				<0.001
10/25/2016		<0.001	<0.001	<0.001
1/24/2017		<0.001	<0.001	
1/27/2017				<0.001
4/11/2017		<0.001	<0.001	
4/12/2017				<0.001
6/20/2017		<0.001	<0.001	
6/22/2017				<0.001
10/25/2017		0.00093 (J)	<0.001	
10/26/2017				<0.001
4/10/2018		<0.001	<0.001	
4/11/2018				<0.001
10/16/2018		<0.001	<0.001	
10/17/2018				<0.001
8/20/2019		<0.001	<0.001	
8/21/2019				<0.001
10/8/2019		<0.001	<0.001	
10/9/2019				<0.001
4/7/2020		<0.001	<0.001	
4/8/2020				<0.001
6/23/2020				<0.001
6/25/2020		<0.001	<0.001	
8/18/2020		<0.001	<0.001	
8/19/2020				<0.001
9/29/2020		<0.001	<0.001	
10/1/2020				<0.001
12/1/2020	<0.001			
2/9/2021	<0.001	<0.001	<0.001	<0.001
9/8/2021	<0.001	<0.001	<0.001	
9/10/2021				<0.001
2/1/2022	<0.001	<0.001	<0.001	
2/2/2022				<0.001
8/30/2022			<0.001	
8/31/2022	<0.001	<0.001		<0.001
2/2/2023	<0.001			<0.001
2/3/2023		0.000393 (J)	0.000302 (J)	
8/9/2023	<0.001	<0.001		<0.001
8/10/2023			<0.001	
1/24/2024	<0.001	0.000236 (J)	<0.001	
1/25/2024				<0.001
8/20/2024	<0.001	<0.001		
8/21/2024			<0.001	<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/3/2024 12:14 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-15	ARGWC-16	ARGWC-17	ARGWC-18
9/1/2016		<0.001	<0.001	<0.001
9/2/2016	0.0015 (J)			
10/25/2016		<0.001	<0.001	
10/26/2016	<0.015			<0.001
1/26/2017	<0.015	<0.001	<0.001	
1/27/2017				<0.001
4/11/2017		<0.001	<0.001	
4/12/2017	<0.015			<0.001
6/21/2017	<0.015	<0.001	<0.001	<0.001
10/25/2017				<0.001
10/26/2017	<0.015	<0.001	<0.001	
4/10/2018	0.00097 (J)	<0.001	<0.001	
4/11/2018				<0.001
10/16/2018		<0.001		
10/17/2018	<0.015		<0.001	<0.001
8/20/2019		<0.001		
8/21/2019	0.0017 (J)		<0.001	<0.001
10/8/2019	0.0011 (J)			
10/9/2019		<0.001	<0.001	<0.001
4/8/2020	0.00075 (J)	<0.001	<0.001	
4/9/2020				<0.001
6/24/2020		<0.001	<0.001	<0.001
6/25/2020	0.00086 (J)			
8/18/2020			<0.001	
8/19/2020	0.0016 (J)	<0.001		
8/20/2020				<0.001
9/29/2020	0.0019 (J)	<0.001	<0.001	
9/30/2020				<0.001
2/9/2021	0.0012 (J)	<0.001	<0.001	
2/10/2021				<0.001
9/8/2021	0.0017 (J)	<0.001	<0.001	
9/9/2021				<0.001
2/2/2022			<0.001	
2/3/2022	0.0011 (J)	<0.001		<0.001
8/31/2022	0.00179	<0.001		
9/2/2022			<0.001	<0.001
2/2/2023		<0.001		0.000288 (J)
2/3/2023	0.000959 (J)		<0.001	
8/9/2023			<0.001	
8/10/2023	0.00212	<0.001		<0.001
1/25/2024	0.000948 (J)	<0.001	<0.001	<0.001
8/21/2024	0.00192	<0.001	<0.001	<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/3/2024 12:14 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-7	ARGWC-8	ARGWC-9
8/31/2016	<0.001	0.034	<0.001
10/25/2016	<0.001		<0.001
10/26/2016		0.0377	
1/26/2017	<0.001	0.04	<0.001
4/12/2017	<0.001	0.035	<0.001
6/21/2017		0.038	
6/22/2017	<0.001		<0.001
10/25/2017	<0.001		<0.001
10/26/2017		0.041	
4/10/2018	<0.001		
4/11/2018		0.037	<0.001
10/17/2018	<0.001	0.036	<0.001
8/21/2019	<0.001	0.051	<0.001
10/9/2019	<0.001	0.049	<0.001
4/8/2020	<0.001		
4/9/2020		0.039	<0.001
6/23/2020		0.043	
6/25/2020	<0.001		
6/26/2020			<0.001
8/18/2020	<0.001		
8/19/2020			<0.001
8/20/2020		0.042	
9/29/2020	<0.001		
10/1/2020		0.043	<0.001
2/10/2021	<0.001	0.041	<0.001
9/9/2021		0.043	<0.001
9/10/2021	<0.001		
2/2/2022		0.042	<0.001
2/3/2022	<0.001		
8/31/2022	<0.001	0.0437	<0.001
2/2/2023	<0.001	0.0428	<0.001
8/10/2023	<0.001	0.0424	<0.001
1/25/2024	<0.001	0.0446	<0.001
8/21/2024	<0.001	0.0377	<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: pH (SU) Analysis Run 10/3/2024 12:14 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARAMW-4	ARGWA-12 (bg)	ARGWA-13 (bg)	ARGWA-14 (bg)
8/30/2016		6.82 (o)		
8/31/2016			6.67 (o)	7.55 (o)
10/24/2016		5.99		
10/25/2016			5.8	6.92
1/23/2017		5.94		6.76
1/24/2017			5.82	
4/11/2017		5.88	5.78	6.72
6/20/2017				6.66
6/21/2017		5.73	5.67	
10/25/2017		6.13	5.72	6.77
4/9/2018			5.78	6.6
4/10/2018		5.95		
10/16/2018		5.94	5.74	6.63
3/26/2019			5.96	
3/27/2019		6		6.83
8/19/2019			5.59	
8/20/2019		5.89		
8/21/2019				6.94
10/7/2019				6.69
10/8/2019		5.93	5.74	
1/15/2020	6.36			
4/6/2020				6.65
4/7/2020		5.91	5.84	
6/24/2020	5.78			
6/25/2020			5.8	6.38
6/26/2020		5.94		
8/18/2020		6.48	6.15	
8/19/2020				6.62
8/20/2020	5.77			
9/29/2020		5.88	5.75	6.8
9/30/2020	5.94			
2/9/2021		5.92	5.79	
2/10/2021	5.64			
2/11/2021				7.02
9/7/2021		5.89	5.71	
9/8/2021	5.52			7.04
2/1/2022		5.97	5.86	
2/2/2022	6.17			6.41
8/30/2022		5.88		
8/31/2022			5.53	6.8
9/2/2022	5.65			
2/2/2023		5.86		
2/3/2023			5.84	
2/7/2023	5.64			6.25
8/9/2023	5.62	6.13	5.94	
8/10/2023				6.43
1/24/2024				6.84
1/25/2024	5.59	5.85	5.76	
8/20/2024		5.96		
8/21/2024	5.62		5.79	6.8

Time Series

Constituent: pH (SU) Analysis Run 10/3/2024 12:14 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-24 (bg)	ARGWA-3 (bg)	ARGWA-5 (bg)	ARGWC-10
8/30/2016			6.07	
8/31/2016		6.09		6.16
10/25/2016		5.92	5.96	6.02
1/24/2017		5.98	5.89	
1/27/2017				5.98
4/11/2017		5.82	5.78	
4/12/2017				5.87
6/20/2017		5.8	5.69	
6/22/2017				5.68
10/25/2017		5.89	6.11	
10/26/2017				6.07
4/10/2018		5.85	5.58	
4/11/2018				5.72
10/16/2018		6.03	5.86	
10/17/2018				5.9
3/27/2019		6.1	5.97	
3/28/2019				6.05
8/20/2019		5.83	5.8	
8/21/2019				5.82
10/8/2019		5.96	5.93	
10/9/2019				5.94
4/7/2020		5.9	5.86	
4/8/2020				5.95
6/23/2020				5.95
6/25/2020		5.75	5.87	
8/18/2020		6.47	6.18	
8/19/2020				7.06
9/29/2020		6.02	6	
10/1/2020				5.83
12/1/2020	5.85			
2/9/2021	5.69	5.94	5.88	5.94
2/11/2021		5.94	5.87	
9/8/2021	5.8	5.97	5.93	
9/10/2021				6.01
2/1/2022	5.77	5.93	5.83	
2/2/2022				5.95
8/30/2022			5.88	
8/31/2022	5.65	5.96		5.96
2/2/2023	5.62			5.86
2/3/2023		6.07	5.93	
8/9/2023	5.7	5.83		5.99
8/10/2023			5.61	
1/24/2024	5.7	6.03	5.81	
1/25/2024				5.9
8/20/2024	5.71	6.05		
8/21/2024			5.72	5.96

Time Series

Constituent: pH (SU) Analysis Run 10/3/2024 12:14 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-15	ARGWC-16	ARGWC-17	ARGWC-18
9/1/2016		5.49	5.52	6.19
9/2/2016	6.54			
10/25/2016	6.25	5.29	5.45	
10/26/2016	6.23			6.03
1/26/2017	6.4	5.29	5.43	
1/27/2017				6.01
4/11/2017		5.21	5.33	
4/12/2017	6.1			5.97
6/21/2017	6.11	5.21	5.3	5.9
10/25/2017				5.97
10/26/2017	6.2	5.2	5.29	
4/10/2018	6.17	5.34	5.46	
4/11/2018				5.87
10/16/2018		5.47		
10/17/2018	6.34		5.32	5.9
3/27/2019	6.6			6.06
3/28/2019		5.31	5.36	
8/20/2019		5.35		
8/21/2019	6.3		5.07	5.94
10/8/2019	6.38			
10/9/2019		5.22	5.27	6.01
4/8/2020	6.26	5.07	5.02	
4/9/2020				5.98
6/24/2020		5.2	5.11	5.91
6/25/2020	6.32			
8/18/2020			5.07	
8/19/2020	6.47	5.24		
8/20/2020				6.43
9/29/2020	7.11	5.5	5.75	
9/30/2020				5.98
2/9/2021	6.43	5.24	5.17	
2/10/2021				5.99
2/11/2021		5.23		6.03
9/8/2021	6.48	5.32	5.15	
9/9/2021				6.04
2/2/2022			5.15	
2/3/2022	6.39	5.26		6
8/31/2022	6.46	5.18		
9/2/2022			5.11	6.03
2/2/2023		5.18		6.12
2/3/2023	6.73		5.22	
8/9/2023			4.99	
8/10/2023	6.36	5.15		6.09
1/25/2024	6.24	5.22	5.13	6.08
8/21/2024	6.26	5.24	5.15	6

Time Series

Constituent: pH (SU) Analysis Run 10/3/2024 12:14 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-7	ARGWC-8	ARGWC-9
8/31/2016	5.98	6.62	6.1
10/25/2016	5.81		5.92
10/26/2016		6.44	
1/26/2017	5.73	6.34	5.82
4/12/2017	5.65	6.36	5.79
6/21/2017		6.28	
6/22/2017	5.69		5.64
10/25/2017	5.99		5.7
10/26/2017		6.47	
4/10/2018	5.6		
4/11/2018		6.34	5.69
10/17/2018	5.67	6.2	5.81
3/28/2019	5.85		5.97
3/29/2019		6.55	
8/21/2019	5.77	6.36	5.76
10/9/2019	5.76	6.47	5.9
4/8/2020	5.75		
4/9/2020		6.42	5.9
6/23/2020		6.37	
6/25/2020	5.75		
6/26/2020			5.85
8/18/2020	6.7		
8/19/2020			7.21
8/20/2020		6.34	
9/29/2020	5.92		
10/1/2020		6.44	5.78
2/10/2021	5.77	6.45	5.91
2/11/2021			5.95
9/9/2021		6.4	5.91
9/10/2021	5.83		
2/2/2022		6.43	5.95
2/3/2022	5.74		
8/31/2022	5.98	6.38	5.98
2/2/2023	5.85	6.53	6
8/10/2023	5.69	6.63	6.1
1/25/2024	5.74	6.51	5.96
8/21/2024	5.74	6.51	5.97

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/3/2024 12:14 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARAMW-4	ARGWA-12 (bg)	ARGWA-13 (bg)	ARGWA-14 (bg)
5/6/2009		0.0054		
5/7/2009			0.0059	
12/3/2009		0.006	0.0057	
5/25/2010		<0.005	<0.005	
6/2/2010				<0.005
11/9/2010		<0.005		
11/10/2010			<0.005	<0.005
5/19/2011				<0.005
5/24/2011		<0.005		
5/25/2011			<0.005	
11/9/2011				<0.005
11/10/2011		<0.005	<0.005	
5/18/2012		<0.005		
5/30/2012			<0.005	<0.005
11/9/2012		<0.005	<0.005	
11/11/2012				<0.005
5/8/2013		<0.005		
5/9/2013			<0.005	<0.005
11/6/2013		<0.005		
11/11/2013			<0.005	<0.005
5/20/2014		<0.005		
5/21/2014			<0.005	
5/29/2014				<0.005
11/18/2014		<0.005	0.0083	
11/19/2014				<0.005
4/7/2015			<0.005	
4/14/2015		<0.005		<0.005
10/28/2015			0.023	
10/29/2015		<0.005		
11/4/2015				<0.005
6/23/2016		<0.005	0.0096	<0.005
8/30/2016		<0.005		
8/31/2016			0.017	0.00077 (J)
10/24/2016		<0.005		
10/25/2016			0.0257	<0.005
1/23/2017		<0.005		0.00037 (J)
1/24/2017			0.0097	
4/11/2017		<0.005	0.0079	<0.005
6/20/2017				0.00044 (J)
6/21/2017		0.00025 (J)	0.019	
10/25/2017		0.00027 (J)	0.022	0.00038 (J)
4/9/2018			0.0063	<0.005
4/10/2018		0.00033 (J)		
10/16/2018		<0.005	0.021	<0.005
3/26/2019			0.015	
3/27/2019		<0.005		<0.005
8/19/2019			0.034	
8/20/2019		<0.005		
8/21/2019				<0.005
10/7/2019				<0.005
10/8/2019		<0.005	0.03	
4/6/2020				<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/3/2024 12:14 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARAMW-4	ARGWA-12 (bg)	ARGWA-13 (bg)	ARGWA-14 (bg)
4/7/2020		<0.005	0.0094	
8/18/2020		<0.005	0.019	
8/19/2020				<0.005
8/20/2020	<0.005			
9/29/2020		<0.005	0.021	<0.005
9/30/2020	<0.005			
2/9/2021		<0.005	0.019	
2/10/2021	<0.005			
2/11/2021				<0.005
9/7/2021		<0.005	0.032	
9/8/2021	<0.005			<0.005
2/1/2022		<0.005	0.013	
2/2/2022	0.0011 (J)			<0.005
8/30/2022		<0.005		
8/31/2022			0.0259	<0.005
9/2/2022	<0.005			
2/2/2023		<0.005		
2/3/2023			0.00739	
2/7/2023	<0.005			<0.005
8/9/2023	<0.005	<0.005	0.0279	
8/10/2023				<0.005
1/24/2024				<0.005
1/25/2024	0.00276 (J)	<0.005	0.0173	
8/20/2024		<0.005		
8/21/2024	0.00323 (J)		0.0209	
8/22/2024				<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/3/2024 12:14 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-24 (bg)	ARGWA-3 (bg)	ARGWA-5 (bg)	ARGWC-10
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	
5/6/2009			0.0047	
5/7/2009		0.0049		
5/13/2009				0.005
12/1/2009			0.0046	
12/3/2009				0.0057
12/4/2009		<0.005		
5/25/2010			<0.005	
5/26/2010				<0.005
6/1/2010		<0.005		
11/9/2010			<0.005	<0.005
11/10/2010		<0.005		
5/19/2011				<0.005
5/24/2011			<0.005	
5/25/2011		<0.005		
11/10/2011			<0.005	
11/11/2011				<0.005
11/12/2011		<0.005		
5/17/2012				<0.005
5/18/2012			<0.005	
5/31/2012		<0.005		
11/9/2012			<0.005	<0.005
11/11/2012		<0.005		
5/7/2013				<0.005
5/8/2013			<0.005	
5/13/2013		<0.005		
11/6/2013			<0.005	<0.005
11/12/2013		<0.005		
5/20/2014			<0.005	<0.005
5/29/2014		<0.005		
11/17/2014			<0.005	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/3/2024 12:14 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-24 (bg)	ARGWA-3 (bg)	ARGWA-5 (bg)	ARGWC-10
11/18/2014				<0.005
4/7/2015			<0.005	<0.005
4/14/2015		<0.005		
10/28/2015			<0.005	<0.005
11/3/2015		<0.005		
6/23/2016		<0.005	<0.005	<0.005
8/30/2016			<0.005	
8/31/2016		<0.005		
9/1/2016				<0.005
10/25/2016		<0.005	<0.005	<0.005
1/24/2017		<0.005	<0.005	
1/27/2017				<0.005
4/11/2017		<0.005	<0.005	
4/12/2017				<0.005
6/20/2017		<0.005	<0.005	
6/22/2017				<0.005
10/25/2017		0.00032 (J)	0.00027 (J)	
10/26/2017				<0.005
4/10/2018		<0.005	<0.005	
4/11/2018				<0.005
10/16/2018		<0.005	<0.005	
10/17/2018				<0.005
3/27/2019		<0.005	<0.005	
3/28/2019				<0.005
8/20/2019		<0.005	<0.005	
8/21/2019				<0.005
10/8/2019		<0.005	<0.005	
10/9/2019				<0.005
4/7/2020		<0.005	<0.005	
4/8/2020				<0.005
8/18/2020		<0.005	<0.005	
8/19/2020				<0.005
9/29/2020		<0.005	<0.005	
10/1/2020				<0.005
12/1/2020	<0.005			
2/9/2021	<0.005	<0.005	<0.005	<0.005
9/8/2021	<0.005	<0.005	<0.005	
9/10/2021				0.0017 (J)
2/1/2022	<0.005	<0.005	<0.005	
2/2/2022				<0.005
8/30/2022			<0.005	
8/31/2022	<0.005	<0.005		<0.005
2/2/2023	<0.005			<0.005
2/3/2023		<0.005	<0.005	
8/9/2023	<0.005	<0.005		<0.005
8/10/2023			<0.005	
1/24/2024	<0.005	<0.005	<0.005	
1/25/2024				<0.005
8/20/2024	<0.005	<0.005		
8/21/2024			<0.005	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/3/2024 12:14 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-15	ARGWC-16	ARGWC-17	ARGWC-18
5/5/2009	0.0041			
5/12/2009		0.0062	0.0059	0.0039
12/4/2009	<0.005		<0.005	<0.005
12/5/2009		<0.005		
5/25/2010			<0.005	<0.005
5/26/2010		<0.005		
6/1/2010	<0.005			
11/9/2010		<0.005	<0.005	
11/10/2010	<0.005			<0.005
5/19/2011				<0.005
5/24/2011		<0.005	<0.005	
5/25/2011	<0.005			
11/9/2011	<0.005			
11/12/2011		<0.005	<0.005	<0.005
5/17/2012				0.0006 (J)
5/30/2012		0.0016 (J)	<0.005	
5/31/2012	<0.005			
11/9/2012		<0.005	<0.005	
11/10/2012	<0.005			<0.005
5/7/2013				<0.005
5/8/2013			<0.005	
5/13/2013	<0.005	<0.005		
11/5/2013				<0.005
11/6/2013		<0.005	<0.005	
11/12/2013	<0.005			
5/20/2014			<0.005	
5/21/2014		<0.005		
5/28/2014	<0.005			<0.005
11/17/2014		<0.005	<0.005	
11/19/2014				<0.005
11/20/2014	<0.005			
4/7/2015		<0.005	<0.005	
4/14/2015	<0.005			
4/15/2015				<0.005
10/28/2015		<0.005	<0.005	
10/29/2015				<0.005
11/3/2015	<0.005			
6/23/2016	<0.005			
6/24/2016		0.0014	<0.005	<0.005
9/1/2016		0.0014	<0.005	<0.005
9/2/2016	0.0005 (J)			
10/25/2016		0.0015 (J)	<0.005	
10/26/2016	<0.005			<0.005
1/26/2017	<0.005	0.00071 (J)	<0.005	
1/27/2017				<0.005
4/11/2017		0.0011 (J)	<0.005	
4/12/2017	<0.005			<0.005
6/21/2017	<0.005	0.00075 (J)	<0.005	<0.005
10/25/2017				<0.005
10/26/2017	0.0004 (J)	0.0012 (J)	<0.005	
4/10/2018	0.00044 (J)	0.0013	<0.005	
4/11/2018				<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/3/2024 12:14 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-15	ARGWC-16	ARGWC-17	ARGWC-18
10/16/2018		0.00072 (J)		
10/17/2018	<0.005		<0.005	<0.005
3/27/2019	<0.005			<0.005
3/28/2019		0.0017	<0.005	
8/20/2019		<0.005		
8/21/2019	<0.005		<0.005	<0.005
10/8/2019	<0.005			
10/9/2019		0.0018 (J)	<0.005	<0.005
4/8/2020	<0.005	0.0022 (J)	<0.005	
4/9/2020				<0.005
8/18/2020			<0.005	
8/19/2020	<0.005	0.0029 (J)		
8/20/2020				<0.005
9/29/2020	<0.005	0.0025 (J)	<0.005	
9/30/2020				<0.005
2/9/2021	<0.005	0.0019 (J)	<0.005	
2/10/2021				<0.005
9/8/2021	<0.005	0.0024 (J)	<0.005	
9/9/2021				<0.005
2/2/2022			0.00076 (J)	
2/3/2022	<0.005	0.0032 (J)		<0.005
8/31/2022	<0.005	0.00287 (J)		
9/2/2022			<0.005	<0.005
2/2/2023		0.00466 (J)		<0.005
2/3/2023	<0.005		<0.005	
8/9/2023			0.00231 (J)	
8/10/2023	<0.005	0.00421 (J)		<0.005
1/25/2024	<0.005	0.00555	<0.005	<0.005
8/21/2024	<0.005	0.00497 (J)	<0.005	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/3/2024 12:14 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	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		
5/13/2009			0.0049
5/14/2009	0.0046	0.0035	
12/1/2009	0.0019		
12/3/2009		<0.005	0.0045
5/26/2010	<0.005	<0.005	<0.005
11/9/2010		<0.005	<0.005
11/10/2010	<0.005		
5/18/2011		<0.005	
5/19/2011			<0.005
5/25/2011	<0.005		
11/11/2011	<0.005	<0.005	<0.005
5/17/2012	<0.005	<0.005	<0.005
11/9/2012	<0.005	<0.005	<0.005
5/7/2013		<0.005	<0.005
5/8/2013	<0.005		
11/5/2013	<0.005	<0.005	
11/6/2013			<0.005
5/21/2014	<0.005	<0.005	<0.005
11/17/2014	<0.005		
11/18/2014		<0.005	<0.005
4/7/2015	<0.005	<0.005	<0.005
10/28/2015	<0.005	<0.005	<0.005
6/23/2016	0.00029 (J)	<0.005	<0.005
8/31/2016	<0.005	<0.005	0.00024 (J)
10/25/2016	<0.005		<0.005
10/26/2016		<0.005	
1/26/2017	<0.005	<0.005	<0.005
4/12/2017	<0.005	<0.005	<0.005
6/21/2017		<0.005	
6/22/2017	<0.005		<0.005
10/25/2017	<0.005		0.00029 (J)
10/26/2017		<0.005	
4/10/2018	<0.005		
4/11/2018		<0.005	<0.005
10/17/2018	<0.005	<0.005	<0.005
3/28/2019	<0.005	<0.005	<0.005
8/21/2019	<0.005	<0.005	<0.005
10/9/2019	<0.005	<0.005	<0.005
4/8/2020	<0.005		
4/9/2020		<0.005	<0.005
8/18/2020	<0.005		
8/19/2020			<0.005
8/20/2020		<0.005	
9/29/2020	<0.005		
10/1/2020		<0.005	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/3/2024 12:14 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-7	ARGWC-8	ARGWC-9
2/10/2021	<0.005	<0.005	<0.005
9/9/2021		<0.005	<0.005
9/10/2021	0.0028 (J)		
2/2/2022		<0.005	<0.005
2/3/2022	<0.005		
8/31/2022	<0.005	<0.005	<0.005
2/2/2023	<0.005	<0.005	<0.005
8/10/2023	<0.005	<0.005	<0.005
1/25/2024	<0.005	<0.005	<0.005
8/21/2024	<0.005	<0.005	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Silver (mg/L) Analysis Run 10/3/2024 12:14 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARAMW-4	ARGWA-12 (bg)	ARGWA-13 (bg)	ARGWA-14 (bg)
5/6/2009		<0.001		
5/7/2009			<0.001	
12/3/2009		<0.001	<0.001	
5/25/2010		<0.001	<0.001	
6/2/2010				<0.001
11/9/2010		<0.001		
11/10/2010			<0.001	<0.001
5/19/2011				<0.001
5/24/2011		<0.001		
5/25/2011			<0.001	
5/18/2012		0.0001 (J)		
5/30/2012			<0.001	<0.001
11/9/2012		<0.001	<0.001	
11/11/2012				<0.001
5/8/2013		<0.001		
5/9/2013			<0.001	<0.001
11/6/2013		<0.001		
11/11/2013			<0.001	<0.001
5/20/2014		<0.001		
5/21/2014			<0.001	
5/29/2014				<0.001
11/18/2014		<0.001	<0.001	
11/19/2014				<0.001
4/7/2015			<0.001	
4/14/2015		<0.001		<0.001
10/28/2015			<0.001	
10/29/2015		<0.001		
11/4/2015				<0.001
6/23/2016		<0.001	<0.001	<0.001
10/24/2016		<0.001		
10/25/2016			<0.001	<0.001
4/11/2017		<0.001	<0.001	<0.001
10/25/2017		<0.001	0.00013 (J)	<0.001
4/9/2018			<0.001	<0.001
4/10/2018		<0.001		
10/16/2018		<0.001	<0.001	<0.001
3/26/2019			<0.001	
3/27/2019		<0.001		<0.001
10/7/2019				0.00022 (J)
10/8/2019		<0.001	0.00047 (J)	
4/6/2020				<0.001
4/7/2020		<0.001	<0.001	
9/29/2020		<0.001	<0.001	<0.001
9/30/2020	<0.001			
2/9/2021		<0.001	<0.001	
2/10/2021	<0.001			
2/11/2021				<0.001
9/7/2021		<0.001	<0.001	
9/8/2021	<0.001			<0.001
2/1/2022		<0.001	<0.001	
2/2/2022	<0.001			<0.001
8/30/2022		<0.001		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Silver (mg/L) Analysis Run 10/3/2024 12:14 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARAMW-4	ARGWA-12 (bg)	ARGWA-13 (bg)	ARGWA-14 (bg)
8/31/2022			<0.001	<0.001
9/2/2022	<0.001			
2/2/2023		<0.001		
2/3/2023			<0.001	
2/7/2023	<0.001			<0.001
8/9/2023	<0.001	<0.001	<0.001	
8/10/2023				<0.001
1/24/2024				<0.001
1/25/2024	<0.001	<0.001	<0.001	
8/20/2024		<0.001		
8/21/2024	<0.001		<0.001	
8/22/2024				<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Silver (mg/L) Analysis Run 10/3/2024 12:14 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-24 (bg)	ARGWA-3 (bg)	ARGWA-5 (bg)	ARGWC-10
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	
5/6/2009			<0.001	
5/7/2009		<0.001		
5/13/2009				0.0009
12/1/2009			<0.001	
12/3/2009				0.00083
12/4/2009		<0.001		
5/25/2010			<0.001	
5/26/2010				<0.001
6/1/2010		<0.001		
11/9/2010			<0.001	<0.001
11/10/2010		<0.001		
5/19/2011				<0.001
5/24/2011			<0.001	
5/25/2011		<0.001		
5/17/2012				<0.001
5/18/2012			<0.001	
5/31/2012		<0.001		
11/9/2012			<0.001	<0.001
11/11/2012		<0.001		
5/7/2013				<0.001
5/8/2013			<0.001	
5/13/2013		<0.001		
11/6/2013			<0.001	<0.001
11/12/2013		<0.001		
5/20/2014			<0.001	<0.001
5/29/2014		<0.001		
11/17/2014			<0.001	
11/18/2014				<0.001
4/7/2015			<0.001	<0.001
4/14/2015		<0.001		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Silver (mg/L) Analysis Run 10/3/2024 12:15 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-24 (bg)	ARGWA-3 (bg)	ARGWA-5 (bg)	ARGWC-10
10/28/2015			<0.001	<0.001
11/3/2015		<0.001		
6/23/2016		<0.001	<0.001	<0.001
10/25/2016		<0.001	<0.001	<0.001
4/11/2017		<0.001	<0.001	
4/12/2017				<0.001
10/25/2017		<0.001	<0.001	
10/26/2017				<0.001
4/10/2018		<0.001	<0.001	
4/11/2018				<0.001
10/16/2018		<0.001	<0.001	
10/17/2018				<0.001
3/27/2019		<0.001	<0.001	
3/28/2019				<0.001
10/8/2019		0.00019 (J)	0.0003 (J)	
10/9/2019				<0.001
4/7/2020		<0.001	<0.001	
4/8/2020				<0.001
9/29/2020		<0.001	<0.001	
10/1/2020				<0.001
12/1/2020	<0.001 (D)			
2/9/2021	<0.001	<0.001	<0.001	<0.001
9/8/2021	<0.001	<0.001	<0.001	
9/10/2021				<0.001
2/1/2022	<0.001	<0.001	<0.001	
2/2/2022				<0.001
8/30/2022			<0.001	
8/31/2022	<0.001	<0.001		<0.001
2/2/2023	<0.001			<0.001
2/3/2023		<0.001	<0.001	
8/9/2023	<0.001	<0.001		<0.001
8/10/2023			<0.001	
1/24/2024	<0.001	<0.001	<0.001	
1/25/2024				<0.001
8/20/2024	<0.001	<0.001		
8/21/2024			<0.001	<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Silver (mg/L) Analysis Run 10/3/2024 12:15 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-15	ARGWC-16	ARGWC-17	ARGWC-18
5/5/2009	<0.001			
5/12/2009		0.0011	0.0011	<0.001
12/4/2009	0.00098		0.0014	0.0008
12/5/2009		0.0004		
5/25/2010			<0.001	<0.001
5/26/2010		<0.001		
6/1/2010	<0.001			
11/9/2010		<0.001	<0.001	
11/10/2010	<0.001			<0.001
5/19/2011				<0.001
5/24/2011		<0.001	<0.001	
5/25/2011	<0.001			
5/17/2012				<0.001
5/30/2012		<0.001	<0.001	
5/31/2012	<0.001			
11/9/2012		<0.001	<0.001	
11/10/2012	<0.001			<0.001
5/7/2013				<0.001
5/8/2013			<0.001	
5/13/2013	<0.001	<0.001		
11/5/2013				<0.001
11/6/2013		<0.001	<0.001	
11/12/2013	<0.001			
5/20/2014			<0.001	
5/21/2014		<0.001		
5/28/2014	<0.001			<0.001
11/17/2014		<0.001	<0.001	
11/19/2014				<0.001
11/20/2014	<0.001			
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	<0.001			
6/23/2016	<0.001			
6/24/2016		<0.001	<0.001	<0.001
10/25/2016		<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
10/25/2017				<0.001
10/26/2017	0.00037 (J)	0.00026 (J)	<0.001	
4/10/2018	<0.001	<0.001	<0.001	
4/11/2018				<0.001
10/16/2018		<0.001		
10/17/2018	<0.001		<0.001	<0.001
3/27/2019	<0.001			<0.001
3/28/2019		<0.001	<0.001	
10/8/2019	0.00018 (J)			
10/9/2019		<0.001	<0.001	<0.001
4/8/2020	<0.001	<0.001	<0.001	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Silver (mg/L) Analysis Run 10/3/2024 12:15 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-15	ARGWC-16	ARGWC-17	ARGWC-18
4/9/2020				<0.001
9/29/2020	<0.001	<0.001	<0.001	
9/30/2020				<0.001
2/9/2021	<0.001	<0.001	<0.001	
2/10/2021				<0.001
9/8/2021	<0.001	<0.001	<0.001	
9/9/2021				<0.001
2/2/2022			<0.001	
2/3/2022	<0.001	<0.001		<0.001
8/31/2022	<0.001	<0.001		
9/2/2022			<0.001	<0.001
2/2/2023		<0.001		<0.001
2/3/2023	<0.001		<0.001	
8/9/2023			<0.001	
8/10/2023	<0.001	<0.001		<0.001
1/25/2024	<0.001	<0.001	<0.001	<0.001
8/21/2024	<0.001	<0.001	<0.001	<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Silver (mg/L) Analysis Run 10/3/2024 12:15 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	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		
5/13/2009			0.0024 (o)
5/14/2009	<0.001	<0.001	
12/1/2009	<0.001		
12/3/2009		<0.001	0.0007
5/26/2010	<0.001	<0.001	<0.001
11/9/2010		<0.001	<0.001
11/10/2010	<0.001		
5/18/2011		<0.001	
5/19/2011			<0.001
5/25/2011	<0.001		
5/17/2012	<0.001	<0.001	<0.001
11/9/2012	<0.001	<0.001	<0.001
5/7/2013		<0.001	<0.001
5/8/2013	<0.001		
11/5/2013	<0.001	<0.001	
11/6/2013			<0.001
5/21/2014	<0.001	<0.001	<0.001
11/17/2014	<0.001		
11/18/2014		<0.001	<0.001
4/7/2015	<0.001	<0.001	<0.001
10/28/2015	<0.001	<0.001	<0.001
6/23/2016	<0.001	<0.001	<0.001
10/25/2016	<0.001		<0.001
10/26/2016		<0.001	
4/12/2017	<0.001	<0.001	<0.001
10/25/2017	<0.001		<0.001
10/26/2017		<0.001	
4/10/2018	<0.001		
4/11/2018		<0.001	<0.001
10/17/2018	<0.001	<0.001	<0.001
3/28/2019	<0.001	<0.001	<0.001
10/9/2019	<0.001	<0.001	<0.001
4/8/2020	<0.001		
4/9/2020		<0.001	<0.001
9/29/2020	<0.001		
10/1/2020		<0.001	<0.001
2/10/2021	<0.001	<0.001	<0.001
9/9/2021		<0.001	<0.001
9/10/2021	<0.001		
2/2/2022		<0.001	<0.001
2/3/2022	<0.001		
8/31/2022	<0.001	<0.001	<0.001
2/2/2023	<0.001	<0.001	<0.001
8/10/2023	<0.001	<0.001	<0.001
1/25/2024	<0.001	<0.001	<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Silver (mg/L) Analysis Run 10/3/2024 12:15 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-7	ARGWC-8	ARGWC-9
8/21/2024	<0.001	<0.001	<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Sulfate (mg/L) Analysis Run 10/3/2024 12:15 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARAMW-4	ARGWA-12 (bg)	ARGWA-13 (bg)	ARGWA-14 (bg)
5/6/2009		16.6		
5/7/2009			21.4	
12/3/2009		12.3	11.6	
5/25/2010		6.44	12.3	
6/2/2010				129
11/9/2010		6.83		
11/10/2010			10.6	140
5/19/2011				269
5/24/2011		8.55		
5/25/2011			11.9	
11/9/2011				308
11/10/2011		9.74	100	
5/18/2012		8.72		
5/30/2012			61.3	296
11/9/2012		5.9	202	
11/11/2012				225
5/8/2013		5.66		
5/9/2013			33.4	268
11/6/2013		9.04		
11/11/2013			316	132
5/20/2014		7.25		
5/21/2014			162	
5/29/2014				216
11/18/2014		10	370	
11/19/2014				160
4/7/2015			235	
4/14/2015		9.61		105
10/28/2015			737	
10/29/2015		10.2		
11/4/2015				74.4
6/23/2016		9.8	380	18
8/30/2016		9.5		
8/31/2016			600	19
10/24/2016		11		
10/25/2016			820	42
1/23/2017		11		12
1/24/2017			370	
4/11/2017		9.1	340	7.1
6/20/2017				8.5
6/21/2017		10	540	
10/25/2017		11	580	9.1
4/9/2018			230	11
4/10/2018		9.5		
10/16/2018		10	520	14
3/26/2019			430	
3/27/2019		9.1		15
10/7/2019				12
10/8/2019		55	950	
4/6/2020				10
4/7/2020		8	270	
6/24/2020	860			
6/25/2020			410	3.3

Time Series

Constituent: Sulfate (mg/L) Analysis Run 10/3/2024 12:15 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARAMW-4	ARGWA-12 (bg)	ARGWA-13 (bg)	ARGWA-14 (bg)
6/26/2020		9		
9/29/2020		8.3	540	4.1
9/30/2020	790			
2/9/2021		11	520	
2/10/2021	1000			
2/11/2021				10
9/7/2021		9	870	
9/8/2021	1100			3
2/1/2022		7.8	360	
2/2/2022	1000			8.6
8/30/2022		7.11		
8/31/2022			855	2.58
9/2/2022	1080			
2/2/2023		6.71		
2/3/2023			209	
2/7/2023	1110			2.52
8/9/2023	1140	6.19	784	
8/10/2023				14.4
1/24/2024				8.23
1/25/2024	1330	7.05	537	
8/20/2024		5.98		
8/21/2024	1310		741	
8/22/2024				5.41

Time Series

Constituent: Sulfate (mg/L) Analysis Run 10/3/2024 12:15 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-24 (bg)	ARGWA-3 (bg)	ARGWA-5 (bg)	ARGWC-10
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	
5/6/2009			0.807	
5/7/2009		0.46		
5/13/2009				0.984
12/1/2009			0.644	
12/3/2009				0.544
12/4/2009		1.06		
5/25/2010			0.509	
5/26/2010				0.37
6/1/2010		5.56		
11/9/2010			0.348	0.299
11/10/2010		0.241		
5/19/2011				0.502
5/24/2011			0.532	
5/25/2011		0.383		
11/10/2011			0.209	
11/11/2011				0.172
11/12/2011		<1		
5/17/2012				0.438
5/18/2012			0.471	
5/31/2012		0.426		
11/9/2012			0.589	0.537
11/11/2012		0.455 (J)		
5/7/2013				0.437
5/8/2013			0.504	
5/13/2013		2.61		
11/6/2013			<1	<1
11/12/2013		<1		
5/20/2014			0.5 (J)	0
5/29/2014		1.41		
11/17/2014			<1	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Sulfate (mg/L) Analysis Run 10/3/2024 12:15 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-24 (bg)	ARGWA-3 (bg)	ARGWA-5 (bg)	ARGWC-10
11/18/2014				<1
4/7/2015			0.469	0.464
4/14/2015		0.377		
10/28/2015			0.28	0.293
11/3/2015		0.215		
6/23/2016		<1	<1	<1
8/30/2016			<1	
8/31/2016		<1		
9/1/2016				<1
10/25/2016		0.3 (J)	0.4 (J)	0.38 (J)
1/24/2017		<1	<1	
1/27/2017				<1
4/11/2017		<1	<1	
4/12/2017				<1
6/20/2017		<1	<1	
6/22/2017				<1
10/25/2017		<1	<1	
10/26/2017				<1
4/10/2018		<1	<1	
4/11/2018				<1
10/16/2018		<1	<1	
10/17/2018				<1
3/27/2019		0.38 (J)	0.55 (J)	
3/28/2019				0.38 (J)
10/8/2019		0.7 (J)	0.7 (J)	
10/9/2019				0.59 (J)
4/7/2020		0.67 (J)	<1	
4/8/2020				<1
6/23/2020				<1
6/25/2020		1.6	<1	
9/29/2020		<1	<1	
10/1/2020				<1
12/1/2020	7.5			
2/9/2021	8.5	<1	<1	1.3
9/8/2021	6.8	<1	<1	
9/10/2021				<1
2/1/2022	6.8	1.4	0.77 (J)	
2/2/2022				<1
8/30/2022			0.519	
8/31/2022	6.94	0.399 (J)		0.494
2/2/2023	6.22			0.529
2/3/2023		0.448	0.5	
8/9/2023	6.34	0.419		0.541
8/10/2023			0.581	
1/24/2024	5.18	0.371 (J)	0.525	
1/25/2024				0.519
8/20/2024	5.37	0.406		
8/21/2024			0.536	0.492

Time Series

Constituent: Sulfate (mg/L) Analysis Run 10/3/2024 12:15 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-15	ARGWC-16	ARGWC-17	ARGWC-18
5/5/2009	2.89			
5/12/2009		57.9	42.6	173
12/4/2009	3.13		58.4	195
12/5/2009		72.1		
5/25/2010			79.4	199
5/26/2010		70.3		
6/1/2010	14.5			
11/9/2010		74.8	111	
11/10/2010	5.04			189
5/19/2011				186
5/24/2011		87.2	171	
5/25/2011	4.57			
11/9/2011	4.15			
11/12/2011		97.9	182	49.9
5/17/2012				177
5/30/2012		103	194	
5/31/2012	4.05			
11/9/2012		140	842 (o)	
11/10/2012	5.68			184
5/7/2013				195
5/8/2013			173	
5/13/2013	2.45	160		
11/5/2013				178
11/6/2013		146	471 (o)	
11/12/2013	11.8			
5/20/2014			145	
5/21/2014		217		
5/28/2014	14.6			201
11/17/2014		97	110	
11/19/2014				150
11/20/2014	12			
4/7/2015		125	145	
4/14/2015	8.71			
4/15/2015				195
10/28/2015		106	82.7	
10/29/2015				147
11/3/2015	5.14			
6/23/2016	6.9			
6/24/2016		170	79	200
9/1/2016		130	94	200
9/2/2016	6.1			
10/25/2016		200	73	
10/26/2016	22			200
1/26/2017	5.1	130	110	
1/27/2017				200
4/11/2017		150	77	
4/12/2017	4			190
6/21/2017	4.6	130	75	200
10/25/2017				190
10/26/2017	5.4	110	61	
4/10/2018	6.7	130	58	
4/11/2018				200

Time Series

Constituent: Sulfate (mg/L) Analysis Run 10/3/2024 12:15 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-15	ARGWC-16	ARGWC-17	ARGWC-18
10/16/2018		84		
10/17/2018	6.8		47	190
3/27/2019	7.2			190
3/28/2019		220	59	
10/8/2019	31			
10/9/2019		210	57	180
4/8/2020	5.9	200	47	
4/9/2020				190
6/24/2020		310	67	190
6/25/2020	5.6			
9/29/2020	7.7	200	66	
9/30/2020				170
2/9/2021	7.1	190	73	
2/10/2021				220
9/8/2021	6.2	160	79	
9/9/2021				190
2/2/2022			74	
2/3/2022	5.6	250		200
8/31/2022	5.64	243		
9/2/2022			151	198
2/2/2023		348		195
2/3/2023	4.35		118	
8/9/2023			237	
8/10/2023	6.91	328		194
1/25/2024	4.79	372	142	208
8/21/2024	4.47	350	143	199

Time Series

Constituent: Sulfate (mg/L) Analysis Run 10/3/2024 12:15 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	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		
5/13/2009			0.938
5/14/2009	157	109	
12/1/2009	142		
12/3/2009		107	0.422
5/26/2010	120	109	0.262
11/9/2010		100	<0.17
11/10/2010	100		
5/18/2011		110	
5/19/2011			0.359
5/25/2011	88.8		
11/11/2011	96.6	107	<0.17
5/17/2012	88.9	98	0.398
11/9/2012	70.1	90.4	0.545
5/7/2013		96.2	0.797
5/8/2013	80.5		
11/5/2013	71.6	86.9	
11/6/2013			0.86
5/21/2014	80.4	106	1.02
11/17/2014	71		
11/18/2014		99	1.2
4/7/2015	70.6	82.3	1.14
10/28/2015	12.2	78	1.02
6/23/2016	61	78	1
8/31/2016	57	72	1.1
10/25/2016	56		4.7 (o)
10/26/2016		77	
1/26/2017	57	75	1.1
4/12/2017	47	69	0.9 (J)
6/21/2017		73	
6/22/2017	49		0.99 (J)
10/25/2017	49		0.95 (J)
10/26/2017		72	
4/10/2018	46		
4/11/2018		69	0.9 (J)
10/17/2018	42	67	0.95 (J)
3/28/2019	45	66	1
10/9/2019	42	63	1.5
4/8/2020	39		
4/9/2020		59	1.1
6/23/2020		62	
6/25/2020	42		
6/26/2020			0.94 (J)
9/29/2020	38		
10/1/2020		57	0.82 (J)
2/10/2021	43	60	1.7

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Sulfate (mg/L) Analysis Run 10/3/2024 12:15 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-7	ARGWC-8	ARGWC-9
9/9/2021		58	1.2
9/10/2021	39		
2/2/2022		59	1.4
2/3/2022	21		
8/31/2022	36.3	54.1	1.31
2/2/2023	35	53.2	1.46
8/10/2023	34.5	52.3	1.45
1/25/2024	35.2	52.7	1.49
8/21/2024	32.1	48.7	1.42

Time Series

Constituent: Thallium (mg/L) Analysis Run 10/3/2024 12:15 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARAMW-4	ARGWA-12 (bg)	ARGWA-13 (bg)	ARGWA-14 (bg)
8/30/2016		<0.002		
8/31/2016			<0.002	<0.002
10/24/2016		<0.002		
10/25/2016			<0.002	<0.002
1/23/2017		<0.002		<0.002
1/24/2017			<0.002	
4/11/2017		<0.002	<0.002	<0.002
6/20/2017				<0.002
6/21/2017		<0.002	<0.002	
10/25/2017		<0.002	<0.002	<0.002
4/9/2018			<0.002	<0.002
4/10/2018		<0.002		
10/16/2018		<0.002	<0.002	<0.002
8/19/2019			<0.002	
8/20/2019		<0.002		
8/21/2019				<0.002
10/7/2019				<0.002
10/8/2019		<0.002	<0.002	
4/6/2020				<0.002
4/7/2020		<0.002	<0.002	
8/18/2020		<0.002	<0.002	
8/19/2020				<0.002
8/20/2020	0.00022 (J)			
9/29/2020		<0.002	<0.002	0.00019 (J)
9/30/2020	<0.002			
2/9/2021		<0.002	<0.002	
2/10/2021	<0.002			
2/11/2021				<0.002
9/7/2021		<0.002	<0.002	
9/8/2021	<0.002			<0.002
2/1/2022		<0.002	<0.002	
2/2/2022	<0.002			<0.002
8/30/2022		<0.002		
8/31/2022			<0.002	<0.002
9/2/2022	<0.002			
2/2/2023		<0.002		
2/3/2023			<0.002	
2/7/2023	<0.002			<0.002
8/9/2023	<0.002	<0.002	<0.002	
8/10/2023				<0.002
1/24/2024				<0.002
1/25/2024	<0.002	<0.002	<0.002	
8/20/2024		<0.002		
8/21/2024	<0.002		<0.002	
8/22/2024				<0.002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 10/3/2024 12:15 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-24 (bg)	ARGWA-3 (bg)	ARGWA-5 (bg)	ARGWC-10
8/30/2016			<0.002	
8/31/2016		<0.002		
9/1/2016				<0.002
10/25/2016		<0.002	<0.002	<0.002
1/24/2017		<0.002	<0.002	
1/27/2017				<0.002
4/11/2017		<0.002	<0.002	
4/12/2017				<0.002
6/20/2017		<0.002	<0.002	
6/22/2017				<0.002
10/25/2017		<0.002	<0.002	
10/26/2017				<0.002
4/10/2018		<0.002	<0.002	
4/11/2018				<0.002
10/16/2018		<0.002	<0.002	
10/17/2018				<0.002
8/20/2019		0.0002 (J)	0.00023 (J)	
8/21/2019				<0.002
10/8/2019		<0.002	<0.002	
10/9/2019				<0.002
4/7/2020		<0.002	0.00015 (J)	
4/8/2020				<0.002
8/18/2020		0.00036 (J)	0.00021 (J)	
8/19/2020				<0.002
9/29/2020		<0.002	0.00019 (J)	
10/1/2020				<0.002
12/1/2020	<0.002			
2/9/2021	<0.002	<0.002	<0.002	<0.002
9/8/2021	<0.002	<0.002	<0.002	
9/10/2021				<0.002
2/1/2022	<0.002	<0.002	<0.002	
2/2/2022				<0.002
8/30/2022			<0.002	
8/31/2022	<0.002	<0.002		<0.002
2/2/2023	<0.002			<0.002
2/3/2023		<0.002	<0.002	
8/9/2023	<0.002	<0.002		<0.002
8/10/2023			<0.002	
1/24/2024	<0.002	<0.002	<0.002	
1/25/2024				<0.002
8/20/2024	<0.002	<0.002		
8/21/2024			<0.002	<0.002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 10/3/2024 12:15 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-15	ARGWC-16	ARGWC-17	ARGWC-18
9/1/2016		<0.002	<0.002	<0.002
9/2/2016	9.5E-05 (J)			
10/25/2016		<0.002	<0.002	
10/26/2016	<0.002			<0.002
1/26/2017	<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
6/21/2017	<0.002	<0.002	<0.002	<0.002
10/25/2017				<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
10/16/2018		<0.002		
10/17/2018	<0.002		<0.002	<0.002
8/20/2019		<0.002		
8/21/2019	<0.002		<0.002	<0.002
10/8/2019	<0.002			
10/9/2019		<0.002	<0.002	<0.002
4/8/2020	<0.002	<0.002	<0.002	
4/9/2020				<0.002
8/18/2020			<0.002	
8/19/2020	<0.002	0.00027 (J)		
8/20/2020				<0.002
9/29/2020	<0.002	0.00025 (J)	<0.002	
9/30/2020				<0.002
2/9/2021	<0.002	<0.002	<0.002	
2/10/2021				<0.002
9/8/2021	<0.002	0.00025 (J)	0.00063 (J)	
9/9/2021				0.00028 (J)
2/2/2022			<0.002	
2/3/2022	<0.002	<0.002		<0.002
8/31/2022	<0.002	<0.002		
9/2/2022			<0.002	<0.002
2/2/2023		<0.002		<0.002
2/3/2023	<0.002		<0.002	
8/9/2023			<0.002	
8/10/2023	<0.002	<0.002		<0.002
1/25/2024	<0.002	<0.002	<0.002	<0.002
8/21/2024	<0.002	<0.002	<0.002	<0.002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 10/3/2024 12:15 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-7	ARGWC-8	ARGWC-9
8/31/2016	<0.002	<0.002	<0.002
10/25/2016	<0.002		<0.002
10/26/2016		<0.002	
1/26/2017	<0.002	<0.002	<0.002
4/12/2017	<0.002	<0.002	<0.002
6/21/2017		<0.002	
6/22/2017	<0.002		<0.002
10/25/2017	<0.002		<0.002
10/26/2017		<0.002	
4/10/2018	<0.002		
4/11/2018		<0.002	<0.002
10/17/2018	<0.002	<0.002	<0.002
8/21/2019	<0.002	<0.002	<0.002
10/9/2019	<0.002	<0.002	<0.002
4/8/2020	<0.002		
4/9/2020		<0.002	<0.002
8/18/2020	<0.002		
8/19/2020			<0.002
8/20/2020		<0.002	
9/29/2020	<0.002		
10/1/2020		<0.002	<0.002
2/10/2021	<0.002	<0.002	<0.002
9/9/2021		<0.002	<0.002
9/10/2021	<0.002		
2/2/2022		<0.002	<0.002
2/3/2022	<0.002		
8/31/2022	<0.002	<0.002	<0.002
2/2/2023	<0.002	<0.002	<0.002
8/10/2023	<0.002	<0.002	<0.002
1/25/2024	<0.002	<0.002	<0.002
8/21/2024	<0.002	<0.002	<0.002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 10/3/2024 12:15 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARAMW-4	ARGWA-12 (bg)	ARGWA-13 (bg)	ARGWA-14 (bg)
8/30/2016		100		
8/31/2016			1000	330
10/24/2016		136		
10/25/2016			1280	459
1/23/2017		16		340
1/24/2017			590	
4/11/2017		120	610	300
6/20/2017				210
6/21/2017		140	880	
10/25/2017		120	900	280
4/9/2018			440	280
4/10/2018		130		
10/16/2018		150	910	48
3/26/2019			750	
3/27/2019		110		330
10/7/2019				230
10/8/2019		130	1500	
4/6/2020				280
4/7/2020		120	480	
9/29/2020		130	880	210
9/30/2020	1300			
2/9/2021		140	890	
2/10/2021	1500			
2/11/2021				290
9/7/2021		140	1500	
9/8/2021	1700			170
2/1/2022		130	600	
2/2/2022	1600			310
8/30/2022		139		
8/31/2022			1290	177
9/2/2022	1610			
2/2/2023		128		
2/3/2023			377	
2/7/2023	1690			144
8/9/2023	1820	110	1240	
8/10/2023				301
1/24/2024				304
1/25/2024	1920	117	815	
8/20/2024		120		
8/21/2024	1860		1250	
8/22/2024				309

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 10/3/2024 12:15 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-24 (bg)	ARGWA-3 (bg)	ARGWA-5 (bg)	ARGWC-10
8/30/2016			58	
8/31/2016		80		
9/1/2016				100
10/25/2016		65	34	65
1/24/2017		70	120	
1/27/2017				86
4/11/2017		64	76	
4/12/2017				110
6/20/2017		52	36	
6/22/2017				82
10/25/2017		72	64	
10/26/2017				38
4/10/2018		86	60	
4/11/2018				50
10/16/2018		74	54	
10/17/2018				120
3/27/2019		69	61	
3/28/2019				82
10/8/2019		66	68	
10/9/2019				92
4/7/2020		64	65	
4/8/2020				82
9/29/2020		62	61	
10/1/2020				93
12/1/2020	120			
2/9/2021	110	62	73	81
9/8/2021	120	79	86	
9/10/2021				100
2/1/2022	120	75	76	
2/2/2022				96
8/30/2022			81	
8/31/2022	122	65		69
2/2/2023	90			84
2/3/2023		63	76	
8/9/2023	88	50		72
8/10/2023			105	
1/24/2024	121	81	107	
1/25/2024				88
8/20/2024	95	80		
8/21/2024			127	90

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 10/3/2024 12:15 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-15	ARGWC-16	ARGWC-17	ARGWC-18
9/1/2016		240	220	450
9/2/2016	150			
10/25/2016		304	114	
10/26/2016	125			404
1/26/2017	86	170	170	
1/27/2017				460
4/11/2017		260	160	
4/12/2017	140			430
6/21/2017	120	230	140	430
10/25/2017				380
10/26/2017	96	170	120	
4/10/2018	130	260	110	
4/11/2018				430
10/16/2018		140		
10/17/2018	160		140	470
3/27/2019	150			430
3/28/2019		370	120	
10/8/2019	130			
10/9/2019		350	120	420
4/8/2020	130	350	91	
4/9/2020				440
9/29/2020	130	340	140	
9/30/2020				390
2/9/2021	140	310	160 (D)	
2/10/2021				460
9/8/2021	150	280	150	
9/9/2021				480
2/2/2022			150	
2/3/2022	150	400		450
8/31/2022	125	375		
9/2/2022			240	444
2/2/2023		545		446
2/3/2023	117		174	
8/9/2023			360	
8/10/2023	142	537		444
1/25/2024	129	547	219	446
8/21/2024	168	601	235	460

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 10/3/2024 12:15 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-7	ARGWC-8	ARGWC-9
8/31/2016	150	310	74
10/25/2016	171		67
10/26/2016		283	
1/26/2017	120	300	84
4/12/2017	150	310	88
6/21/2017		300	
6/22/2017	130		76
10/25/2017	130		60
10/26/2017		270	
4/10/2018	140		
4/11/2018		240	24
10/17/2018	180	120	96
3/28/2019	130	290	77
10/9/2019	130	290	75
4/8/2020	130		
4/9/2020		270	70
9/29/2020	140		
10/1/2020		270	55
2/10/2021	110	270	71
9/9/2021		270	70
9/10/2021	130		
2/2/2022		260	67
2/3/2022	120		
8/31/2022	101	248	63
2/2/2023	106	249	77
8/10/2023	101	234	50
1/25/2024	97	240	53
8/21/2024	119	266	74

FIGURE B.

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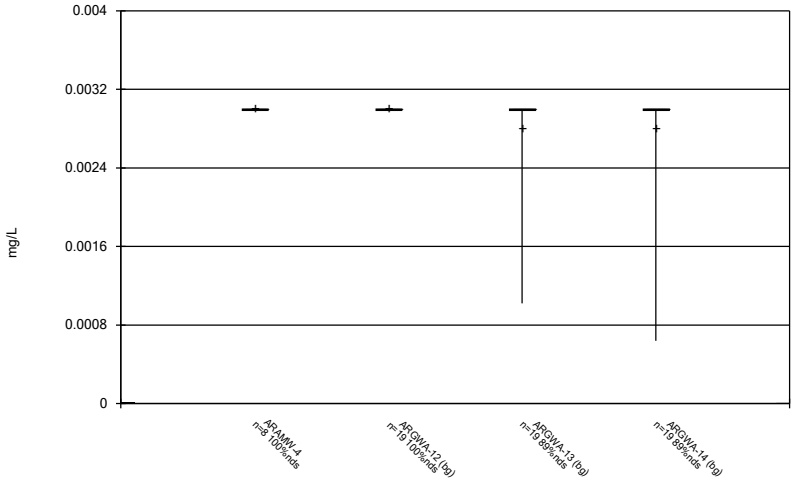
Box & Whiskers Plot



Constituent: Antimony Analysis Run 10/3/2024 12:16 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

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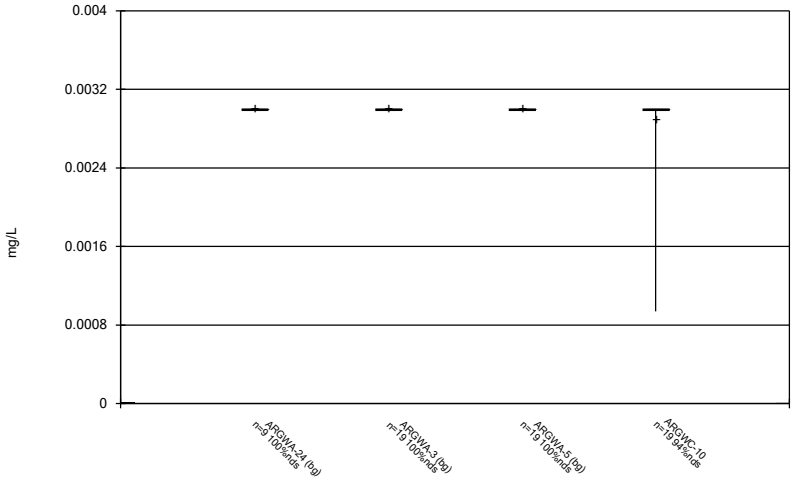
Box & Whiskers Plot



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Plant Arkwright Client: Southern Company Data: Arkwright No 3

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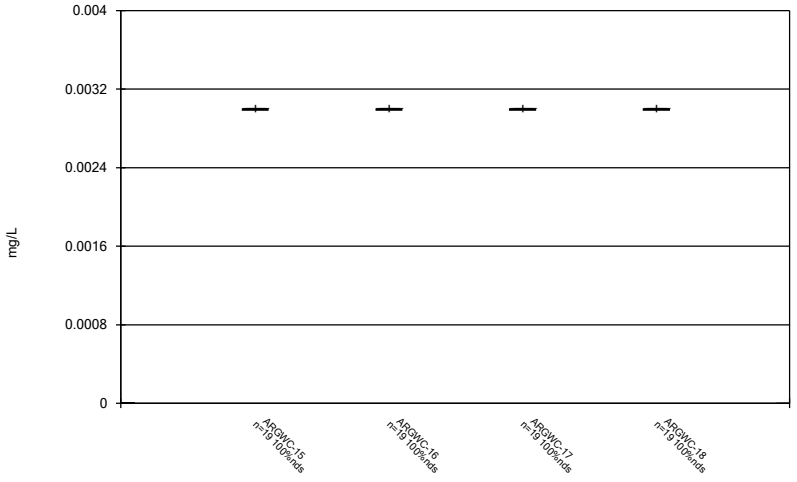
Box & Whiskers Plot



Constituent: Antimony Analysis Run 10/3/2024 12:16 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

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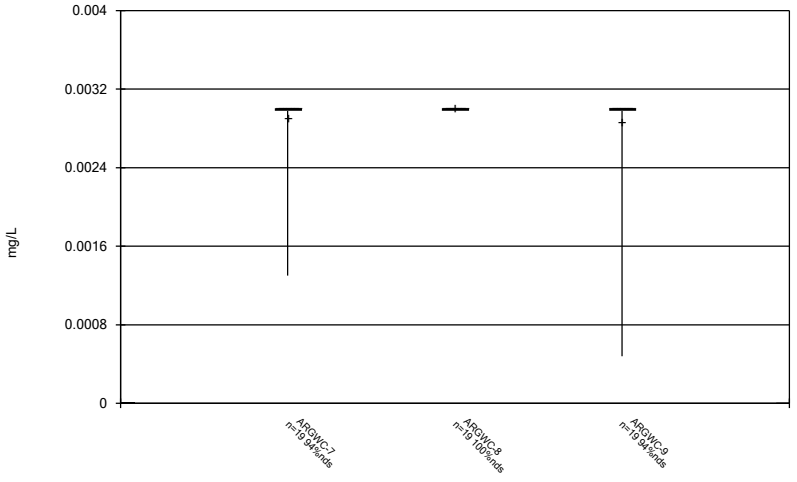

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Plant Arkwright Client: Southern Company Data: Arkwright No 3

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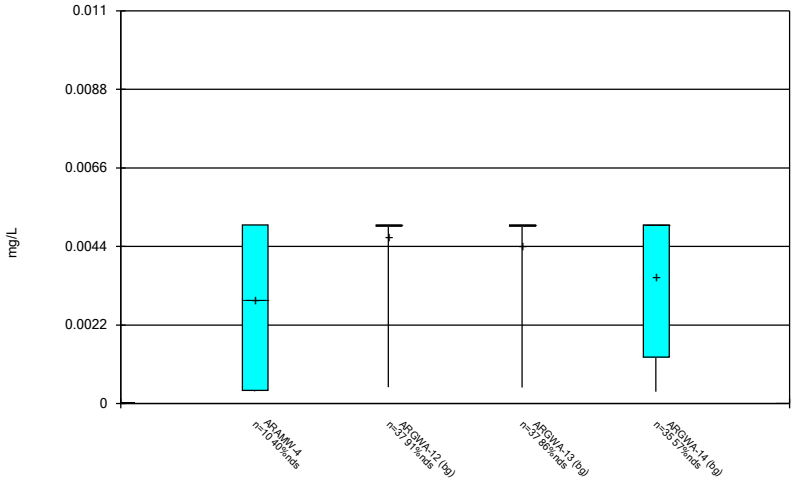
Box & Whiskers Plot



Constituent: Arsenic Analysis Run 10/3/2024 12:16 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

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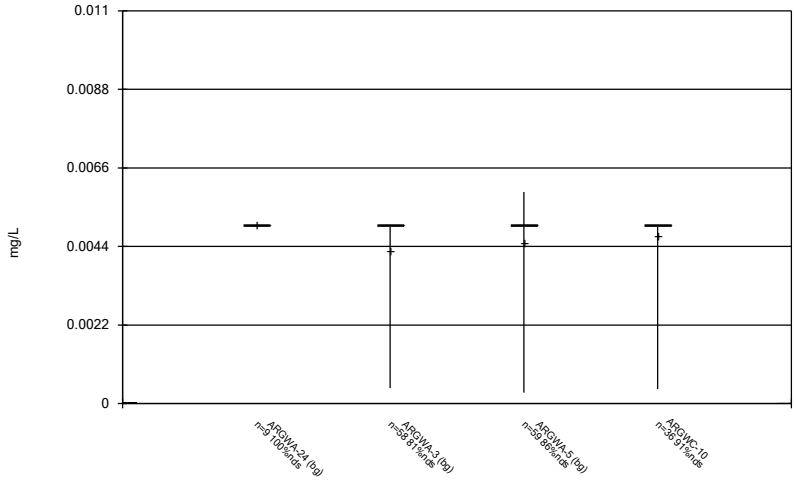
Box & Whiskers Plot



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Plant Arkwright Client: Southern Company Data: Arkwright No 3

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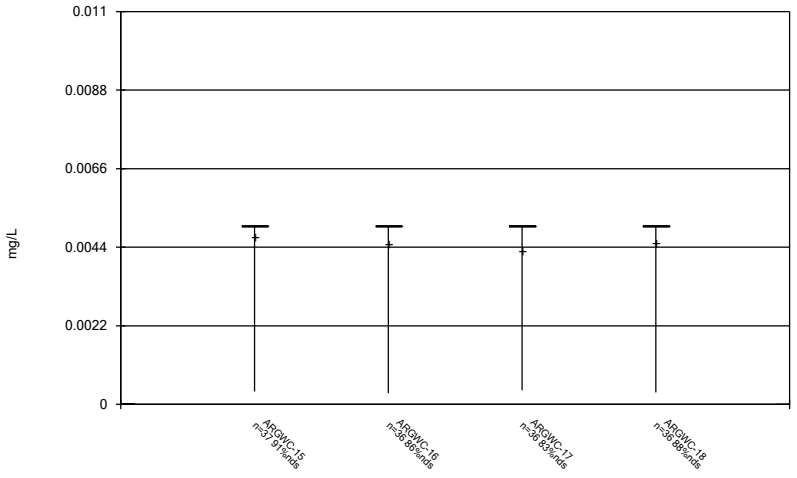
Box & Whiskers Plot



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Plant Arkwright Client: Southern Company Data: Arkwright No 3

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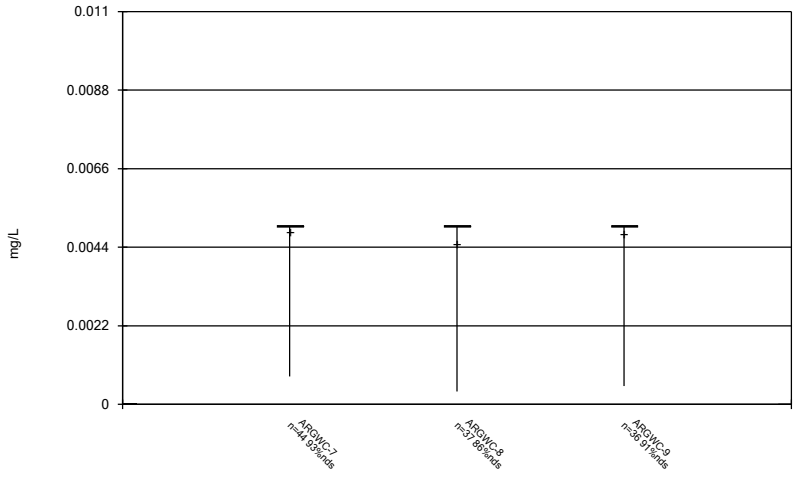
Box & Whiskers Plot



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Plant Arkwright Client: Southern Company Data: Arkwright No 3

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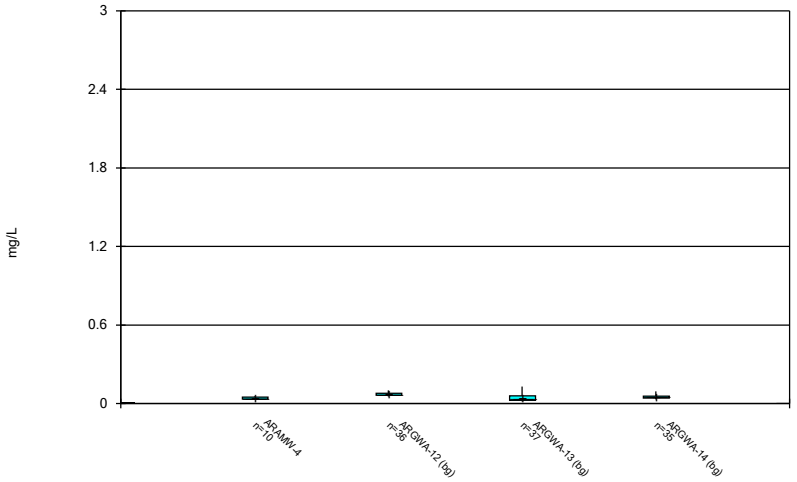
Box & Whiskers Plot



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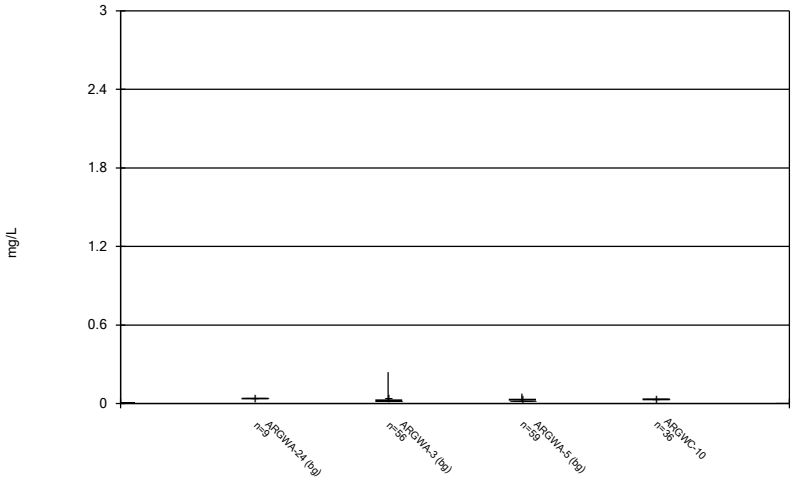

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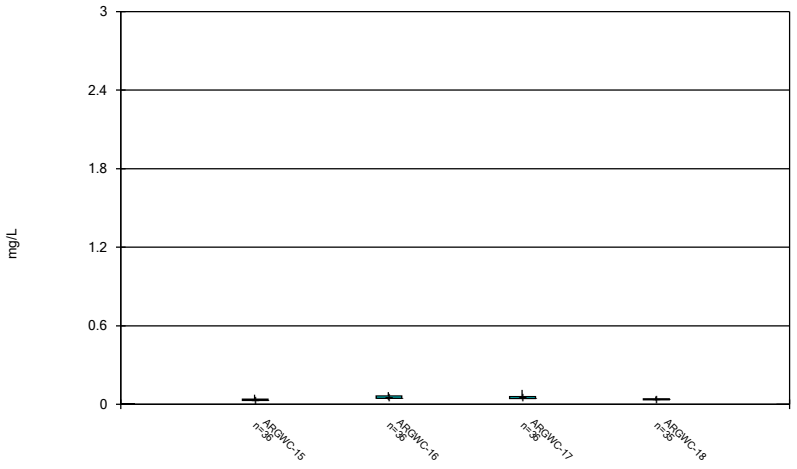

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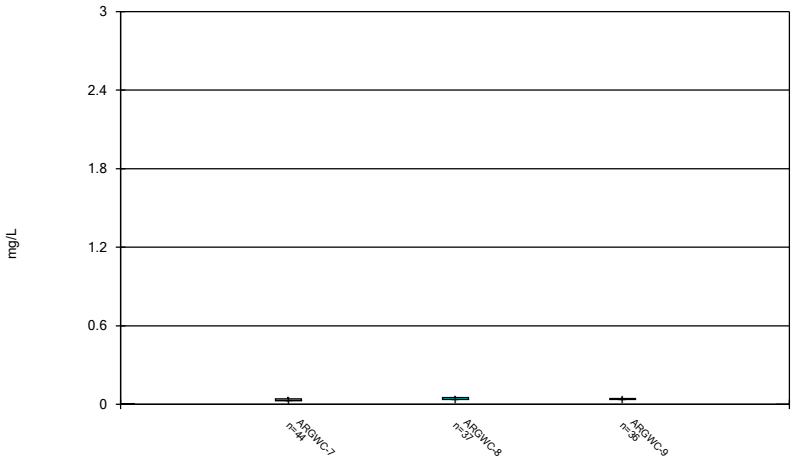
Box & Whiskers Plot



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Plant Arkwright Client: Southern Company Data: Arkwright No 3

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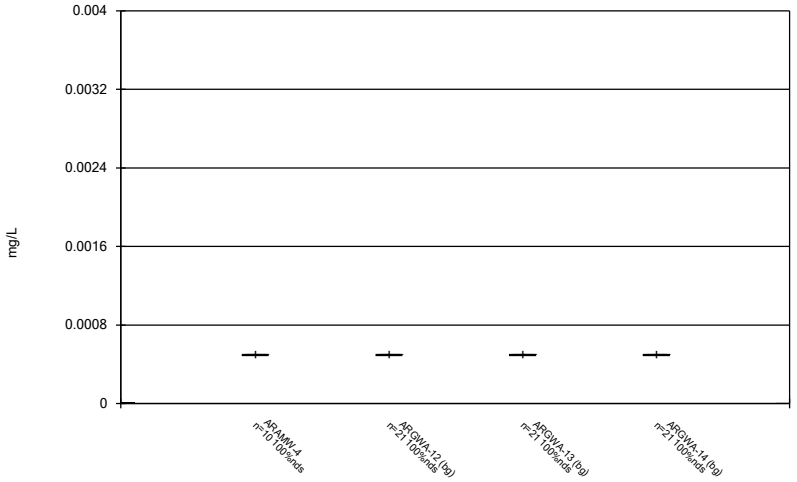

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Plant Arkwright Client: Southern Company Data: Arkwright No 3

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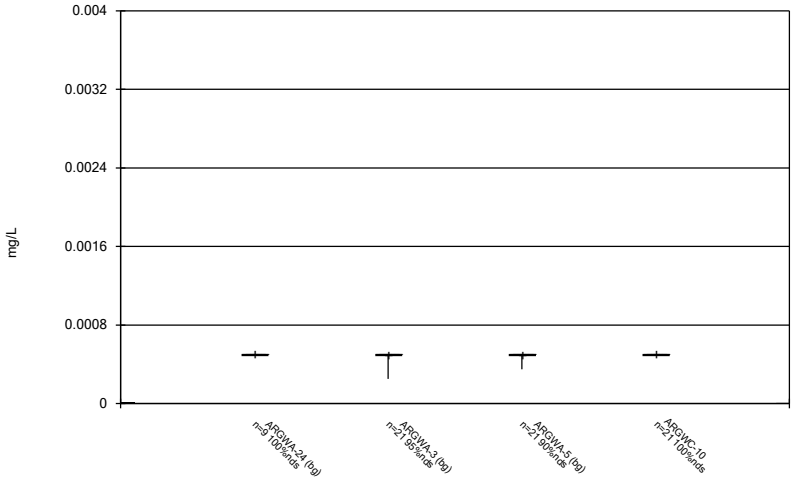
Box & Whiskers Plot



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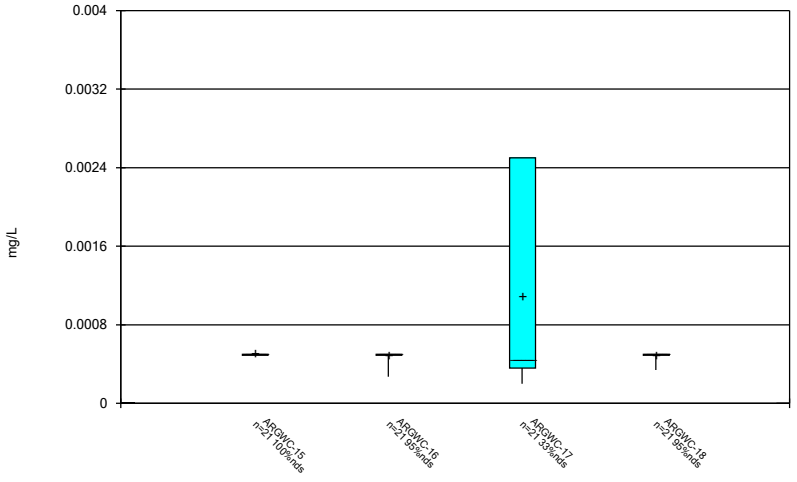

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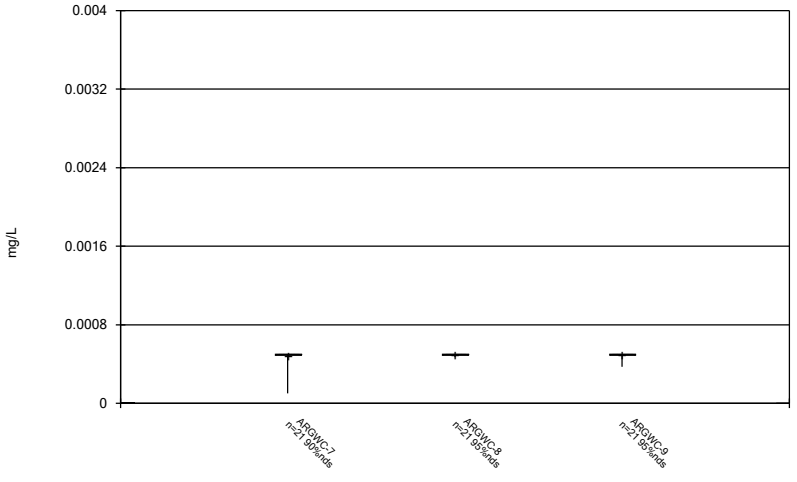

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Plant Arkwright Client: Southern Company Data: Arkwright No 3

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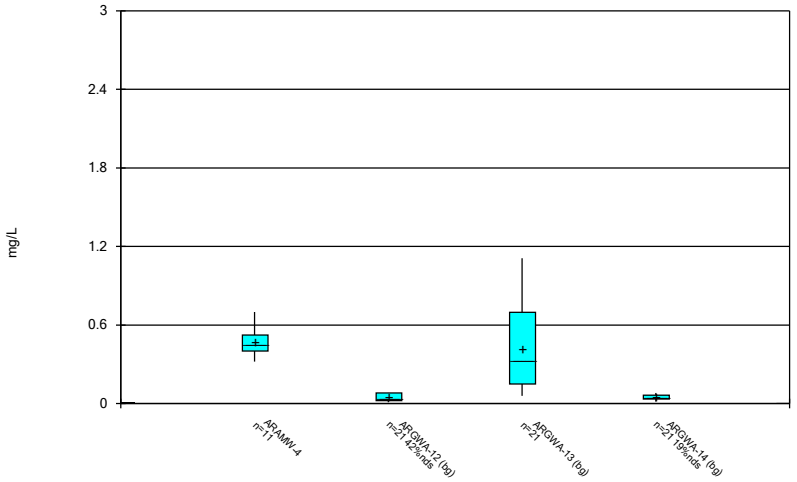
Box & Whiskers Plot



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Plant Arkwright Client: Southern Company Data: Arkwright No 3

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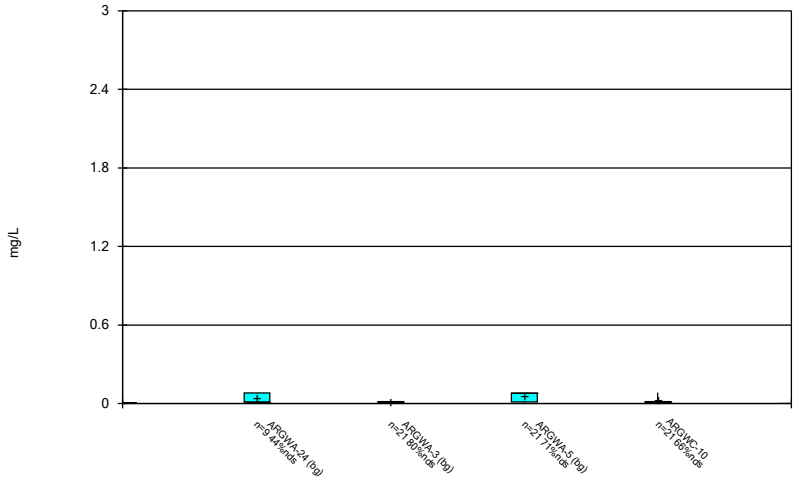

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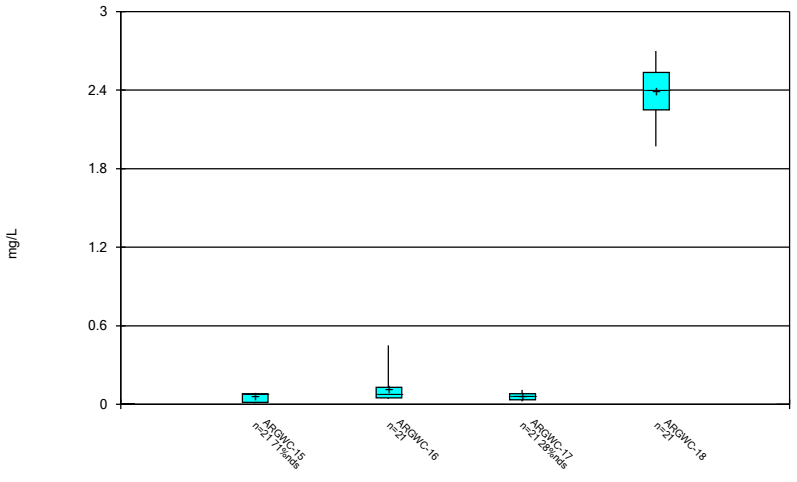

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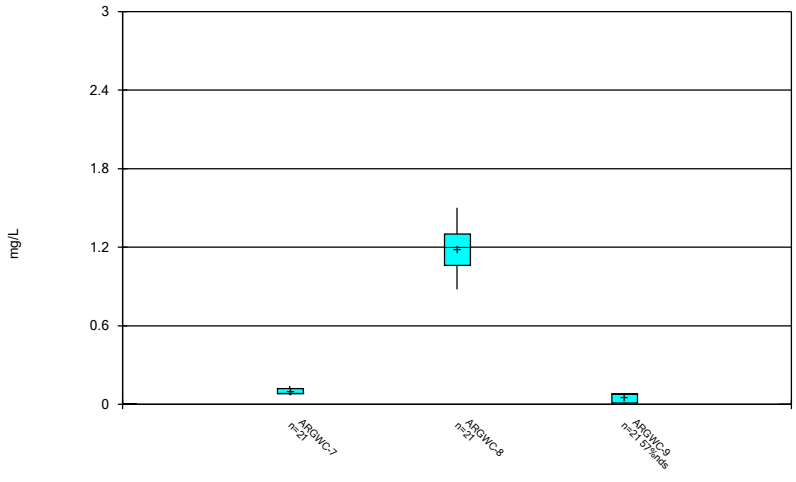

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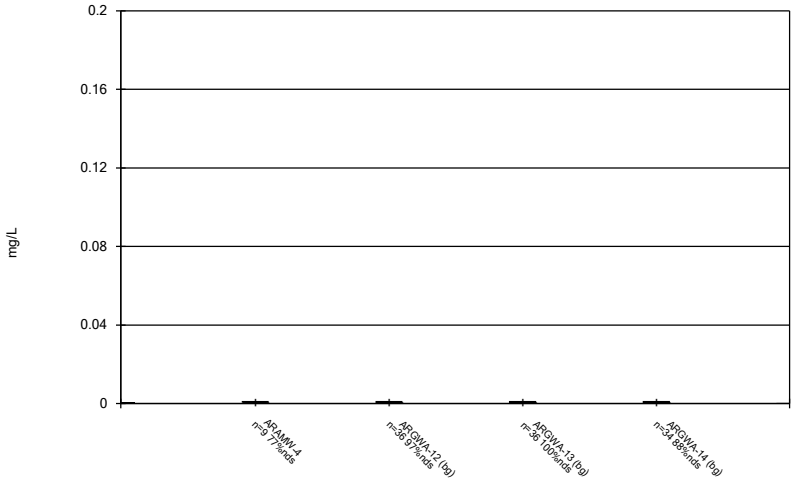
Box & Whiskers Plot



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Plant Arkwright Client: Southern Company Data: Arkwright No 3

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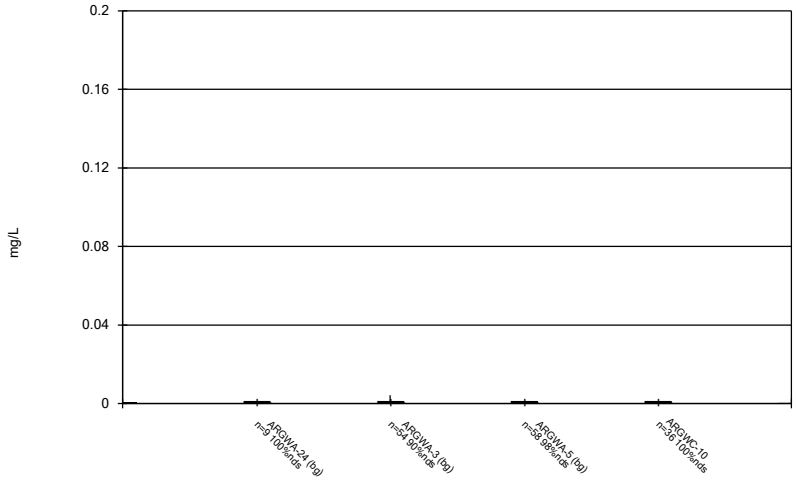
Box & Whiskers Plot



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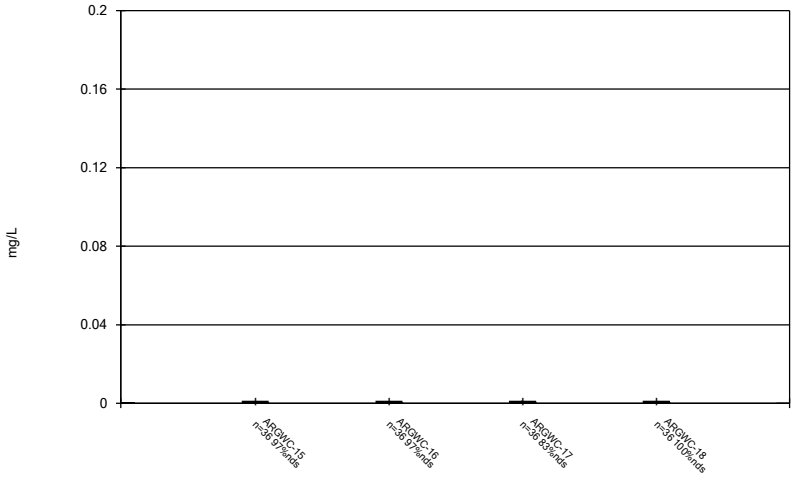
Box & Whiskers Plot



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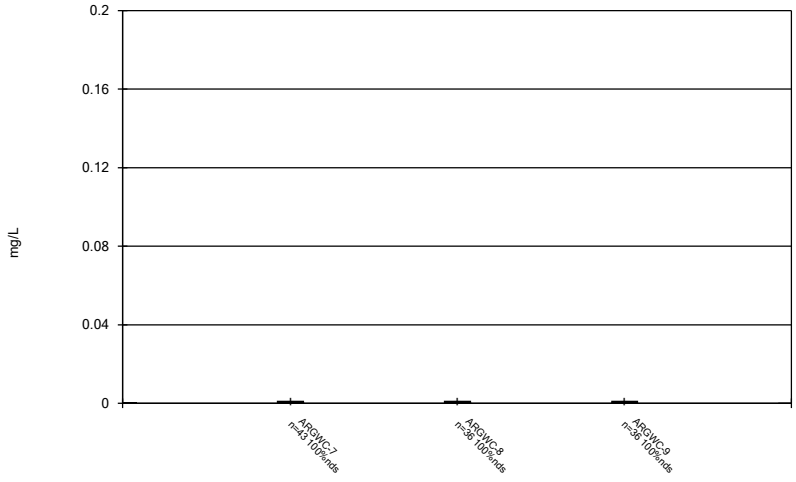
Box & Whiskers Plot



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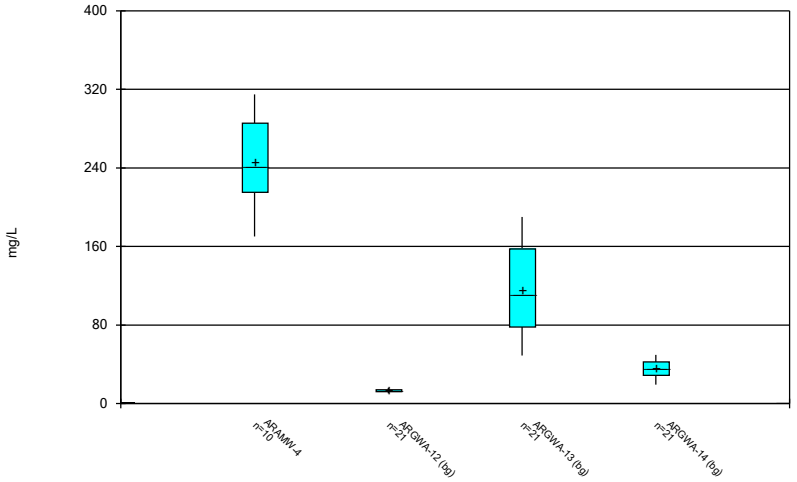
Box & Whiskers Plot



Constituent: Calcium Analysis Run 10/3/2024 12:16 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

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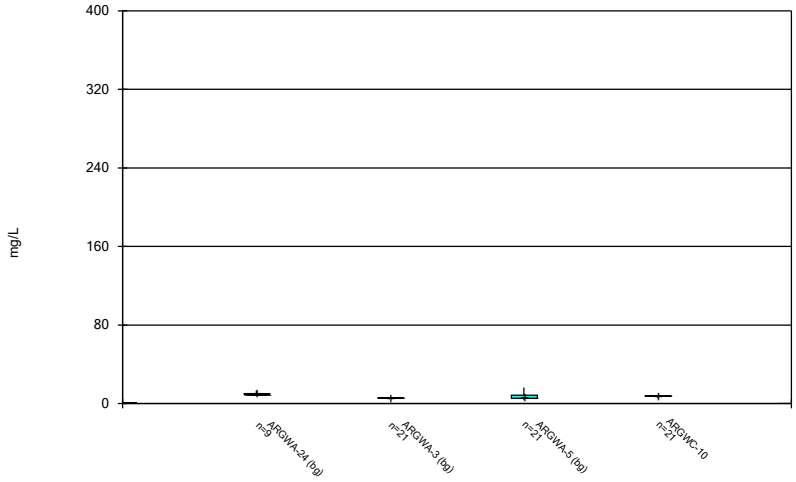
Box & Whiskers Plot



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Plant Arkwright Client: Southern Company Data: Arkwright No 3

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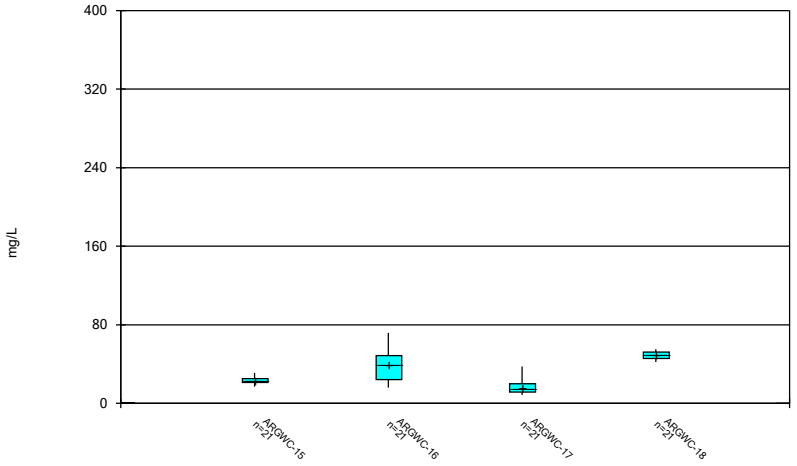
Box & Whiskers Plot



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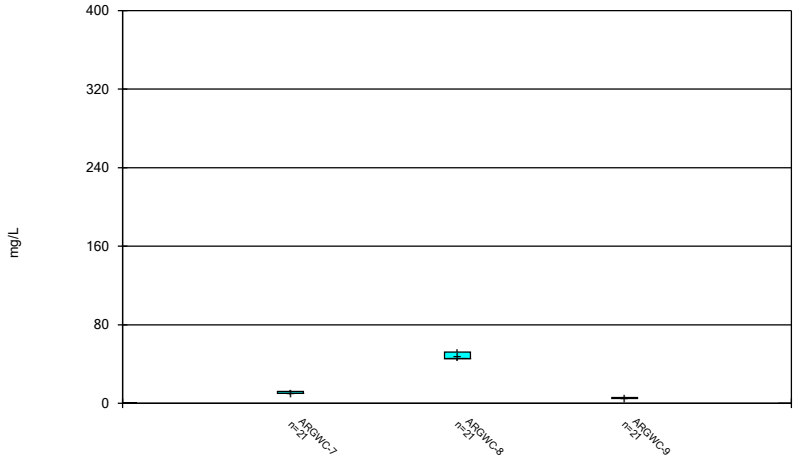
Box & Whiskers Plot



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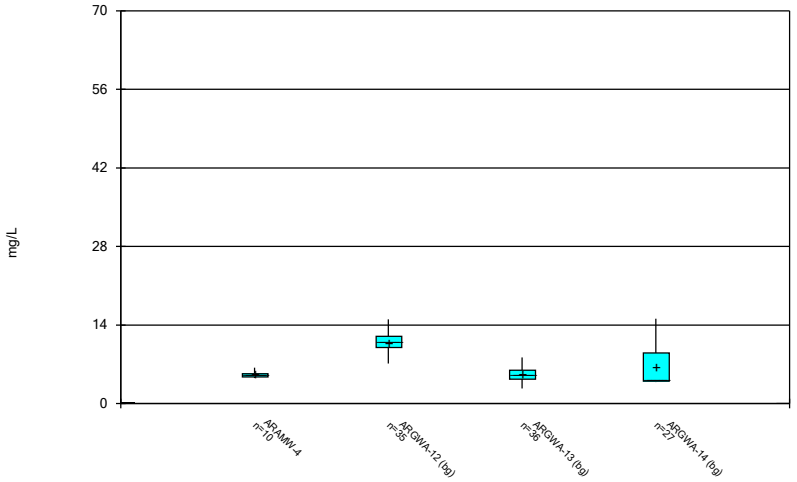
Box & Whiskers Plot



Constituent: Chloride Analysis Run 10/3/2024 12:16 PM
Plant Arkwright Client: Southern Company Data: Arkwright No 3

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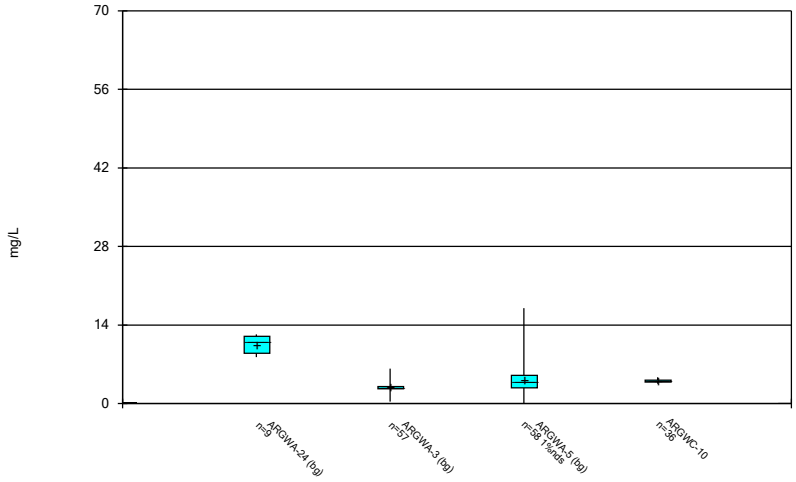
Box & Whiskers Plot



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Plant Arkwright Client: Southern Company Data: Arkwright No 3

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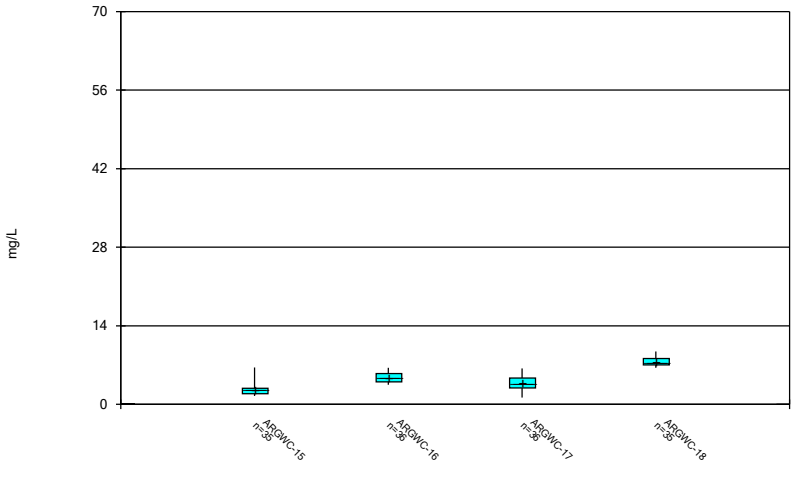
Box & Whiskers Plot



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Plant Arkwright Client: Southern Company Data: Arkwright No 3

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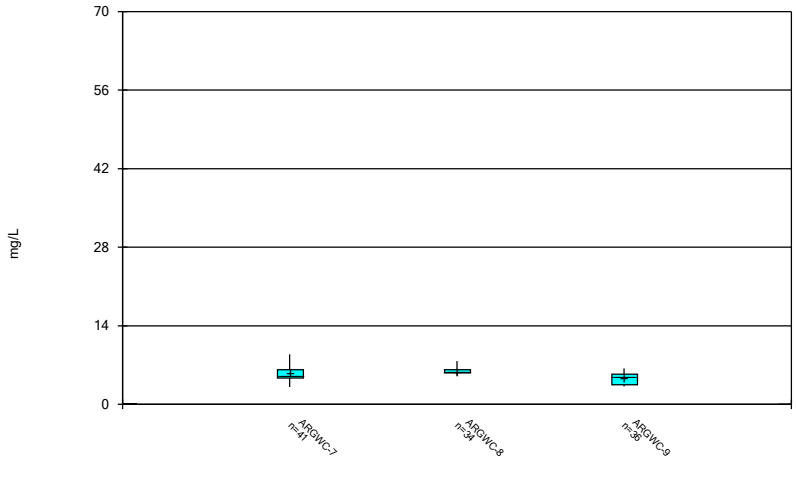
Box & Whiskers Plot



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Plant Arkwright Client: Southern Company Data: Arkwright No 3

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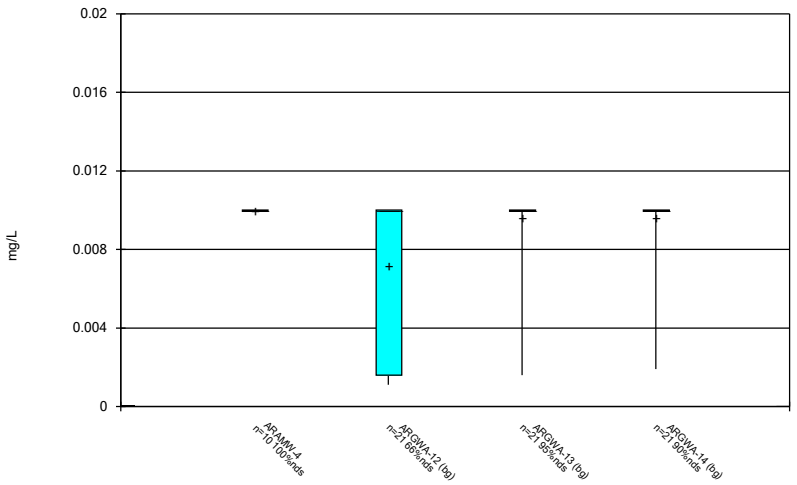
Box & Whiskers Plot



Constituent: Chromium Analysis Run 10/3/2024 12:16 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

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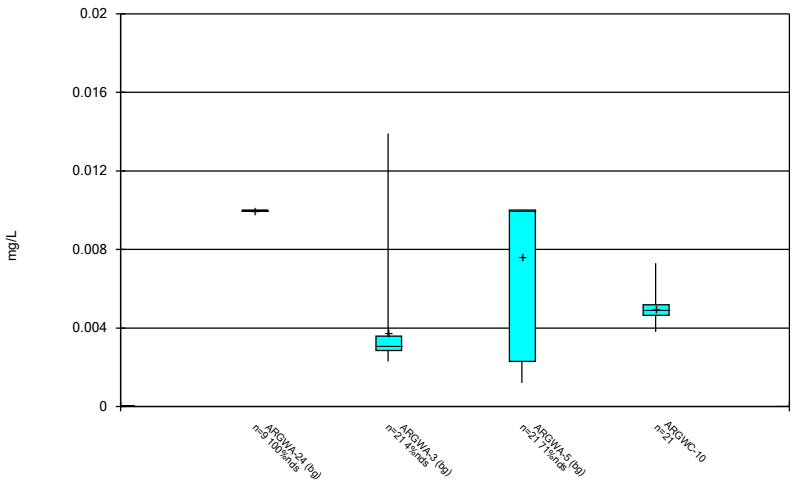
Box & Whiskers Plot



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Plant Arkwright Client: Southern Company Data: Arkwright No 3

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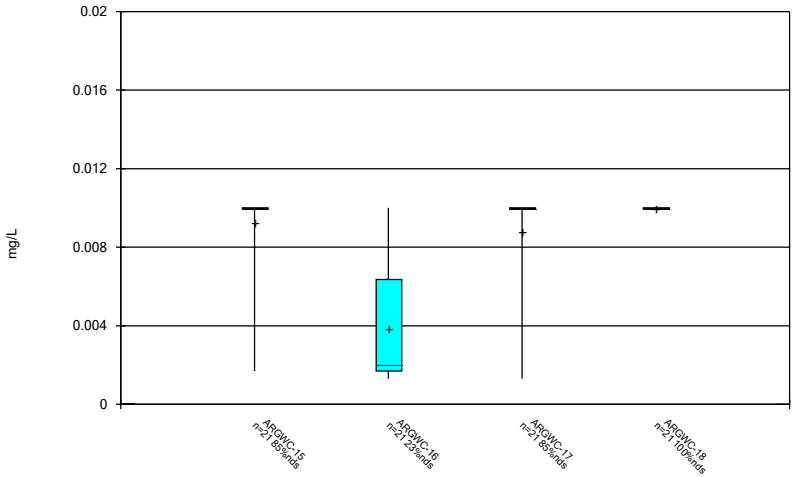
Box & Whiskers Plot



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Plant Arkwright Client: Southern Company Data: Arkwright No 3

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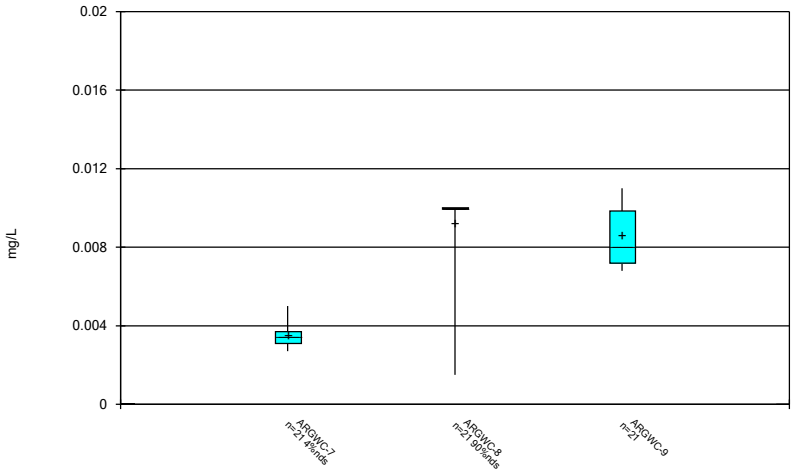
Box & Whiskers Plot



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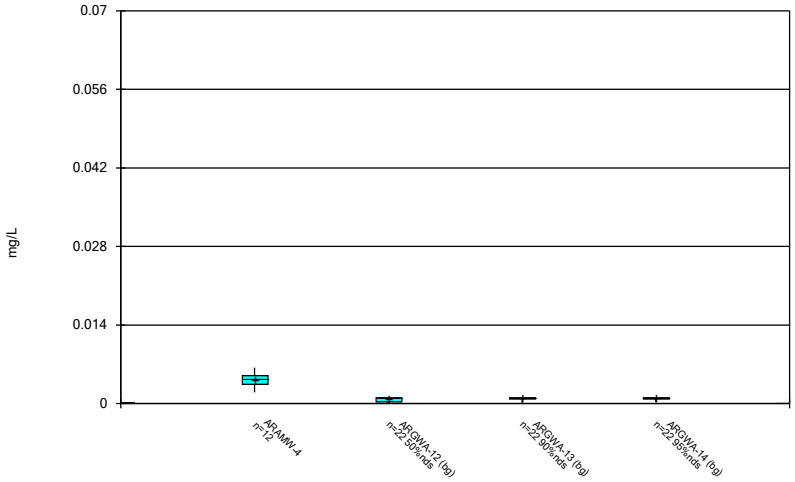
Box & Whiskers Plot



Constituent: Cobalt Analysis Run 10/3/2024 12:16 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

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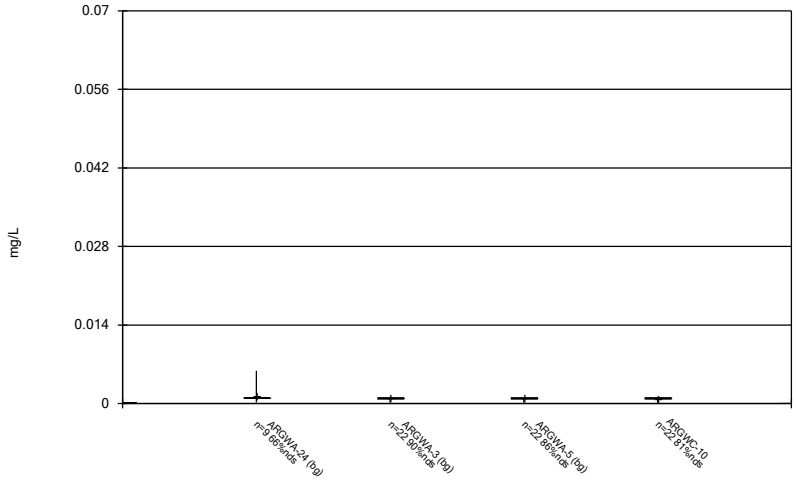
Box & Whiskers Plot



Constituent: Cobalt Analysis Run 10/3/2024 12:16 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

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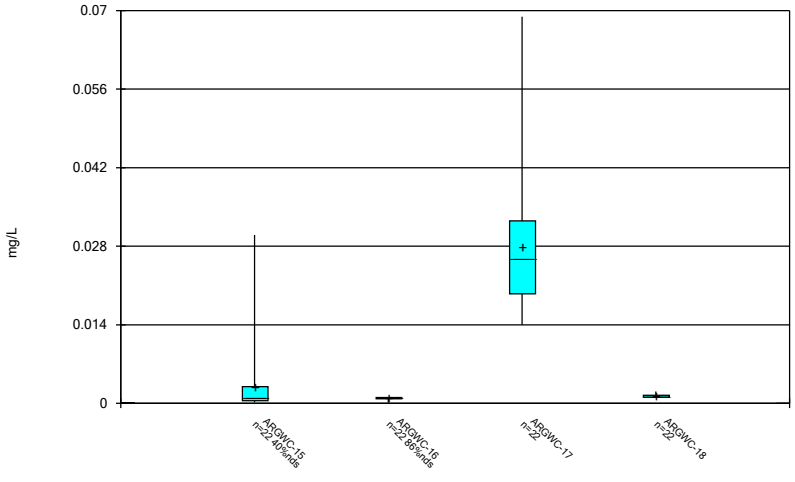
Box & Whiskers Plot



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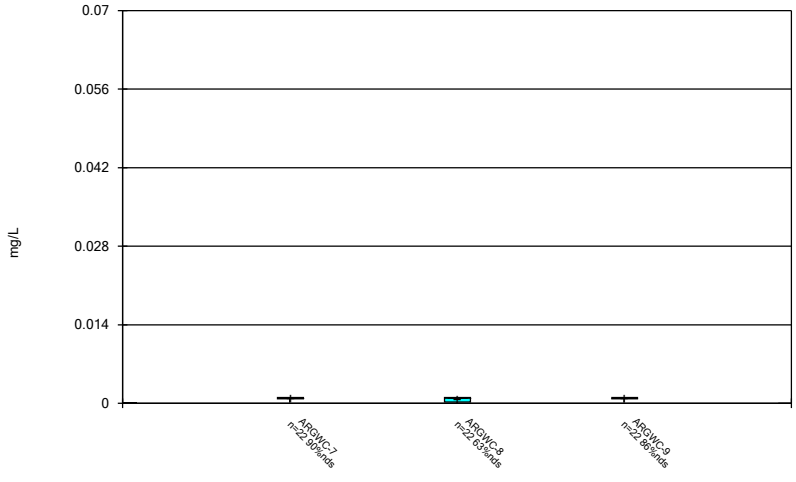
Box & Whiskers Plot



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Plant Arkwright Client: Southern Company Data: Arkwright No 3

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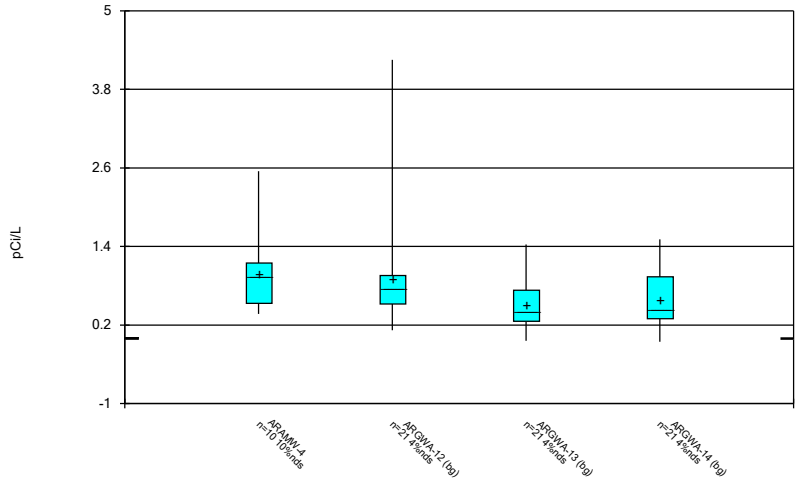
Box & Whiskers Plot



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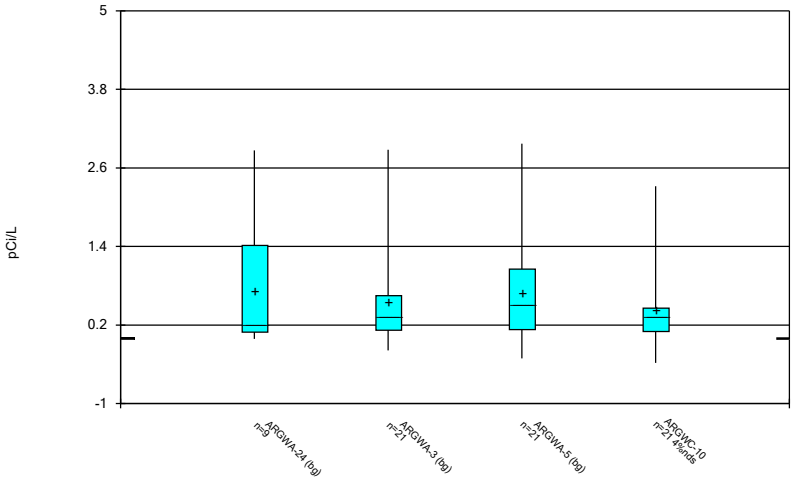
Box & Whiskers Plot



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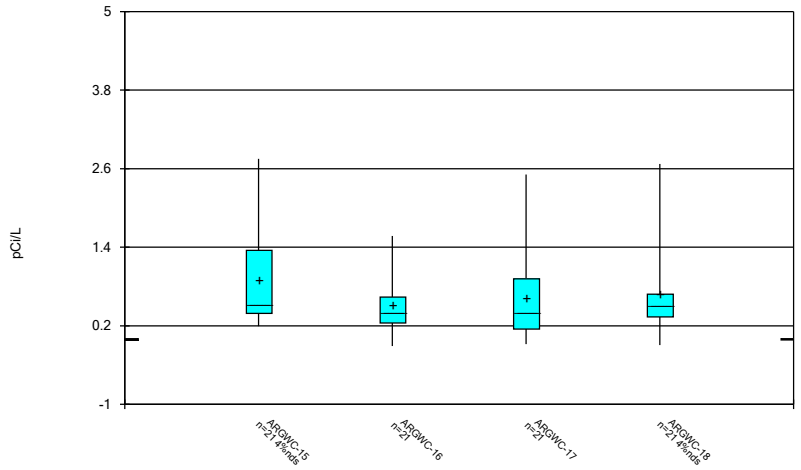

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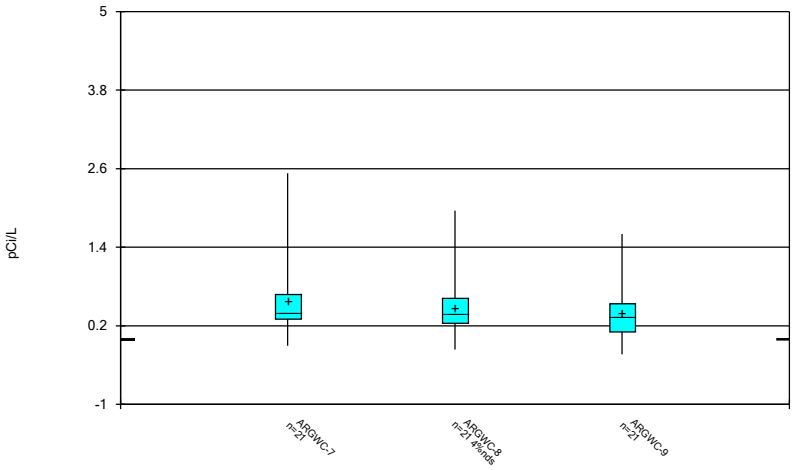
Box & Whiskers Plot



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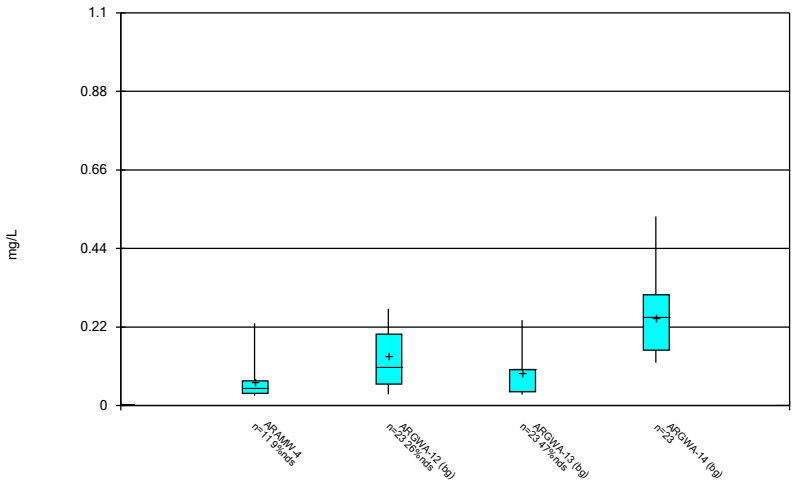
Box & Whiskers Plot



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Plant Arkwright Client: Southern Company Data: Arkwright No 3

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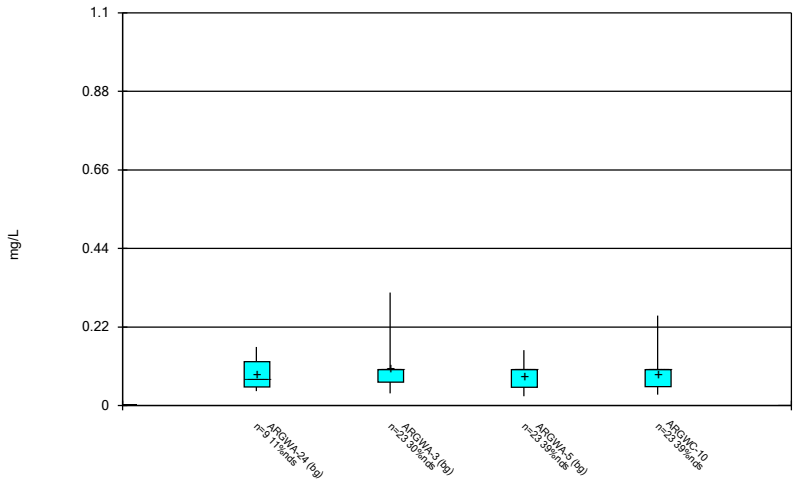
Box & Whiskers Plot



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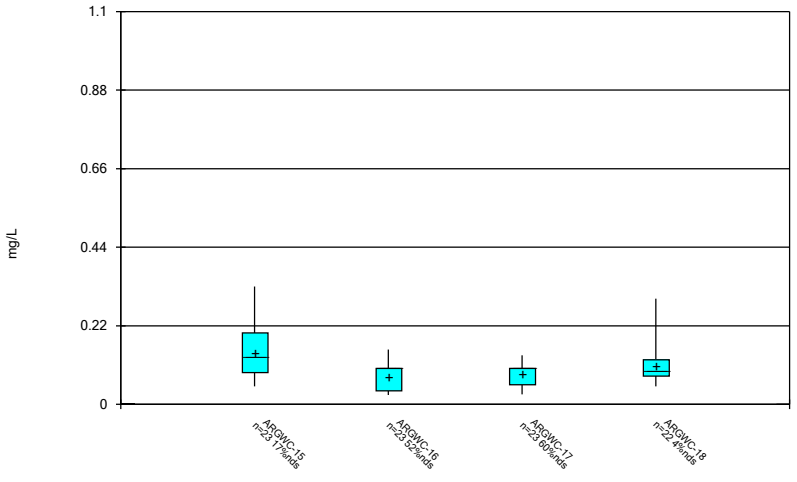
Box & Whiskers Plot



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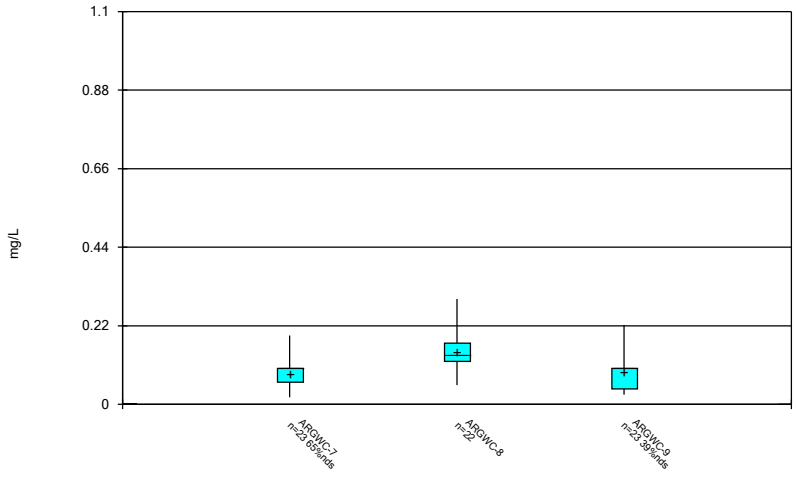
Box & Whiskers Plot



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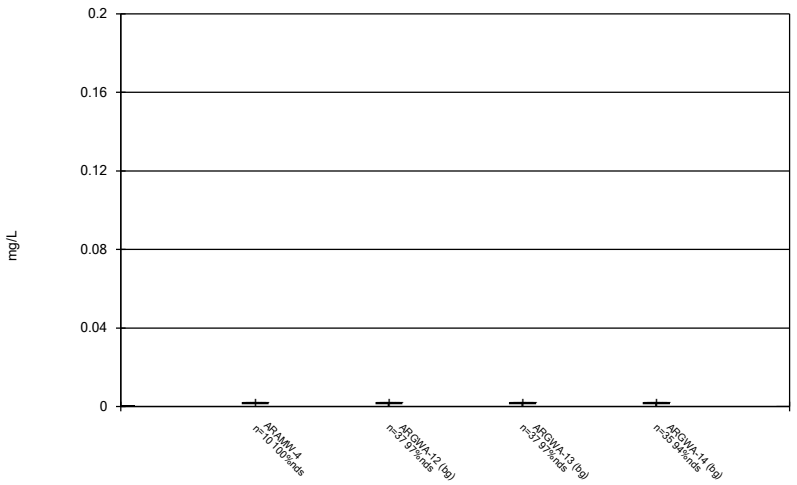
Box & Whiskers Plot



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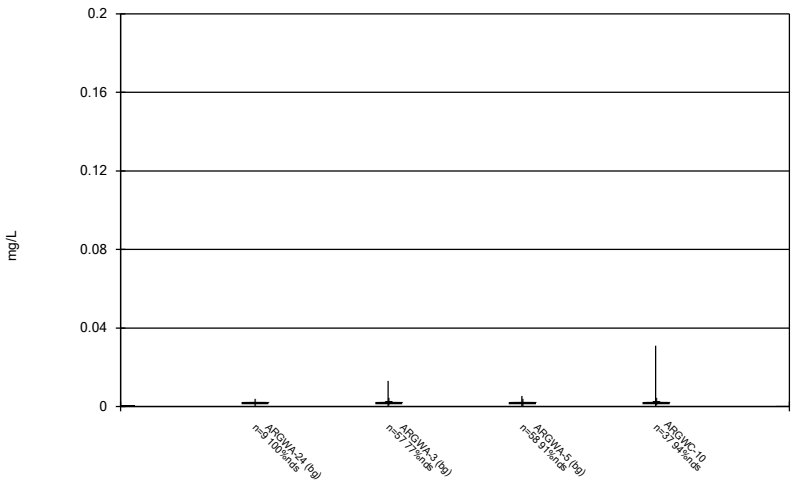
Box & Whiskers Plot



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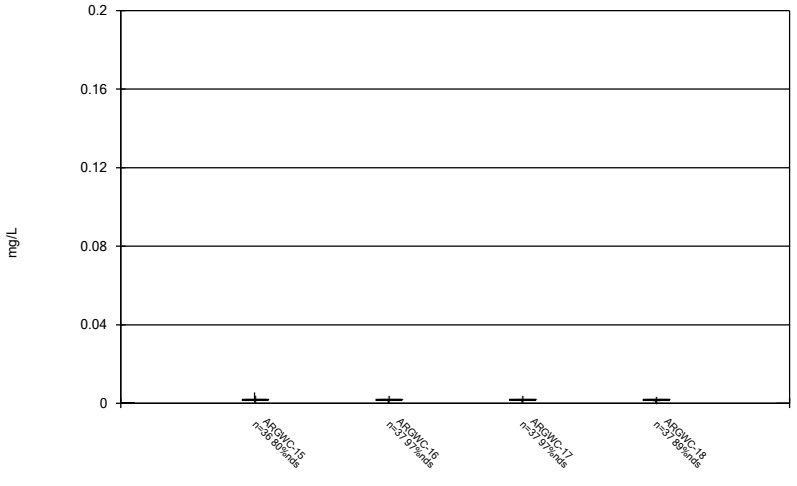

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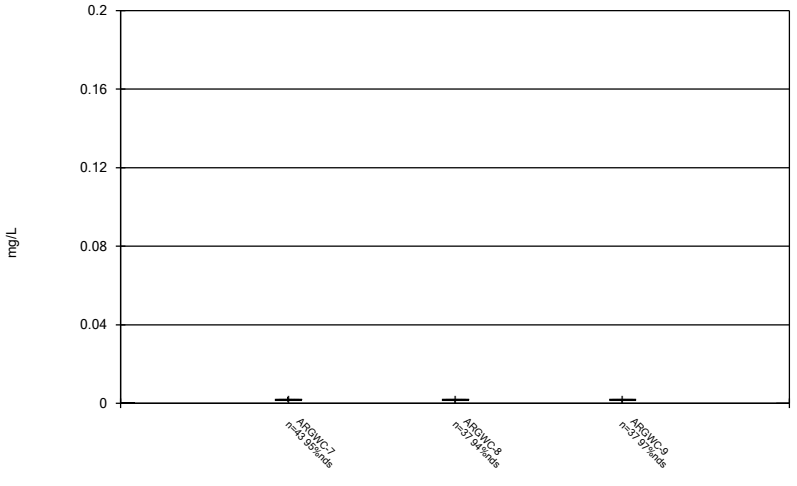
Box & Whiskers Plot



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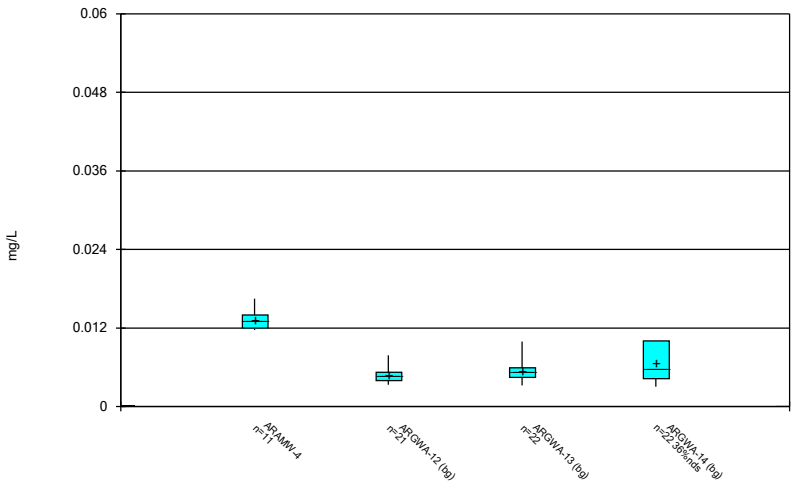
Box & Whiskers Plot



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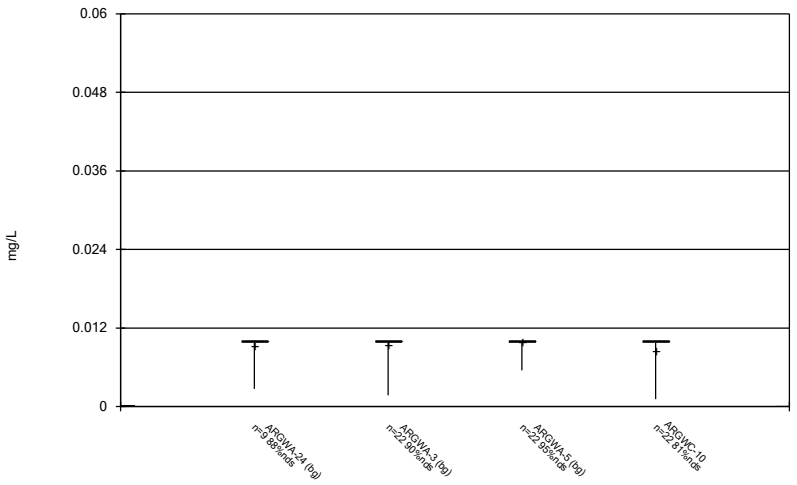
Box & Whiskers Plot



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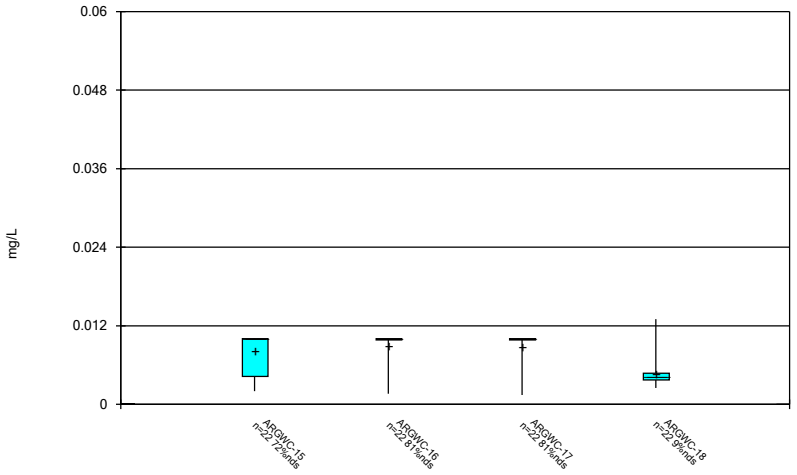
Box & Whiskers Plot



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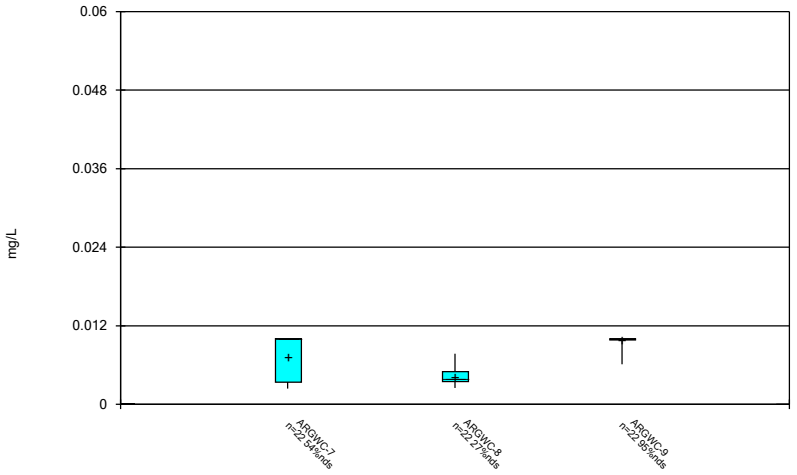

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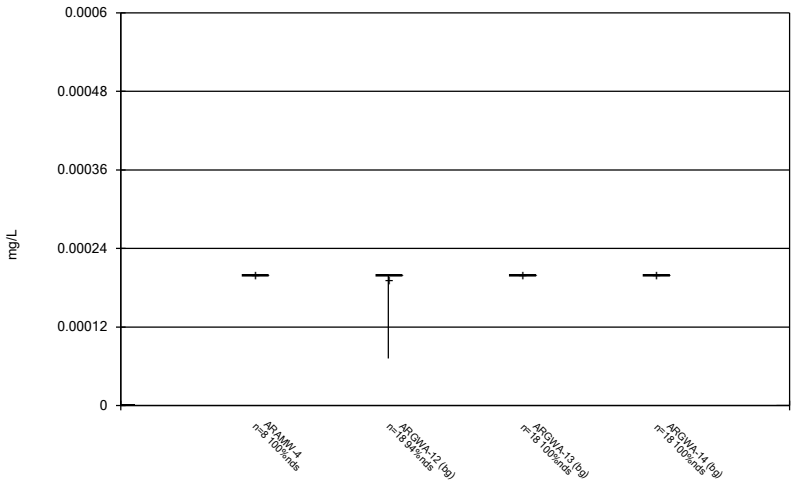

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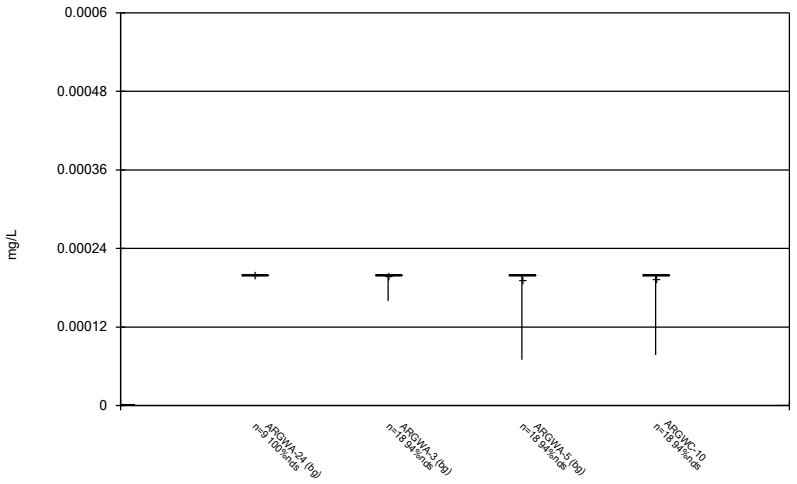
Box & Whiskers Plot



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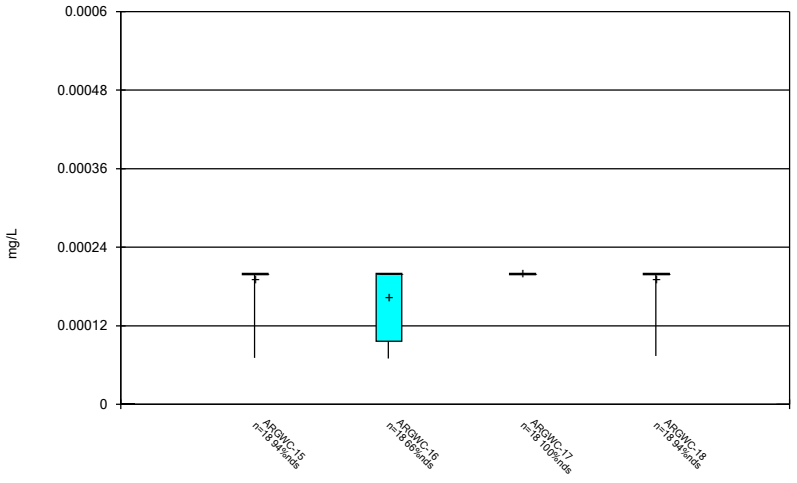
Box & Whiskers Plot



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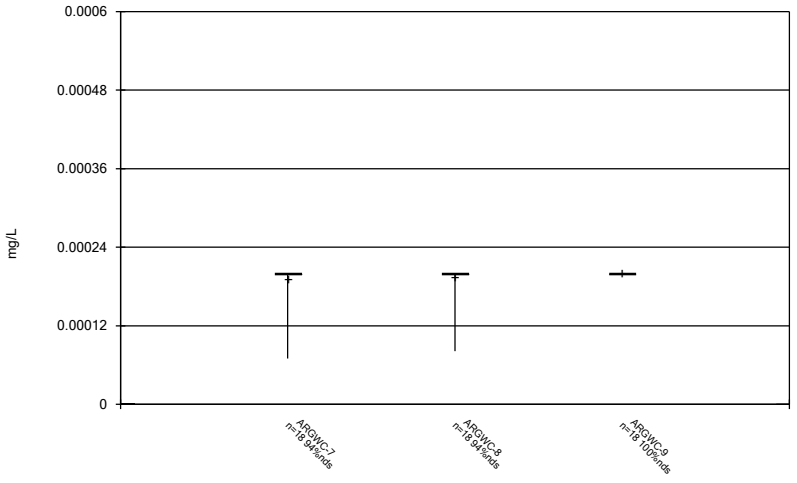

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Plant Arkwright Client: Southern Company Data: Arkwright No 3

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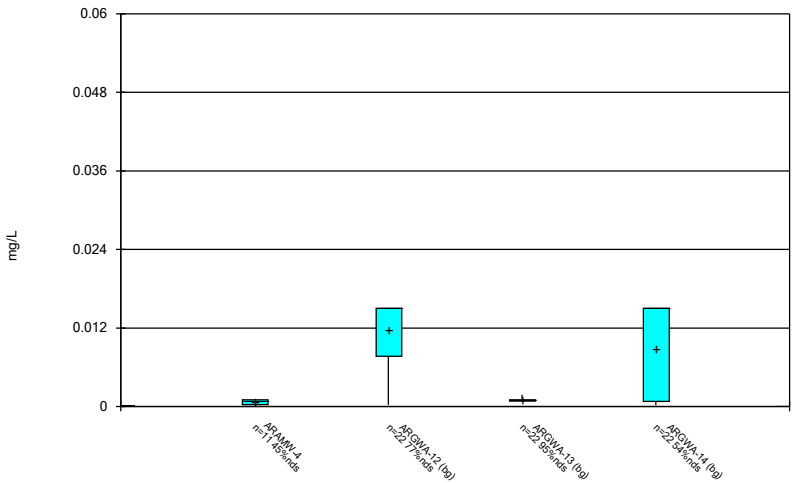
Box & Whiskers Plot



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Plant Arkwright Client: Southern Company Data: Arkwright No 3

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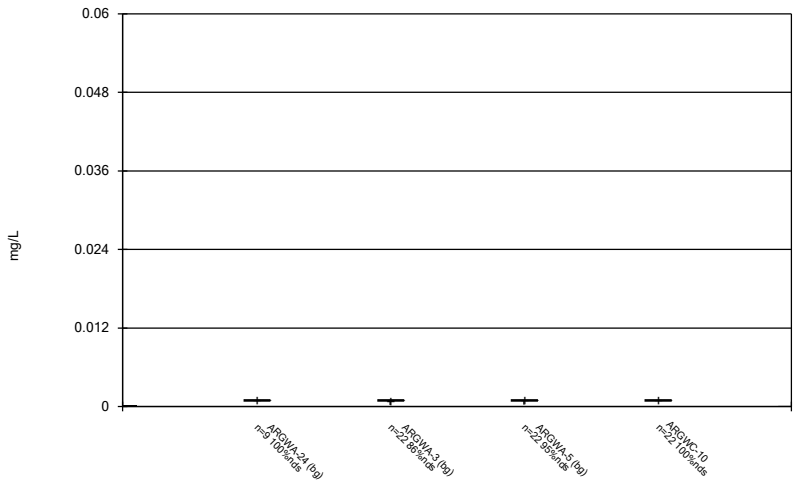
Box & Whiskers Plot



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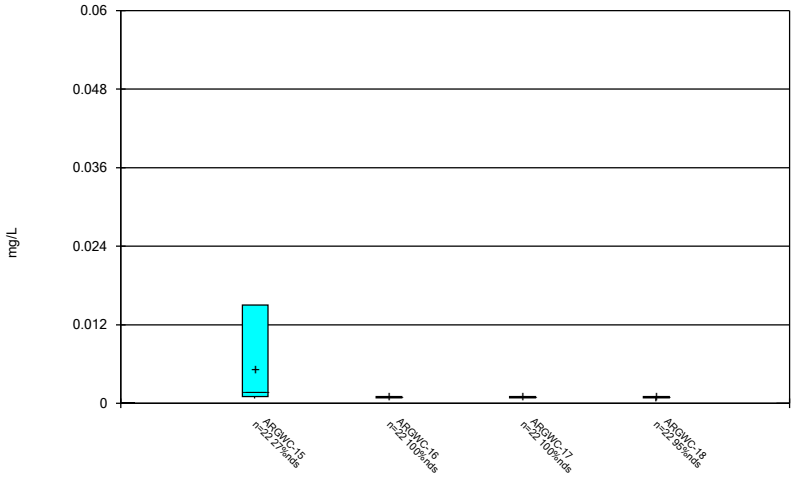

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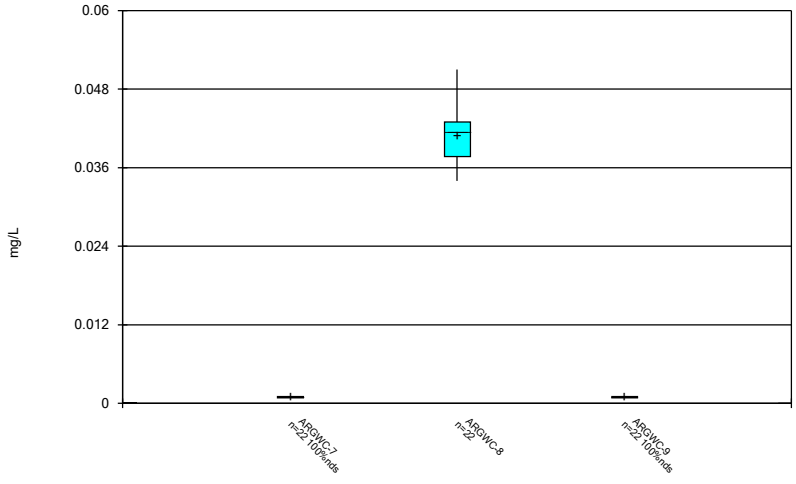

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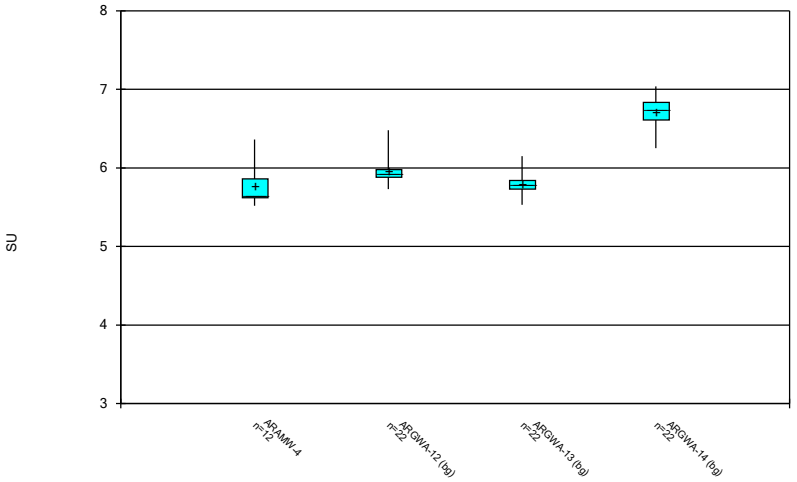

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Plant Arkwright Client: Southern Company Data: Arkwright No 3

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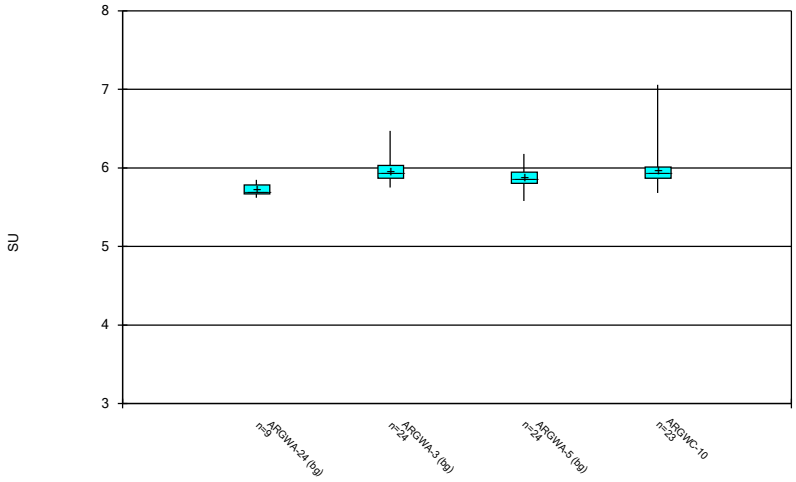
Box & Whiskers Plot



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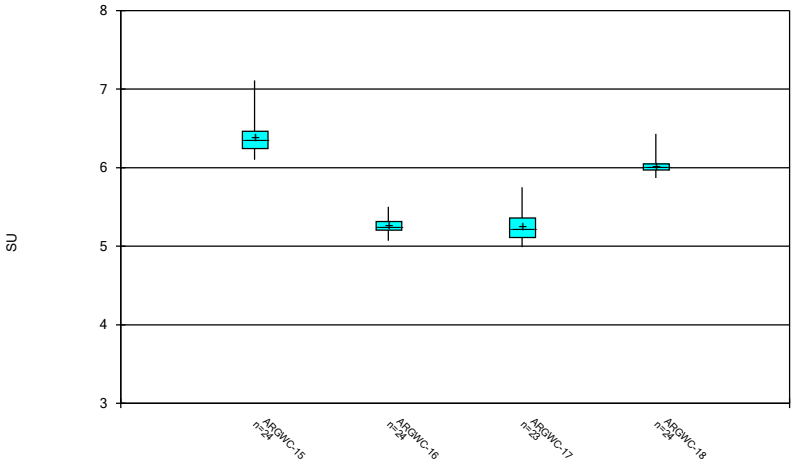

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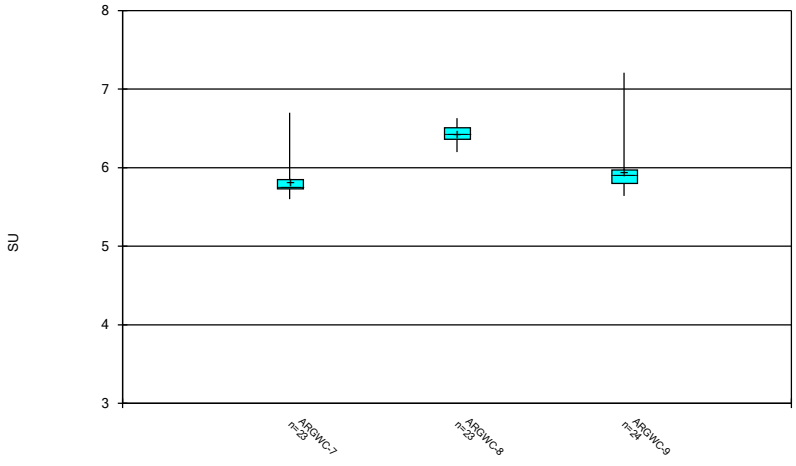

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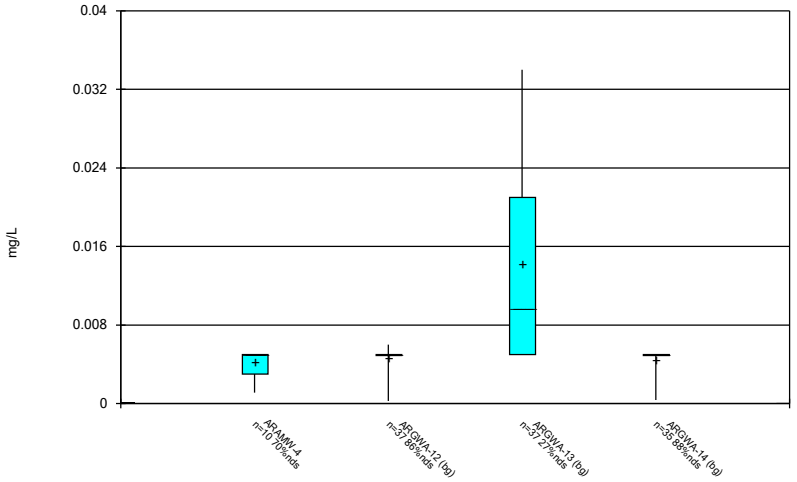
Box & Whiskers Plot



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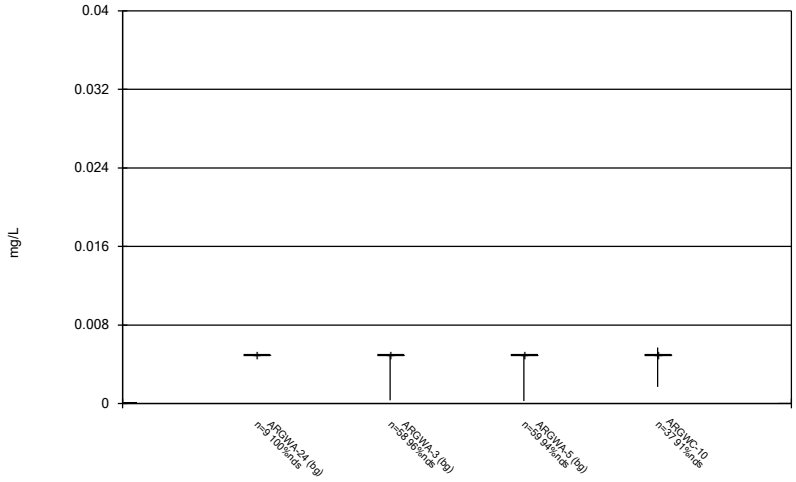
Box & Whiskers Plot



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Plant Arkwright Client: Southern Company Data: Arkwright No 3

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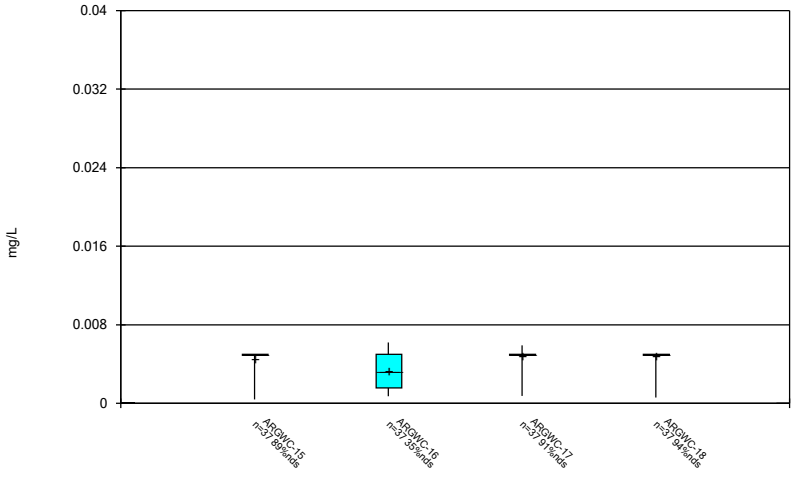

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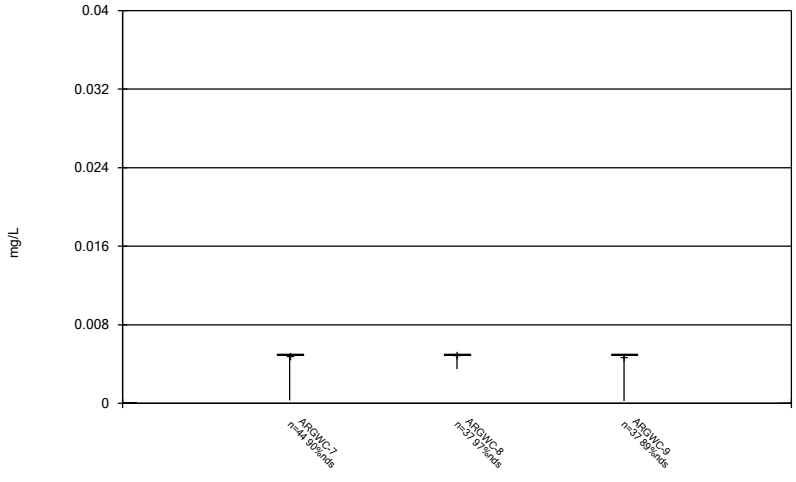

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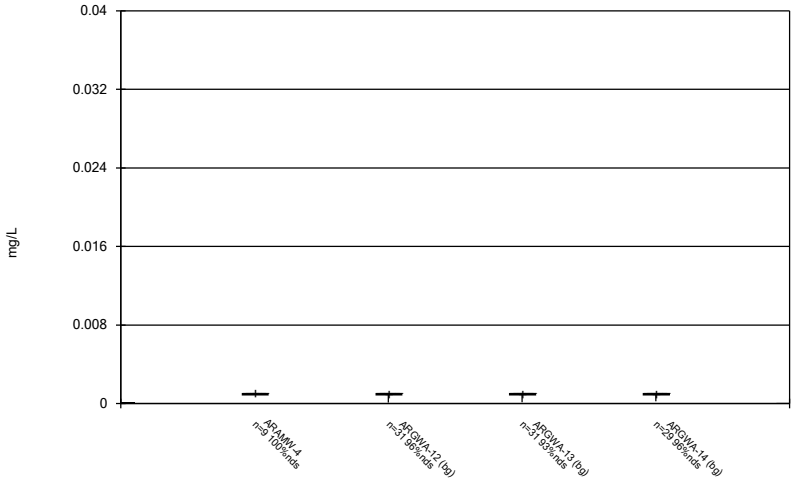
Box & Whiskers Plot



Constituent: Silver Analysis Run 10/3/2024 12:17 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

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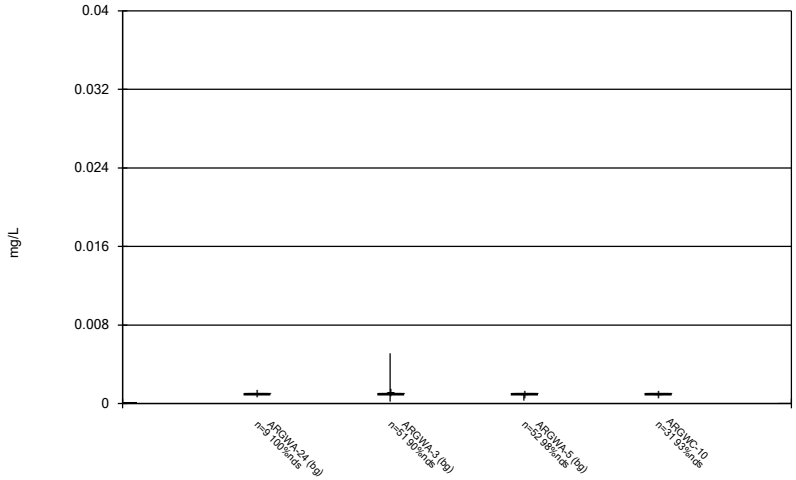
Box & Whiskers Plot



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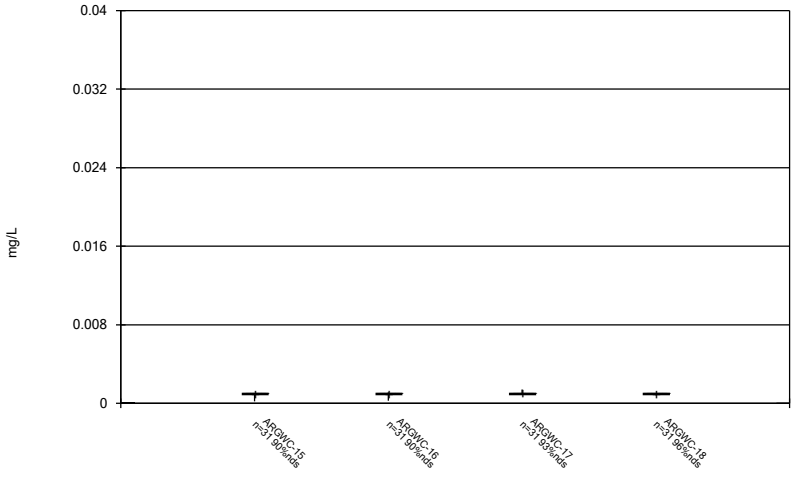
Box & Whiskers Plot



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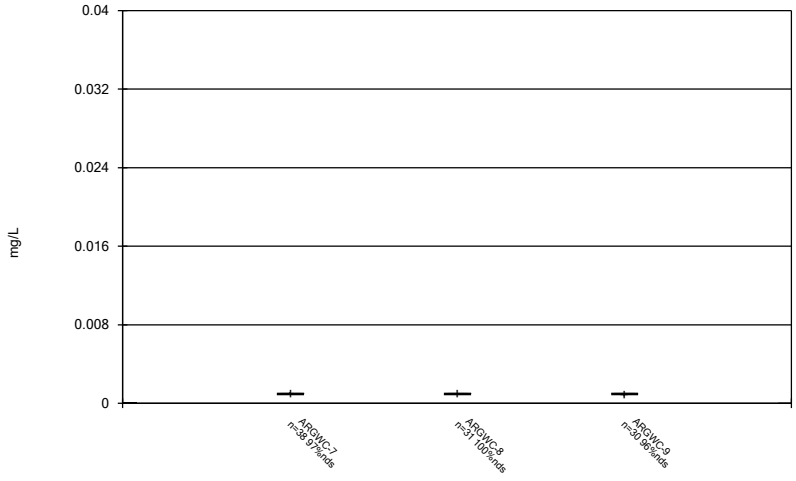
Box & Whiskers Plot



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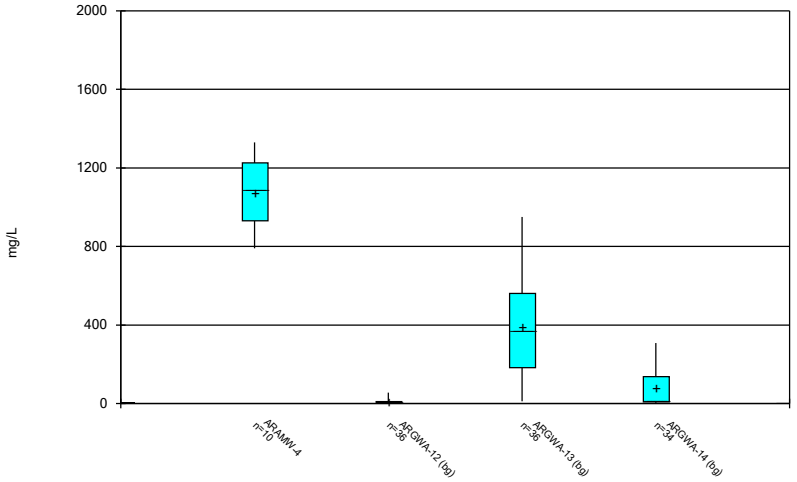

Constituent: Sulfate Analysis Run 10/3/2024 12:17 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

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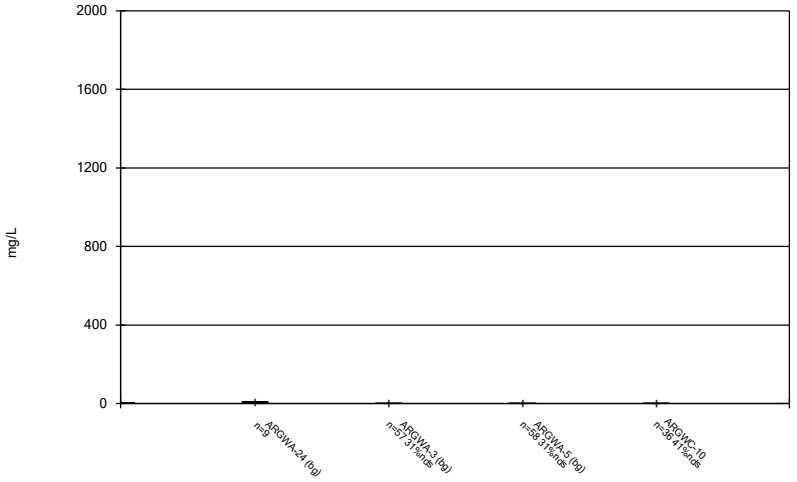
Box & Whiskers Plot



Constituent: Sulfate Analysis Run 10/3/2024 12:17 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 3

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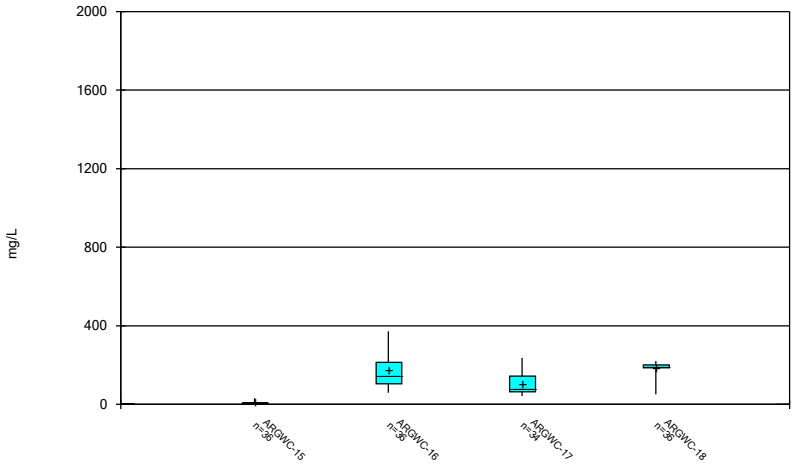
Box & Whiskers Plot



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Plant Arkwright Client: Southern Company Data: Arkwright No 3

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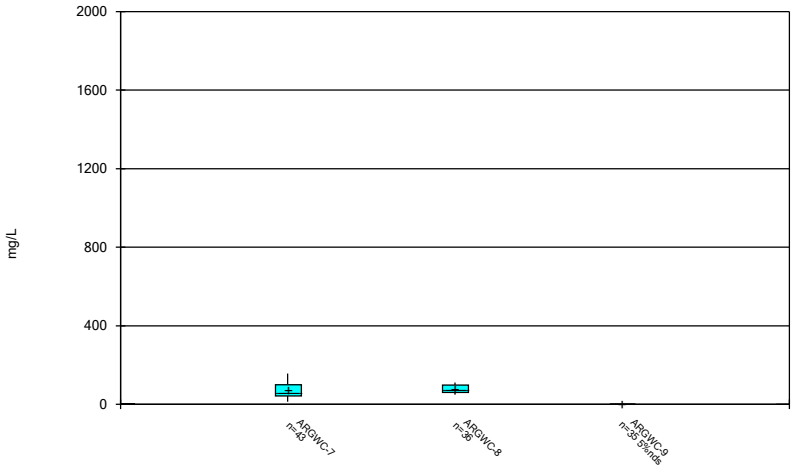
Box & Whiskers Plot



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Plant Arkwright Client: Southern Company Data: Arkwright No 3

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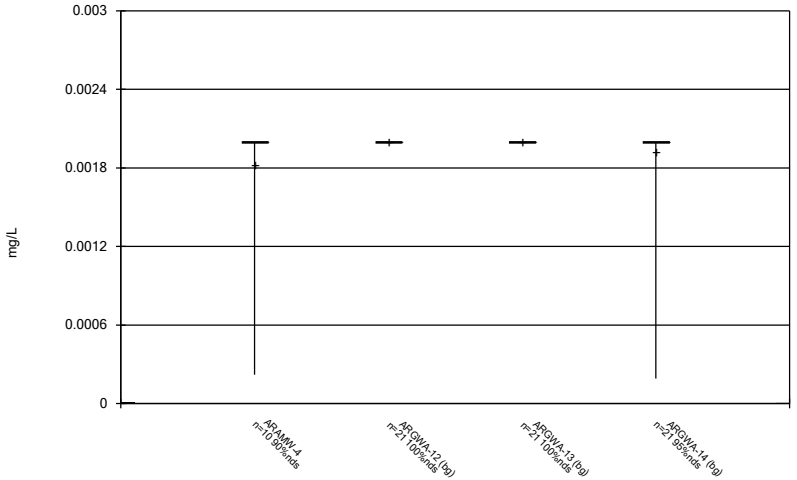
Box & Whiskers Plot



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Plant Arkwright Client: Southern Company Data: Arkwright No 3

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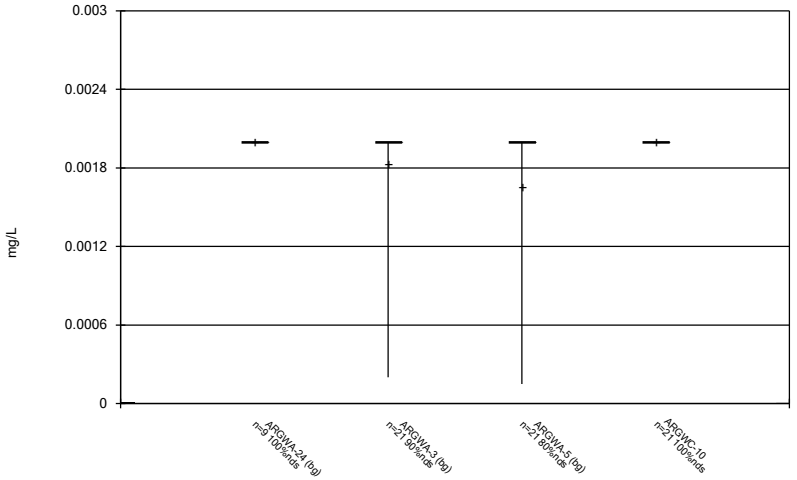
Box & Whiskers Plot



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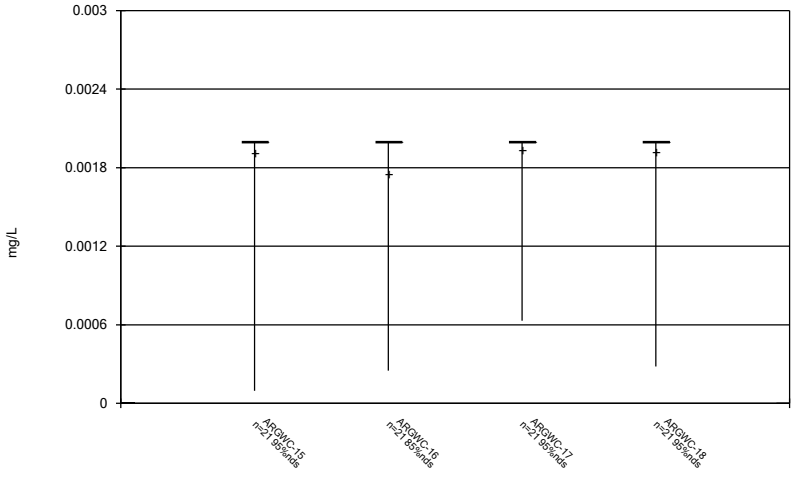
Box & Whiskers Plot



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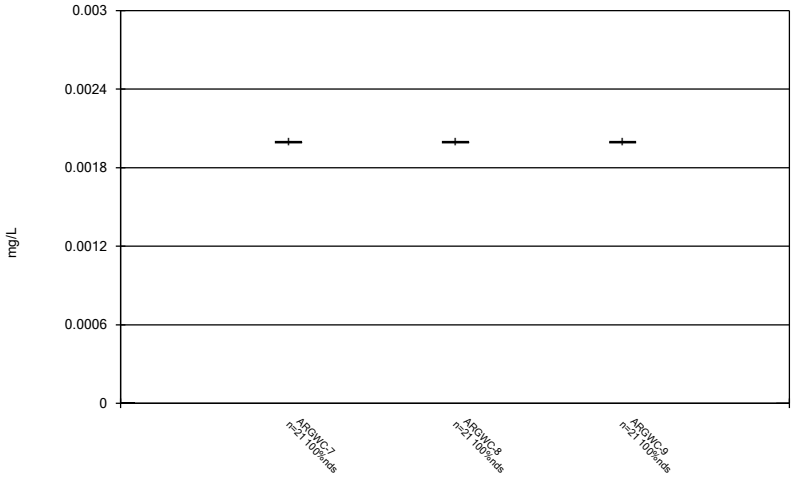
Box & Whiskers Plot



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Plant Arkwright Client: Southern Company Data: Arkwright No 3

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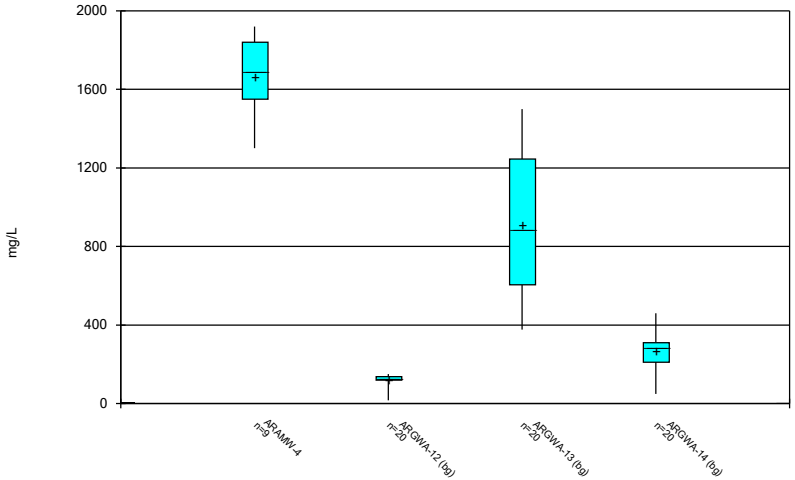
Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 10/3/2024 12:17 PM
Plant Arkwright Client: Southern Company Data: Arkwright No 3

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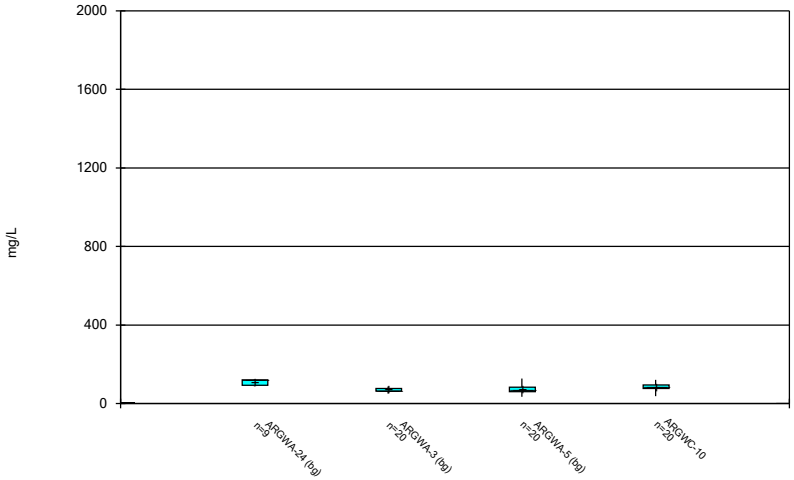
Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 10/3/2024 12:17 PM
Plant Arkwright Client: Southern Company Data: Arkwright No 3

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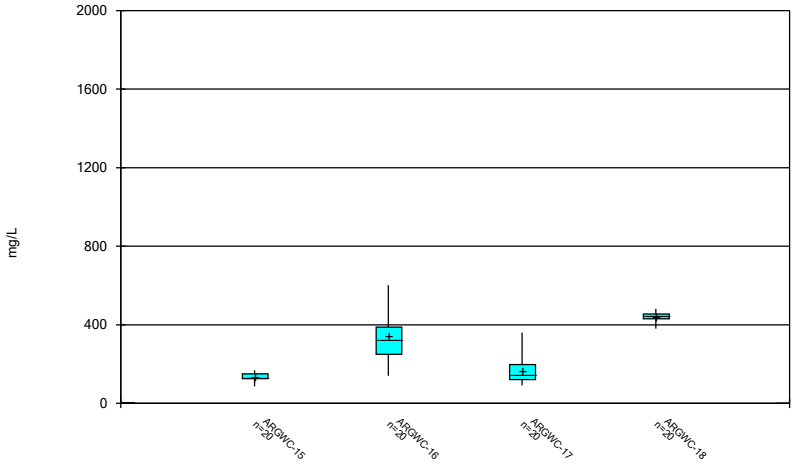
Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 10/3/2024 12:17 PM
Plant Arkwright Client: Southern Company Data: Arkwright No 3

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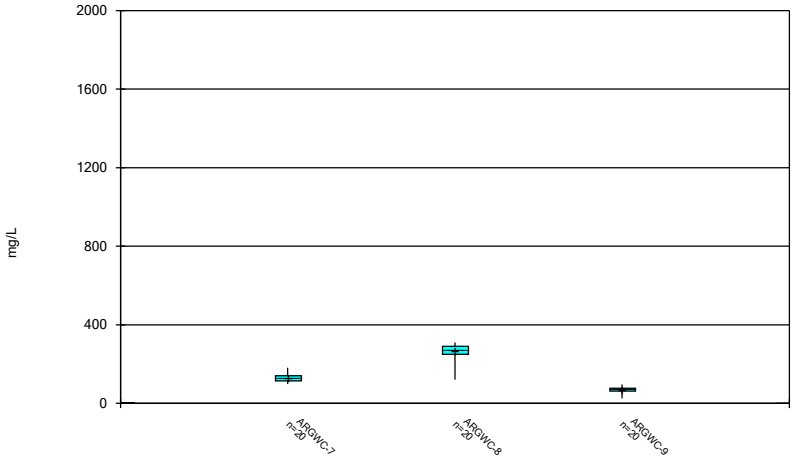
Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 10/3/2024 12:17 PM
Plant Arkwright Client: Southern Company Data: Arkwright No 3

FIGURE C.

Outlier Summary

Plant Arkwright Client: Southern Company Data: Arkwright No 3 Printed 10/3/2024, 12:11 PM

	ARGWC-10 Arsenic (mg/L)	ARGWC-16 Arsenic (mg/L)	ARGWC-17 Arsenic (mg/L)	ARGWC-18 Arsenic (mg/L)	ARGWC-9 Arsenic (mg/L)	ARGWA-12 Barium (mg/L)	ARGWA-3 Barium (mg/L)	ARGWC-10 Barium (mg/L)	ARGWC-15 Barium (mg/L)	ARGWC-16 Barium (mg/L)
12/16/1997						2.12 (o)				
6/30/1998										
12/2/1998										
12/10/2003										
12/14/2004										
10/30/2006						<0.001 (o)				
11/17/2007										
5/2/2008										
5/12/2009		0.003 (o)		0.0025 (o)						0.16 (o)
5/13/2009	0.0042 (o)				0.0034 (o)		0.15 (o)			
5/25/2010						0.038 (o)				
11/9/2010										
5/19/2011										
11/9/2011										
11/12/2011										
5/30/2012										
11/9/2012			0.01 (o)							
11/11/2012										
5/9/2013										
5/13/2013								0.2 (o)		
11/5/2013										
11/6/2013										
5/21/2014										
5/29/2014										
11/19/2014										
8/30/2016										
8/31/2016										
10/24/2016										
10/25/2016										
10/26/2016										
10/8/2019										

Outlier Summary

Plant Arkwright Client: Southern Company Data: Arkwright No 3 Printed 10/3/2024, 12:11 PM

	ARGWC-17 Barium (mg/L)	ARGWC-18 Barium (mg/L)	ARGWC-9 Barium (mg/L)	ARGWA-3 Cadmium (mg/L)	ARGWA-12 Chloride (mg/L)	ARGWA-14 Chloride (mg/L)	ARGWC-15 Chloride (mg/L)	ARGWC-18 Chloride (mg/L)	ARGWC-7 Chloride (mg/L)	ARGWC-8 Chloride (mg/L)
12/16/1997				0.103 (o)						
6/30/1998				0.007 (o)						
12/2/1998				0.007 (o)						
12/10/2003										
12/14/2004										
10/30/2006										
11/17/2007									13.5 (o)	
5/2/2008									12.9 (o)	
5/12/2009										
5/13/2009			0.14 (o)							
5/25/2010										
11/9/2010										<0.071 (o)
5/19/2011						28.2 (o)				
11/9/2011						32.8 (o)				
11/12/2011		0.092 (o)						12.3 (o)		
5/30/2012						30.8 (o)				
11/9/2012	0.4 (o)									
11/11/2012						24.6 (o)				
5/9/2013						27.2 (o)				
5/13/2013										
11/5/2013		0.087 (o)								
11/6/2013										
5/21/2014										7.34 (o)
5/29/2014						20 (o)				
11/19/2014						19 (o)				
8/30/2016										
8/31/2016										
10/24/2016										
10/25/2016										
10/26/2016										
10/8/2019					64 (o)		9.4 (o)			

Outlier Summary

Plant Arkwright Client: Southern Company Data: Arkwright No 3 Printed 10/3/2024, 12:11 PM

	ARGWC-18 Fluoride (mg/L)	ARGWC-8 Fluoride (mg/L)	ARGWA-3 Lead (mg/L)	ARGWA-5 Lead (mg/L)	ARGWC-15 Lead (mg/L)	ARGWC-7 Lead (mg/L)	ARGWA-12 Lithium (mg/L)	ARGWA-12 pH (SU)	ARGWA-13 pH (SU)	ARGWA-14 pH (SU)
12/16/1997			0.162 (o)							
6/30/1998										
12/2/1998										
12/10/2003										
12/14/2004				0.013 (o)						
10/30/2006										
11/17/2007										
5/2/2008						0.008 (o)				
5/12/2009										
5/13/2009										
5/25/2010										
11/9/2010										
5/19/2011										
11/9/2011										
11/12/2011										
5/30/2012										
11/9/2012										
11/11/2012										
5/9/2013										
5/13/2013					0.025 (o)					
11/5/2013										
11/6/2013										
5/21/2014										
5/29/2014										
11/19/2014										
8/30/2016								6.82 (o)		
8/31/2016									6.67 (o)	7.55 (o)
10/24/2016							<0.05 (o)			
10/25/2016										
10/26/2016	0.32 (o)	0.43 (o)								
10/8/2019										

Outlier Summary

Plant Arkwright Client: Southern Company Data: Arkwright No 3 Printed 10/3/2024, 12:11 PM

	ARGWA-3 Silver (mg/L)	ARGWA-5 Silver (mg/L)	ARGWC-9 Silver (mg/L)	ARGWC-17 Sulfate (mg/L)	ARGWC-9 Sulfate (mg/L)
12/16/1997	0.035 (o)				
6/30/1998					
12/2/1998					
12/10/2003		0.002 (o)			
12/14/2004					
10/30/2006					
11/17/2007					
5/2/2008					
5/12/2009					
5/13/2009			0.0024 (o)		
5/25/2010					
11/9/2010					
5/19/2011					
11/9/2011					
11/12/2011					
5/30/2012					
11/9/2012				842 (o)	
11/11/2012					
5/9/2013					
5/13/2013					
11/5/2013					
11/6/2013				471 (o)	
5/21/2014					
5/29/2014					
11/19/2014					
8/30/2016					
8/31/2016					
10/24/2016					
10/25/2016					4.7 (o)
10/26/2016					
10/8/2019					

FIGURE D.

Appendix I Interwell Prediction Limits - All Results (No Significant)

Plant Arkwright Client: Southern Company Data: Arkwright No 3 Printed 10/3/2024, 11:19 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	0.00593	n/a	8/21/2024	0.005ND	No	235	n/a	n/a	82.13	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	ARGWC-15	0.00593	n/a	8/21/2024	0.005ND	No	235	n/a	n/a	82.13	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	ARGWC-16	0.00593	n/a	8/21/2024	0.005ND	No	235	n/a	n/a	82.13	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	ARGWC-17	0.00593	n/a	8/21/2024	0.005ND	No	235	n/a	n/a	82.13	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	ARGWC-18	0.00593	n/a	8/21/2024	0.005ND	No	235	n/a	n/a	82.13	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	ARGWC-7	0.00593	n/a	8/21/2024	0.005ND	No	235	n/a	n/a	82.13	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	ARGWC-8	0.00593	n/a	8/21/2024	0.005ND	No	235	n/a	n/a	82.13	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	ARGWC-9	0.00593	n/a	8/21/2024	0.005ND	No	235	n/a	n/a	82.13	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Barium (mg/L)	ARGWC-10	0.24	n/a	8/21/2024	0.0328	No	232	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Barium (mg/L)	ARGWC-15	0.24	n/a	8/21/2024	0.039	No	232	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Barium (mg/L)	ARGWC-16	0.24	n/a	8/21/2024	0.0349	No	232	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Barium (mg/L)	ARGWC-17	0.24	n/a	8/21/2024	0.048	No	232	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Barium (mg/L)	ARGWC-18	0.24	n/a	8/21/2024	0.0355	No	232	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Barium (mg/L)	ARGWC-7	0.24	n/a	8/21/2024	0.0473	No	232	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Barium (mg/L)	ARGWC-8	0.24	n/a	8/21/2024	0.0585	No	232	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Barium (mg/L)	ARGWC-9	0.24	n/a	8/21/2024	0.0363	No	232	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Cadmium (mg/L)	ARGWC-15	0.0043	n/a	8/21/2024	0.001ND	No	227	n/a	n/a	95.15	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Cadmium (mg/L)	ARGWC-16	0.0043	n/a	8/21/2024	0.001ND	No	227	n/a	n/a	95.15	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Cadmium (mg/L)	ARGWC-17	0.0043	n/a	8/21/2024	0.001ND	No	227	n/a	n/a	95.15	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Lead (mg/L)	ARGWC-10	0.013	n/a	8/21/2024	0.002ND	No	233	n/a	n/a	90.56	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Lead (mg/L)	ARGWC-15	0.013	n/a	8/21/2024	0.000948J	No	233	n/a	n/a	90.56	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Lead (mg/L)	ARGWC-16	0.013	n/a	8/21/2024	0.002ND	No	233	n/a	n/a	90.56	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Lead (mg/L)	ARGWC-17	0.013	n/a	8/21/2024	0.002ND	No	233	n/a	n/a	90.56	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Lead (mg/L)	ARGWC-18	0.013	n/a	8/21/2024	0.002ND	No	233	n/a	n/a	90.56	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Lead (mg/L)	ARGWC-7	0.013	n/a	8/21/2024	0.002ND	No	233	n/a	n/a	90.56	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Lead (mg/L)	ARGWC-8	0.013	n/a	8/21/2024	0.002ND	No	233	n/a	n/a	90.56	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Lead (mg/L)	ARGWC-9	0.013	n/a	8/21/2024	0.002ND	No	233	n/a	n/a	90.56	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Selenium (mg/L)	ARGWC-10	0.034	n/a	8/21/2024	0.005ND	No	235	n/a	n/a	82.55	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Selenium (mg/L)	ARGWC-15	0.034	n/a	8/21/2024	0.005ND	No	235	n/a	n/a	82.55	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Selenium (mg/L)	ARGWC-16	0.034	n/a	8/21/2024	0.00497J	No	235	n/a	n/a	82.55	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Selenium (mg/L)	ARGWC-17	0.034	n/a	8/21/2024	0.005ND	No	235	n/a	n/a	82.55	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Selenium (mg/L)	ARGWC-18	0.034	n/a	8/21/2024	0.005ND	No	235	n/a	n/a	82.55	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Selenium (mg/L)	ARGWC-7	0.034	n/a	8/21/2024	0.005ND	No	235	n/a	n/a	82.55	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Selenium (mg/L)	ARGWC-8	0.034	n/a	8/21/2024	0.005ND	No	235	n/a	n/a	82.55	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Selenium (mg/L)	ARGWC-9	0.034	n/a	8/21/2024	0.005ND	No	235	n/a	n/a	82.55	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Silver (mg/L)	ARGWC-10	0.0051	n/a	8/21/2024	0.001ND	No	203	n/a	n/a	95.07	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Silver (mg/L)	ARGWC-15	0.0051	n/a	8/21/2024	0.001ND	No	203	n/a	n/a	95.07	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Silver (mg/L)	ARGWC-16	0.0051	n/a	8/21/2024	0.001ND	No	203	n/a	n/a	95.07	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Silver (mg/L)	ARGWC-17	0.0051	n/a	8/21/2024	0.001ND	No	203	n/a	n/a	95.07	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Silver (mg/L)	ARGWC-18	0.0051	n/a	8/21/2024	0.001ND	No	203	n/a	n/a	95.07	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Silver (mg/L)	ARGWC-7	0.0051	n/a	8/21/2024	0.001ND	No	203	n/a	n/a	95.07	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Silver (mg/L)	ARGWC-9	0.0051	n/a	8/21/2024	0.001ND	No	203	n/a	n/a	95.07	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2

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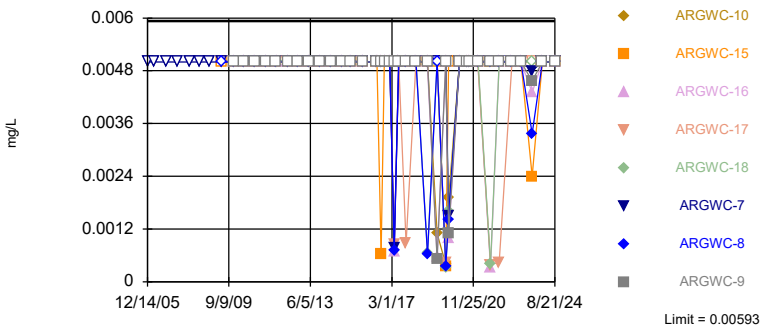
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 235 background values. 82.13% NDs. Annual per-constituent alpha = 0.0007864. Individual comparison alpha = 0.00004917 (1 of 2). Comparing 8 points to limit.

Constituent: Arsenic Analysis Run 10/3/2024 11:17 AM View: Appendix I
Plant Arkwright Client: Southern Company Data: Arkwright No 3

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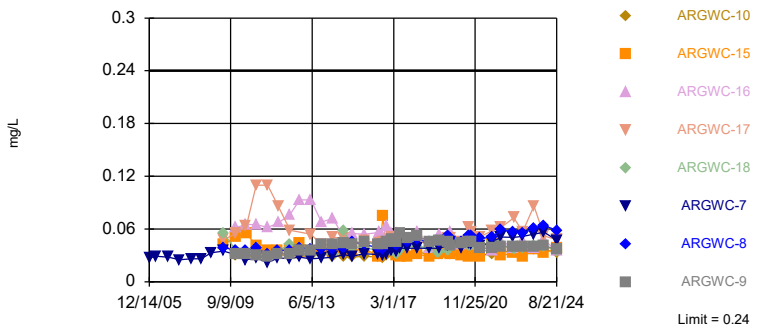
Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 232 background values. Annual per-constituent alpha = 0.0007864. Individual comparison alpha = 0.00004917 (1 of 2). Comparing 8 points to limit.

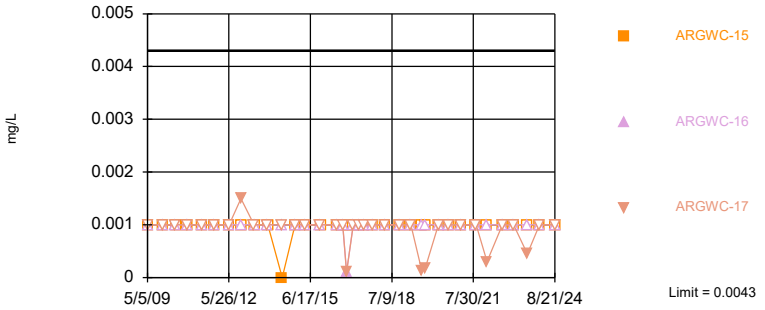
Constituent: Barium Analysis Run 10/3/2024 11:17 AM View: Appendix I
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 227 background values. 95.15% NDs. Annual per-constituent alpha = 0.0007864. Individual comparison alpha = 0.00004917 (1 of 2). Comparing 3 points to limit. Assumes 5 future values.

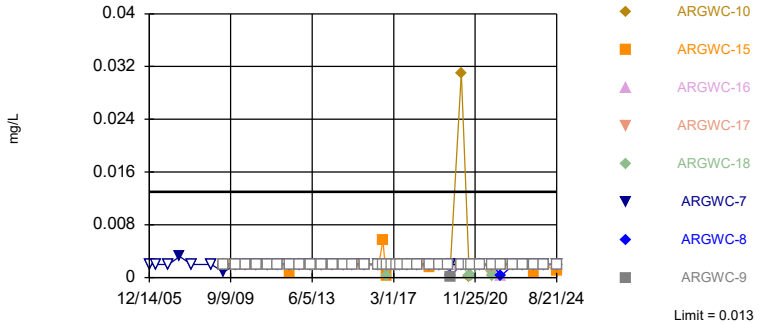
Constituent: Cadmium Analysis Run 10/3/2024 11:17 AM View: Appendix I
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 233 background values. 90.56% NDs. Annual per-constituent alpha = 0.0007864. Individual comparison alpha = 0.00004917 (1 of 2). Comparing 8 points to limit.

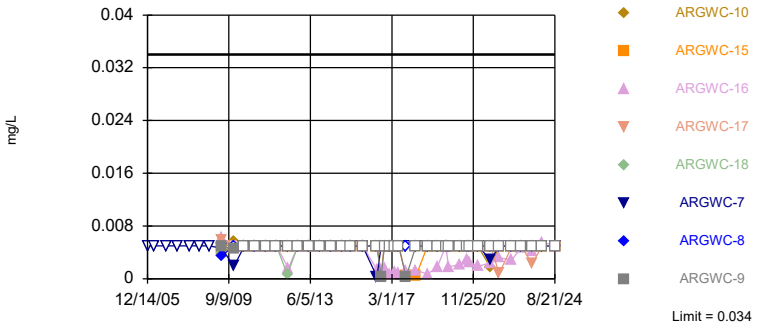
Constituent: Lead Analysis Run 10/3/2024 11:17 AM View: Appendix I
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 235 background values. 82.55% NDs. Annual per-constituent alpha = 0.0007864. Individual comparison alpha = 0.00004917 (1 of 2). Comparing 8 points to limit.

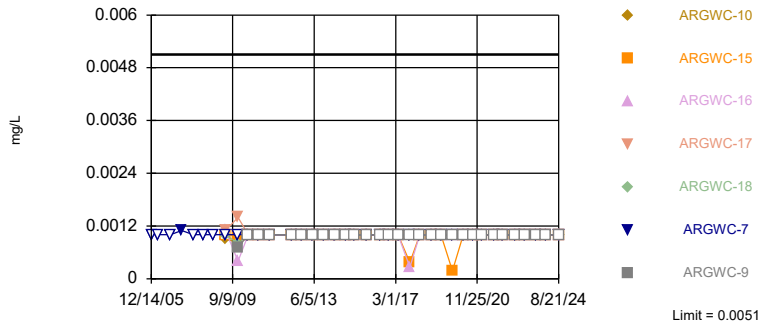
Constituent: Selenium Analysis Run 10/3/2024 11:17 AM View: Appendix I
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 203 background values. 95.07% NDs. Annual per-constituent alpha = 0.0007864. Individual comparison alpha = 0.00004917 (1 of 2). Comparing 7 points to limit. Assumes 1 future value.

Constituent: Silver Analysis Run 10/3/2024 11:17 AM View: Appendix I
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 10/3/2024 11:19 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	<0.005							
6/30/1998	0.0006	<0.005							
12/2/1998	0.0007	<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	0.000475	0.00032							
12/5/2001	<0.005	0.0003							
6/26/2002	0.000431	0.000939							
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	0.0044	<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				<0.005					
5/6/2009		<0.005			<0.005				
5/7/2009	0.0028					0.0013			
5/12/2009							<0.005		
5/13/2009									0.0034 (o)
5/14/2009			<0.005					<0.005	
12/1/2009		<0.005	<0.005						
12/3/2009					<0.005	<0.005		<0.005	<0.005
12/4/2009	<0.005			<0.005			<0.005		
12/5/2009									
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								<0.005	
5/19/2011									<0.005
5/24/2011		<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					<0.005	<0.005
11/12/2011	<0.005						<0.005		
5/17/2012			<0.005					<0.005	<0.005
5/18/2012		<0.005			<0.005				
5/30/2012						<0.005	<0.005		
5/31/2012	<0.005			<0.005					
11/9/2012		<0.005	<0.005		<0.005	<0.005	0.01 (o)	<0.005	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 10/3/2024 11:19 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				<0.005					
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						<0.005			
5/13/2013	<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	<0.005
5/28/2014				<0.005					
5/29/2014	<0.005								
11/17/2014		<0.005	<0.005				<0.005		
11/18/2014					<0.005	<0.005		<0.005	<0.005
11/19/2014									
11/20/2014				<0.005					
4/7/2015		<0.005	<0.005			<0.005	<0.005	<0.005	<0.005
4/14/2015	<0.005			<0.005	<0.005				
4/15/2015									
10/28/2015		<0.005	<0.005			<0.005	<0.005	<0.005	<0.005
10/29/2015					<0.005				
11/3/2015	<0.005			<0.005					
11/4/2015									
6/23/2016	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005
6/24/2016							<0.005		
8/30/2016		<0.005			<0.005				
8/31/2016	<0.005		<0.005			<0.005		<0.005	<0.005
9/1/2016							<0.005		
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					<0.005				
1/24/2017	<0.005	<0.005				<0.005			
1/26/2017			<0.005	<0.005			<0.005	<0.005	<0.005
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)	<0.005				0.00072 (J)	<0.005
6/20/2017	0.00064 (J)	0.00052 (J)							
6/21/2017				<0.005	<0.005	<0.005	<0.005	<0.005	
6/22/2017			<0.005						<0.005
10/25/2017	<0.005	<0.005	<0.005		<0.005	<0.005			<0.005
10/26/2017				<0.005			0.00087 (J)	<0.005	
4/9/2018						<0.005			
4/10/2018	<0.005	<0.005	<0.005	<0.005	<0.005		<0.005		
4/11/2018								<0.005	<0.005
10/16/2018	<0.005	<0.005			<0.005	0.00055 (J)			
10/17/2018			<0.005	<0.005			<0.005	0.00063 (J)	<0.005
3/26/2019						0.00089 (J)			
3/27/2019	0.00055 (J)	0.00055 (J)		<0.005	0.00049 (J)				

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 10/3/2024 11:19 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			<0.005				<0.005	<0.005	0.00051 (J)
8/19/2019						0.00045 (J)			
8/20/2019	0.00045 (J)	0.00058 (J)			0.00046 (J)				
8/21/2019			<0.005	0.00036 (J)			0.00044 (J)	0.00036 (J)	<0.005
10/7/2019									
10/8/2019	<0.005	<0.005		<0.005	<0.005	<0.005			
10/9/2019			0.0015				0.0015	0.0014	0.0011
4/6/2020									
4/7/2020	<0.005	<0.005			<0.005	<0.005			
4/8/2020			<0.005	<0.005			<0.005		
4/9/2020								<0.005	<0.005
8/18/2020	<0.005	<0.005	<0.005		<0.005	<0.005	<0.005		
8/19/2020				<0.005					<0.005
8/20/2020								<0.005	
9/29/2020	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005		
9/30/2020									
10/1/2020								<0.005	<0.005
12/1/2020									
2/9/2021	<0.005	<0.005		<0.005	<0.005	<0.005	<0.005		
2/10/2021			<0.005					<0.005	<0.005
2/11/2021									
9/7/2021					<0.005	<0.005			
9/8/2021	<0.005	<0.005		<0.005			0.00039 (J)		
9/9/2021								<0.005	<0.005
9/10/2021			<0.005						
2/1/2022	<0.005	<0.005			<0.005	<0.005			
2/2/2022							0.00044 (J)	<0.005	<0.005
2/3/2022			<0.005	<0.005					
8/30/2022		<0.005			<0.005				
8/31/2022	<0.005		<0.005	<0.005		<0.005		<0.005	<0.005
9/2/2022							<0.005		
2/2/2023			<0.005		<0.005			<0.005	<0.005
2/3/2023	<0.005	<0.005		<0.005		<0.005	<0.005		
2/7/2023									
8/9/2023	<0.005				<0.005	<0.005	<0.005		
8/10/2023		0.00593	0.0048 (J)	0.0024 (J)				0.00337 (J)	0.00457 (J)
1/24/2024	<0.005	<0.005							
1/25/2024			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
8/20/2024	<0.005				<0.005				
8/21/2024		<0.005	<0.005	<0.005		<0.005	<0.005	<0.005	<0.005
8/22/2024									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 10/3/2024 11:19 AM View: Appendix I

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-10	ARGWC-18	ARGWC-16	ARGWA-14 (bg)	ARGWA-24 (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	<0.005				
12/4/2009		<0.005			
12/5/2009			<0.005		
5/25/2010		<0.005			
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		<0.005	
5/18/2011					
5/19/2011	<0.005	<0.005		<0.005	
5/24/2011			<0.005		
5/25/2011					
11/9/2011				<0.005	
11/10/2011					
11/11/2011	<0.005				
11/12/2011		<0.005	<0.005		
5/17/2012	<0.005	<0.005			
5/18/2012					
5/30/2012			<0.005	0.0026 (J)	
5/31/2012					
11/9/2012	<0.005		<0.005		

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 10/3/2024 11:19 AM View: Appendix I

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-10	ARGWC-18	ARGWC-16	ARGWA-14 (bg)	ARGWA-24 (bg)
11/10/2012		<0.005			
11/11/2012				<0.005	
5/7/2013	<0.005	<0.005			
5/8/2013					
5/9/2013				<0.005	
5/13/2013			<0.005		
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		
5/28/2014		<0.005			
5/29/2014				0.005 (J)	
11/17/2014			<0.005		
11/18/2014	<0.005				
11/19/2014		<0.005		<0.005	
11/20/2014					
4/7/2015	<0.005		<0.005		
4/14/2015				<0.005	
4/15/2015		<0.005			
10/28/2015	<0.005		<0.005		
10/29/2015		<0.005			
11/3/2015					
11/4/2015				<0.005	
6/23/2016	<0.005			0.0026	
6/24/2016		<0.005	<0.005		
8/30/2016					
8/31/2016				0.0032	
9/1/2016	<0.005	<0.005	<0.005		
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			<0.005		
1/27/2017	<0.005	<0.005			
4/11/2017			0.00067 (J)	0.00095 (J)	
4/12/2017	<0.005	<0.005			
6/20/2017				0.00099 (J)	
6/21/2017		<0.005	<0.005		
6/22/2017	<0.005				
10/25/2017		<0.005		<0.005	
10/26/2017	<0.005		<0.005		
4/9/2018				<0.005	
4/10/2018			<0.005		
4/11/2018	<0.005	<0.005			
10/16/2018			<0.005	0.00083 (J)	
10/17/2018	<0.005	0.00066 (J)			
3/26/2019					
3/27/2019		<0.005		0.0013	

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 10/3/2024 11:19 AM View: Appendix I

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-10	ARGWC-18	ARGWC-16	ARGWA-14 (bg)	ARGWA-24 (bg)
3/28/2019	0.0011 (J)		0.00057 (J)		
8/19/2019					
8/20/2019			<0.005		
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				<0.005	
4/7/2020					
4/8/2020	<0.005		<0.005		
4/9/2020		<0.005			
8/18/2020					
8/19/2020	<0.005		<0.005	<0.005	
8/20/2020		<0.005			
9/29/2020			<0.005	0.00038 (J)	
9/30/2020		<0.005			
10/1/2020	<0.005				
12/1/2020					<0.005
2/9/2021	<0.005		<0.005		<0.005
2/10/2021		<0.005			
2/11/2021				<0.005	
9/7/2021					
9/8/2021			0.00031 (J)	0.00034 (J)	<0.005
9/9/2021		0.0004 (J)			
9/10/2021	<0.005				
2/1/2022					<0.005
2/2/2022	<0.005			0.00033 (J)	
2/3/2022		<0.005	<0.005		
8/30/2022					
8/31/2022	<0.005		<0.005	<0.005	<0.005
9/2/2022		<0.005			
2/2/2023	<0.005	<0.005	<0.005		<0.005
2/3/2023					
2/7/2023				<0.005	
8/9/2023	<0.005				<0.005
8/10/2023		<0.005	0.00431 (J)	0.00349 (J)	
1/24/2024				<0.005	<0.005
1/25/2024	<0.005	<0.005	<0.005		
8/20/2024					<0.005
8/21/2024	<0.005	<0.005	<0.005		
8/22/2024				<0.005	

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 10/3/2024 11:19 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-18	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							0.048	0.055	
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			0.055	0.036	
12/5/2009									
5/25/2010	0.03				0.038 (o)	0.049	0.063	0.033	
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	0.092 (o)	
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 10/3/2024 11:19 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-18	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							0.044	0.034	
8/30/2016	0.026				0.062				
8/31/2016		0.018	0.03			0.041			0.037
9/1/2016							0.046	0.033	
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	0.043	0.036	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			0.043	0.039	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 10/3/2024 11:19 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-18	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			0.05	0.036	0.052
10/7/2019									
10/8/2019	0.03	0.02		0.031	0.078	0.042			
10/9/2019			0.046				0.049	0.039	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
8/18/2020	0.031	0.021	0.044		0.079	0.025	0.062		
8/19/2020				0.028					
8/20/2020								0.041	0.053
9/29/2020	0.03	0.019	0.042	0.03	0.079	0.024	0.056		
9/30/2020								0.041	
10/1/2020									0.052
12/1/2020									
2/9/2021	0.028	0.017		0.029	0.076	0.022	0.051		
2/10/2021			0.041					0.038	0.049
2/11/2021									
9/7/2021					0.073	0.031			
9/8/2021	0.033	0.018		0.043			0.058		
9/9/2021								0.046	0.051
9/10/2021			0.045						
2/1/2022	0.033	0.018			0.079	0.018			
2/2/2022							0.062		0.059
2/3/2022			0.051	0.03				0.043	
8/30/2022	0.0446				0.085				
8/31/2022		0.0181	0.0505	0.0325		0.0262			0.0571
9/2/2022							0.0727	0.0369	
2/2/2023			0.0518		0.087			0.0387	0.0554
2/3/2023	0.0484	0.0177		0.0287		0.0166	0.0572		
2/7/2023									
8/9/2023		0.0191			0.1	0.0299	0.0861		
8/10/2023	0.0638		0.054	0.037				0.0415	0.0603
1/24/2024	0.0621	0.0178							
1/25/2024			0.0563	0.0325	0.0833	0.0221	0.0519	0.0404	0.0641
8/20/2024		0.0172			0.0701				
8/21/2024	0.0756		0.0473	0.039		0.0218	0.048	0.0355	0.0585
8/22/2024									

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 10/3/2024 11:19 AM View: Appendix I

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-10	ARGWC-9	ARGWC-16	ARGWA-14 (bg)	ARGWA-24 (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 10/3/2024 11:19 AM View: Appendix I

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-10	ARGWC-9	ARGWC-16	ARGWA-14 (bg)	ARGWA-24 (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	
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 10/3/2024 11:19 AM View: Appendix I

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-10	ARGWC-9	ARGWC-16	ARGWA-14 (bg)	ARGWA-24 (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			
8/18/2020					
8/19/2020	0.034	0.046	0.045	0.041	
8/20/2020					
9/29/2020			0.042	0.062	
9/30/2020					
10/1/2020	0.032	0.045			
12/1/2020					0.038
2/9/2021	0.031		0.044		0.036
2/10/2021		0.038			
2/11/2021				0.066	
9/7/2021					
9/8/2021			0.035	0.037	0.039
9/9/2021		0.038			
9/10/2021	0.031				
2/1/2022					0.04
2/2/2022	0.034	0.04		0.062	
2/3/2022			0.047		
8/30/2022					
8/31/2022	0.0345	0.0391	0.0383	0.074	0.0412
9/2/2022					
2/2/2023	0.034	0.0391	0.0468		0.0392
2/3/2023					
2/7/2023				0.0376	
8/9/2023	0.0363				0.039
8/10/2023		0.0401	0.0381	0.0465	
1/24/2024				0.093	0.0369
1/25/2024	0.0373	0.0414	0.0476		
8/20/2024					0.0344
8/21/2024	0.0328	0.0363	0.0349		
8/22/2024				0.0563	

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 10/3/2024 11:19 AM View: Appendix I

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	ARGWA-14 (bg)	ARGWA-24 (bg)
12/16/1997	<0.001	0.103 (o)							
6/30/1998	<0.001	0.007 (o)							
12/2/1998	<0.001	0.007 (o)							
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	<0.001							
12/5/2001	<0.001	0.002							
6/26/2002	<0.001	0.003							
12/3/2002	<0.001	<0.001							
6/11/2003	<0.001	0.0043							
12/10/2003	<0.001	<0.001							
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	<0.001	<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	0.00033							
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				
5/12/2009						<0.001	<0.001		
12/1/2009	<0.001								
12/3/2009				<0.001	<0.001				
12/4/2009		<0.001	<0.001				<0.001		
12/5/2009						<0.001			
5/25/2010	<0.001			<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	<0.001		
11/10/2010		<0.001	<0.001		<0.001			<0.001	
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				
11/9/2011			<0.001					<0.001	
11/10/2011	<0.001			<0.001	<0.001				
11/12/2011		<0.001				<0.001	<0.001		
5/18/2012	<0.001			<0.001					
5/30/2012					<0.001	<0.001	<0.001	<0.001	
5/31/2012		<0.001	<0.001						
11/9/2012	<0.001			<0.001	<0.001	<0.001	0.0015		
11/10/2012			<0.001						
11/11/2012		<0.001						<0.001	
5/8/2013	<0.001			<0.001			<0.001		
5/9/2013					<0.001			<0.001	
5/13/2013		<0.001	<0.001			<0.001			
11/6/2013	<0.001			<0.001		<0.001	<0.001		

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 10/3/2024 11:19 AM View: Appendix I

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	ARGWA-14 (bg)	ARGWA-24 (bg)
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	<0.001			
5/28/2014			0						
5/29/2014		<0.001						<0.001	
11/17/2014	<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		
4/14/2015		<0.001	<0.001	0.00026				<0.001	
10/28/2015	<0.001				<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	
6/24/2016						<0.001	<0.001		
8/30/2016	<0.001			<0.001					
8/31/2016		<0.001			<0.001			0.00039 (J)	
9/1/2016						<0.001	<0.001		
9/2/2016			<0.001						
10/24/2016				<0.001					
10/25/2016	<0.001	<0.001			<0.001	0.0001 (J)	0.0001 (J)	<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			<0.001	<0.001		
4/11/2017	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001	
4/12/2017			<0.001						
6/20/2017	<0.001	<0.001						<0.001	
6/21/2017			<0.001	<0.001	<0.001	<0.001	<0.001		
10/25/2017	<0.001	<0.001		<0.001	<0.001			<0.001	
10/26/2017			<0.001			<0.001	<0.001		
4/9/2018					<0.001			0.00052 (J)	
4/10/2018	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001		
10/16/2018	<0.001	<0.001		<0.001	<0.001	<0.001		0.00071 (J)	
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	<0.001		
8/19/2019					<0.001				
8/20/2019	<0.001	0.00014 (J)		<0.001		<0.001			
8/21/2019			<0.001				0.00013 (J)	0.00015 (J)	
10/7/2019								<0.001	
10/8/2019	<0.001	<0.001	<0.001	<0.001	<0.001				
10/9/2019						<0.001	0.00018 (J)		
4/6/2020								<0.001	
4/7/2020	<0.001	<0.001		<0.001	<0.001				
4/8/2020			<0.001			<0.001	<0.001		
8/18/2020	<0.001	<0.001		<0.001	<0.001		<0.001		
8/19/2020			<0.001			<0.001		<0.001	

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 10/3/2024 11:19 AM View: Appendix I

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	ARGWA-14 (bg)	ARGWA-24 (bg)
12/1/2020									<0.001
2/9/2021	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001
2/11/2021								<0.001	
9/7/2021				<0.001	<0.001				
9/8/2021	<0.001	<0.001	<0.001			<0.001	<0.001	<0.001	<0.001
2/1/2022	<0.001	<0.001		<0.001	<0.001				<0.001
2/2/2022							0.0003 (J)	<0.001	
2/3/2022			<0.001			<0.001			
8/30/2022	<0.001			<0.001					
8/31/2022		<0.001	<0.001		<0.001	<0.001		<0.001	<0.001
9/2/2022							<0.001		
2/2/2023				<0.001		<0.001			<0.001
2/3/2023	<0.001	<0.001	<0.001		<0.001		<0.001		
2/7/2023								<0.001	
8/9/2023		<0.001		<0.001	<0.001		0.000445 (J)		<0.001
8/10/2023	<0.001		<0.001			<0.001		<0.001	
1/24/2024	<0.001	<0.001						<0.001	<0.001
1/25/2024			<0.001	<0.001	<0.001	<0.001	<0.001		
8/20/2024		<0.001		<0.001					<0.001
8/21/2024	<0.001		<0.001		<0.001	<0.001	<0.001		
8/22/2024								<0.001	

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 10/3/2024 11:19 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	<0.002	0.162 (o)							
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	<0.002	0.00378							
12/5/2001	<0.002	0.003							
6/26/2002	0.00539	0.00815							
12/3/2002	<0.002	0.008							
6/11/2003	<0.002	<0.002							
12/10/2003	<0.002	<0.002							
6/15/2004	<0.002	<0.002							
12/14/2004	0.013 (o)	<0.002							
6/2/2005	<0.002	<0.002							
12/14/2005	<0.002	<0.002	<0.002						
4/5/2006	<0.002	<0.002	<0.002						
10/30/2006	<0.002	<0.002	<0.002						
5/10/2007	<0.002	<0.002	0.0032						
11/17/2007	<0.002	<0.002	<0.002						
5/2/2008			0.008 (o)						
5/3/2008	<0.002	<0.002							
10/22/2008	<0.002	<0.002	<0.002						
5/5/2009				<0.002					
5/6/2009	<0.002				<0.002				
5/7/2009		<0.002				<0.002			
5/12/2009							<0.002	<0.002	<0.002
5/13/2009									
5/14/2009			0.00083						
12/1/2009	<0.002		<0.002						
12/3/2009					<0.002	<0.002			
12/4/2009		<0.002		<0.002				<0.002	<0.002
12/5/2009							<0.002		
5/25/2010	<0.002				<0.002	<0.002		<0.002	<0.002
5/26/2010			<0.002				<0.002		
6/1/2010		<0.002		<0.002					
6/2/2010									
11/9/2010	<0.002				<0.002		<0.002	<0.002	
11/10/2010		<0.002	<0.002	<0.002		<0.002			<0.002
5/18/2011									
5/19/2011									<0.002
5/24/2011	<0.002				<0.002		<0.002	<0.002	
5/25/2011		<0.002	<0.002	<0.002		<0.002			
11/9/2011				<0.002					
11/10/2011	<0.002				<0.002	<0.002			
11/11/2011			<0.002						
11/12/2011		<0.002					<0.002	<0.002	<0.002
5/17/2012			<0.002						<0.002
5/18/2012	<0.002				<0.002				
5/30/2012						<0.002	<0.002	<0.002	
5/31/2012		0.0005 (J)		0.0008 (J)					
11/9/2012	<0.002		<0.002		<0.002	<0.002	<0.002	<0.002	

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 10/3/2024 11:19 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				<0.002					<0.002
11/11/2012		<0.002							
5/7/2013									<0.002
5/8/2013	<0.002		<0.002		<0.002			<0.002	
5/9/2013						<0.002			
5/13/2013		<0.002		0.025 (o)			<0.002		
11/5/2013			<0.002						<0.002
11/6/2013	<0.002				<0.002		<0.002	<0.002	
11/11/2013						<0.002			
11/12/2013		<0.002		<0.002					
5/20/2014	<0.002				<0.002			<0.002	
5/21/2014			<0.002			<0.002	<0.002		
5/28/2014				<0.002					<0.002
5/29/2014		<0.002							
11/17/2014	<0.002		<0.002				<0.002	<0.002	
11/18/2014					<0.002	<0.002			
11/19/2014									<0.002
11/20/2014				<0.002					
4/7/2015	<0.002		<0.002			<0.002	<0.002	<0.002	
4/14/2015		<0.002		<0.002	<0.002				
4/15/2015									<0.002
10/28/2015	<0.002		<0.002			<0.002	<0.002	<0.002	
10/29/2015					<0.002				<0.002
11/3/2015		<0.002		<0.002					
11/4/2015									
6/23/2016	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002			
6/24/2016							<0.002	<0.002	<0.002
8/30/2016	<0.002				<0.002				
8/31/2016		<0.002	<0.002			<0.002			
9/1/2016							<0.002	<0.002	<0.002
9/2/2016				0.0056					
10/24/2016					0.0002 (J)				
10/25/2016	<0.002	<0.002	<0.002			<0.002	<0.002	<0.002	
10/26/2016				0.0003 (J)					0.0002 (J)
1/23/2017					<0.002				
1/24/2017	<0.002	<0.002				<0.002			
1/26/2017			<0.002	<0.002			<0.002	<0.002	
1/27/2017									<0.002
4/11/2017	<0.002	<0.002			<0.002	<0.002	<0.002	<0.002	
4/12/2017			<0.002	<0.002					<0.002
6/20/2017	<0.002	<0.002							
6/21/2017				<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
6/22/2017			<0.002						
10/25/2017	<0.002	<0.002	<0.002		<0.002	<0.002			<0.002
10/26/2017				<0.002			<0.002	<0.002	
4/9/2018						<0.002			
4/10/2018	<0.002	<0.002	<0.002	<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	0.0016				<0.002	<0.002
3/26/2019						<0.002			
3/27/2019	<0.002	<0.002		<0.002	<0.002				<0.002

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 10/3/2024 11:19 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
3/28/2019			<0.002				<0.002	<0.002	
8/19/2019						<0.002			
8/20/2019	0.00014 (J)	0.00014 (J)			<0.002		<0.002		
8/21/2019			<0.002	<0.002				<0.002	<0.002
10/7/2019									
10/8/2019	0.00016 (J)	0.001		<0.002	<0.002	0.00013 (J)			
10/9/2019			<0.002				<0.002	<0.002	<0.002
4/6/2020									
4/7/2020	<0.002	<0.002			<0.002	<0.002			
4/8/2020			<0.002	<0.002			<0.002	<0.002	
4/9/2020									<0.002
8/18/2020	0.00013 (J)	0.00019 (J)	<0.002		<0.002	<0.002		<0.002	
8/19/2020				<0.002			<0.002		
8/20/2020									0.00028 (J)
9/29/2020	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
9/30/2020									0.0002 (J)
10/1/2020									
12/1/2020									
2/9/2021	<0.002	<0.002		<0.002	<0.002	<0.002	<0.002	<0.002	
2/10/2021			<0.002						<0.002
2/11/2021									
9/7/2021					<0.002	<0.002			
9/8/2021	<0.002	<0.002		0.0016			<0.002	0.00022 (J)	
9/9/2021									0.00031 (J)
9/10/2021			<0.002						
2/1/2022	<0.002	<0.002			<0.002	<0.002			
2/2/2022								<0.002	
2/3/2022			<0.002	<0.002			0.00021 (J)		<0.002
8/30/2022	<0.002				<0.002				
8/31/2022		<0.002	<0.002	<0.002		<0.002	<0.002		
9/2/2022								<0.002	<0.002
2/2/2023			<0.002		<0.002		<0.002		<0.002
2/3/2023	<0.002	<0.002		<0.002		<0.002		<0.002	
2/7/2023									
8/9/2023		<0.002			<0.002	<0.002		<0.002	
8/10/2023	<0.002		<0.002	0.000841 (J)			<0.002		<0.002
1/24/2024	<0.002	<0.002							
1/25/2024			<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
8/20/2024		<0.002			<0.002				
8/21/2024	<0.002		<0.002	0.000948 (J)		<0.002	<0.002	<0.002	<0.002
8/22/2024									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 10/3/2024 11:19 AM View: Appendix I

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-9	ARGWC-10	ARGWC-8	ARGWA-14 (bg)	ARGWA-24 (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	<0.002	<0.002			
5/14/2009			<0.002		
12/1/2009					
12/3/2009	<0.002	<0.002	<0.002		
12/4/2009					
12/5/2009					
5/25/2010					
5/26/2010	<0.002	<0.002	<0.002		
6/1/2010					
6/2/2010				<0.002	
11/9/2010	<0.002	<0.002	<0.002		
11/10/2010				<0.002	
5/18/2011			<0.002		
5/19/2011	<0.002	<0.002		<0.002	
5/24/2011					
5/25/2011					
11/9/2011				<0.002	
11/10/2011					
11/11/2011	<0.002	<0.002	<0.002		
11/12/2011					
5/17/2012	<0.002	<0.002	<0.002		
5/18/2012					
5/30/2012				<0.002	
5/31/2012					
11/9/2012	<0.002	<0.002	<0.002		

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 10/3/2024 11:19 AM View: Appendix I

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-9	ARGWC-10	ARGWC-8	ARGWA-14 (bg)	ARGWA-24 (bg)
11/10/2012					
11/11/2012				<0.002	
5/7/2013	<0.002	<0.002	<0.002		
5/8/2013					
5/9/2013				<0.002	
5/13/2013					
11/5/2013			<0.002		
11/6/2013	<0.002	<0.002			
11/11/2013				<0.002	
11/12/2013					
5/20/2014		<0.002			
5/21/2014	<0.002		<0.002		
5/28/2014					
5/29/2014				<0.002	
11/17/2014					
11/18/2014	<0.002	<0.002	<0.002		
11/19/2014				<0.002	
11/20/2014					
4/7/2015	<0.002	<0.002	<0.002		
4/14/2015				<0.002	
4/15/2015					
10/28/2015	<0.002	<0.002	<0.002		
10/29/2015					
11/3/2015					
11/4/2015				<0.002	
6/23/2016	<0.002	<0.002	<0.002	<0.002	
6/24/2016					
8/30/2016					
8/31/2016	<0.002		<0.002	<0.002	
9/1/2016		<0.002			
9/2/2016					
10/24/2016					
10/25/2016	<0.002	<0.002		<0.002	
10/26/2016			<0.002		
1/23/2017				0.0013	
1/24/2017					
1/26/2017	<0.002		<0.002		
1/27/2017		<0.002			
4/11/2017				<0.002	
4/12/2017	<0.002	<0.002	<0.002		
6/20/2017				<0.002	
6/21/2017			<0.002		
6/22/2017	<0.002	<0.002			
10/25/2017	<0.002			<0.002	
10/26/2017		<0.002	<0.002		
4/9/2018				<0.002	
4/10/2018					
4/11/2018	<0.002	<0.002	<0.002		
10/16/2018				<0.002	
10/17/2018	<0.002	<0.002	<0.002		
3/26/2019					
3/27/2019				<0.002	

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 10/3/2024 11:19 AM View: Appendix I

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-9	ARGWC-10	ARGWC-8	ARGWA-14 (bg)	ARGWA-24 (bg)
3/28/2019	<0.002	<0.002	<0.002		
8/19/2019					
8/20/2019					
8/21/2019	<0.002	<0.002	<0.002	0.00019 (J)	
10/7/2019				<0.002	
10/8/2019					
10/9/2019	0.00016 (J)	<0.002	0.00019 (J)		
4/6/2020				<0.002	
4/7/2020					
4/8/2020		0.031			
4/9/2020	<0.002		<0.002		
8/18/2020					
8/19/2020	<0.002	0.00013 (J)		<0.002	
8/20/2020			<0.002		
9/29/2020				<0.002	
9/30/2020					
10/1/2020	<0.002	<0.002	<0.002		
12/1/2020					<0.002
2/9/2021		<0.002			<0.002
2/10/2021	<0.002		<0.002		
2/11/2021				<0.002	
9/7/2021					
9/8/2021				<0.002	<0.002
9/9/2021	<0.002		<0.002		
9/10/2021		<0.002			
2/1/2022					<0.002
2/2/2022	<0.002	<0.002	0.00024 (J)	<0.002	
2/3/2022					
8/30/2022					
8/31/2022	<0.002	<0.002	<0.002	<0.002	<0.002
9/2/2022					
2/2/2023	<0.002	<0.002	<0.002		<0.002
2/3/2023					
2/7/2023				<0.002	
8/9/2023		<0.002			<0.002
8/10/2023	<0.002		<0.002	<0.002	
1/24/2024				<0.002	<0.002
1/25/2024	<0.002	<0.002	<0.002		
8/20/2024					<0.002
8/21/2024	<0.002	<0.002	<0.002		
8/22/2024				<0.002	

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 10/3/2024 11:19 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-16	ARGWC-18
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					0.0059			
5/12/2009							0.0059	0.0062	0.0039
5/13/2009									
5/14/2009			0.0046						
12/1/2009		0.0046	0.0019						
12/3/2009					0.006	0.0057			
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			<0.005						0.0006 (J)
5/18/2012		<0.005			<0.005				
5/30/2012						<0.005	<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	

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 10/3/2024 11:19 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-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	0.0083			
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			0.023	<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	0.0096			
6/24/2016							<0.005	0.0014	<0.005
8/30/2016		<0.005			<0.005				
8/31/2016	<0.005		<0.005			0.017			
9/1/2016							<0.005	0.0014	<0.005
9/2/2016				0.0005 (J)					
10/24/2016					<0.005				
10/25/2016	<0.005	<0.005	<0.005			0.0257	<0.005	0.0015 (J)	
10/26/2016				<0.005					<0.005
1/23/2017					<0.005				
1/24/2017	<0.005	<0.005				0.0097			
1/26/2017			<0.005	<0.005			<0.005	0.00071 (J)	
1/27/2017									<0.005
4/11/2017	<0.005	<0.005			<0.005	0.0079	<0.005	0.0011 (J)	
4/12/2017			<0.005	<0.005					<0.005
6/20/2017	<0.005	<0.005							
6/21/2017				<0.005	0.00025 (J)	0.019	<0.005	0.00075 (J)	<0.005
6/22/2017			<0.005						
10/25/2017	0.00032 (J)	0.00027 (J)	<0.005		0.00027 (J)	0.022			<0.005
10/26/2017				0.0004 (J)			<0.005	0.0012 (J)	
4/9/2018						0.0063			
4/10/2018	<0.005	<0.005	<0.005	0.00044 (J)	0.00033 (J)		<0.005	0.0013	
4/11/2018									<0.005
10/16/2018	<0.005	<0.005			<0.005	0.021		0.00072 (J)	
10/17/2018			<0.005	<0.005			<0.005		<0.005
3/26/2019						0.015			
3/27/2019	<0.005	<0.005		<0.005	<0.005				<0.005

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 10/3/2024 11:19 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-16	ARGWC-18
3/28/2019			<0.005				<0.005	0.0017	
8/19/2019						0.034			
8/20/2019	<0.005	<0.005			<0.005			<0.005	
8/21/2019			<0.005	<0.005			<0.005		<0.005
10/7/2019									
10/8/2019	<0.005	<0.005		<0.005	<0.005	0.03			
10/9/2019			<0.005				<0.005	0.0018 (J)	<0.005
4/6/2020									
4/7/2020	<0.005	<0.005			<0.005	0.0094			
4/8/2020			<0.005	<0.005			<0.005	0.0022 (J)	
4/9/2020									<0.005
8/18/2020	<0.005	<0.005	<0.005		<0.005	0.019	<0.005		
8/19/2020				<0.005				0.0029 (J)	
8/20/2020									<0.005
9/29/2020	<0.005	<0.005	<0.005	<0.005	<0.005	0.021	<0.005	0.0025 (J)	
9/30/2020									<0.005
10/1/2020									
12/1/2020									
2/9/2021	<0.005	<0.005		<0.005	<0.005	0.019	<0.005	0.0019 (J)	
2/10/2021			<0.005						<0.005
2/11/2021									
9/7/2021					<0.005	0.032			
9/8/2021	<0.005	<0.005		<0.005			<0.005	0.0024 (J)	
9/9/2021									<0.005
9/10/2021			0.0028 (J)						
2/1/2022	<0.005	<0.005			<0.005	0.013			
2/2/2022							0.00076 (J)		
2/3/2022			<0.005	<0.005				0.0032 (J)	<0.005
8/30/2022		<0.005			<0.005				
8/31/2022	<0.005		<0.005	<0.005		0.0259		0.00287 (J)	
9/2/2022							<0.005		<0.005
2/2/2023			<0.005		<0.005			0.00466 (J)	<0.005
2/3/2023	<0.005	<0.005		<0.005		0.00739	<0.005		
2/7/2023									
8/9/2023	<0.005				<0.005	0.0279	0.00231 (J)		
8/10/2023		<0.005	<0.005	<0.005				0.00421 (J)	<0.005
1/24/2024	<0.005	<0.005							
1/25/2024			<0.005	<0.005	<0.005	0.0173	<0.005	0.00555	<0.005
8/20/2024	<0.005				<0.005				
8/21/2024		<0.005	<0.005	<0.005		0.0209	<0.005	0.00497 (J)	<0.005
8/22/2024									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 10/3/2024 11:19 AM View: Appendix I

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-10	ARGWC-9	ARGWC-8	ARGWA-14 (bg)	ARGWA-24 (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	0.0049			
5/14/2009			0.0035		
12/1/2009					
12/3/2009	0.0057	0.0045	<0.005		
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	<0.005	<0.005	<0.005		
5/18/2012					
5/30/2012				<0.005	
5/31/2012					
11/9/2012	<0.005	<0.005	<0.005		

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 10/3/2024 11:19 AM View: Appendix I

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-10	ARGWC-9	ARGWC-8	ARGWA-14 (bg)	ARGWA-24 (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	
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	<0.005	<0.005	<0.005	<0.005	
6/24/2016					
8/30/2016					
8/31/2016		0.00024 (J)	<0.005	0.00077 (J)	
9/1/2016	<0.005				
9/2/2016					
10/24/2016					
10/25/2016	<0.005	<0.005		<0.005	
10/26/2016			<0.005		
1/23/2017				0.00037 (J)	
1/24/2017					
1/26/2017		<0.005	<0.005		
1/27/2017	<0.005				
4/11/2017				<0.005	
4/12/2017	<0.005	<0.005	<0.005		
6/20/2017				0.00044 (J)	
6/21/2017			<0.005		
6/22/2017	<0.005	<0.005			
10/25/2017		0.00029 (J)		0.00038 (J)	
10/26/2017	<0.005		<0.005		
4/9/2018				<0.005	
4/10/2018					
4/11/2018	<0.005	<0.005	<0.005		
10/16/2018				<0.005	
10/17/2018	<0.005	<0.005	<0.005		
3/26/2019					
3/27/2019				<0.005	

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 10/3/2024 11:19 AM View: Appendix I

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-10	ARGWC-9	ARGWC-8	ARGWA-14 (bg)	ARGWA-24 (bg)
3/28/2019	<0.005	<0.005	<0.005		
8/19/2019					
8/20/2019					
8/21/2019	<0.005	<0.005	<0.005	<0.005	
10/7/2019				<0.005	
10/8/2019					
10/9/2019	<0.005	<0.005	<0.005		
4/6/2020				<0.005	
4/7/2020					
4/8/2020	<0.005				
4/9/2020		<0.005	<0.005		
8/18/2020					
8/19/2020	<0.005	<0.005		<0.005	
8/20/2020			<0.005		
9/29/2020				<0.005	
9/30/2020					
10/1/2020	<0.005	<0.005	<0.005		
12/1/2020					<0.005
2/9/2021	<0.005				<0.005
2/10/2021		<0.005	<0.005		
2/11/2021				<0.005	
9/7/2021					
9/8/2021				<0.005	<0.005
9/9/2021		<0.005	<0.005		
9/10/2021	0.0017 (J)				
2/1/2022					<0.005
2/2/2022	<0.005	<0.005	<0.005	<0.005	
2/3/2022					
8/30/2022					
8/31/2022	<0.005	<0.005	<0.005	<0.005	<0.005
9/2/2022					
2/2/2023	<0.005	<0.005	<0.005		<0.005
2/3/2023					
2/7/2023				<0.005	
8/9/2023	<0.005				<0.005
8/10/2023		<0.005	<0.005	<0.005	
1/24/2024				<0.005	<0.005
1/25/2024	<0.005	<0.005	<0.005		
8/20/2024					<0.005
8/21/2024	<0.005	<0.005	<0.005		
8/22/2024				<0.005	

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Silver (mg/L) Analysis Run 10/3/2024 11:19 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-18	ARGWC-16
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	<0.001	0.0011
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	
5/19/2011								<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		
5/9/2013						<0.001			

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Silver (mg/L) Analysis Run 10/3/2024 11:19 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-18	ARGWC-16
5/13/2013		<0.001		<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
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			
6/24/2016							<0.001	<0.001	<0.001
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	
4/11/2017	<0.001	<0.001			<0.001	<0.001	<0.001		<0.001
4/12/2017			<0.001	<0.001				<0.001	
10/25/2017	<0.001	<0.001	<0.001		<0.001	0.00013 (J)		<0.001	
10/26/2017				0.00037 (J)			<0.001		0.00026 (J)
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	<0.001			<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				<0.001		<0.001
10/7/2019									
10/8/2019	0.0003 (J)	0.00019 (J)		0.00018 (J)	<0.001	0.00047 (J)			
10/9/2019			<0.001				<0.001	<0.001	<0.001
4/6/2020									
4/7/2020	<0.001	<0.001			<0.001	<0.001			
4/8/2020			<0.001	<0.001			<0.001		<0.001
4/9/2020								<0.001	
9/29/2020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001
9/30/2020								<0.001	
10/1/2020									
12/1/2020									
2/9/2021	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001		<0.001
2/10/2021			<0.001					<0.001	
2/11/2021									
9/7/2021					<0.001	<0.001			

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Silver (mg/L) Analysis Run 10/3/2024 11:19 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-18	ARGWC-16
9/8/2021	<0.001	<0.001		<0.001			<0.001		<0.001
9/9/2021								<0.001	
9/10/2021			<0.001						
2/1/2022	<0.001	<0.001			<0.001	<0.001			
2/2/2022							<0.001		
2/3/2022			<0.001	<0.001				<0.001	<0.001
8/30/2022	<0.001				<0.001				
8/31/2022		<0.001	<0.001	<0.001		<0.001			<0.001
9/2/2022							<0.001	<0.001	
2/2/2023			<0.001		<0.001			<0.001	<0.001
2/3/2023	<0.001	<0.001		<0.001		<0.001	<0.001		
2/7/2023									
8/9/2023		<0.001			<0.001	<0.001	<0.001		
8/10/2023	<0.001		<0.001	<0.001				<0.001	<0.001
1/24/2024	<0.001	<0.001							
1/25/2024			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
8/20/2024		<0.001			<0.001				
8/21/2024	<0.001		<0.001	<0.001		<0.001	<0.001	<0.001	<0.001
8/22/2024									

Prediction Limit

Constituent: Silver (mg/L) Analysis Run 10/3/2024 11:19 AM View: Appendix I

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-10	ARGWC-9	ARGWA-14 (bg)	ARGWA-24 (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				
12/1/2009				
12/3/2009	0.00083	0.0007		
12/4/2009				
12/5/2009				
5/25/2010				
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	
5/19/2011	<0.001	<0.001	<0.001	
5/24/2011				
5/25/2011				
5/17/2012	<0.001	<0.001		
5/18/2012				
5/30/2012			<0.001	
5/31/2012				
11/9/2012	<0.001	<0.001		
11/10/2012				
11/11/2012			<0.001	
5/7/2013	<0.001	<0.001		
5/8/2013				
5/9/2013			<0.001	

Prediction Limit

Constituent: Silver (mg/L) Analysis Run 10/3/2024 11:19 AM View: Appendix I

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-10	ARGWC-9	ARGWA-14 (bg)	ARGWA-24 (bg)
5/13/2013				
11/5/2013				
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				
5/29/2014			<0.001	
11/17/2014				
11/18/2014	<0.001	<0.001		
11/19/2014			<0.001	
11/20/2014				
4/7/2015	<0.001	<0.001		
4/14/2015			<0.001	
4/15/2015				
10/28/2015	<0.001	<0.001		
10/29/2015				
11/3/2015				
11/4/2015			<0.001	
6/23/2016	<0.001	<0.001	<0.001	
6/24/2016				
10/24/2016				
10/25/2016	<0.001	<0.001	<0.001	
10/26/2016				
4/11/2017			<0.001	
4/12/2017	<0.001	<0.001		
10/25/2017		<0.001	<0.001	
10/26/2017	<0.001			
4/9/2018			<0.001	
4/10/2018				
4/11/2018	<0.001	<0.001		
10/16/2018			<0.001	
10/17/2018	<0.001	<0.001		
3/26/2019				
3/27/2019			<0.001	
3/28/2019	<0.001	<0.001		
10/7/2019			0.00022 (J)	
10/8/2019				
10/9/2019	<0.001	<0.001		
4/6/2020			<0.001	
4/7/2020				
4/8/2020	<0.001			
4/9/2020		<0.001		
9/29/2020			<0.001	
9/30/2020				
10/1/2020	<0.001	<0.001		
12/1/2020				<0.001 (D)
2/9/2021	<0.001			<0.001
2/10/2021		<0.001		
2/11/2021			<0.001	
9/7/2021				

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Silver (mg/L) Analysis Run 10/3/2024 11:19 AM View: Appendix I

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-10	ARGWC-9	ARGWA-14 (bg)	ARGWA-24 (bg)
9/8/2021			<0.001	<0.001
9/9/2021		<0.001		
9/10/2021	<0.001			
2/1/2022				<0.001
2/2/2022	<0.001	<0.001	<0.001	
2/3/2022				
8/30/2022				
8/31/2022	<0.001	<0.001	<0.001	<0.001
9/2/2022				
2/2/2023	<0.001	<0.001		<0.001
2/3/2023				
2/7/2023			<0.001	
8/9/2023	<0.001			<0.001
8/10/2023		<0.001	<0.001	
1/24/2024			<0.001	<0.001
1/25/2024	<0.001	<0.001		
8/20/2024				<0.001
8/21/2024	<0.001	<0.001		
8/22/2024			<0.001	

FIGURE E.

Appendix III Interwell Prediction Limits - Significant Results

Plant Arkwright Client: Southern Company Data: Arkwright No 3 Printed 10/3/2024, 11:22 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**	**1.11**	**n/a**	**8/21/2024**	**2.47**	**Yes**	**114**	**n/a**	**n/a**	**42.98**	**n/a**	**n/a**	**0.0001522**	**NP Inter (normality) 1 of 2**
pH (SU)	**ARGWC-16**	**7.04**	**5.53**	**8/21/2024**	**5.24**	**Yes**	**123**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.000259**	**NP Inter (normality) 1 of 2**
pH (SU)	**ARGWC-17**	**7.04**	**5.53**	**8/21/2024**	**5.15**	**Yes**	**123**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.000259**	**NP Inter (normality) 1 of 2**

Appendix III Interwell Prediction Limits - All Results

Plant Arkwright Client: Southern Company Data: Arkwright No 3 Printed 10/3/2024, 11:22 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	1.11	n/a	8/21/2024	0.00605J	No	114	n/a	n/a	42.98	n/a	n/a	0.0001522	NP Inter (normality) 1 of 2
Boron (mg/L)	ARGWC-15	1.11	n/a	8/21/2024	0.0103J	No	114	n/a	n/a	42.98	n/a	n/a	0.0001522	NP Inter (normality) 1 of 2
Boron (mg/L)	ARGWC-16	1.11	n/a	8/21/2024	0.449	No	114	n/a	n/a	42.98	n/a	n/a	0.0001522	NP Inter (normality) 1 of 2
Boron (mg/L)	ARGWC-17	1.11	n/a	8/21/2024	0.0575	No	114	n/a	n/a	42.98	n/a	n/a	0.0001522	NP Inter (normality) 1 of 2
Boron (mg/L)	**ARGWC-18**	**1.11**	**n/a**	**8/21/2024**	**2.47**	**Yes**	**114**	**n/a**	**n/a**	**42.98**	**n/a**	**n/a**	**0.0001522**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	ARGWC-7	1.11	n/a	8/21/2024	0.0724	No	114	n/a	n/a	42.98	n/a	n/a	0.0001522	NP Inter (normality) 1 of 2
Boron (mg/L)	ARGWC-8	1.11	n/a	8/21/2024	0.877	No	114	n/a	n/a	42.98	n/a	n/a	0.0001522	NP Inter (normality) 1 of 2
Boron (mg/L)	ARGWC-9	1.11	n/a	8/21/2024	0.0066J	No	114	n/a	n/a	42.98	n/a	n/a	0.0001522	NP Inter (normality) 1 of 2
Calcium (mg/L)	ARGWC-10	190	n/a	8/21/2024	7.87	No	114	n/a	n/a	0	n/a	n/a	0.0001522	NP Inter (normality) 1 of 2
Calcium (mg/L)	ARGWC-15	190	n/a	8/21/2024	26.1	No	114	n/a	n/a	0	n/a	n/a	0.0001522	NP Inter (normality) 1 of 2
Calcium (mg/L)	ARGWC-16	190	n/a	8/21/2024	69.9	No	114	n/a	n/a	0	n/a	n/a	0.0001522	NP Inter (normality) 1 of 2
Calcium (mg/L)	ARGWC-17	190	n/a	8/21/2024	24.2	No	114	n/a	n/a	0	n/a	n/a	0.0001522	NP Inter (normality) 1 of 2
Calcium (mg/L)	ARGWC-18	190	n/a	8/21/2024	48.9	No	114	n/a	n/a	0	n/a	n/a	0.0001522	NP Inter (normality) 1 of 2
Calcium (mg/L)	ARGWC-7	190	n/a	8/21/2024	8.99	No	114	n/a	n/a	0	n/a	n/a	0.0001522	NP Inter (normality) 1 of 2
Calcium (mg/L)	ARGWC-8	190	n/a	8/21/2024	43.4	No	114	n/a	n/a	0	n/a	n/a	0.0001522	NP Inter (normality) 1 of 2
Calcium (mg/L)	ARGWC-9	190	n/a	8/21/2024	4.65	No	114	n/a	n/a	0	n/a	n/a	0.0001522	NP Inter (normality) 1 of 2
Chloride (mg/L)	ARGWC-10	17	n/a	8/21/2024	3.99	No	222	n/a	n/a	0.4505	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	ARGWC-15	17	n/a	8/21/2024	2.55	No	222	n/a	n/a	0.4505	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	ARGWC-16	17	n/a	8/21/2024	5.71	No	222	n/a	n/a	0.4505	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	ARGWC-17	17	n/a	8/21/2024	2.76	No	222	n/a	n/a	0.4505	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	ARGWC-18	17	n/a	8/21/2024	6.72	No	222	n/a	n/a	0.4505	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	ARGWC-7	17	n/a	8/21/2024	4.45	No	222	n/a	n/a	0.4505	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	ARGWC-8	17	n/a	8/21/2024	5.59	No	222	n/a	n/a	0.4505	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	ARGWC-9	17	n/a	8/21/2024	4.93	No	222	n/a	n/a	0.4505	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Fluoride (mg/L)	ARGWC-10	0.53	n/a	8/21/2024	0.063J	No	124	n/a	n/a	27.42	n/a	n/a	0.0001277	NP Inter (normality) 1 of 2
Fluoride (mg/L)	ARGWC-15	0.53	n/a	8/21/2024	0.0719J	No	124	n/a	n/a	27.42	n/a	n/a	0.0001277	NP Inter (normality) 1 of 2
Fluoride (mg/L)	ARGWC-16	0.53	n/a	8/21/2024	0.1ND	No	124	n/a	n/a	27.42	n/a	n/a	0.0001277	NP Inter (normality) 1 of 2
Fluoride (mg/L)	ARGWC-17	0.53	n/a	8/21/2024	0.1ND	No	124	n/a	n/a	27.42	n/a	n/a	0.0001277	NP Inter (normality) 1 of 2
Fluoride (mg/L)	ARGWC-18	0.53	n/a	8/21/2024	0.0683J	No	124	n/a	n/a	27.42	n/a	n/a	0.0001277	NP Inter (normality) 1 of 2
Fluoride (mg/L)	ARGWC-7	0.53	n/a	8/21/2024	0.1ND	No	124	n/a	n/a	27.42	n/a	n/a	0.0001277	NP Inter (normality) 1 of 2
Fluoride (mg/L)	ARGWC-8	0.53	n/a	8/21/2024	0.139	No	124	n/a	n/a	27.42	n/a	n/a	0.0001277	NP Inter (normality) 1 of 2
Fluoride (mg/L)	ARGWC-9	0.53	n/a	8/21/2024	0.0405J	No	124	n/a	n/a	27.42	n/a	n/a	0.0001277	NP Inter (normality) 1 of 2
pH (SU)	ARGWC-10	7.04	5.53	8/21/2024	5.96	No	123	n/a	n/a	0	n/a	n/a	0.000259	NP Inter (normality) 1 of 2
pH (SU)	ARGWC-15	7.04	5.53	8/21/2024	6.26	No	123	n/a	n/a	0	n/a	n/a	0.000259	NP Inter (normality) 1 of 2
pH (SU)	**ARGWC-16**	**7.04**	**5.53**	**8/21/2024**	**5.24**	**Yes**	**123**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.000259**	**NP Inter (normality) 1 of 2**
pH (SU)	**ARGWC-17**	**7.04**	**5.53**	**8/21/2024**	**5.15**	**Yes**	**123**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.000259**	**NP Inter (normality) 1 of 2**
pH (SU)	ARGWC-18	7.04	5.53	8/21/2024	6	No	123	n/a	n/a	0	n/a	n/a	0.000259	NP Inter (normality) 1 of 2
pH (SU)	ARGWC-7	7.04	5.53	8/21/2024	5.74	No	123	n/a	n/a	0	n/a	n/a	0.000259	NP Inter (normality) 1 of 2
pH (SU)	ARGWC-8	7.04	5.53	8/21/2024	6.51	No	123	n/a	n/a	0	n/a	n/a	0.000259	NP Inter (normality) 1 of 2
pH (SU)	ARGWC-9	7.04	5.53	8/21/2024	5.97	No	123	n/a	n/a	0	n/a	n/a	0.000259	NP Inter (normality) 1 of 2
Sulfate (mg/L)	ARGWC-10	950	n/a	8/21/2024	0.492	No	230	n/a	n/a	15.65	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	ARGWC-15	950	n/a	8/21/2024	4.47	No	230	n/a	n/a	15.65	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	ARGWC-16	950	n/a	8/21/2024	350	No	230	n/a	n/a	15.65	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	ARGWC-17	950	n/a	8/21/2024	143	No	230	n/a	n/a	15.65	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	ARGWC-18	950	n/a	8/21/2024	199	No	230	n/a	n/a	15.65	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	ARGWC-7	950	n/a	8/21/2024	32.1	No	230	n/a	n/a	15.65	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	ARGWC-8	950	n/a	8/21/2024	48.7	No	230	n/a	n/a	15.65	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	ARGWC-9	950	n/a	8/21/2024	1.42	No	230	n/a	n/a	15.65	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	ARGWC-10	1500	n/a	8/21/2024	90	No	109	n/a	n/a	0	n/a	n/a	0.0001667	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	ARGWC-15	1500	n/a	8/21/2024	168	No	109	n/a	n/a	0	n/a	n/a	0.0001667	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	ARGWC-16	1500	n/a	8/21/2024	601	No	109	n/a	n/a	0	n/a	n/a	0.0001667	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	ARGWC-17	1500	n/a	8/21/2024	235	No	109	n/a	n/a	0	n/a	n/a	0.0001667	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	ARGWC-18	1500	n/a	8/21/2024	460	No	109	n/a	n/a	0	n/a	n/a	0.0001667	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	ARGWC-7	1500	n/a	8/21/2024	119	No	109	n/a	n/a	0	n/a	n/a	0.0001667	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	ARGWC-8	1500	n/a	8/21/2024	266	No	109	n/a	n/a	0	n/a	n/a	0.0001667	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	ARGWC-9	1500	n/a	8/21/2024	74	No	109	n/a	n/a	0	n/a	n/a	0.0001667	NP Inter (normality) 1 of 2

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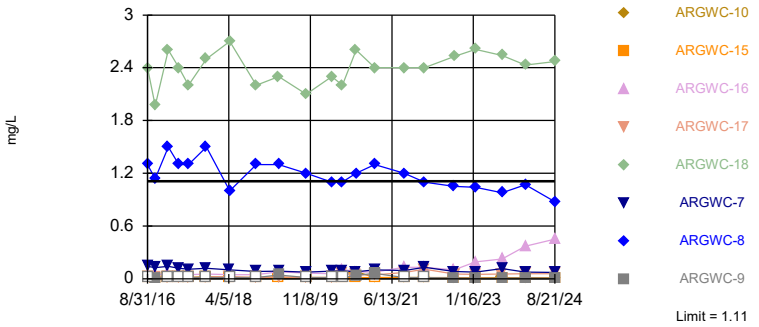
Hollow symbols indicate censored values.

Exceeds Limit: ARGWC-18

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 114 background values. 42.98% NDs. Annual per-constituent alpha = 0.002432. Individual comparison alpha = 0.0001522 (1 of 2). Comparing 8 points to limit.

Constituent: Boron Analysis Run 10/3/2024 11:20 AM View: Appendix III - Interwell
Plant Arkwright Client: Southern Company Data: Arkwright No 3

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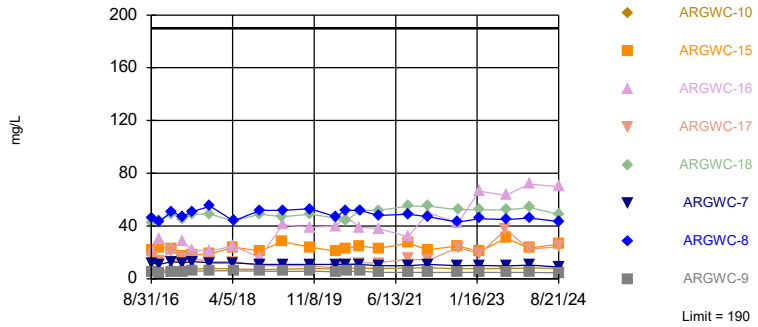
Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 114 background values. Annual per-constituent alpha = 0.002432. Individual comparison alpha = 0.0001522 (1 of 2). Comparing 8 points to limit.

Constituent: Calcium Analysis Run 10/3/2024 11:20 AM View: Appendix III - Interwell
Plant Arkwright Client: Southern Company Data: Arkwright No 3

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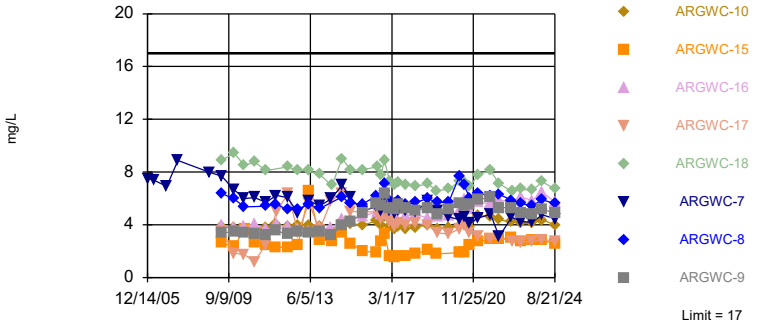
Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 222 background values. 0.4505% NDs. Annual per-constituent alpha = 0.0007864. Individual comparison alpha = 0.00004917 (1 of 2). Comparing 8 points to limit.

Constituent: Chloride Analysis Run 10/3/2024 11:20 AM View: Appendix III - Interwell
Plant Arkwright Client: Southern Company Data: Arkwright No 3

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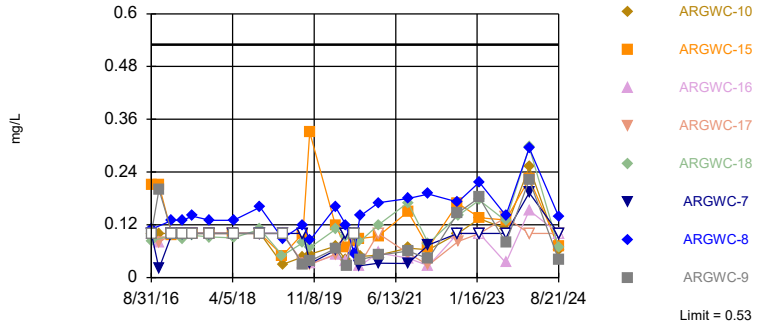
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 124 background values. 27.42% NDs. Annual per-constituent alpha = 0.002042. Individual comparison alpha = 0.0001277 (1 of 2). Comparing 8 points to limit.

Constituent: Fluoride Analysis Run 10/3/2024 11:20 AM View: Appendix III - Interwell
Plant Arkwright Client: Southern Company Data: Arkwright No 3

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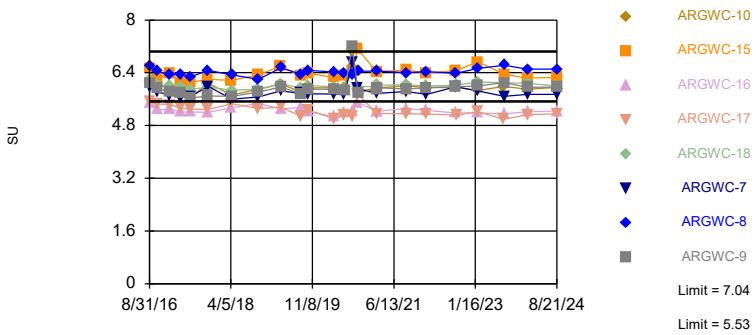
Exceeds Limits: ARGWC-16, ARGWC-17

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 123 background values. Annual per-constituent alpha = 0.00414. Individual comparison alpha = 0.000259 (1 of 2). Comparing 8 points to limit.

Constituent: pH Analysis Run 10/3/2024 11:21 AM View: Appendix III - Interwell

Plant Arkwright Client: Southern Company Data: Arkwright No 3

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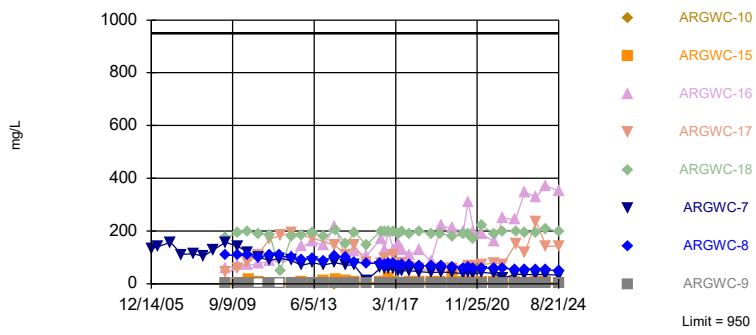
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 230 background values. 15.65% NDs. Annual per-constituent alpha = 0.0007864. Individual comparison alpha = 0.00004917 (1 of 2). Comparing 8 points to limit.

Constituent: Sulfate Analysis Run 10/3/2024 11:21 AM View: Appendix III - Interwell

Plant Arkwright Client: Southern Company Data: Arkwright No 3

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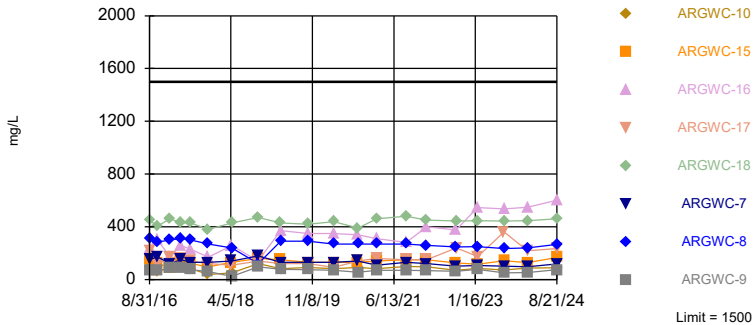
Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 109 background values. Annual per-constituent alpha = 0.002663. Individual comparison alpha = 0.0001667 (1 of 2). Comparing 8 points to limit.

Constituent: Total Dissolved Solids Analysis Run 10/3/2024 11:21 AM View: Appendix III - Interwell

Plant Arkwright Client: Southern Company Data: Arkwright No 3

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 10/3/2024 11:22 AM View: Appendix III - Interwell

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-12 (bg)	ARGWA-5 (bg)	ARGWA-14 (bg)	ARGWC-7	ARGWA-3 (bg)	ARGWA-13 (bg)	ARGWC-8	ARGWC-9	ARGWC-18
8/30/2016	0.032 (J)	<0.015							
8/31/2016			0.04 (J)	0.14	<0.015	0.1	1.3	<0.015	
9/1/2016									2.4
9/2/2016									
10/24/2016	0.0406 (J)								
10/25/2016		0.0073 (J)	0.065 (J)	0.126	0.0068 (J)	0.204		0.0071 (J)	
10/26/2016							1.14		1.97
1/23/2017	0.023 (J)		0.031 (J)						
1/24/2017		<0.015			<0.015	0.064			
1/26/2017				0.14			1.5	<0.015	
1/27/2017									2.6
4/11/2017	0.025 (J)	<0.015	0.043 (J)		<0.015	0.081			
4/12/2017				0.12			1.3	<0.015	2.4
6/20/2017		<0.015	0.029 (J)		<0.015				
6/21/2017	<0.015					0.13	1.3		2.2
6/22/2017				0.11				<0.015	
10/25/2017	0.028 (J)	<0.015	0.041 (J)	0.12	<0.015	0.17		<0.015	2.5
10/26/2017							1.5		
4/9/2018			0.04 (J)			0.059			
4/10/2018	0.027 (J)	<0.015		0.1	<0.015				
4/11/2018							1	<0.015	2.7
10/16/2018	0.023 (J)	<0.015	0.046 (J)		<0.015	0.34			
10/17/2018				0.084			1.3	<0.015	2.2
3/26/2019						0.32			
3/27/2019	<0.015	<0.015	0.032 (J)		<0.015				2.3
3/28/2019				0.087			1.3	0.044 (J)	
10/7/2019			<0.015						
10/8/2019	<0.015	<0.015			<0.015	0.68			
10/9/2019				0.076 (J)			1.2	<0.015	2.1
4/6/2020			0.041 (J)						
4/7/2020	<0.015	<0.015			<0.015	0.23			
4/8/2020				0.086					
4/9/2020							1.1	<0.015	2.3
6/23/2020							1.1		
6/24/2020									2.2
6/25/2020		<0.015	<0.015	0.091	<0.015	0.32			
6/26/2020	<0.015							<0.015	
9/29/2020	<0.015	<0.015	0.039 (J)	0.078 (J)	<0.015	0.35			
9/30/2020									2.6
10/1/2020							1.2	0.041 (J)	
12/1/2020									
2/9/2021	<0.015	<0.015			<0.015	0.38			
2/10/2021				0.1			1.3	0.06 (J)	2.4
2/11/2021			0.062 (J)						
9/7/2021	<0.015					0.96			
9/8/2021		<0.015	<0.015		<0.015				
9/9/2021							1.2	<0.015	2.4
9/10/2021				0.093					
2/1/2022	<0.015	<0.015			<0.015	0.3			
2/2/2022			<0.015				1.1	<0.015	
2/3/2022				0.13					2.4
8/30/2022	0.0214	0.00855							

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 10/3/2024 11:22 AM View: Appendix III - Interwell

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-12 (bg)	ARGWA-5 (bg)	ARGWA-14 (bg)	ARGWC-7	ARGWA-3 (bg)	ARGWA-13 (bg)	ARGWC-8	ARGWC-9	ARGWC-18
8/31/2022			0.0356	0.0815	0.00589	0.933	1.05	0.00885	
9/2/2022									2.53
2/2/2023	0.0179			0.0773			1.04	0.00794 (J)	2.61
2/3/2023		0.0066 (J)			<0.015	0.26			
2/7/2023			0.0145 (J)						
8/9/2023	0.0235				0.00594 (J)	1.06			
8/10/2023		0.0139 (J)	0.0372	0.116			0.98	0.00623 (J)	2.54
1/24/2024		0.00641 (J)	0.0605		0.00554 (J)				
1/25/2024	0.0208			0.076		0.713	1.07	0.0114 (J)	2.43
8/20/2024	0.0106 (J)				<0.015				
8/21/2024		0.00762 (J)		0.0724		1.11	0.877	0.0066 (J)	2.47
8/22/2024			0.0311						

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 10/3/2024 11:22 AM View: Appendix III - Interwell

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-16	ARGWC-10	ARGWC-17	ARGWC-15	ARGWA-24 (bg)
8/30/2016					
8/31/2016					
9/1/2016	0.049 (J)	<0.015	0.022 (J)		
9/2/2016				<0.015	
10/24/2016					
10/25/2016	0.042 (J)	<0.015	0.0219 (J)		
10/26/2016				0.0138 (J)	
1/23/2017					
1/24/2017					
1/26/2017	0.059		<0.015	<0.015	
1/27/2017		<0.015			
4/11/2017	0.045 (J)		<0.015		
4/12/2017		<0.015		<0.015	
6/20/2017					
6/21/2017	0.045 (J)		<0.015	<0.015	
6/22/2017		<0.015			
10/25/2017					
10/26/2017	0.054	0.026 (J)	0.023 (J)	<0.015	
4/9/2018					
4/10/2018	0.048 (J)		0.026 (J)	<0.015	
4/11/2018		<0.015			
10/16/2018	0.048 (J)				
10/17/2018		<0.015	<0.015	<0.015	
3/26/2019					
3/27/2019				<0.015	
3/28/2019	0.08	<0.015	0.022 (J)		
10/7/2019					
10/8/2019				<0.015	
10/9/2019	0.065 (J)	<0.015	<0.015		
4/6/2020					
4/7/2020					
4/8/2020	0.059 (J)	<0.015	<0.015	<0.015	
4/9/2020					
6/23/2020		0.053 (J)			
6/24/2020	0.11		0.059 (J)		
6/25/2020				<0.015	
6/26/2020					
9/29/2020	0.081		0.045 (J)	<0.015	
9/30/2020					
10/1/2020		0.082			
12/1/2020					<0.015
2/9/2021	0.076 (J)	<0.015	0.042 (J)	<0.015	<0.015
2/10/2021					
2/11/2021					
9/7/2021					
9/8/2021	0.13		0.074 (J)	<0.015	<0.015
9/9/2021					
9/10/2021		<0.015			
2/1/2022					<0.015
2/2/2022		<0.015	0.11		
2/3/2022	0.13			<0.015	
8/30/2022					

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 10/3/2024 11:22 AM View: Appendix III - Interwell

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-16	ARGWC-10	ARGWC-17	ARGWC-15	ARGWA-24 (bg)
8/31/2022	0.101	0.00863		0.0137	0.0151
9/2/2022			0.0555		
2/2/2023	0.194	0.00561 (J)			0.014 (J)
2/3/2023			0.051	0.0113 (J)	
2/7/2023					
8/9/2023		<0.015	0.0534		0.0117 (J)
8/10/2023	0.224			0.00806 (J)	
1/24/2024					0.0133 (J)
1/25/2024	0.37	0.00819 (J)	0.059	0.0125 (J)	
8/20/2024					0.00663 (J)
8/21/2024	0.449	0.00605 (J)	0.0575	0.0103 (J)	
8/22/2024					

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 10/3/2024 11:22 AM View: Appendix III - Interwell

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-12 (bg)	ARGWA-5 (bg)	ARGWA-14 (bg)	ARGWC-7	ARGWA-3 (bg)	ARGWA-13 (bg)	ARGWC-8	ARGWC-9	ARGWC-18
8/30/2016	11	5.1							
8/31/2016			31	12	5.4	110	46	5.2	
9/1/2016									42
9/2/2016									
10/24/2016	10.4								
10/25/2016		4.76	38.5	10.9	4.47	150		4.64	
10/26/2016							43.3		44.3
1/23/2017	12		25						
1/24/2017		5.6			5.8	78			
1/26/2017				13			51	5.5	
1/27/2017									49
4/11/2017	12	4.7	33		5.3	78			
4/12/2017				12			47	4.9	45
6/20/2017		5.4	34		5.8				
6/21/2017	12					110	51		49
6/22/2017				13				5.8	
10/25/2017	13	6	28	12	5.9	120		6.1	49
10/26/2017							55		
4/9/2018			30			49			
4/10/2018	13	5.3		12	5.9				
4/11/2018							44	6	44
10/16/2018	12	5.6	41		5.8	110			
10/17/2018				11			52	5.8	49
3/26/2019						95			
3/27/2019	11	4.5	42		5.4				47
3/28/2019				11			52	5.6	
10/7/2019			36						
10/8/2019	13	5.9			6	190			
10/9/2019				11			53	5.7	49
4/6/2020			43						
4/7/2020	12	4			5.5	61			
4/8/2020				11					
4/9/2020							47	5.3	46
6/23/2020							52		
6/24/2020									44
6/25/2020		6.1	27	11	5.7	100			
6/26/2020	15							5.6	
9/29/2020	14	6.6	29	11	5.9	120			
9/30/2020									52
10/1/2020							52	5.7	
12/1/2020									
2/9/2021	14	6.2			5.8	110			
2/10/2021				9.9			48	4.8	52
2/11/2021			40						
9/7/2021	14					190			
9/8/2021		7.3	24		5.8				
9/9/2021							49	4.7	55
9/10/2021				10					
2/1/2022	12	6.5			5.4	73			
2/2/2022			48				47	4.7	
2/3/2022				11					55
8/30/2022	14.2	9.56 (J)							

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 10/3/2024 11:22 AM View: Appendix III - Interwell

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-12 (bg)	ARGWA-5 (bg)	ARGWA-14 (bg)	ARGWC-7	ARGWA-3 (bg)	ARGWA-13 (bg)	ARGWC-8	ARGWC-9	ARGWC-18
8/31/2022			41.6	9.99	5.91	165	43	4.77	
9/2/2022									52.4
2/2/2023	14.9			10.2			45.7	4.88	52.4
2/3/2023		10.4			5.79	49			
2/7/2023			19.1						
8/9/2023	16				5.96	186			
8/10/2023		12.6	49.5	9.75			44.9	4.75	52.1
1/24/2024		12.4	45.6		5.9				
1/25/2024	13.3			10.3		118	46	4.81	54
8/20/2024	11.8				6.01				
8/21/2024		16.4		8.99		165	43.4	4.65	48.9
8/22/2024			45.3						

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 10/3/2024 11:22 AM View: Appendix III - Interwell

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-16	ARGWC-10	ARGWC-17	ARGWC-15	ARGWA-24 (bg)
8/30/2016					
8/31/2016					
9/1/2016	21	6.6	16		
9/2/2016				22	
10/24/2016					
10/25/2016	29.8	5.89	13.5		
10/26/2016				23.7	
1/23/2017					
1/24/2017					
1/26/2017	23		21	23	
1/27/2017		7.4			
4/11/2017	28		16		
4/12/2017		6.7		17	
6/20/2017					
6/21/2017	22		15	18	
6/22/2017		7.5			
10/25/2017					
10/26/2017	21	7.8	13	19	
4/9/2018					
4/10/2018	25		13	24	
4/11/2018		7.4			
10/16/2018	16				
10/17/2018		7.1	10	21	
3/26/2019					
3/27/2019				28	
3/28/2019	41	7.3	10		
10/7/2019					
10/8/2019				24	
10/9/2019	39	7.7	10		
4/6/2020					
4/7/2020					
4/8/2020	40	7.5	8.3	21	
4/9/2020					
6/23/2020		7.7			
6/24/2020	47		11		
6/25/2020				23	
6/26/2020					
9/29/2020	39		12	25	
9/30/2020					
10/1/2020		8.1			
12/1/2020					13
2/9/2021	38	7.7	12	23	9.7
2/10/2021					
2/11/2021					
9/7/2021					
9/8/2021	32		15	27	10
9/9/2021					
9/10/2021		8.1			
2/1/2022					9.6
2/2/2022		8.3	14		
2/3/2022	50			22	
8/30/2022					

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 10/3/2024 11:22 AM View: Appendix III - Interwell

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-16	ARGWC-10	ARGWC-17	ARGWC-15	ARGWA-24 (bg)
8/31/2022	42.4	7.65		25	10.1
9/2/2022			23.7		
2/2/2023	66.5	7.69			10.2
2/3/2023			18.8	20.5	
2/7/2023					
8/9/2023		7.85	37.4		9.31
8/10/2023	63.4			30.9	
1/24/2024					9.3
1/25/2024	71.7	8.32	22.6	23.3	
8/20/2024					9.12
8/21/2024	69.9	7.87	24.2	26.1	
8/22/2024					

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 10/3/2024 11:22 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	

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 10/3/2024 11:22 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				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 10/3/2024 11:22 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
3/28/2019			5.1				3.4	4.6	
10/7/2019									
10/8/2019	2.6	5.7		9.4 (o)	64 (o)	6.7			
10/9/2019			4.6				3.3	4.7	6.7
4/6/2020									
4/7/2020	2.9	3.7			11	3.8			
4/8/2020			4.4	1.9			3.7	5.1	
4/9/2020									7.3
6/23/2020									
6/24/2020							4	5.9	7.2
6/25/2020	2.8	4.2	4.6	1.9		5.8			
6/26/2020					12				
9/29/2020	2.7	4.6	4.1	2.5	12	5.7	3.4	5.2	
9/30/2020									6.9
10/1/2020									
12/1/2020									
2/9/2021	3	5.1		2.7	15	6	3.1	5.7	
2/10/2021			4.5						7.8
2/11/2021									
9/7/2021					14	8.2			
9/8/2021	3	5.3		2.9			2.9	5.6	
9/9/2021									8.1
9/10/2021			4.8						
2/1/2022	3.4	5.3			12	4.6			
2/2/2022							3		
2/3/2022			3.1	2.9				5.9	7.1
8/30/2022		8.47			12.8 (J)				
8/31/2022	2.94		4.59	3.01		6.89		5.67	
9/2/2022							2.74		6.52
2/2/2023			4.25		13.2			6.12	6.7
2/3/2023	2.67	8.74		2.71		3.04	2.68		
2/7/2023									
8/9/2023	2.71				13.3	5.87	2.72		
8/10/2023		12.4	4.2	2.88				5.85	6.62
1/24/2024	2.72	14.9							
1/25/2024			4.76	2.83	13.1	5.2	2.88	6.48	7.26
8/20/2024	2.66				10.6				
8/21/2024		17	4.45	2.55		6.76	2.76	5.71	6.72
8/22/2024									

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 10/3/2024 11:22 AM View: Appendix III - Interwell

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-9	ARGWC-10	ARGWC-8	ARGWA-14 (bg)	ARGWA-24 (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 10/3/2024 11:22 AM View: Appendix III - Interwell

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-9	ARGWC-10	ARGWC-8	ARGWA-14 (bg)	ARGWA-24 (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 10/3/2024 11:22 AM View: Appendix III - Interwell

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-9	ARGWC-10	ARGWC-8	ARGWA-14 (bg)	ARGWA-24 (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		
6/23/2020		4.2	7		
6/24/2020					
6/25/2020				4	
6/26/2020	5.4				
9/29/2020				4.1	
9/30/2020					
10/1/2020	5.5	3.9	6		
12/1/2020					12
2/9/2021		4.7			11
2/10/2021	5.9		6.4		
2/11/2021				4.6	
9/7/2021					
9/8/2021				4	11
9/9/2021	6.1		6.2		
9/10/2021		4.6			
2/1/2022					12
2/2/2022	5.3	4.4	6.3	4.2	
2/3/2022					
8/30/2022					
8/31/2022	5.28 (J)	4.2	5.86	3.92	12.3
9/2/2022					
2/2/2023	4.88	4.1	5.6		9.71
2/3/2023					
2/7/2023				3.88	
8/9/2023		4.11			8.91
8/10/2023	4.8		5.45	4.61	
1/24/2024				4.33	9.01
1/25/2024	5.15	4.36	5.9		
8/20/2024					8.27
8/21/2024	4.93	3.99	5.59		
8/22/2024				4.39	

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 10/3/2024 11:22 AM View: Appendix III - Interwell

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-12 (bg)	ARGWA-5 (bg)	ARGWA-14 (bg)	ARGWA-13 (bg)	ARGWC-7	ARGWC-8	ARGWC-9	ARGWA-3 (bg)	ARGWC-16
8/30/2016	<0.1	<0.1							
8/31/2016			0.12 (J)	<0.1	<0.1	0.11 (J)	<0.1	<0.1	
9/1/2016									<0.1
9/2/2016									
10/24/2016	0.1 (J)								
10/25/2016		0.09 (J)	0.53	0.08 (J)	0.02 (J)		0.2 (J)	0.14 (J)	0.08 (J)
10/26/2016						0.43 (o)			
1/23/2017	<0.1		0.4						
1/24/2017		<0.1		<0.1				<0.1	
1/26/2017					<0.1	0.13 (J)	<0.1		<0.1
1/27/2017									
4/11/2017	<0.1	<0.1	0.31	<0.1				<0.1	<0.1
4/12/2017					<0.1	0.13 (J)	<0.1		
6/20/2017		<0.1	0.27					<0.1	
6/21/2017	<0.1			<0.1		0.14 (J)			<0.1
6/22/2017					<0.1		<0.1		
10/25/2017	<0.1	<0.1	0.29	<0.1	<0.1		<0.1	<0.1	
10/26/2017						0.13 (J)			<0.1
4/9/2018			0.25	<0.1					
4/10/2018	<0.1	<0.1			<0.1			<0.1	<0.1
4/11/2018						0.13 (J)	<0.1		
10/16/2018	0.1 (J)	<0.1	0.33	<0.1				0.1 (J)	<0.1
10/17/2018					<0.1	0.16 (J)	<0.1		
3/26/2019				<0.1					
3/27/2019	0.031 (J)	0.026 (J)	0.15 (J)					0.034 (J)	
3/28/2019					<0.1	0.089 (J)	<0.1		<0.1
8/19/2019				<0.1					
8/20/2019	0.049 (J)	0.047 (J)						0.053 (J)	0.033 (J)
8/21/2019			0.35		<0.1	0.12 (J)	0.03 (J)		
10/7/2019			0.12 (J)						
10/8/2019	0.27 (J)	0.05 (J)		0.033 (J)				0.056 (J)	
10/9/2019					0.032 (J)	0.085 (J)	0.038 (J)		0.031 (J)
4/6/2020			0.28						
4/7/2020	0.082 (J)	0.072 (J)		0.086 (J)				0.098 (J)	
4/8/2020					0.062 (J)				0.051 (J)
4/9/2020						0.16	0.066 (J)		
6/23/2020						0.12			
6/24/2020									0.038 (J)
6/25/2020		0.042 (J)	0.17	0.03 (J)	<0.1			0.06 (J)	
6/26/2020	0.051 (J)						0.027 (J)		
8/18/2020	0.041 (J)	<0.1		<0.1	<0.1			<0.1	
8/19/2020			0.12				<0.1		<0.1
8/20/2020						0.054 (J)			
9/29/2020	0.06 (J)	0.051 (J)	0.13	0.032 (J)	0.027 (J)			0.065 (J)	0.026 (J)
9/30/2020									
10/1/2020						0.14	0.041 (J)		
12/1/2020									
2/9/2021	0.07 (J)	0.055 (J)		0.036 (J)				0.084 (J)	0.056 (J)
2/10/2021					0.033 (J)	0.17	0.051 (J)		
2/11/2021			0.25						
9/7/2021	0.11			0.075 (J)					
9/8/2021		0.1	0.2					0.1	0.044 (J)

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 10/3/2024 11:22 AM View: Appendix III - Interwell

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-12 (bg)	ARGWA-5 (bg)	ARGWA-14 (bg)	ARGWA-13 (bg)	ARGWC-7	ARGWC-8	ARGWC-9	ARGWA-3 (bg)	ARGWC-16
9/9/2021						0.18	0.06 (J)		
9/10/2021					0.032 (J)				
2/1/2022	0.065 (J)	0.059 (J)		0.032 (J)				0.086 (J)	
2/2/2022			0.19			0.19	0.043 (J)		
2/3/2022					0.074 (J)				0.027 (J)
8/30/2022	0.167	0.155							
8/31/2022			0.155	0.135	<0.1	0.172	0.147	0.184	<0.1
9/2/2022									
2/2/2023	0.221				<0.1	0.217	0.182		<0.1
2/3/2023		<0.1		<0.1				0.155 (J)	
2/7/2023			0.275						
8/9/2023	0.271			0.239				0.316	
8/10/2023		0.128	0.254		<0.1	0.141	0.079 (J)		0.0335 (J)
1/24/2024		0.117	0.327					0.146	
1/25/2024	0.241			0.175	0.193	0.295	0.222		0.153
8/20/2024	0.0426 (J)							0.0574 (J)	
8/21/2024		0.0365 (J)		0.0387 (J)	<0.1	0.139	0.0405 (J)		<0.1
8/22/2024			0.21						

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 10/3/2024 11:22 AM View: Appendix III - Interwell

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-18	ARGWC-17	ARGWC-10	ARGWC-15	ARGWA-24 (bg)
8/30/2016					
8/31/2016					
9/1/2016	0.083 (J)	<0.1	<0.1		
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		<0.1		0.097 (J)	
1/27/2017	0.097 (J)		<0.1		
4/11/2017		<0.1			
4/12/2017	0.088 (J)		<0.1	<0.1	
6/20/2017					
6/21/2017	0.096 (J)	<0.1		<0.1	
6/22/2017			<0.1		
10/25/2017	0.092 (J)				
10/26/2017		<0.1	<0.1	<0.1	
4/9/2018					
4/10/2018		<0.1		<0.1	
4/11/2018	0.09 (J)		<0.1		
10/16/2018					
10/17/2018	0.11 (J)	<0.1	<0.1	0.1 (J)	
3/26/2019					
3/27/2019	0.05 (J)			0.05 (J)	
3/28/2019		<0.1	0.03 (J)		
8/19/2019					
8/20/2019					
8/21/2019	0.079 (J)	0.031 (J)	0.047 (J)	0.1 (J)	
10/7/2019					
10/8/2019				0.33 (J)	
10/9/2019	0.068 (J)	0.03 (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				
6/23/2020			0.04 (J)		
6/24/2020	0.094 (J)	<0.1			
6/25/2020				0.067 (J)	
6/26/2020					
8/18/2020		<0.1			
8/19/2020			<0.1	0.081 (J)	
8/20/2020	<0.1				
9/29/2020		0.029 (J)		0.089 (J)	
9/30/2020	0.082 (J)				
10/1/2020			0.048 (J)		
12/1/2020					<0.1
2/9/2021		<0.1	0.051 (J)	0.094 (J)	0.057 (J)
2/10/2021	0.12				
2/11/2021					
9/7/2021					
9/8/2021		0.055 (J)		0.15	0.1

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 10/3/2024 11:22 AM View: Appendix III - Interwell

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-18	ARGWC-17	ARGWC-10	ARGWC-15	ARGWA-24 (bg)
9/9/2021	0.17				
9/10/2021			0.067 (J)		
2/1/2022					0.054 (J)
2/2/2022		0.028 (J)	0.063 (J)		
2/3/2022	0.078 (J)			0.068 (J)	
8/30/2022					
8/31/2022			<0.1	0.169	0.164
9/2/2022	0.141	0.082 (J)			
2/2/2023	0.176		0.134		0.125
2/3/2023		<0.1		0.136 (J)	
2/7/2023					
8/9/2023		0.137	0.111		0.0732 (J)
8/10/2023	0.129			0.131	
1/24/2024					0.121
1/25/2024	0.296	<0.1	0.252	0.225	
8/20/2024					0.0399 (J)
8/21/2024	0.0683 (J)	<0.1	0.063 (J)	0.0719 (J)	
8/22/2024					

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: pH (SU) Analysis Run 10/3/2024 11:22 AM View: Appendix III - Interwell

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-5 (bg)	ARGWA-3 (bg)	ARGWC-7	ARGWC-8	ARGWC-10	ARGWC-9	ARGWC-18	ARGWC-17	ARGWC-16
8/30/2016	6.07								
8/31/2016		6.09	5.98	6.62	6.16	6.1			
9/1/2016							6.19	5.52	5.49
9/2/2016									
10/24/2016									
10/25/2016	5.96	5.92	5.81		6.02	5.92		5.45	5.29
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		5.43	5.29
1/27/2017					5.98		6.01		
4/11/2017	5.78	5.82						5.33	5.21
4/12/2017			5.65	6.36	5.87	5.79	5.97		
6/20/2017	5.69	5.8							
6/21/2017				6.28			5.9	5.3	5.21
6/22/2017			5.69		5.68	5.64			
10/25/2017	6.11	5.89	5.99			5.7	5.97		
10/26/2017				6.47	6.07			5.29	5.2
4/9/2018									
4/10/2018	5.58	5.85	5.6					5.46	5.34
4/11/2018				6.34	5.72	5.69	5.87		
10/16/2018	5.86	6.03							5.47
10/17/2018			5.67	6.2	5.9	5.81	5.9	5.32	
3/26/2019									
3/27/2019	5.97	6.1					6.06		
3/28/2019			5.85		6.05	5.97		5.36	5.31
3/29/2019				6.55					
8/19/2019									
8/20/2019	5.8	5.83							5.35
8/21/2019			5.77	6.36	5.82	5.76	5.94	5.07	
10/7/2019									
10/8/2019	5.93	5.96							
10/9/2019			5.76	6.47	5.94	5.9	6.01	5.27	5.22
4/6/2020									
4/7/2020	5.86	5.9							
4/8/2020			5.75		5.95			5.02	5.07
4/9/2020				6.42		5.9	5.98		
6/23/2020				6.37	5.95				
6/24/2020							5.91	5.11	5.2
6/25/2020	5.87	5.75	5.75						
6/26/2020						5.85			
8/18/2020	6.18	6.47	6.7					5.07	
8/19/2020					7.06	7.21			5.24
8/20/2020				6.34			6.43		
9/29/2020	6	6.02	5.92					5.75	5.5
9/30/2020							5.98		
10/1/2020				6.44	5.83	5.78			
12/1/2020									
2/9/2021	5.88	5.94			5.94			5.17	5.24
2/10/2021			5.77	6.45		5.91	5.99		
2/11/2021	5.87	5.94				5.95	6.03		5.23
9/7/2021									

Prediction Limit

Constituent: pH (SU) Analysis Run 10/3/2024 11:22 AM View: Appendix III - Interwell

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-5 (bg)	ARGWA-3 (bg)	ARGWC-7	ARGWC-8	ARGWC-10	ARGWC-9	ARGWC-18	ARGWC-17	ARGWC-16
9/8/2021	5.93	5.97						5.15	5.32
9/9/2021				6.4		5.91	6.04		
9/10/2021			5.83		6.01				
2/1/2022	5.83	5.93							
2/2/2022				6.43	5.95	5.95		5.15	
2/3/2022			5.74				6		5.26
8/30/2022	5.88								
8/31/2022		5.96	5.98	6.38	5.96	5.98			5.18
9/2/2022							6.03	5.11	
2/2/2023			5.85	6.53	5.86	6	6.12		5.18
2/3/2023	5.93	6.07						5.22	
2/7/2023									
8/9/2023		5.83			5.99			4.99	
8/10/2023	5.61		5.69	6.63		6.1	6.09		5.15
1/24/2024	5.81	6.03							
1/25/2024			5.74	6.51	5.9	5.96	6.08	5.13	5.22
8/20/2024		6.05							
8/21/2024	5.72		5.74	6.51	5.96	5.97	6	5.15	5.24

Prediction Limit

Constituent: pH (SU) Analysis Run 10/3/2024 11:22 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)	ARGWA-24 (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					
6/23/2020					
6/24/2020					
6/25/2020	6.32		5.8	6.38	
6/26/2020		5.94			
8/18/2020		6.48	6.15		
8/19/2020	6.47			6.62	
8/20/2020					
9/29/2020	7.11	5.88	5.75	6.8	
9/30/2020					
10/1/2020					
12/1/2020					5.85
2/9/2021	6.43	5.92	5.79		5.69
2/10/2021					
2/11/2021				7.02	
9/7/2021		5.89	5.71		

Prediction Limit

Constituent: pH (SU) Analysis Run 10/3/2024 11:22 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)	ARGWA-24 (bg)
9/8/2021	6.48			7.04	5.8
9/9/2021					
9/10/2021					
2/1/2022		5.97	5.86		5.77
2/2/2022				6.41	
2/3/2022	6.39				
8/30/2022		5.88			
8/31/2022	6.46		5.53	6.8	5.65
9/2/2022					
2/2/2023		5.86			5.62
2/3/2023	6.73		5.84		
2/7/2023				6.25	
8/9/2023		6.13	5.94		5.7
8/10/2023	6.36			6.43	
1/24/2024				6.84	5.7
1/25/2024	6.24	5.85	5.76		
8/20/2024		5.96			5.71
8/21/2024	6.26		5.79	6.8	

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 10/3/2024 11:22 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-18	ARGWC-17	ARGWC-16
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							173	42.6	57.9
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			195	58.4	
12/5/2009									72.1
5/25/2010		0.509			6.44	12.3	199	79.4	
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						49.9	182	97.9
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

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 10/3/2024 11:22 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-18	ARGWC-17	ARGWC-16
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							200	79	170
8/30/2016		<1			9.5				
8/31/2016	<1		57			600			
9/1/2016							200	94	130
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	200	75	130
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			190	47	
3/26/2019						430			
3/27/2019	0.38 (J)	0.55 (J)		7.2	9.1		190		

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 10/3/2024 11:22 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-18	ARGWC-17	ARGWC-16
3/28/2019			45					59	220
10/7/2019									
10/8/2019	0.7 (J)	0.7 (J)		31	55	950			
10/9/2019			42				180	57	210
4/6/2020									
4/7/2020	0.67 (J)	<1			8	270			
4/8/2020			39	5.9				47	200
4/9/2020							190		
6/23/2020									
6/24/2020							190	67	310
6/25/2020	1.6	<1	42	5.6		410			
6/26/2020					9				
9/29/2020	<1	<1	38	7.7	8.3	540		66	200
9/30/2020							170		
10/1/2020									
12/1/2020									
2/9/2021	<1	<1		7.1	11	520		73	190
2/10/2021			43				220		
2/11/2021									
9/7/2021					9	870			
9/8/2021	<1	<1		6.2				79	160
9/9/2021							190		
9/10/2021			39						
2/1/2022	1.4	0.77 (J)			7.8	360			
2/2/2022								74	
2/3/2022			21	5.6			200		250
8/30/2022		0.519			7.11				
8/31/2022	0.399 (J)		36.3	5.64		855			243
9/2/2022							198	151	
2/2/2023			35		6.71		195		348
2/3/2023	0.448	0.5		4.35		209		118	
2/7/2023									
8/9/2023	0.419				6.19	784		237	
8/10/2023		0.581	34.5	6.91			194		328
1/24/2024	0.371 (J)	0.525							
1/25/2024			35.2	4.79	7.05	537	208	142	372
8/20/2024	0.406				5.98				
8/21/2024		0.536	32.1	4.47		741	199	143	350
8/22/2024									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 10/3/2024 11:22 AM View: Appendix III - Interwell

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-10	ARGWC-9	ARGWC-8	ARGWA-14 (bg)	ARGWA-24 (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	0.984	0.938			
5/14/2009			109		
12/1/2009					
12/3/2009	0.544	0.422	107		
12/4/2009					
12/5/2009					
5/25/2010					
5/26/2010	0.37	0.262	109		
6/1/2010					
6/2/2010				129	
11/9/2010	0.299	<1	100		
11/10/2010				140	
5/18/2011			110		
5/19/2011	0.502	0.359		269	
5/24/2011					
5/25/2011					
11/9/2011				308	
11/10/2011					
11/11/2011	0.172	<1	107		
11/12/2011					
5/17/2012	0.438	0.398	98		
5/18/2012					
5/30/2012				296	
5/31/2012					
11/9/2012	0.537	0.545	90.4		

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 10/3/2024 11:22 AM View: Appendix III - Interwell

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-10	ARGWC-9	ARGWC-8	ARGWA-14 (bg)	ARGWA-24 (bg)
11/10/2012					
11/11/2012				225	
5/7/2013	0.437	0.797	96.2		
5/8/2013					
5/9/2013				268	
5/13/2013					
11/5/2013			86.9		
11/6/2013	<1	0.86			
11/11/2013				132	
11/12/2013					
5/20/2014	0				
5/21/2014		1.02	106		
5/28/2014					
5/29/2014				216	
11/17/2014					
11/18/2014	<1	1.2	99		
11/19/2014				160	
11/20/2014					
4/7/2015	0.464	1.14	82.3		
4/14/2015				105	
4/15/2015					
10/28/2015	0.293	1.02	78		
10/29/2015					
11/3/2015					
11/4/2015				74.4	
6/23/2016	<1	1	78	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	0.38 (J)	4.7 (o)		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	<1	0.9 (J)	69		
6/20/2017				8.5	
6/21/2017			73		
6/22/2017	<1	0.99 (J)			
10/25/2017		0.95 (J)		9.1	
10/26/2017	<1		72		
4/9/2018				11	
4/10/2018					
4/11/2018	<1	0.9 (J)	69		
10/16/2018				14	
10/17/2018	<1	0.95 (J)	67		
3/26/2019					
3/27/2019				15	

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 10/3/2024 11:22 AM View: Appendix III - Interwell

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-10	ARGWC-9	ARGWC-8	ARGWA-14 (bg)	ARGWA-24 (bg)
3/28/2019	0.38 (J)	1	66		
10/7/2019				12	
10/8/2019					
10/9/2019	0.59 (J)	1.5	63		
4/6/2020				10	
4/7/2020					
4/8/2020	<1				
4/9/2020		1.1	59		
6/23/2020	<1		62		
6/24/2020					
6/25/2020				3.3	
6/26/2020		0.94 (J)			
9/29/2020				4.1	
9/30/2020					
10/1/2020	<1	0.82 (J)	57		
12/1/2020					7.5
2/9/2021	1.3				8.5
2/10/2021		1.7	60		
2/11/2021				10	
9/7/2021					
9/8/2021				3	6.8
9/9/2021		1.2	58		
9/10/2021	<1				
2/1/2022					6.8
2/2/2022	<1	1.4	59	8.6	
2/3/2022					
8/30/2022					
8/31/2022	0.494	1.31	54.1	2.58	6.94
9/2/2022					
2/2/2023	0.529	1.46	53.2		6.22
2/3/2023					
2/7/2023				2.52	
8/9/2023	0.541				6.34
8/10/2023		1.45	52.3	14.4	
1/24/2024				8.23	5.18
1/25/2024	0.519	1.49	52.7		
8/20/2024					5.37
8/21/2024	0.492	1.42	48.7		
8/22/2024				5.41	

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 10/3/2024 11:22 AM View: Appendix III - Interwell

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-12 (bg)	ARGWA-5 (bg)	ARGWC-8	ARGWA-13 (bg)	ARGWA-3 (bg)	ARGWC-7	ARGWC-9	ARGWA-14 (bg)	ARGWC-17
8/30/2016	100	58							
8/31/2016			310	1000	80	150	74	330	
9/1/2016									220
9/2/2016									
10/24/2016	136								
10/25/2016		34		1280	65	171	67	459	114
10/26/2016			283						
1/23/2017	16							340	
1/24/2017		120		590	70				
1/26/2017			300			120	84		170
1/27/2017									
4/11/2017	120	76		610	64			300	160
4/12/2017			310			150	88		
6/20/2017		36			52			210	
6/21/2017	140		300	880					140
6/22/2017						130	76		
10/25/2017	120	64		900	72	130	60	280	
10/26/2017			270						120
4/9/2018				440				280	
4/10/2018	130	60			86	140			110
4/11/2018			240				24		
10/16/2018	150	54		910	74			48	
10/17/2018			120			180	96		140
3/26/2019				750					
3/27/2019	110	61			69			330	
3/28/2019			290			130	77		120
10/7/2019								230	
10/8/2019	130	68		1500	66				
10/9/2019			290			130	75		120
4/6/2020								280	
4/7/2020	120	65		480	64				
4/8/2020						130			91
4/9/2020			270				70		
9/29/2020	130	61		880	62	140		210	140
9/30/2020									
10/1/2020			270				55		
12/1/2020									
2/9/2021	140	73		890	62				160 (D)
2/10/2021			270			110	71		
2/11/2021								290	
9/7/2021	140			1500					
9/8/2021		86			79			170	150
9/9/2021			270				70		
9/10/2021						130			
2/1/2022	130	76		600	75				
2/2/2022			260				67	310	150
2/3/2022						120			
8/30/2022	139	81							
8/31/2022			248	1290	65	101	63	177	
9/2/2022									240
2/2/2023	128		249			106	77		
2/3/2023		76		377	63				174

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 10/3/2024 11:22 AM View: Appendix III - Interwell

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWA-12 (bg)	ARGWA-5 (bg)	ARGWC-8	ARGWA-13 (bg)	ARGWA-3 (bg)	ARGWC-7	ARGWC-9	ARGWA-14 (bg)	ARGWC-17
2/7/2023								144	
8/9/2023	110			1240	50				360
8/10/2023		105	234			101	50	301	
1/24/2024		107			81			304	
1/25/2024	117		240	815		97	53		219
8/20/2024	120				80				
8/21/2024		127	266	1250		119	74		235
8/22/2024								309	

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 10/3/2024 11:22 AM View: Appendix III - Interwell

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-10	ARGWC-18	ARGWC-16	ARGWC-15	ARGWA-24 (bg)
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			
9/29/2020			340	130	
9/30/2020		390			
10/1/2020	93				
12/1/2020					120
2/9/2021	81		310	140	110
2/10/2021		460			
2/11/2021					
9/7/2021					
9/8/2021			280	150	120
9/9/2021		480			
9/10/2021	100				
2/1/2022					120
2/2/2022	96				
2/3/2022		450	400	150	
8/30/2022					
8/31/2022	69		375	125	122
9/2/2022		444			
2/2/2023	84	446	545		90
2/3/2023				117	

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 10/3/2024 11:22 AM View: Appendix III - Interwell

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-10	ARGWC-18	ARGWC-16	ARGWC-15	ARGWA-24 (bg)
2/7/2023					
8/9/2023	72				88
8/10/2023		444	537	142	
1/24/2024					121
1/25/2024	88	446	547	129	
8/20/2024					95
8/21/2024	90	460	601	168	
8/22/2024					

FIGURE F.

Appendix III Trend Tests - Significant Results

Plant Arkwright Client: Southern Company Data: Arkwright No 3 Printed 10/3/2024, 11:28 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	**ARGWA-13 (bg)**	**0.08897**	**129**	**87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**ARGWA-24 (bg)**	**-0.02099**	**-28**	**-25**	**Yes**	**9**	**44.44**	**n/a**	**n/a**	**0.01**	**NP**
pH (SU)	**ARGWC-17**	**-0.04639**	**-118**	**-98**	**Yes**	**23**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**ARGWA-13 (bg)**	**47.51**	**333**	**191**	**Yes**	**36**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**ARGWA-14 (bg)**	**-13.08**	**-389**	**-176**	**Yes**	**34**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**ARGWC-16**	**14.92**	**406**	**191**	**Yes**	**36**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**ARGWC-7**	**-6.016**	**-7.905**	**-2.58**	**Yes**	**43**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**ARGWC-8**	**-4.099**	**-568**	**-191**	**Yes**	**36**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**ARGWC-9**	**0.0742**	**330**	**184**	**Yes**	**35**	**5.714**	**n/a**	**n/a**	**0.01**	**NP**

Appendix III Trend Tests - All Results

Plant Arkwright Client: Southern Company Data: Arkwright No 3 Printed 10/3/2024, 11:28 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	ARGWA-12 (bg)	0	-31	-87	No	21	42.86	n/a	n/a	0.01	NP
Boron (mg/L)	**ARGWA-13 (bg)**	**0.08897**	**129**	**87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	ARGWA-14 (bg)	0	0	87	No	21	19.05	n/a	n/a	0.01	NP
Boron (mg/L)	**ARGWA-24 (bg)**	**-0.02099**	**-28**	**-25**	**Yes**	**9**	**44.44**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	ARGWA-3 (bg)	0	-32	-87	No	21	80.95	n/a	n/a	0.01	NP
Boron (mg/L)	ARGWA-5 (bg)	0	-63	-87	No	21	71.43	n/a	n/a	0.01	NP
Boron (mg/L)	ARGWC-18	0.02549	53	87	No	21	0	n/a	n/a	0.01	NP
pH (SU)	ARGWA-12 (bg)	-0.008528	-31	-92	No	22	0	n/a	n/a	0.01	NP
pH (SU)	ARGWA-13 (bg)	0.00465	20	92	No	22	0	n/a	n/a	0.01	NP
pH (SU)	ARGWA-14 (bg)	-0.01103	-12	-92	No	22	0	n/a	n/a	0.01	NP
pH (SU)	ARGWA-24 (bg)	-0.03536	-9	-25	No	9	0	n/a	n/a	0.01	NP
pH (SU)	ARGWA-3 (bg)	0.01186	42	105	No	24	0	n/a	n/a	0.01	NP
pH (SU)	ARGWA-5 (bg)	-0.01483	-42	-105	No	24	0	n/a	n/a	0.01	NP
pH (SU)	ARGWC-16	-0.01266	-64	-105	No	24	0	n/a	n/a	0.01	NP
pH (SU)	**ARGWC-17**	**-0.04639**	**-118**	**-98**	**Yes**	**23**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	ARGWA-12 (bg)	-0.1446	-104	-191	No	36	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**ARGWA-13 (bg)**	**47.51**	**333**	**191**	**Yes**	**36**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**ARGWA-14 (bg)**	**-13.08**	**-389**	**-176**	**Yes**	**34**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	ARGWA-24 (bg)	-0.6184	-25	-25	No	9	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	ARGWA-3 (bg)	0	-1.043	-2.58	No	57	31.58	n/a	n/a	0.01	NP
Sulfate (mg/L)	ARGWA-5 (bg)	0	-0.6407	-2.58	No	58	31.03	n/a	n/a	0.01	NP
Sulfate (mg/L)	ARGWC-10	0.001843	128	191	No	36	41.67	n/a	n/a	0.01	NP
Sulfate (mg/L)	ARGWC-15	0.06364	55	191	No	36	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**ARGWC-16**	**14.92**	**406**	**191**	**Yes**	**36**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	ARGWC-17	-1.043	-48	-176	No	34	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	ARGWC-18	0.7115	139	191	No	36	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**ARGWC-7**	**-6.016**	**-7.905**	**-2.58**	**Yes**	**43**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**ARGWC-8**	**-4.099**	**-568**	**-191**	**Yes**	**36**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**ARGWC-9**	**0.0742**	**330**	**184**	**Yes**	**35**	**5.714**	**n/a**	**n/a**	**0.01**	**NP**

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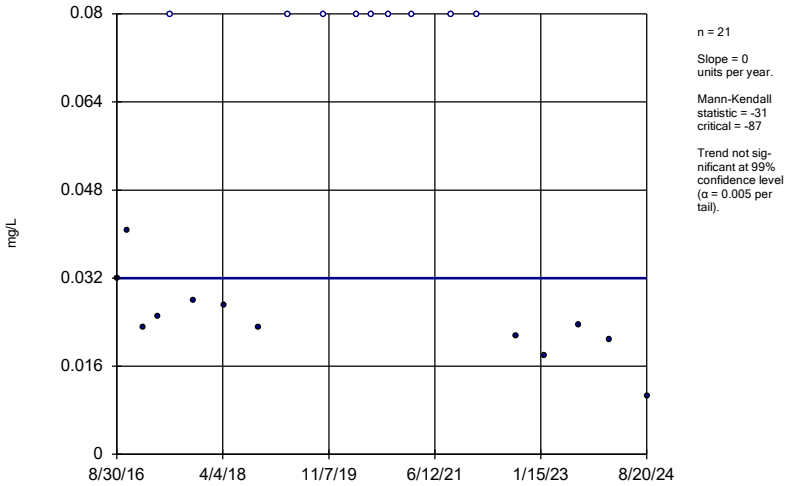
Hollow symbols indicate censored values.

Sen's Slope Estimator

ARGWA-12 (bg)



n = 21

Slope = 0 units per year.

Mann-Kendall statistic = -31
critical = -87

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/3/2024 11:25 AM View: Appendix III - Trend Tests
Plant Arkwright Client: Southern Company Data: Arkwright No 3

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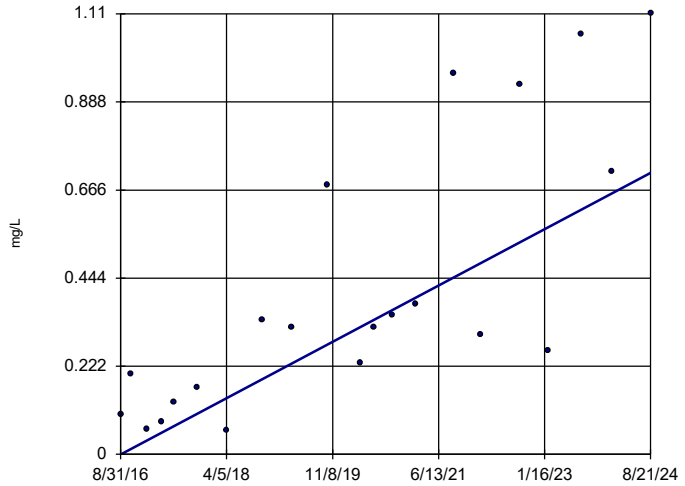
Sen's Slope Estimator

ARGWA-13 (bg)



n = 21

Slope = 0.08897 units per year.

Mann-Kendall statistic = 129
critical = 87

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/3/2024 11:25 AM View: Appendix III - Trend Tests
Plant Arkwright Client: Southern Company Data: Arkwright No 3

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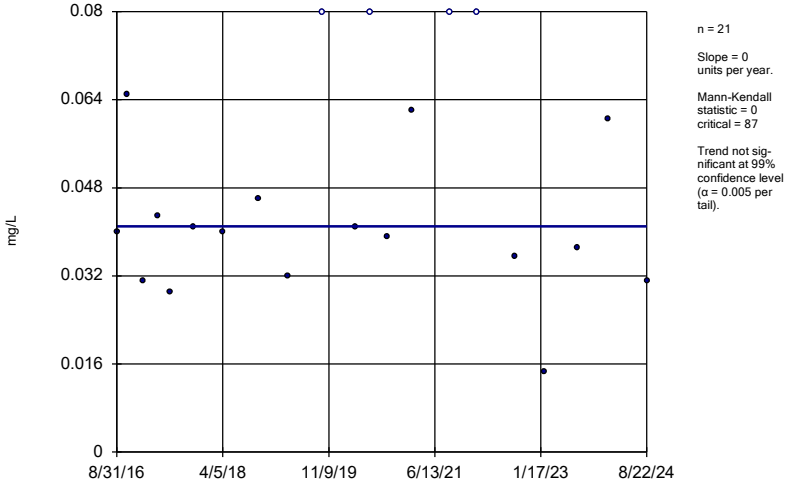
Hollow symbols indicate censored values.

Sen's Slope Estimator

ARGWA-14 (bg)



n = 21

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 87

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/3/2024 11:25 AM View: Appendix III - Trend Tests
Plant Arkwright Client: Southern Company Data: Arkwright No 3

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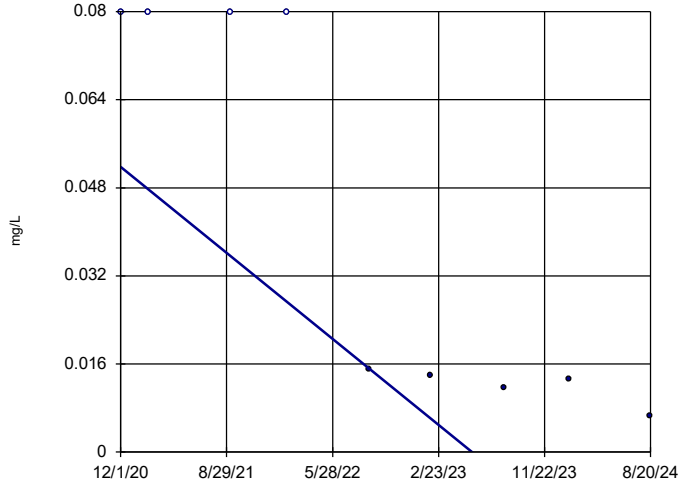
Hollow symbols indicate censored values.

Sen's Slope Estimator

ARGWA-24 (bg)



n = 9

Slope = -0.02099 units per year.

Mann-Kendall statistic = -28
critical = -25

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/3/2024 11:25 AM View: Appendix III - Trend Tests
Plant Arkwright Client: Southern Company Data: Arkwright No 3

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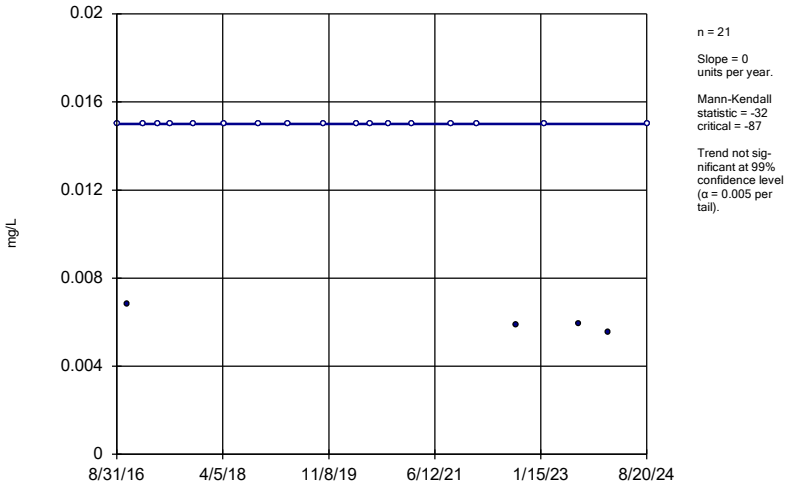
Hollow symbols indicate censored values.

Sen's Slope Estimator

ARGWA-3 (bg)



n = 21

Slope = 0 units per year.

Mann-Kendall statistic = -32 critical = -87

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/3/2024 11:25 AM View: Appendix III - Trend Tests

Plant Arkwright Client: Southern Company Data: Arkwright No 3

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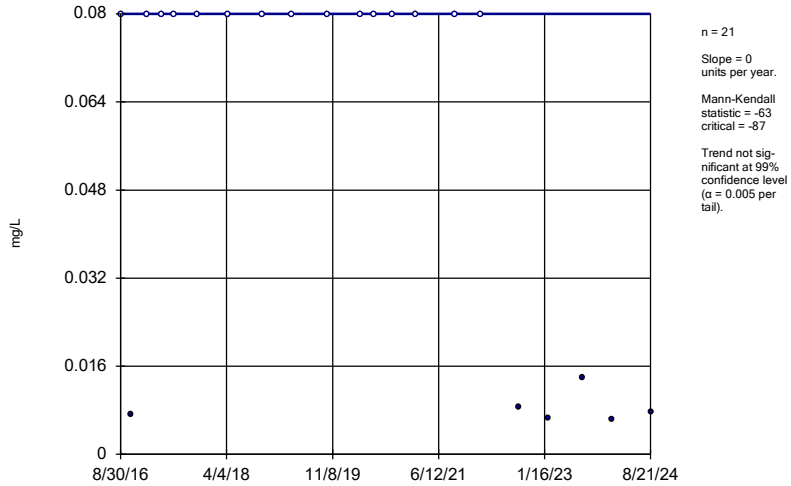
Hollow symbols indicate censored values.

Sen's Slope Estimator

ARGWA-5 (bg)



n = 21

Slope = 0 units per year.

Mann-Kendall statistic = -63 critical = -87

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/3/2024 11:25 AM View: Appendix III - Trend Tests

Plant Arkwright Client: Southern Company Data: Arkwright No 3

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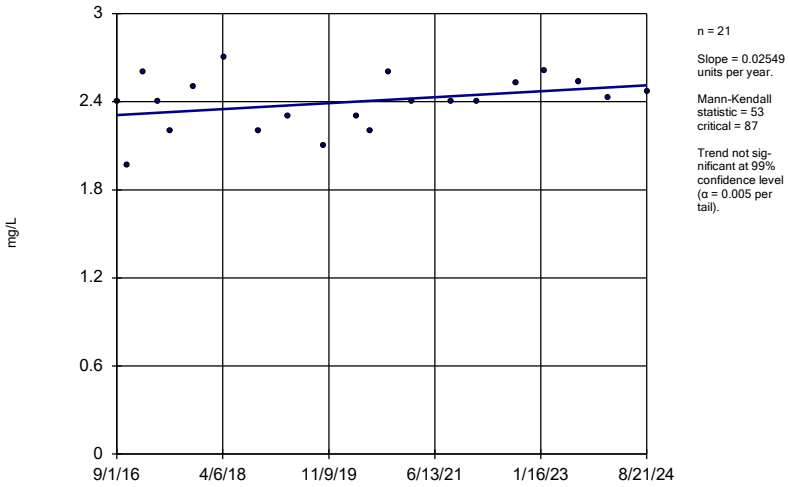
Sen's Slope Estimator

ARGWC-18



n = 21

Slope = 0.02549 units per year.

Mann-Kendall statistic = 53 critical = 87

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/3/2024 11:25 AM View: Appendix III - Trend Tests

Plant Arkwright Client: Southern Company Data: Arkwright No 3

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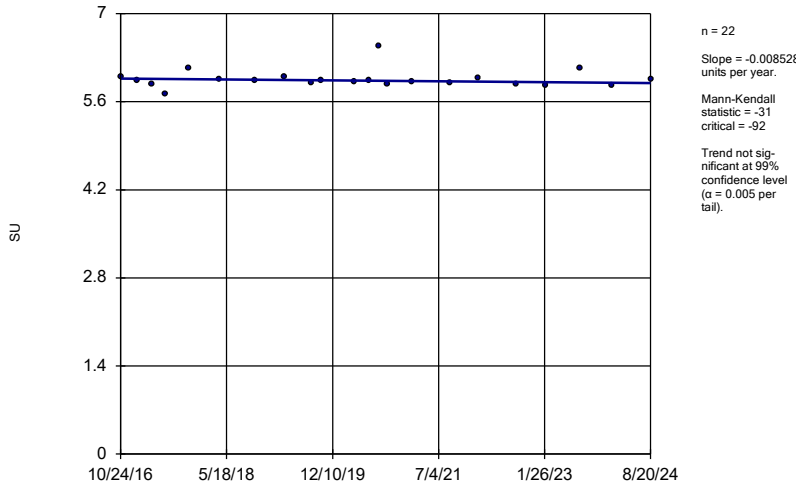
Sen's Slope Estimator

ARGWA-12 (bg)



n = 22

Slope = -0.008528 units per year.

Mann-Kendall statistic = -31 critical = -92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 10/3/2024 11:25 AM View: Appendix III - Trend Tests

Plant Arkwright Client: Southern Company Data: Arkwright No 3

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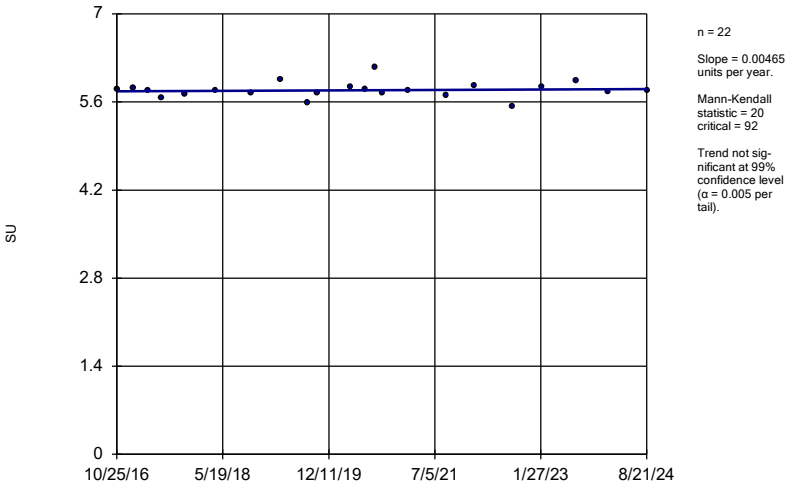
Sen's Slope Estimator

ARGWA-13 (bg)



n = 22

Slope = 0.00465 units per year.

Mann-Kendall statistic = 20 critical = 92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 10/3/2024 11:25 AM View: Appendix III - Trend Tests

Plant Arkwright Client: Southern Company Data: Arkwright No 3

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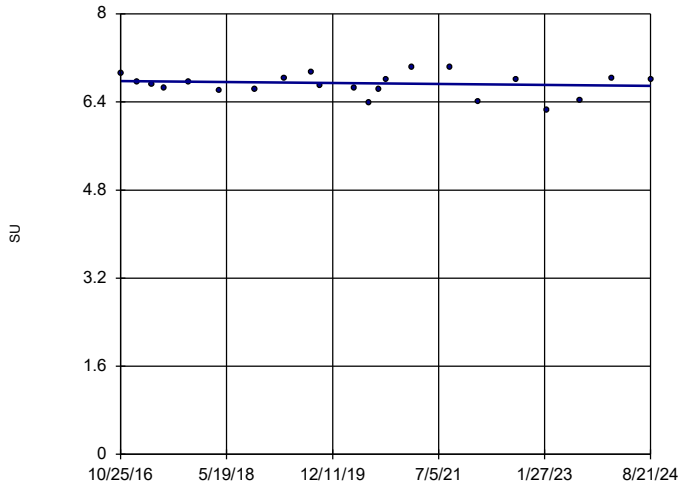
Sen's Slope Estimator

ARGWA-14 (bg)



n = 22

Slope = -0.01103 units per year.

Mann-Kendall statistic = -12 critical = -92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 10/3/2024 11:25 AM View: Appendix III - Trend Tests

Plant Arkwright Client: Southern Company Data: Arkwright No 3

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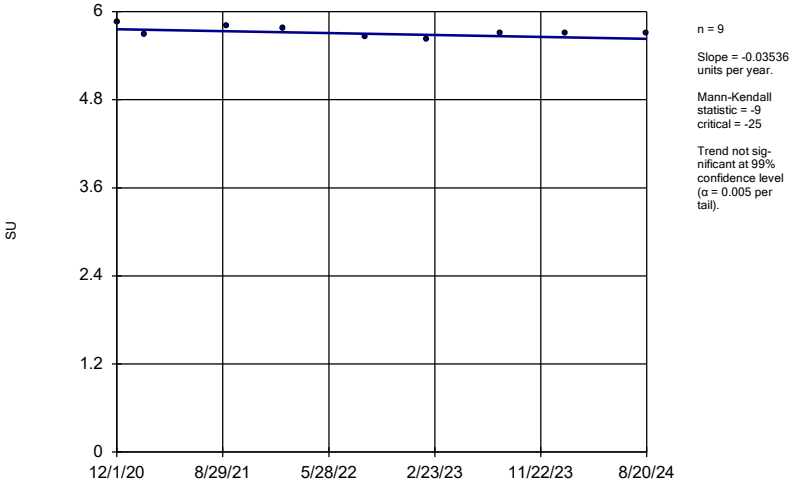
Sen's Slope Estimator

ARGWA-24 (bg)



n = 9

Slope = -0.03536 units per year.

Mann-Kendall statistic = -9 critical = -25

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 10/3/2024 11:25 AM View: Appendix III - Trend Tests

Plant Arkwright Client: Southern Company Data: Arkwright No 3

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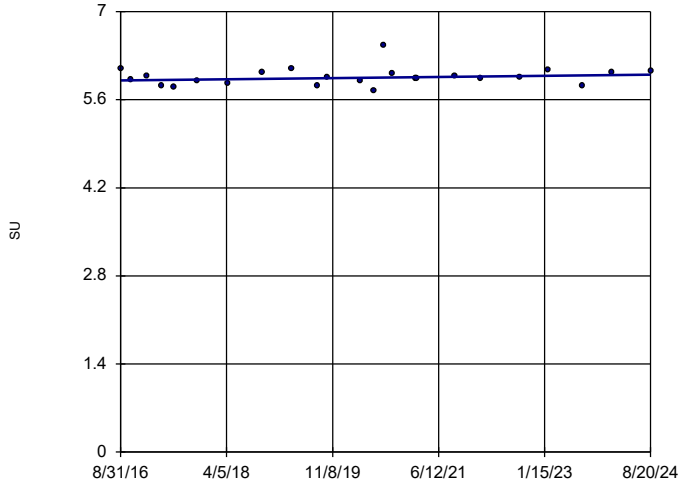
Sen's Slope Estimator

ARGWA-3 (bg)



n = 24

Slope = 0.01186 units per year.

Mann-Kendall statistic = 42 critical = 105

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 10/3/2024 11:25 AM View: Appendix III - Trend Tests

Plant Arkwright Client: Southern Company Data: Arkwright No 3

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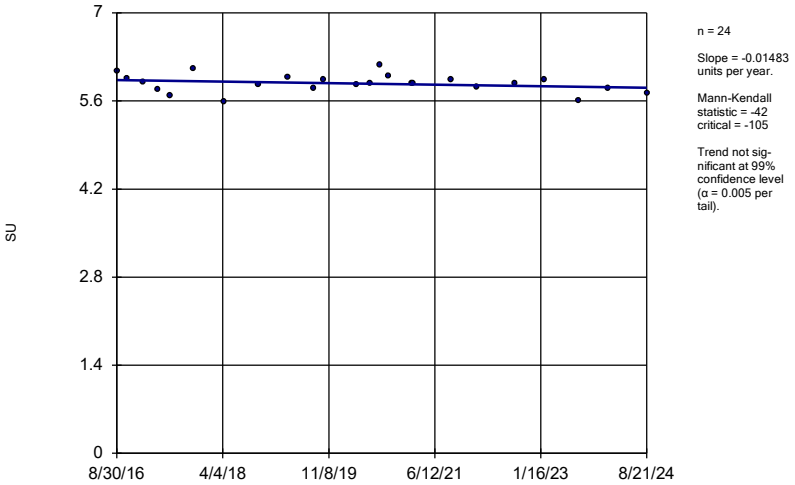
Sen's Slope Estimator

ARGWA-5 (bg)



n = 24

Slope = -0.01483 units per year.

Mann-Kendall statistic = -42
critical = -105

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 10/3/2024 11:25 AM View: Appendix III - Trend Tests
Plant Arkwright Client: Southern Company Data: Arkwright No 3

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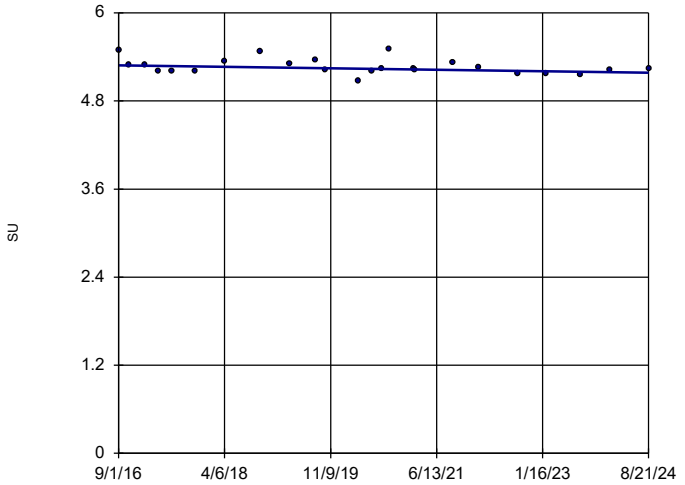
Sen's Slope Estimator

ARGWC-16



n = 24

Slope = -0.01266 units per year.

Mann-Kendall statistic = -64
critical = -105

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 10/3/2024 11:25 AM View: Appendix III - Trend Tests
Plant Arkwright Client: Southern Company Data: Arkwright No 3

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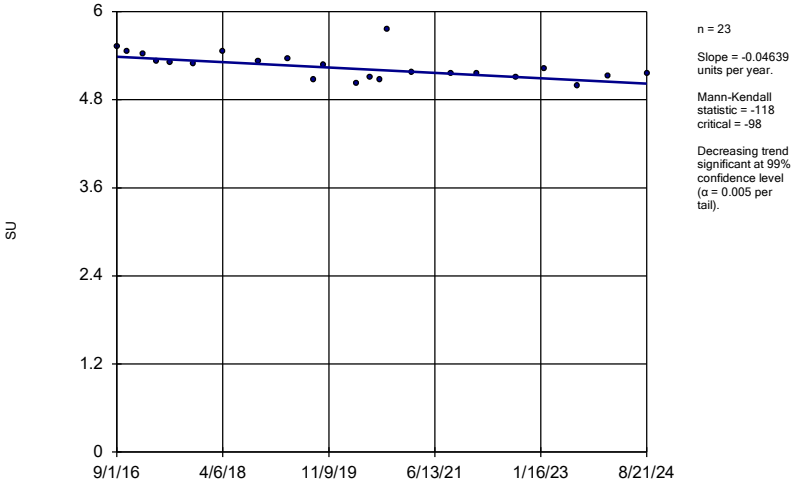
Sen's Slope Estimator

ARGWC-17



n = 23

Slope = -0.04639 units per year.

Mann-Kendall statistic = -118
critical = -98

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 10/3/2024 11:25 AM View: Appendix III - Trend Tests
Plant Arkwright Client: Southern Company Data: Arkwright No 3

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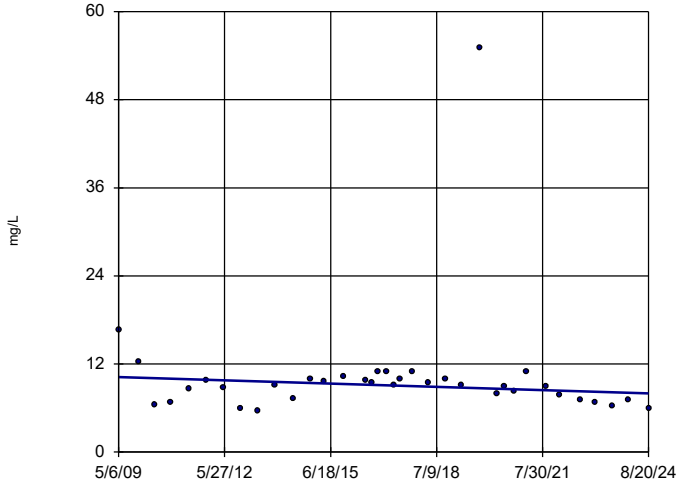
Sen's Slope Estimator

ARGWA-12 (bg)



n = 36

Slope = -0.1446 units per year.

Mann-Kendall statistic = -104
critical = -191

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/3/2024 11:25 AM View: Appendix III - Trend Tests
Plant Arkwright Client: Southern Company Data: Arkwright No 3

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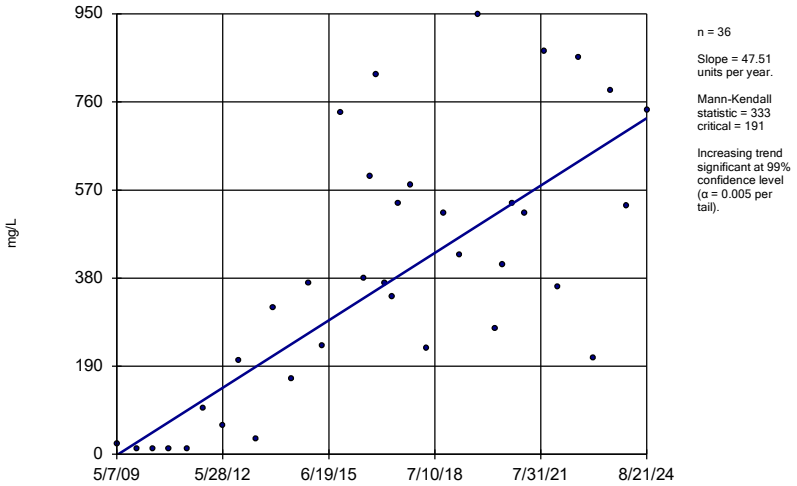
Sen's Slope Estimator

ARGWA-13 (bg)



n = 36

Slope = 47.51 units per year.

Mann-Kendall statistic = 333
critical = 191

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/3/2024 11:25 AM View: Appendix III - Trend Tests
Plant Arkwright Client: Southern Company Data: Arkwright No 3

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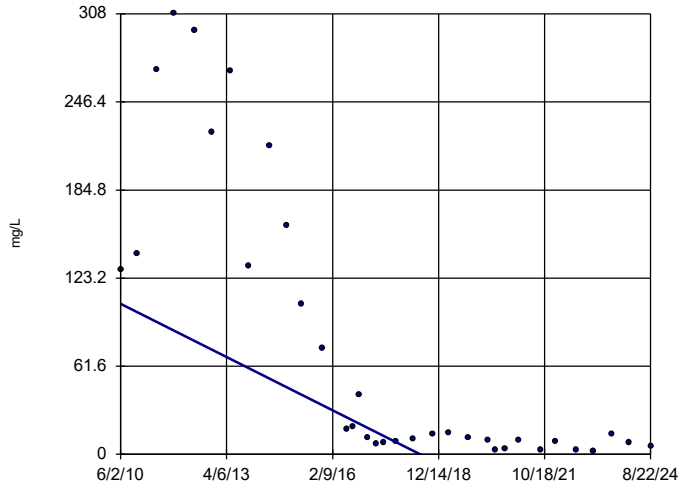
Sen's Slope Estimator

ARGWA-14 (bg)



n = 34

Slope = -13.08 units per year.

Mann-Kendall statistic = -389
critical = -176

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/3/2024 11:25 AM View: Appendix III - Trend Tests
Plant Arkwright Client: Southern Company Data: Arkwright No 3

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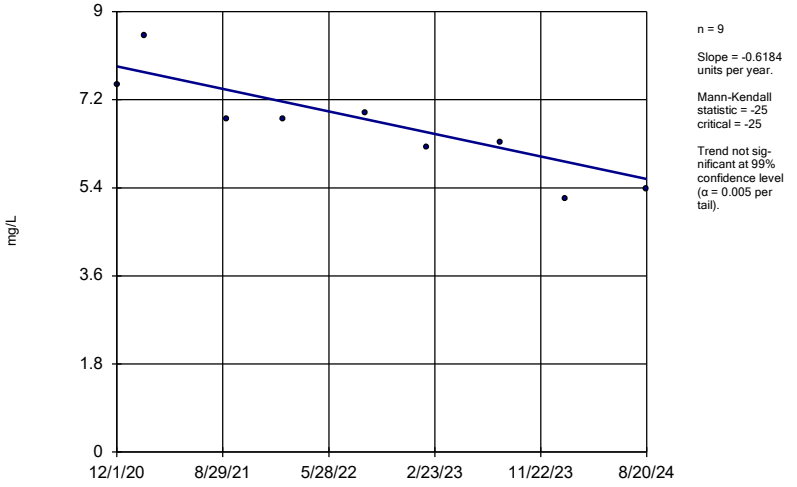
Sen's Slope Estimator

ARGWA-24 (bg)



n = 9

Slope = -0.6184 units per year.

Mann-Kendall statistic = -25
critical = -25

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/3/2024 11:25 AM View: Appendix III - Trend Tests
Plant Arkwright Client: Southern Company Data: Arkwright No 3

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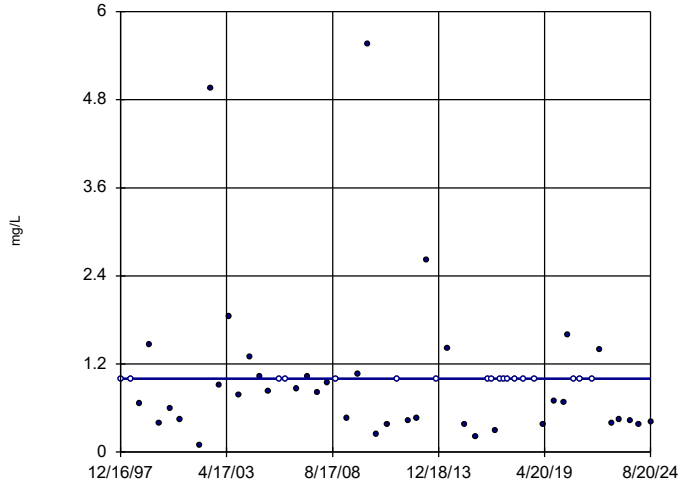
Hollow symbols indicate censored values.

Sen's Slope Estimator

ARGWA-3 (bg)



n = 57

Slope = 0 units per year.

Mann-Kendall normal approx. = -1.043
critical = -2.58

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/3/2024 11:25 AM View: Appendix III - Trend Tests
Plant Arkwright Client: Southern Company Data: Arkwright No 3

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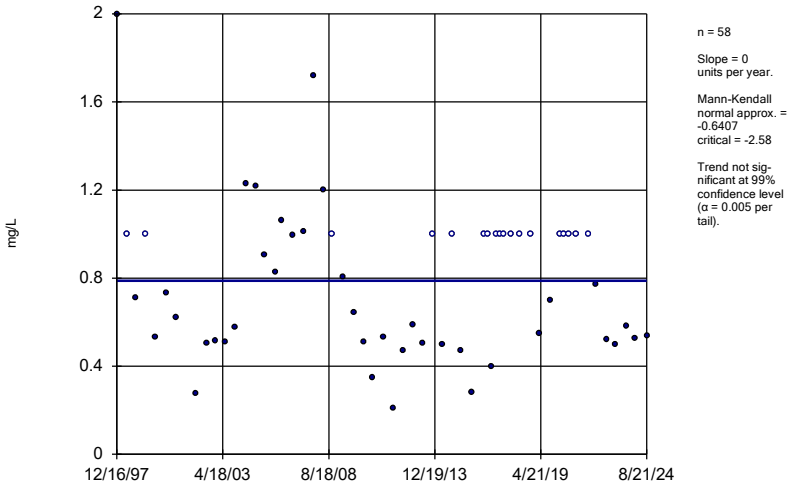
Hollow symbols indicate censored values.

Sen's Slope Estimator

ARGWA-5 (bg)



n = 58

Slope = 0 units per year.

Mann-Kendall normal approx. = -0.6407 critical = -2.58

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/3/2024 11:25 AM View: Appendix III - Trend Tests
Plant Arkwright Client: Southern Company Data: Arkwright No 3

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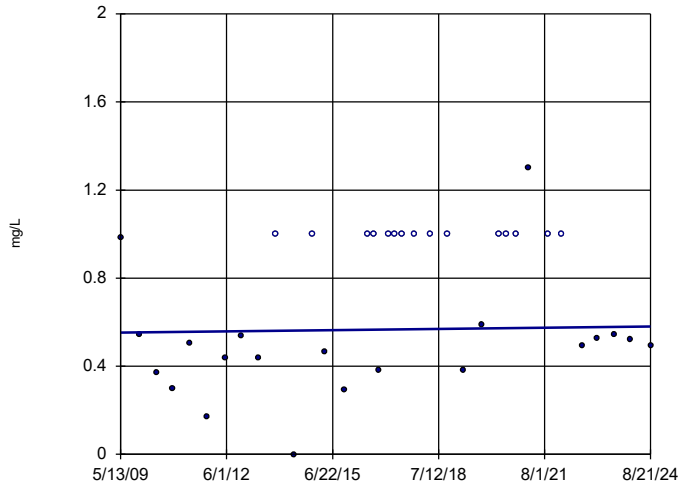
Hollow symbols indicate censored values.

Sen's Slope Estimator

ARGWC-10



n = 36

Slope = 0.001843 units per year.

Mann-Kendall statistic = 128 critical = 191

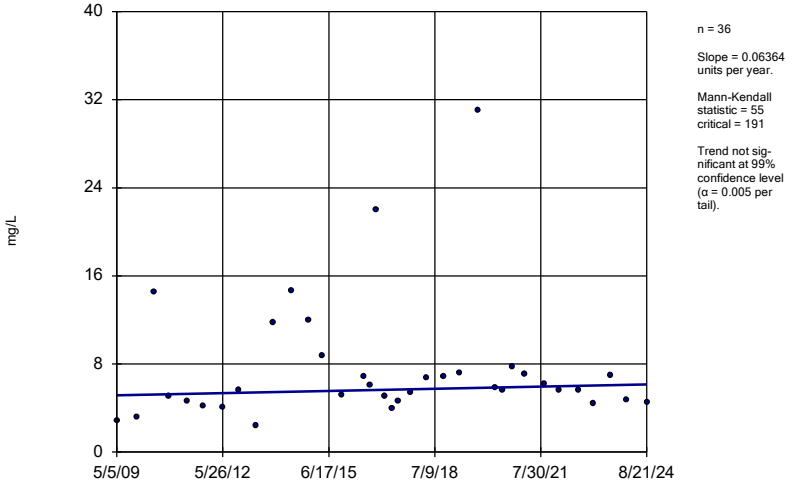
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/3/2024 11:25 AM View: Appendix III - Trend Tests
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

ARGWC-15



n = 36

Slope = 0.06364 units per year.

Mann-Kendall statistic = 55 critical = 191

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/3/2024 11:25 AM View: Appendix III - Trend Tests
Plant Arkwright Client: Southern Company Data: Arkwright No 3

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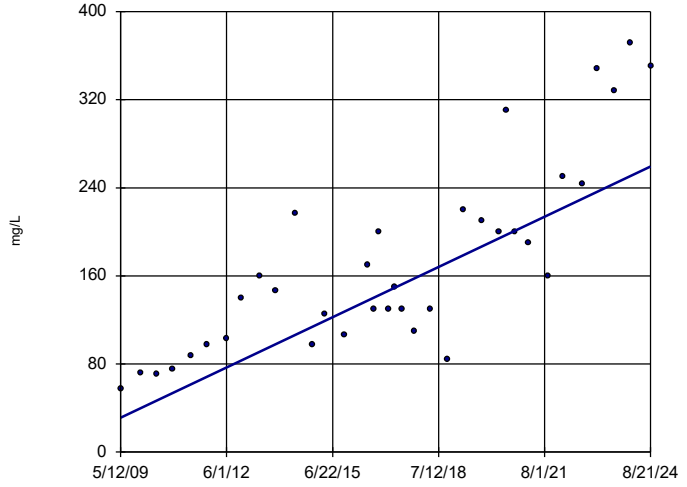
Sen's Slope Estimator

ARGWC-16



n = 36

Slope = 14.92 units per year.

Mann-Kendall statistic = 406 critical = 191

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/3/2024 11:25 AM View: Appendix III - Trend Tests
Plant Arkwright Client: Southern Company Data: Arkwright No 3

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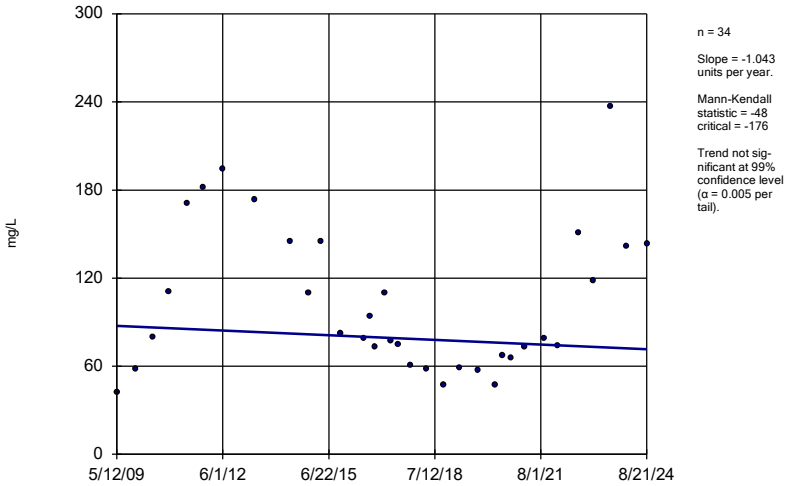
Sen's Slope Estimator

ARGWC-17



n = 34

Slope = -1.043 units per year.

Mann-Kendall statistic = -48
critical = -176

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/3/2024 11:25 AM View: Appendix III - Trend Tests
Plant Arkwright Client: Southern Company Data: Arkwright No 3

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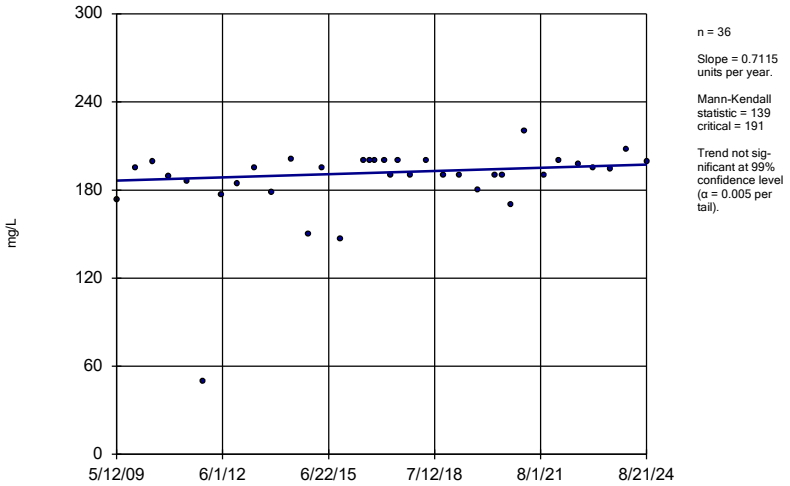
Sen's Slope Estimator

ARGWC-18



n = 36

Slope = 0.7115 units per year.

Mann-Kendall statistic = 139
critical = 191

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/3/2024 11:25 AM View: Appendix III - Trend Tests
Plant Arkwright Client: Southern Company Data: Arkwright No 3

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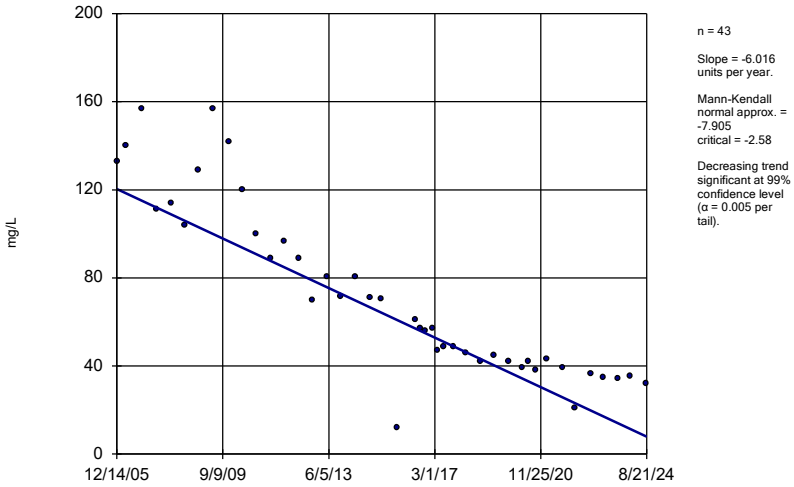
Sen's Slope Estimator

ARGWC-7



n = 43

Slope = -6.016 units per year.

Mann-Kendall normal approx. = -7.905
critical = -2.58

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/3/2024 11:25 AM View: Appendix III - Trend Tests
Plant Arkwright Client: Southern Company Data: Arkwright No 3

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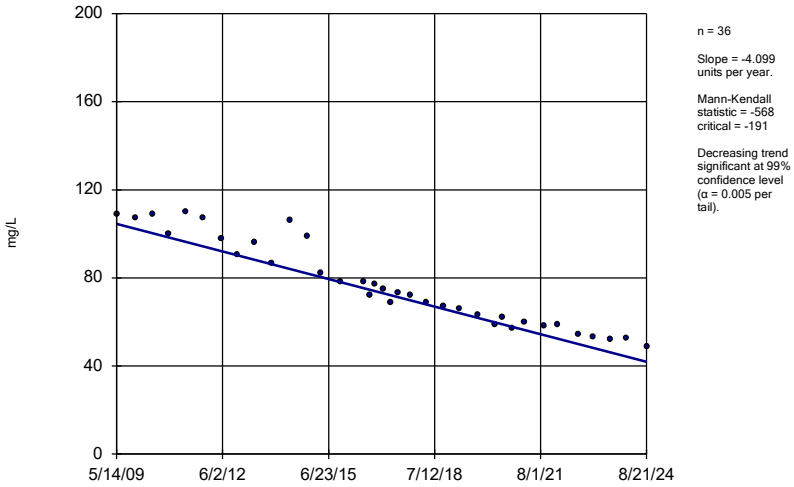
Sen's Slope Estimator

ARGWC-8



n = 36

Slope = -4.099 units per year.

Mann-Kendall statistic = -568
critical = -191

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/3/2024 11:25 AM View: Appendix III - Trend Tests
Plant Arkwright Client: Southern Company Data: Arkwright No 3

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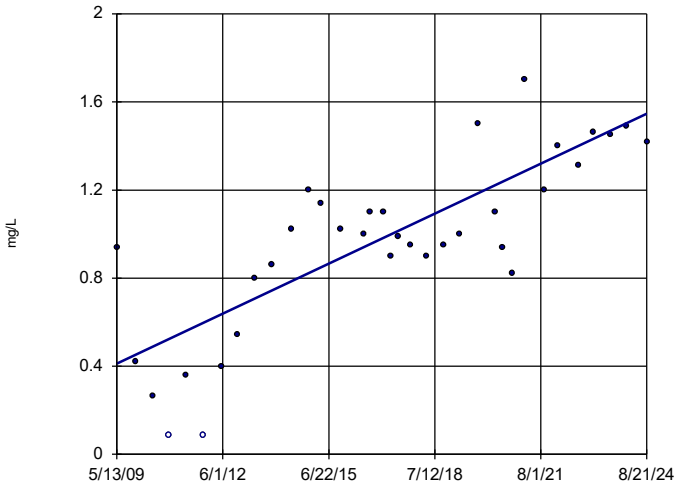
Hollow symbols indicate censored values.

Sen's Slope Estimator

ARGWC-9



n = 35

Slope = 0.0742 units per year.

Mann-Kendall statistic = 330
critical = 184

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/3/2024 11:26 AM View: Appendix III - Trend Tests

Plant Arkwright Client: Southern Company Data: Arkwright No 3

FIGURE G.

Upper Tolerance Limits

Plant Arkwright Client: Southern Company Data: Arkwright No 3 Printed 10/3/2024, 11:37 AM

Constituent	Well	Upper Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Antimony (mg/L)	n/a	0.003	n/a	n/a	n/a	104	96.15	n/a	0.004822	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.00593	n/a	n/a	n/a	235	82.13	n/a	NaN	NP Inter(NDs)
Barium (mg/L)	n/a	0.24	n/a	n/a	n/a	232	0	n/a	NaN	NP Inter(normality)
Beryllium (mg/L)	n/a	0.0005	n/a	n/a	n/a	114	97.37	n/a	0.002887	NP Inter(NDs)
Cadmium (mg/L)	n/a	0.0043	n/a	n/a	n/a	227	95.15	n/a	NaN	NP Inter(NDs)
Chromium (mg/L)	n/a	0.0139	n/a	n/a	n/a	114	68.42	n/a	0.002887	NP Inter(NDs)
Cobalt (mg/L)	n/a	0.0058	n/a	n/a	n/a	119	81.51	n/a	0.002234	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	n/a	4.25	n/a	n/a	n/a	114	2.632	n/a	0.002887	NP Inter(normality)
Fluoride (mg/L)	n/a	0.53	n/a	n/a	n/a	124	27.42	n/a	0.001729	NP Inter(normality)
Lead (mg/L)	n/a	0.013	n/a	n/a	n/a	233	90.56	n/a	NaN	NP Inter(NDs)
Lithium (mg/L)	n/a	0.01	n/a	n/a	n/a	118	48.31	n/a	0.002352	NP Inter(normality)
Mercury (mg/L)	n/a	0.0002	n/a	n/a	n/a	99	96.97	n/a	0.006232	NP Inter(NDs)
Molybdenum (mg/L)	n/a	0.004	n/a	n/a	n/a	119	83.19	n/a	0.002234	NP Inter(NDs)
Selenium (mg/L)	n/a	0.034	n/a	n/a	n/a	235	82.55	n/a	NaN	NP Inter(NDs)
Silver (mg/L)	n/a	0.0051	n/a	n/a	n/a	203	95.07	n/a	NaN	NP Inter(NDs)
Thallium (mg/L)	n/a	0.002	n/a	n/a	n/a	114	93.86	n/a	0.002887	NP Inter(NDs)

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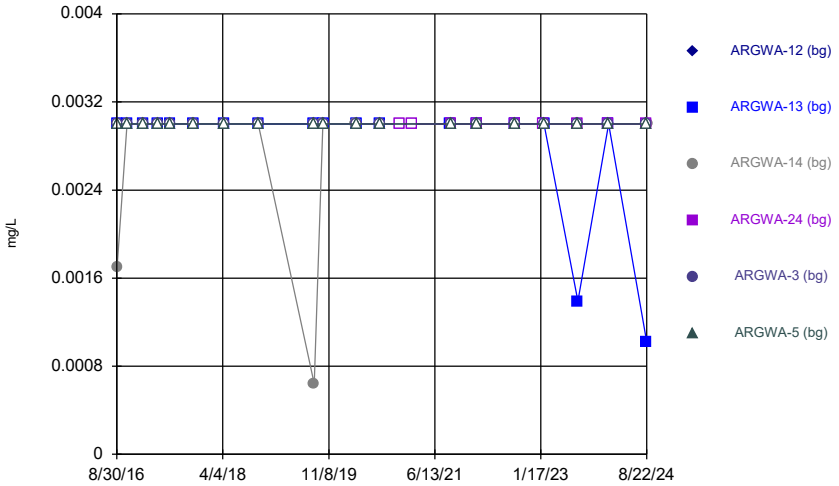
Hollow symbols indicate censored values.

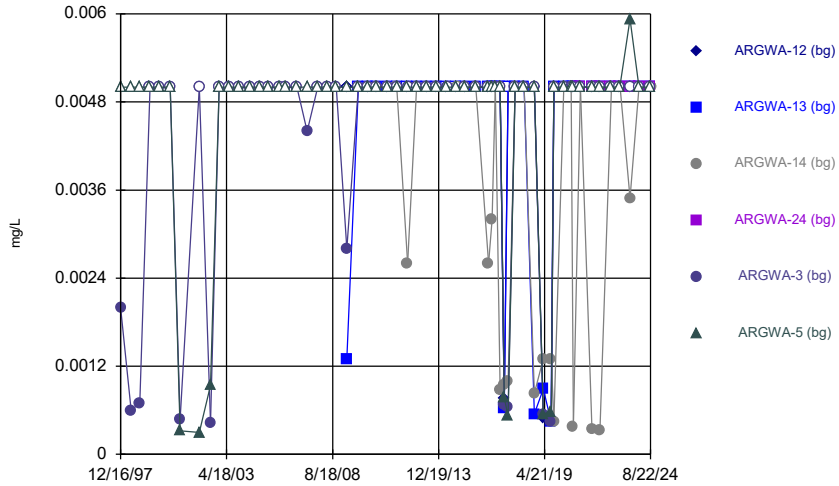
Time Series



Constituent: Antimony Analysis Run 10/3/2024 11:36 AM View: Appendix I & IV - UTLs
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

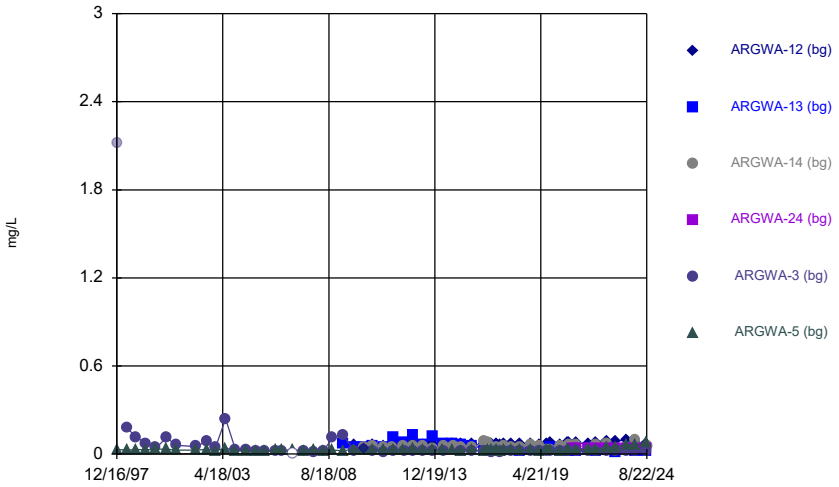
Time Series



Constituent: Arsenic Analysis Run 10/3/2024 11:36 AM View: Appendix I & IV - UTLs
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

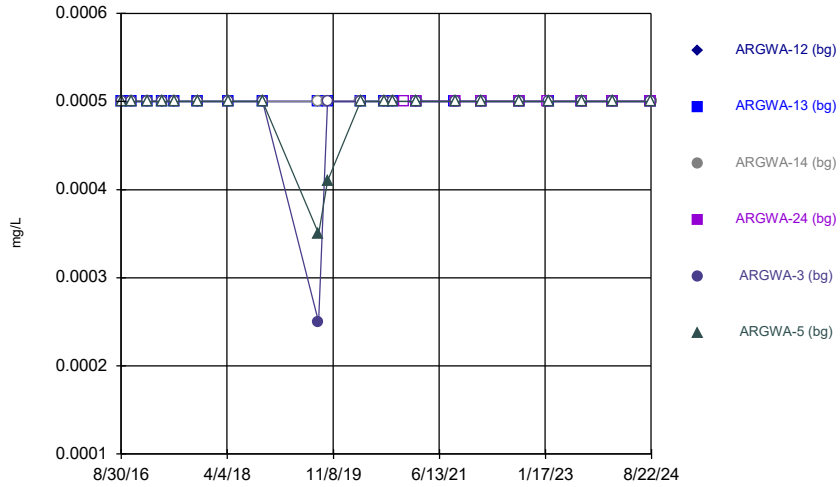
Time Series



Constituent: Barium Analysis Run 10/3/2024 11:36 AM View: Appendix I & IV - UTLs
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

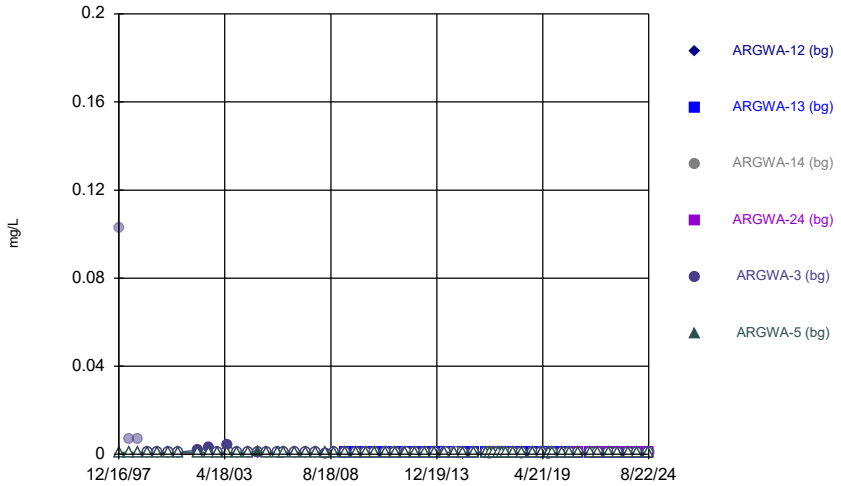
Time Series



Constituent: Beryllium Analysis Run 10/3/2024 11:36 AM View: Appendix I & IV - UTLs
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

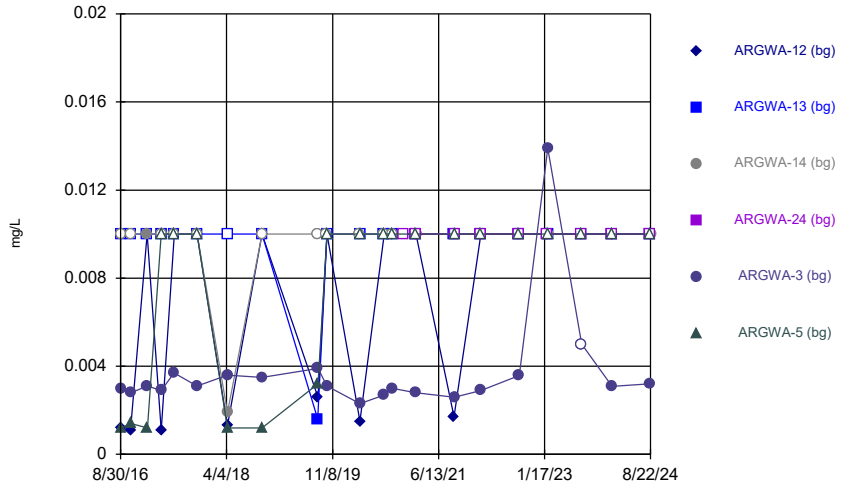
Time Series



Constituent: Cadmium Analysis Run 10/3/2024 11:36 AM View: Appendix I & IV - UTLs
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

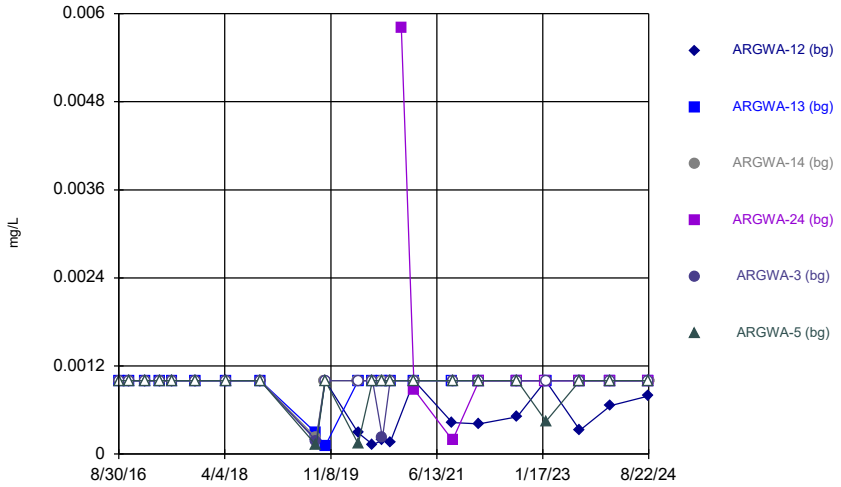
Time Series



Constituent: Chromium Analysis Run 10/3/2024 11:36 AM View: Appendix I & IV - UTLs
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

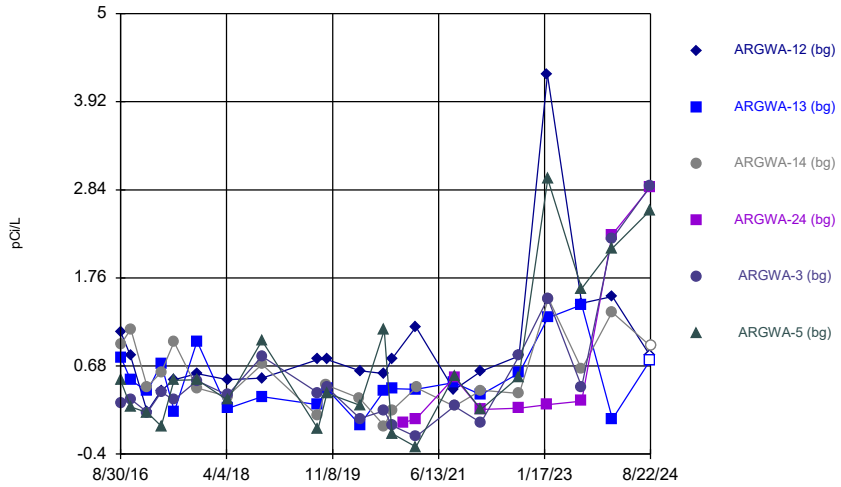
Time Series



Constituent: Cobalt Analysis Run 10/3/2024 11:36 AM View: Appendix I & IV - UTLs
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 10/3/2024 11:36 AM View: Appendix I & IV - UTL
Plant Arkwright Client: Southern Company Data: Arkwright No 3

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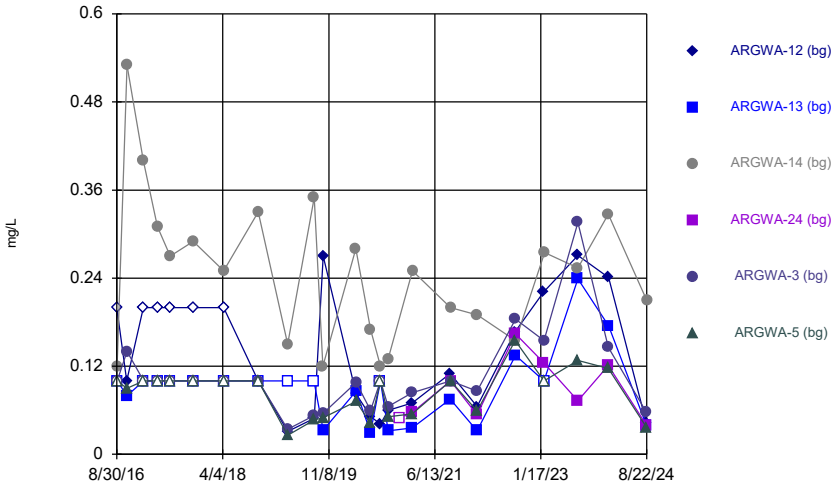
Hollow symbols indicate censored values.

Time Series



Constituent: Fluoride Analysis Run 10/3/2024 11:36 AM View: Appendix I & IV - UTLs
Plant Arkwright Client: Southern Company Data: Arkwright No 3

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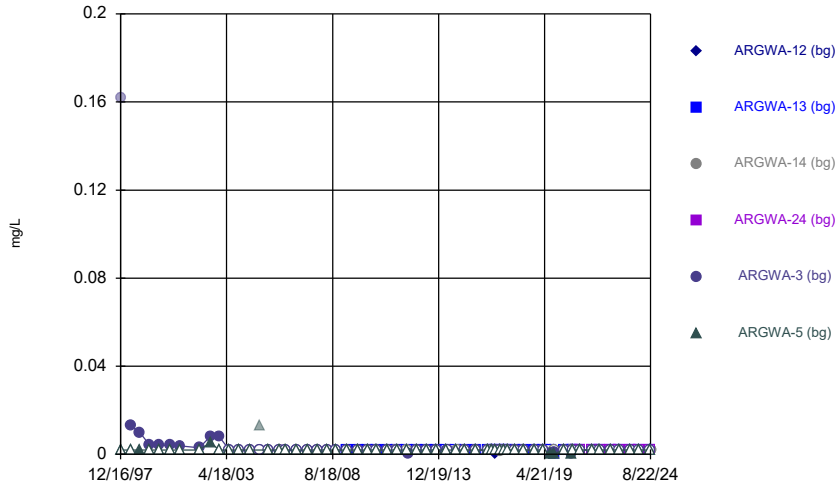
Hollow symbols indicate censored values.

Time Series



Constituent: Lead Analysis Run 10/3/2024 11:36 AM View: Appendix I & IV - UTLs
Plant Arkwright Client: Southern Company Data: Arkwright No 3

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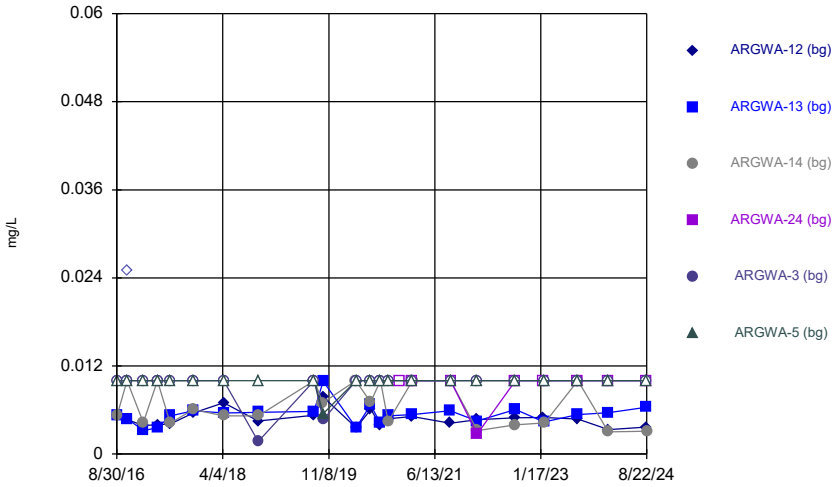
Hollow symbols indicate censored values.

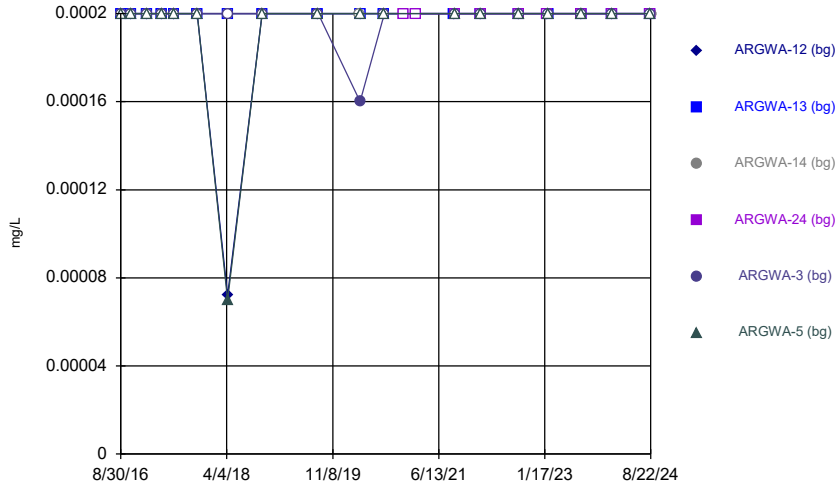
Time Series



Constituent: Lithium Analysis Run 10/3/2024 11:36 AM View: Appendix I & IV - UTLs
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Mercury Analysis Run 10/3/2024 11:36 AM View: Appendix I & IV - UTLs
Plant Arkwright Client: Southern Company Data: Arkwright No 3

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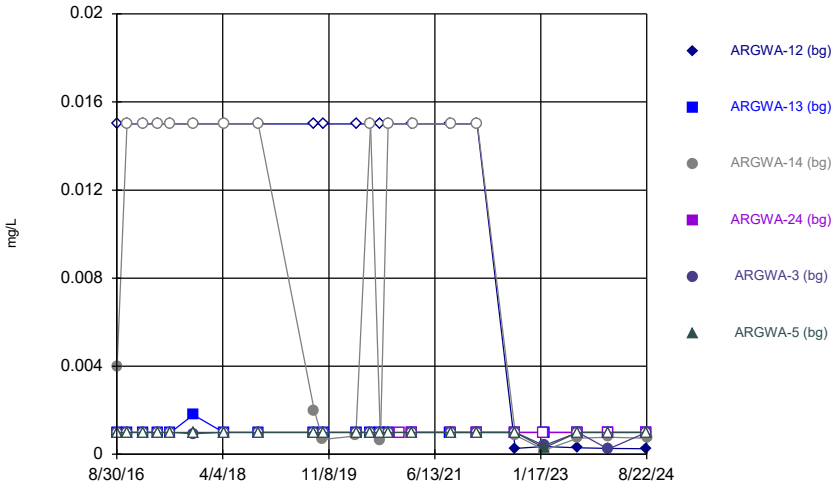
Hollow symbols indicate censored values.

Time Series



Constituent: Molybdenum Analysis Run 10/3/2024 11:37 AM View: Appendix I & IV - UTLs
Plant Arkwright Client: Southern Company Data: Arkwright No 3

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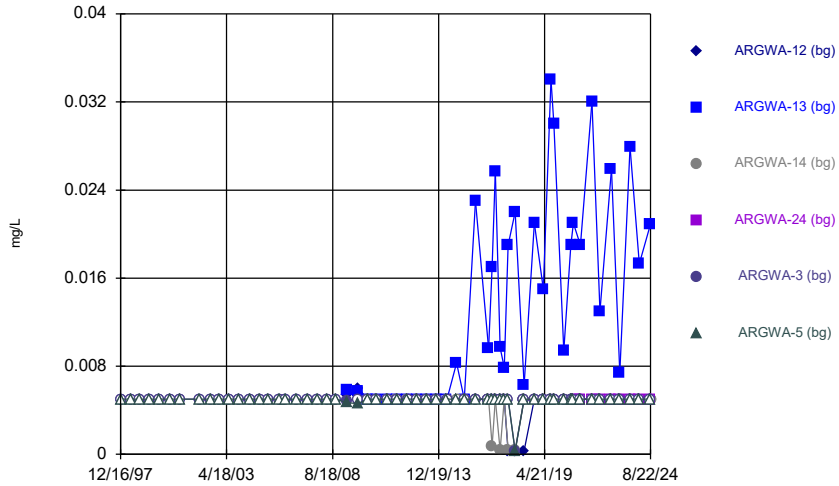
Hollow symbols indicate censored values.

Time Series



Constituent: Selenium Analysis Run 10/3/2024 11:37 AM View: Appendix I & IV - UTLs
Plant Arkwright Client: Southern Company Data: Arkwright No 3

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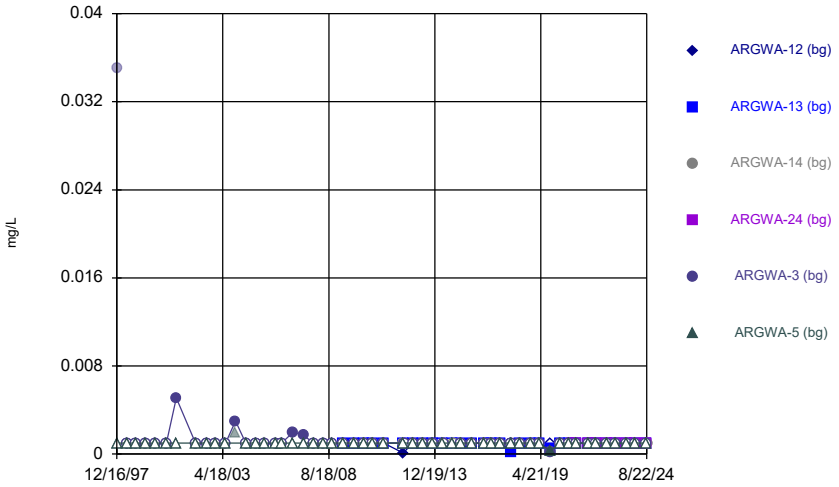
Hollow symbols indicate censored values.

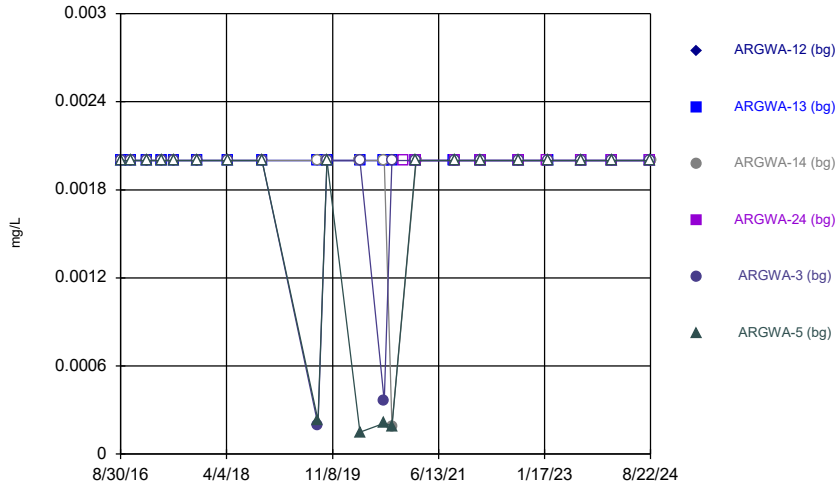
Time Series



Constituent: Silver Analysis Run 10/3/2024 11:37 AM View: Appendix I & IV - UTLs
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series

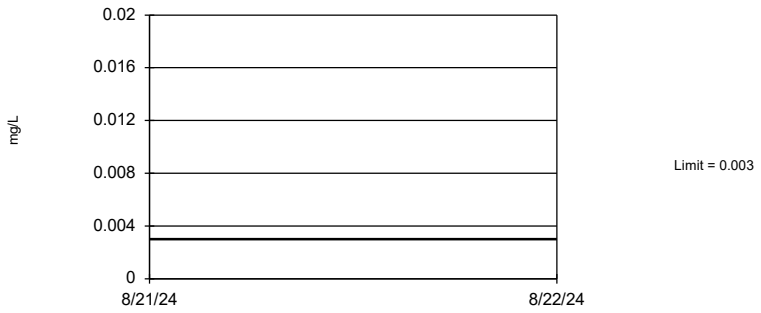


Constituent: Thallium Analysis Run 10/3/2024 11:37 AM View: Appendix I & IV - UTLs
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 104 background values. 96.15% NDs. 95.51% coverage at alpha=0.01; 97.07% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.004822.

Constituent: Antimony Analysis Run 10/3/2024 11:35 AM View: Appendix I & IV - UTLs
Plant Arkwright Client: Southern Company Data: Arkwright No 3

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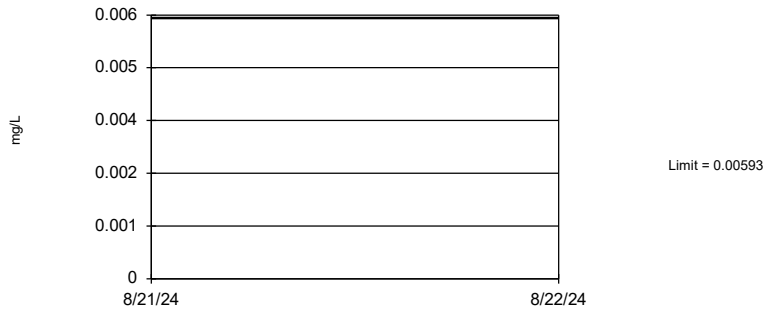
Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 235 background values. 82.13% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Arsenic Analysis Run 10/3/2024 11:35 AM View: Appendix I & IV - UTLs
Plant Arkwright Client: Southern Company Data: Arkwright No 3

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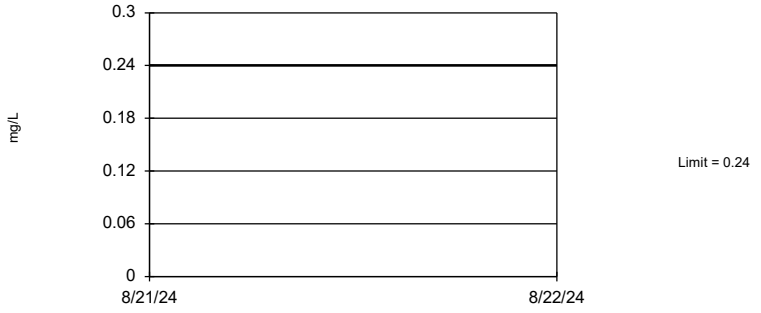
Tolerance Limit

Interwell Non-parametric



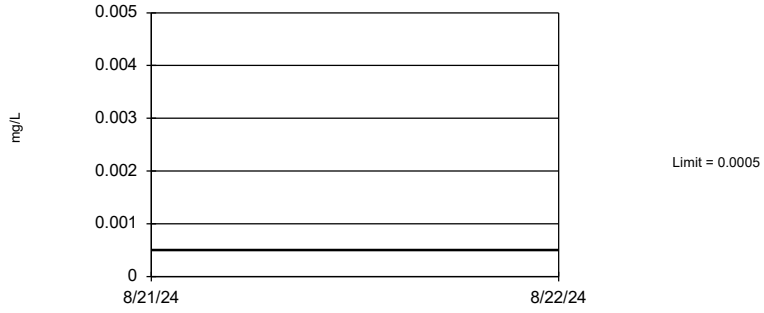
Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 232 background values. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Barium Analysis Run 10/3/2024 11:35 AM View: Appendix I & IV - UTLs
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 114 background values. 97.37% NDs. 95.9% coverage at alpha=0.01; 97.46% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.002887.

Constituent: Beryllium Analysis Run 10/3/2024 11:35 AM View: Appendix I & IV - UTLs
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric

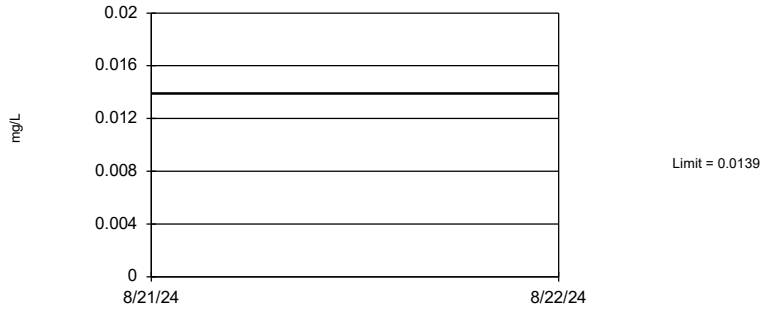
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 227 background values. 95.15% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Cadmium Analysis Run 10/3/2024 11:35 AM View: Appendix I & IV - UTLs
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



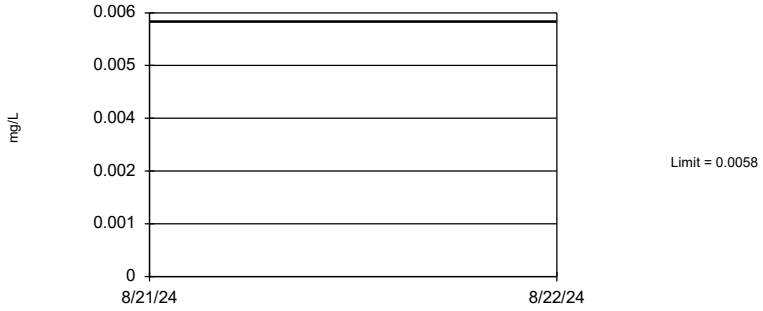
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 114 background values. 68.42% NDs. 95.9% coverage at alpha=0.01; 97.46% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.002887.

Constituent: Chromium Analysis Run 10/3/2024 11:35 AM View: Appendix I & IV - UTLs
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



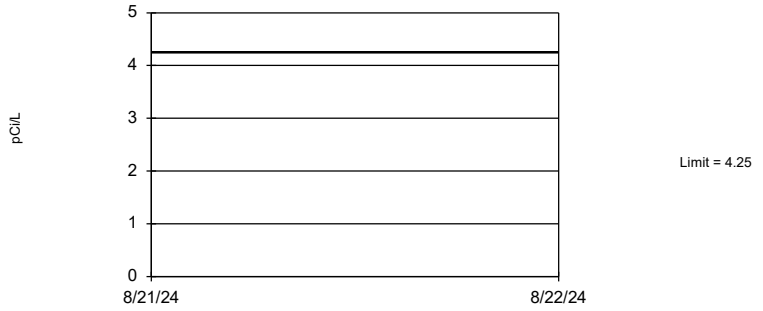
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 119 background values. 81.51% NDs. 96.29% coverage at alpha=0.01; 97.46% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.002234.

Constituent: Cobalt Analysis Run 10/3/2024 11:35 AM View: Appendix I & IV - UTLs
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



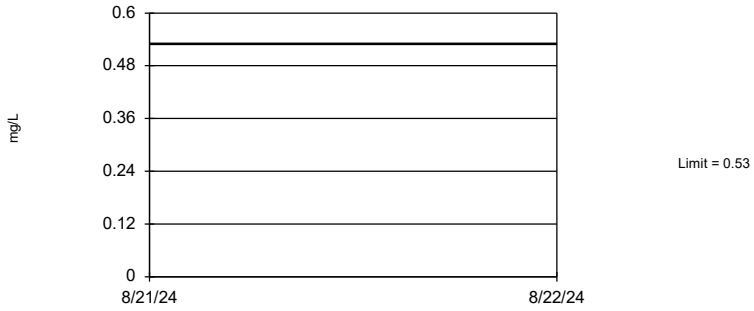
Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 114 background values. 2.632% NDs. 95.9% coverage at alpha=0.01; 97.46% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.002887.

Constituent: Combined Radium 226 + 228 Analysis Run 10/3/2024 11:35 AM View: Appendix I & IV - UTL
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 124 background values. 27.42% NDs. 96.29% coverage at alpha=0.01; 97.46% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.001729.

Constituent: Fluoride Analysis Run 10/3/2024 11:35 AM View: Appendix I & IV - UTLs
Plant Arkwright Client: Southern Company Data: Arkwright No 3

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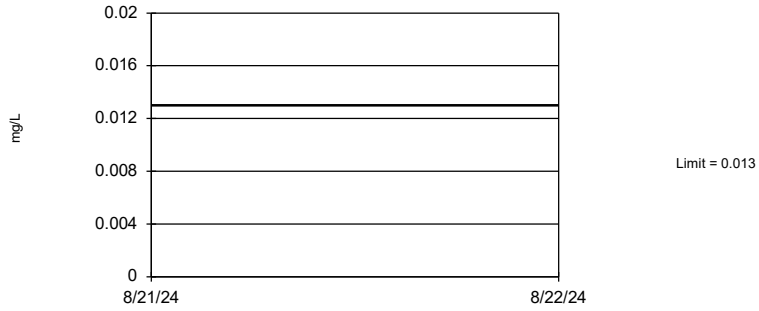
Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 233 background values. 90.56% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Lead Analysis Run 10/3/2024 11:35 AM View: Appendix I & IV - UTLs
Plant Arkwright Client: Southern Company Data: Arkwright No 3

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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 118 background values. 48.31% NDs. 96.29% coverage at alpha=0.01; 97.46% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.002352.

Constituent: Lithium Analysis Run 10/3/2024 11:36 AM View: Appendix I & IV - UTLs
Plant Arkwright Client: Southern Company Data: Arkwright No 3

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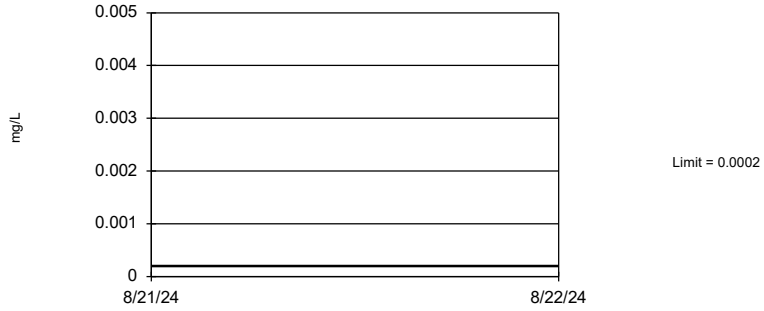
Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 99 background values. 96.97% NDs. 95.51% coverage at alpha=0.01; 97.07% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.006232.

Constituent: Mercury Analysis Run 10/3/2024 11:36 AM View: Appendix I & IV - UTLs
Plant Arkwright Client: Southern Company Data: Arkwright No 3

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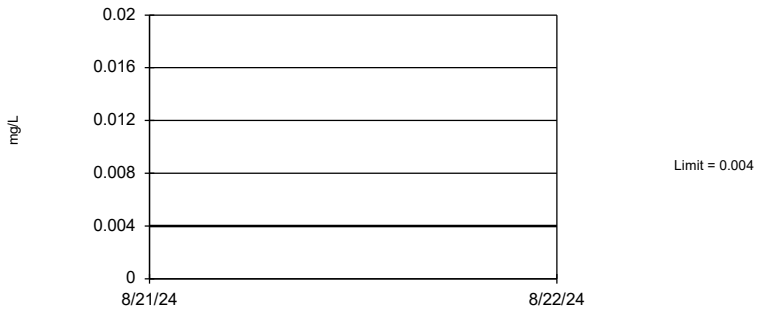
Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 119 background values. 83.19% NDs. 96.29% coverage at alpha=0.01; 97.46% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.002234.

Constituent: Molybdenum Analysis Run 10/3/2024 11:36 AM View: Appendix I & IV - UTLs
Plant Arkwright Client: Southern Company Data: Arkwright No 3

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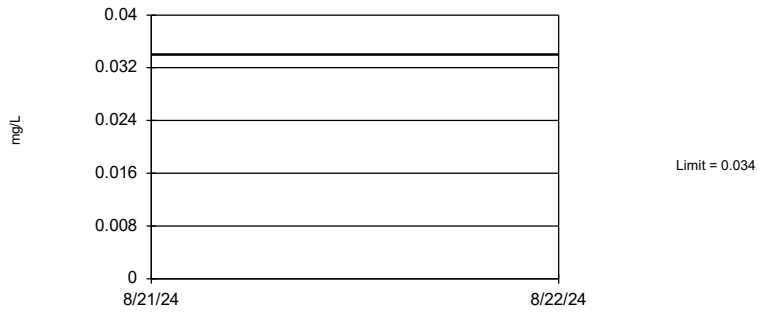
Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 235 background values. 82.55% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Selenium Analysis Run 10/3/2024 11:36 AM View: Appendix I & IV - UTLs
Plant Arkwright Client: Southern Company Data: Arkwright No 3

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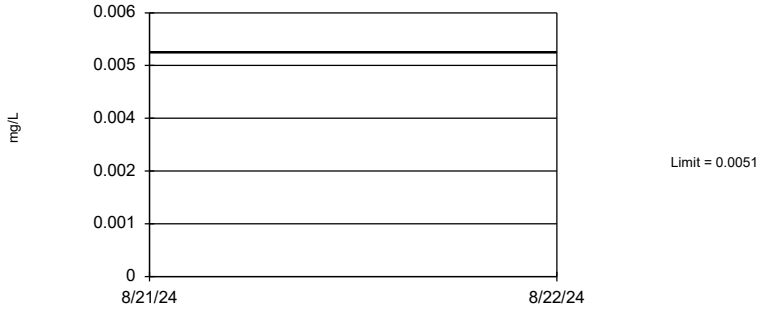
Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 203 background values. 95.07% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Silver Analysis Run 10/3/2024 11:36 AM View: Appendix I & IV - UTLs
Plant Arkwright Client: Southern Company Data: Arkwright No 3

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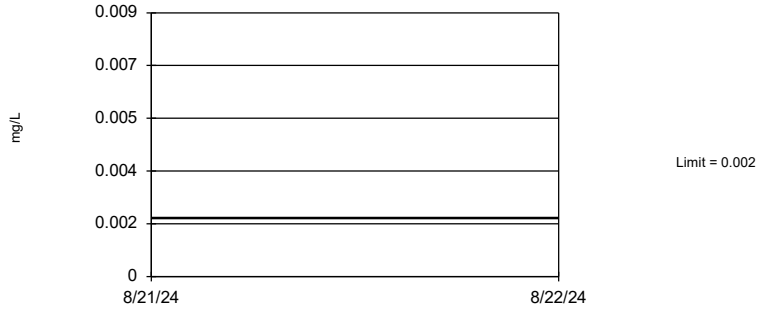
Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 114 background values. 93.86% NDs. 95.9% coverage at alpha=0.01; 97.46% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.002887.

Constituent: Thallium Analysis Run 10/3/2024 11:36 AM View: Appendix I & IV - UTLs
Plant Arkwright Client: Southern Company Data: Arkwright No 3

FIGURE H.

PLANT ARKWRIGHT AP #3 GWPS				
Constituent Name	**MCL**	**CCR-Rule Specified Level**	**Background Limit**	**GWPS**
Antimony, Total (mg/L)	0.006		0.003	0.006
Arsenic, Total (mg/L)	0.01		0.006	0.01
Barium, Total (mg/L)	2		0.24	2
Beryllium, Total (mg/L)	0.004		0.0005	0.004
Cadmium, Total (mg/L)	0.005		0.0043	0.005
Chromium, Total (mg/L)	0.1		0.014	0.1
Cobalt, Total (mg/L)	n/a	0.006	0.0058	0.006
Combined Radium, Total (pCi/L)	5		4.25	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	0.01	0.04
Mercury, Total (mg/L)	0.002		0.0002	0.002
Molybdenum, Total (mg/L)	n/a	0.1	0.004	0.1
Selenium, Total (mg/L)	0.05		0.034	0.05
Silver, Total (mg/L)	n/a		0.0051	0.0051
Thallium, Total (mg/L)	0.002		0.002	0.002

**MCL = Maximum Contaminant Level*

**GWPS = Groundwater Protection Standard*

**CCR = Coal Combustion Residuals*

FIGURE I.

Confidence Interval - Significant Results

Plant Arkwright Client: Southern Company Data: Arkwright No 3 Printed 10/3/2024, 11:52 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Cobalt (mg/L)	**ARGWC-17**	**0.03319**	**0.02124**	**0.006**	**Yes**	**22**	**0**	**sqrt(x)**	**0.01**	**Param.**
Thallium (mg/L)	**ARAMW-4**	**0.002**	**0.002**	**0.002**	**Yes**	**10**	**90**	**No**	**0.011**	**NP (NDs)**

Confidence Interval - All Results

Plant Arkwright Client: Southern Company Data: Arkwright No 3 Printed 10/3/2024, 11:52 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Lower Compl.	Sig.	N	%NDs	Transform	Alpha	Method
Antimony (mg/L)	ARGWC-10	0.003	0.00094	0.006	n/a	No	19	94.74	No	0.01	NP (NDs)
Antimony (mg/L)	ARGWC-7	0.003	0.0013	0.006	n/a	No	19	94.74	No	0.01	NP (NDs)
Antimony (mg/L)	ARGWC-9	0.003	0.00048	0.006	n/a	No	19	94.74	No	0.01	NP (NDs)
Arsenic (mg/L)	ARAMW-4	0.005	0.00035	0.01	n/a	No	10	40	No	0.011	NP (normality)
Arsenic (mg/L)	ARGWC-10	0.005	0.0019	0.01	n/a	No	23	86.96	No	0.01	NP (NDs)
Arsenic (mg/L)	ARGWC-15	0.005	0.0024	0.01	n/a	No	23	86.96	No	0.01	NP (NDs)
Arsenic (mg/L)	ARGWC-16	0.005	0.00431	0.01	n/a	No	23	78.26	No	0.01	NP (NDs)
Arsenic (mg/L)	ARGWC-17	0.005	0.0015	0.01	n/a	No	23	73.91	No	0.01	NP (NDs)
Arsenic (mg/L)	ARGWC-18	0.005	0.0016	0.01	n/a	No	23	82.61	No	0.01	NP (NDs)
Arsenic (mg/L)	ARGWC-7	0.005	0.0048	0.01	n/a	No	23	86.96	No	0.01	NP (NDs)
Arsenic (mg/L)	ARGWC-8	0.005	0.00337	0.01	n/a	No	23	78.26	No	0.01	NP (NDs)
Arsenic (mg/L)	ARGWC-9	0.005	0.00457	0.01	n/a	No	23	86.96	No	0.01	NP (NDs)
Barium (mg/L)	ARAMW-4	0.04617	0.03298	2	n/a	No	10	0	sqrt(x)	0.01	Param.
Barium (mg/L)	ARGWC-10	0.03384	0.03116	2	n/a	No	23	0	No	0.01	Param.
Barium (mg/L)	ARGWC-15	0.037	0.029	2	n/a	No	23	0	No	0.01	NP (normality)
Barium (mg/L)	ARGWC-16	0.05164	0.04344	2	n/a	No	23	0	No	0.01	Param.
Barium (mg/L)	ARGWC-17	0.0566	0.04608	2	n/a	No	23	0	x^(1/3)	0.01	Param.
Barium (mg/L)	ARGWC-18	0.04001	0.03625	2	n/a	No	23	0	No	0.01	Param.
Barium (mg/L)	ARGWC-7	0.04567	0.03786	2	n/a	No	23	0	No	0.01	Param.
Barium (mg/L)	ARGWC-8	0.05342	0.04603	2	n/a	No	23	0	No	0.01	Param.
Barium (mg/L)	ARGWC-9	0.04615	0.04128	2	n/a	No	23	0	No	0.01	Param.
Beryllium (mg/L)	ARGWC-16	0.0005	0.00027	0.004	n/a	No	21	95.24	No	0.01	NP (NDs)
Beryllium (mg/L)	ARGWC-17	0.0025	0.000344	0.004	n/a	No	21	33.33	No	0.01	NP (normality)
Beryllium (mg/L)	ARGWC-18	0.0005	0.00034	0.004	n/a	No	21	95.24	No	0.01	NP (NDs)
Beryllium (mg/L)	ARGWC-7	0.0005	0.00041	0.004	n/a	No	21	90.48	No	0.01	NP (NDs)
Beryllium (mg/L)	ARGWC-8	0.0005	0.00047	0.004	n/a	No	21	95.24	No	0.01	NP (NDs)
Beryllium (mg/L)	ARGWC-9	0.0005	0.00037	0.004	n/a	No	21	95.24	No	0.01	NP (NDs)
Cadmium (mg/L)	ARAMW-4	0.001	0.00023	0.005	n/a	No	9	77.78	No	0.002	NP (NDs)
Cadmium (mg/L)	ARGWC-16	0.001	0.0001	0.005	n/a	No	22	95.45	No	0.01	NP (NDs)
Cadmium (mg/L)	ARGWC-17	0.001	0.000445	0.005	n/a	No	22	77.27	No	0.01	NP (NDs)
Chromium (mg/L)	ARGWC-10	0.005351	0.004605	0.1	n/a	No	21	0	sqrt(x)	0.01	Param.
Chromium (mg/L)	ARGWC-15	0.01	0.0087	0.1	n/a	No	21	85.71	No	0.01	NP (NDs)
Chromium (mg/L)	ARGWC-16	0.0027	0.0017	0.1	n/a	No	21	23.81	No	0.01	NP (normality)
Chromium (mg/L)	ARGWC-17	0.01	0.0021	0.1	n/a	No	21	85.71	No	0.01	NP (NDs)
Chromium (mg/L)	ARGWC-7	0.00384	0.003185	0.1	n/a	No	21	4.762	No	0.01	Param.
Chromium (mg/L)	ARGWC-8	0.01	0.0017	0.1	n/a	No	21	90.48	No	0.01	NP (NDs)
Chromium (mg/L)	ARGWC-9	0.009422	0.007738	0.1	n/a	No	21	0	sqrt(x)	0.01	Param.
Cobalt (mg/L)	ARAMW-4	0.005185	0.00325	0.006	n/a	No	12	0	No	0.01	Param.
Cobalt (mg/L)	ARGWC-10	0.001	0.00019	0.006	n/a	No	22	81.82	No	0.01	NP (NDs)
Cobalt (mg/L)	ARGWC-15	0.001579	0.0003409	0.006	n/a	No	22	40.91	ln(x)	0.01	Param.
Cobalt (mg/L)	ARGWC-16	0.001	0.00026	0.006	n/a	No	22	86.36	No	0.01	NP (NDs)
Cobalt (mg/L)	**ARGWC-17**	**0.03319**	**0.02124**	**0.006**	**n/a**	**Yes**	**22**	**0**	**sqrt(x)**	**0.01**	**Param.**
Cobalt (mg/L)	ARGWC-18	0.001437	0.00114	0.006	n/a	No	22	0	No	0.01	Param.
Cobalt (mg/L)	ARGWC-7	0.001	0.00034	0.006	n/a	No	22	90.91	No	0.01	NP (NDs)
Cobalt (mg/L)	ARGWC-8	0.001	0.00023	0.006	n/a	No	22	63.64	No	0.01	NP (NDs)
Cobalt (mg/L)	ARGWC-9	0.001	0.00021	0.006	n/a	No	22	86.36	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	ARAMW-4	1.449	0.5007	5	n/a	No	10	10	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	ARGWC-10	0.5	0.0831	5	n/a	No	21	4.762	No	0.01	NP (normality)
Combined Radium 226 + 228 (pCi/L)	ARGWC-15	1.006	0.4323	5	n/a	No	21	4.762	ln(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	ARGWC-16	0.712	0.227	5	n/a	No	21	0	No	0.01	NP (normality)
Combined Radium 226 + 228 (pCi/L)	ARGWC-17	1.05	0.118	5	n/a	No	21	0	No	0.01	NP (normality)
Combined Radium 226 + 228 (pCi/L)	ARGWC-18	0.693	0.331	5	n/a	No	21	4.762	No	0.01	NP (normality)
Combined Radium 226 + 228 (pCi/L)	ARGWC-7	0.804	0.281	5	n/a	No	21	0	No	0.01	NP (normality)
Combined Radium 226 + 228 (pCi/L)	ARGWC-8	0.618	0.218	5	n/a	No	21	4.762	No	0.01	NP (normality)
Combined Radium 226 + 228 (pCi/L)	ARGWC-9	0.6039	0.182	5	n/a	No	21	0	No	0.01	Param.
Fluoride (mg/L)	ARAMW-4	0.09075	0.03208	4	n/a	No	11	9.091	ln(x)	0.01	Param.
Fluoride (mg/L)	ARGWC-10	0.0857	0.04878	4	n/a	No	23	39.13	x^(1/3)	0.01	Param.
Fluoride (mg/L)	ARGWC-15	0.1536	0.08698	4	n/a	No	23	17.39	No	0.01	Param.
Fluoride (mg/L)	ARGWC-16	0.1	0.038	4	n/a	No	23	52.17	No	0.01	NP (NDs)
Fluoride (mg/L)	ARGWC-17	0.1	0.055	4	n/a	No	23	60.87	No	0.01	NP (NDs)
Fluoride (mg/L)	ARGWC-18	0.1287	0.0797	4	n/a	No	22	4.545	sqrt(x)	0.01	Param.
Fluoride (mg/L)	ARGWC-7	0.1	0.062	4	n/a	No	23	65.22	No	0.01	NP (NDs)
Fluoride (mg/L)	ARGWC-8	0.1721	0.119	4	n/a	No	22	0	No	0.01	Param.
Fluoride (mg/L)	ARGWC-9	0.09774	0.04561	4	n/a	No	23	39.13	sqrt(x)	0.01	Param.
Lead (mg/L)	ARGWC-10	0.031	0.00013	0.015	n/a	No	23	91.3	No	0.01	NP (NDs)
Lead (mg/L)	ARGWC-15	0.002	0.0016	0.015	n/a	No	23	73.91	No	0.01	NP (NDs)
Lead (mg/L)	ARGWC-16	0.002	0.00021	0.015	n/a	No	23	95.65	No	0.01	NP (NDs)
Lead (mg/L)	ARGWC-17	0.002	0.00022	0.015	n/a	No	23	95.65	No	0.01	NP (NDs)

Confidence Interval - All Results

Plant Arkwright Client: Southern Company Data: Arkwright No 3 Printed 10/3/2024, 11:52 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Lower Compl.	Sig.	N	%NDs	Transform	Alpha	Method
Lead (mg/L)	ARGWC-18	0.002	0.00031	0.015	n/a	No	23	82.61	No	0.01	NP (NDs)
Lead (mg/L)	ARGWC-8	0.002	0.00024	0.015	n/a	No	23	91.3	No	0.01	NP (NDs)
Lead (mg/L)	ARGWC-9	0.002	0.00016	0.015	n/a	No	23	95.65	No	0.01	NP (NDs)
Lithium (mg/L)	ARAMW-4	0.01438	0.01218	0.04	n/a	No	11	0	No	0.01	Param.
Lithium (mg/L)	ARGWC-10	0.01	0.0055	0.04	n/a	No	22	81.82	No	0.01	NP (NDs)
Lithium (mg/L)	ARGWC-15	0.01	0.0045	0.04	n/a	No	22	72.73	No	0.01	NP (NDs)
Lithium (mg/L)	ARGWC-16	0.01	0.0076	0.04	n/a	No	22	81.82	No	0.01	NP (NDs)
Lithium (mg/L)	ARGWC-17	0.01	0.0071	0.04	n/a	No	22	81.82	No	0.01	NP (NDs)
Lithium (mg/L)	ARGWC-18	0.0048	0.0037	0.04	n/a	No	22	9.091	No	0.01	NP (normality)
Lithium (mg/L)	ARGWC-7	0.01	0.0034	0.04	n/a	No	22	54.55	No	0.01	NP (NDs)
Lithium (mg/L)	ARGWC-8	0.004068	0.003152	0.04	n/a	No	22	27.27	sqrt(x)	0.01	Param.
Lithium (mg/L)	ARGWC-9	0.01	0.0061	0.04	n/a	No	22	95.45	No	0.01	NP (NDs)
Mercury (mg/L)	ARGWC-10	0.0002	0.000077	0.002	n/a	No	18	94.44	No	0.01	NP (NDs)
Mercury (mg/L)	ARGWC-15	0.0002	0.000071	0.002	n/a	No	18	94.44	No	0.01	NP (NDs)
Mercury (mg/L)	ARGWC-16	0.0002	0.000094	0.002	n/a	No	18	66.67	No	0.01	NP (NDs)
Mercury (mg/L)	ARGWC-18	0.0002	0.000074	0.002	n/a	No	18	94.44	No	0.01	NP (NDs)
Mercury (mg/L)	ARGWC-7	0.0002	0.00007	0.002	n/a	No	18	94.44	No	0.01	NP (NDs)
Mercury (mg/L)	ARGWC-8	0.0002	0.000081	0.002	n/a	No	18	94.44	No	0.01	NP (NDs)
Molybdenum (mg/L)	ARAMW-4	0.001	0.000274	0.1	n/a	No	11	45.45	No	0.006	NP (normality)
Molybdenum (mg/L)	ARGWC-15	0.00212	0.00097	0.1	n/a	No	22	27.27	No	0.01	NP (normality)
Molybdenum (mg/L)	ARGWC-18	0.001	0.000288	0.1	n/a	No	22	95.45	No	0.01	NP (NDs)
Molybdenum (mg/L)	ARGWC-8	0.04328	0.0388	0.1	n/a	No	22	0	No	0.01	Param.
Selenium (mg/L)	ARAMW-4	0.005	0.00276	0.05	n/a	No	10	70	No	0.011	NP (NDs)
Selenium (mg/L)	ARGWC-10	0.005	0.0017	0.05	n/a	No	23	95.65	No	0.01	NP (NDs)
Selenium (mg/L)	ARGWC-15	0.005	0.0005	0.05	n/a	No	23	86.96	No	0.01	NP (NDs)
Selenium (mg/L)	ARGWC-16	0.003051	0.001596	0.05	n/a	No	23	4.348	No	0.01	Param.
Selenium (mg/L)	ARGWC-17	0.005	0.00231	0.05	n/a	No	23	91.3	No	0.01	NP (NDs)
Selenium (mg/L)	ARGWC-7	0.005	0.0028	0.05	n/a	No	23	91.3	No	0.01	NP (NDs)
Selenium (mg/L)	ARGWC-9	0.005	0.00029	0.05	n/a	No	23	91.3	No	0.01	NP (NDs)
Silver (mg/L)	ARGWC-15	0.001	0.00037	0.0051	n/a	No	18	88.89	No	0.01	NP (NDs)
Silver (mg/L)	ARGWC-16	0.001	0.00026	0.0051	n/a	No	18	94.44	No	0.01	NP (NDs)
Thallium (mg/L)	**ARAMW-4**	**0.002**	**0.002**	**0.002**	**n/a**	**Yes**	**10**	**90**	**No**	**0.011**	**NP (NDs)**
Thallium (mg/L)	ARGWC-15	0.002	0.000095	0.002	n/a	No	21	95.24	No	0.01	NP (NDs)
Thallium (mg/L)	ARGWC-16	0.002	0.00027	0.002	n/a	No	21	85.71	No	0.01	NP (NDs)
Thallium (mg/L)	ARGWC-17	0.002	0.00063	0.002	n/a	No	21	95.24	No	0.01	NP (NDs)
Thallium (mg/L)	ARGWC-18	0.002	0.00028	0.002	n/a	No	21	95.24	No	0.01	NP (NDs)

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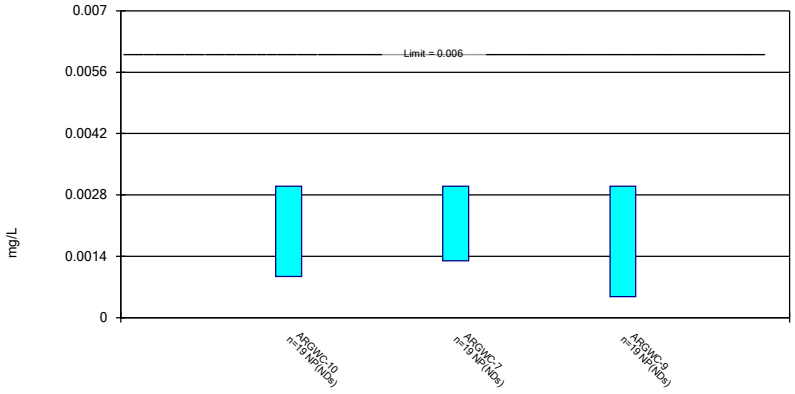
Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

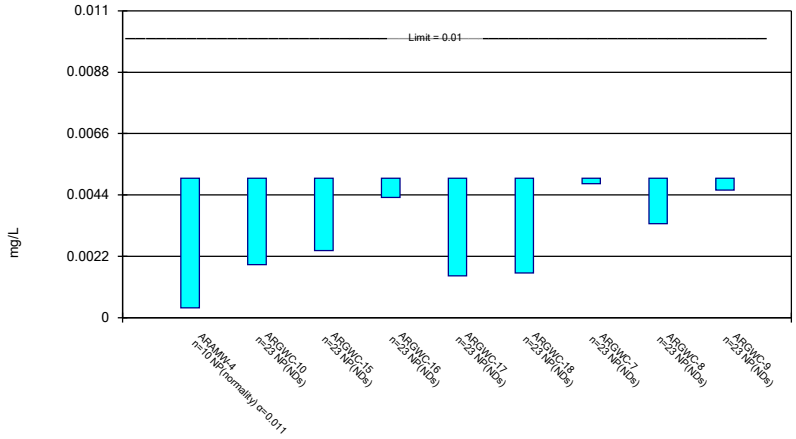


Constituent: Antimony Analysis Run 10/3/2024 11:48 AM View: Appendix I & IV
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.

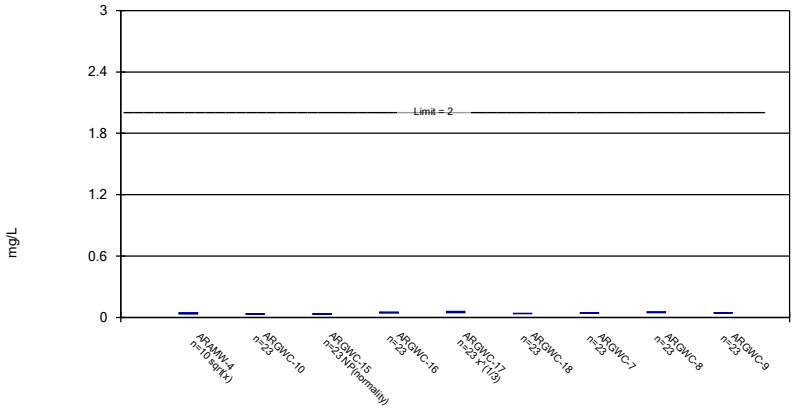


Constituent: Arsenic Analysis Run 10/3/2024 11:48 AM View: Appendix I & IV
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG

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.

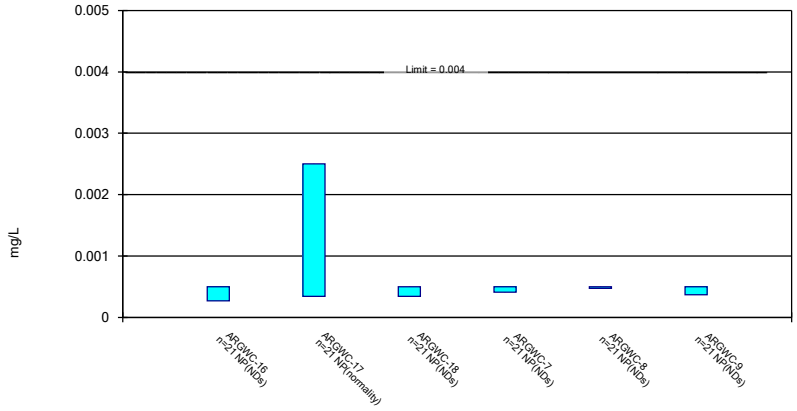


Constituent: Barium Analysis Run 10/3/2024 11:48 AM View: Appendix I & IV
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

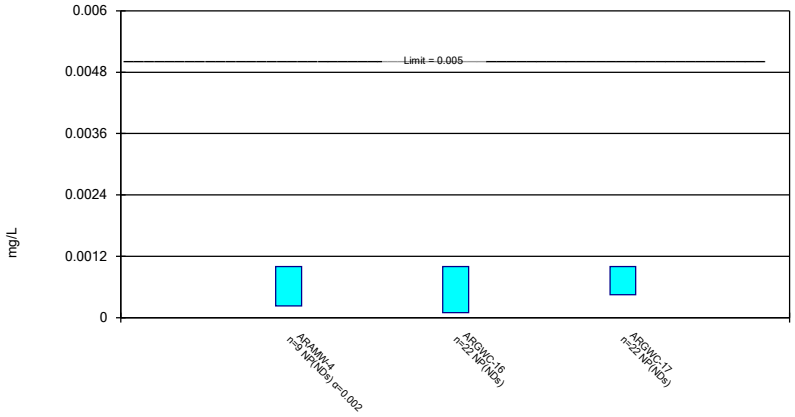


Constituent: Beryllium Analysis Run 10/3/2024 11:48 AM View: Appendix I & IV
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.

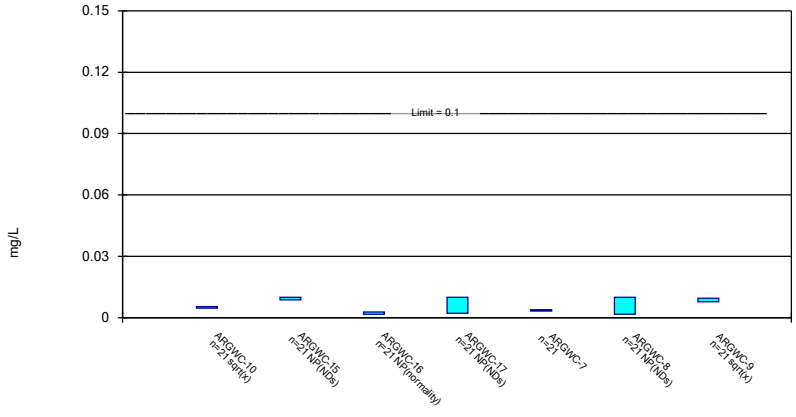


Constituent: Cadmium Analysis Run 10/3/2024 11:48 AM View: Appendix I & IV
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

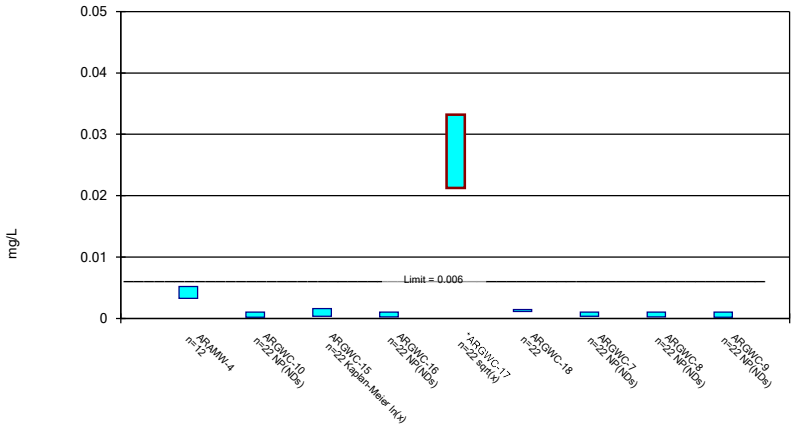


Constituent: Chromium Analysis Run 10/3/2024 11:48 AM View: Appendix I & IV
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

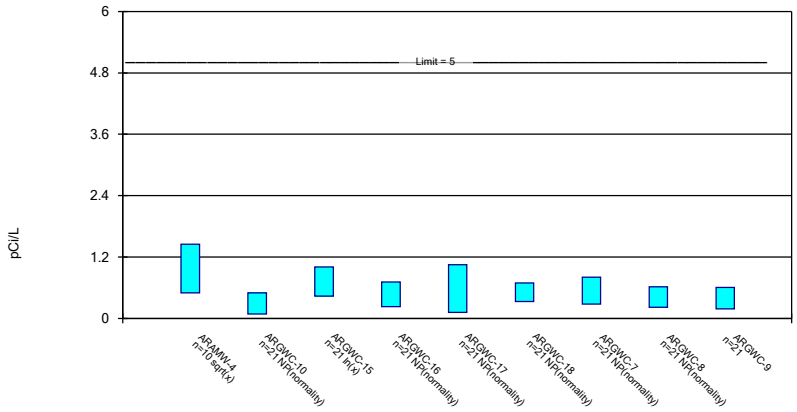


Constituent: Cobalt Analysis Run 10/3/2024 11:48 AM View: Appendix I & IV
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

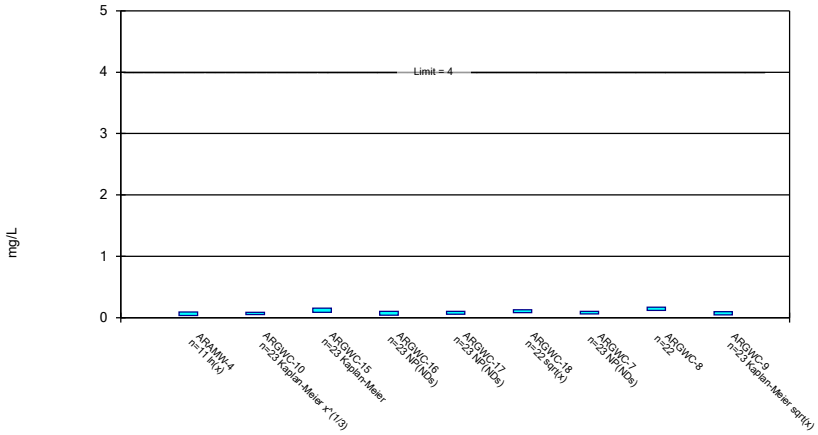


Constituent: Combined Radium 226 + 228 Analysis Run 10/3/2024 11:48 AM View: Appendix I & IV
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG

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 10/3/2024 11:48 AM View: Appendix I & IV

Plant Arkwright Client: Southern Company Data: Arkwright No 3

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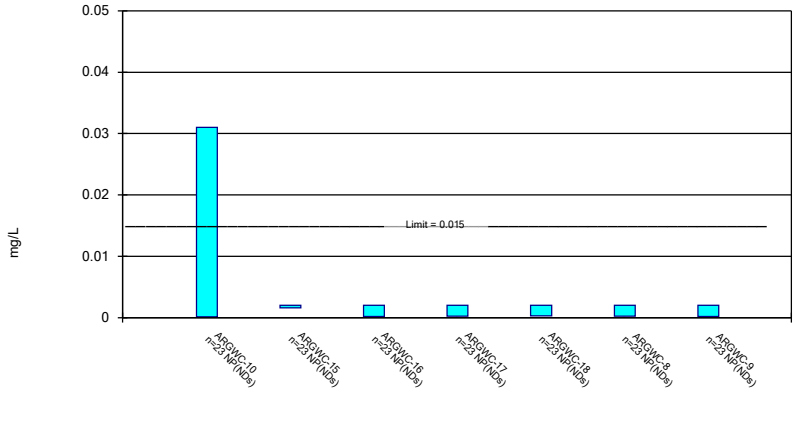
Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 10/3/2024 11:48 AM View: Appendix I & IV

Plant Arkwright Client: Southern Company Data: Arkwright No 3

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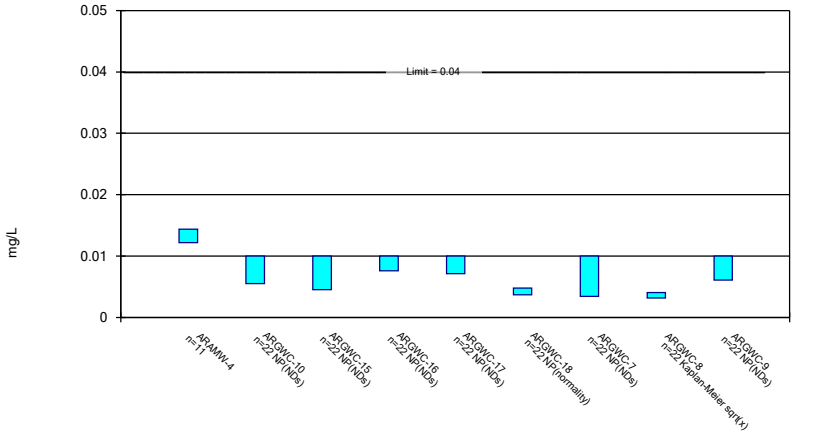
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



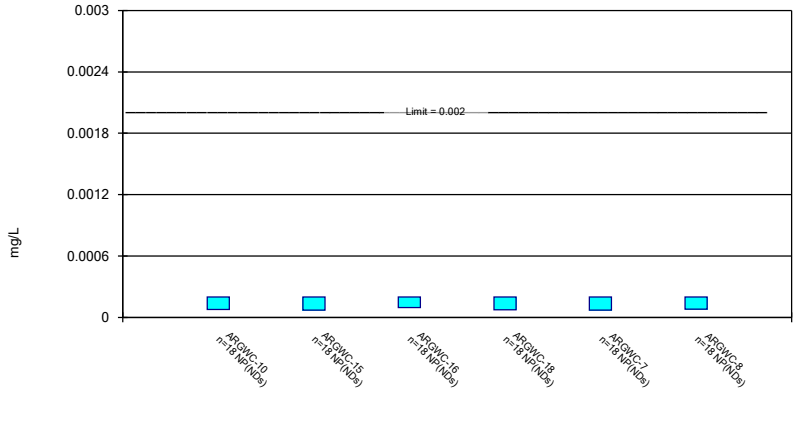
Constituent: Lithium Analysis Run 10/3/2024 11:48 AM View: Appendix I & IV

Plant Arkwright Client: Southern Company Data: Arkwright No 3

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



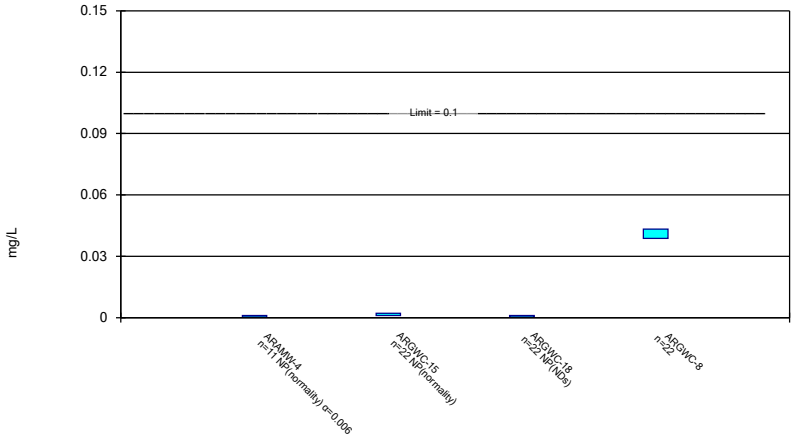
Constituent: Mercury Analysis Run 10/3/2024 11:48 AM View: Appendix I & IV

Plant Arkwright Client: Southern Company Data: Arkwright No 3

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG

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.

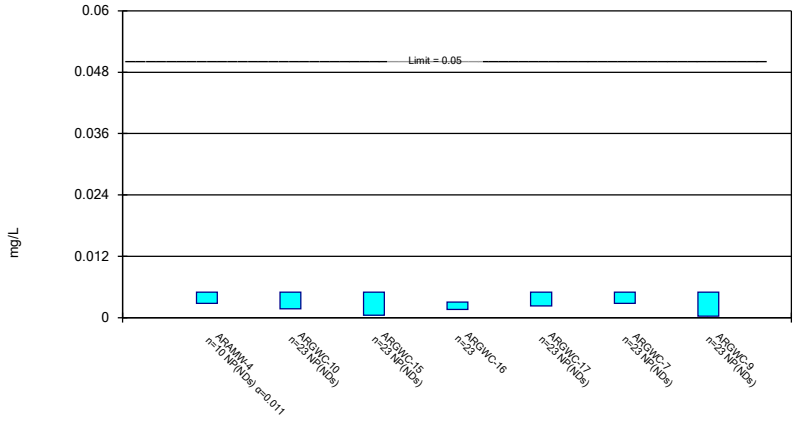


Constituent: Molybdenum Analysis Run 10/3/2024 11:48 AM View: Appendix I & IV
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG

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.

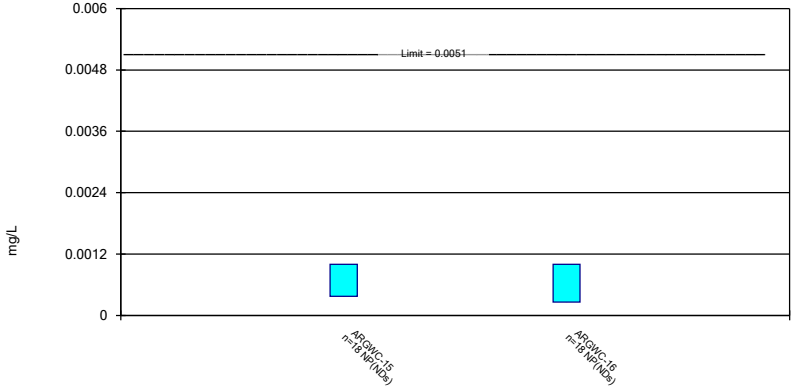


Constituent: Selenium Analysis Run 10/3/2024 11:48 AM View: Appendix I & IV
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

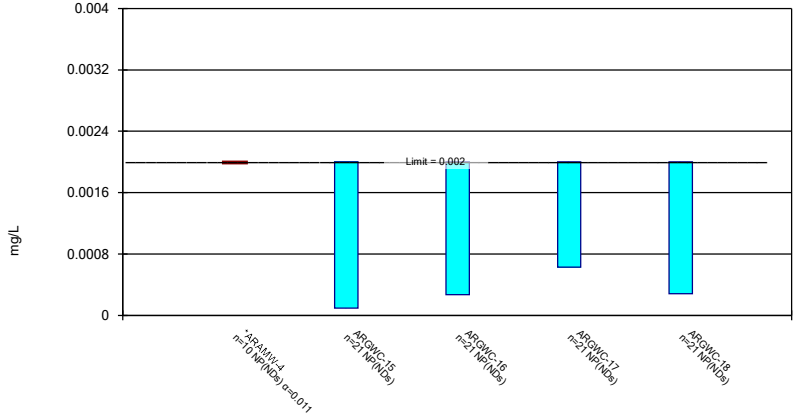


Constituent: Silver Analysis Run 10/3/2024 11:48 AM View: Appendix I & IV
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted.



Constituent: Thallium Analysis Run 10/3/2024 11:48 AM View: Appendix I & IV
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 10/3/2024 11:52 AM View: Appendix I & IV

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-10	ARGWC-7	ARGWC-9
8/31/2016		<0.003	<0.003
9/1/2016	<0.003		
10/25/2016	<0.003	0.0013 (J)	<0.003
1/26/2017		<0.003	<0.003
1/27/2017	<0.003		
4/12/2017	<0.003	<0.003	<0.003
6/22/2017	<0.003	<0.003	<0.003
10/25/2017		<0.003	<0.003
10/26/2017	<0.003		
4/10/2018		<0.003	
4/11/2018	<0.003		<0.003
10/17/2018	<0.003	<0.003	<0.003
8/21/2019	<0.003	<0.003	<0.003
10/9/2019	<0.003	<0.003	0.00048 (J)
4/8/2020	0.00094 (J)	<0.003	
4/9/2020			<0.003
8/18/2020		<0.003	
8/19/2020	<0.003		<0.003
9/9/2021			<0.003
9/10/2021	<0.003	<0.003	
2/2/2022	<0.003		<0.003
2/3/2022		<0.003	
8/31/2022	<0.003	<0.003	<0.003
2/2/2023	<0.003	<0.003	<0.003
8/9/2023	<0.003		
8/10/2023		<0.003	<0.003
1/25/2024	<0.003	<0.003	<0.003
8/21/2024	<0.003	<0.003	<0.003
Mean	0.002892	0.002911	0.002867
Std. Dev.	0.0004726	0.00039	0.0005781
Upper Lim.	0.003	0.003	0.003
Lower Lim.	0.00094	0.0013	0.00048

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 10/3/2024 11:52 AM View: Appendix I & IV

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARAMW-4	ARGWC-10	ARGWC-15	ARGWC-16	ARGWC-17	ARGWC-18	ARGWC-7	ARGWC-8	ARGWC-9
6/23/2016		<0.005	<0.005				<0.005	<0.005	<0.005
6/24/2016				<0.005	<0.005	<0.005			
8/31/2016							<0.005	<0.005	<0.005
9/1/2016		<0.005		<0.005	<0.005	<0.005			
9/2/2016			0.00062 (J)						
10/25/2016		<0.005		<0.005	<0.005		<0.005		<0.005
10/26/2016			<0.005			<0.005		<0.005	
1/26/2017			<0.005	<0.005	<0.005		<0.005	<0.005	<0.005
1/27/2017		<0.005				<0.005			
4/11/2017				0.00067 (J)	0.00084 (J)				
4/12/2017		<0.005	<0.005			<0.005	0.00078 (J)	0.00072 (J)	<0.005
6/21/2017			<0.005	<0.005	<0.005	<0.005		<0.005	
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	0.00087 (J)			<0.005	
4/10/2018			<0.005	<0.005	<0.005		<0.005		
4/11/2018		<0.005				<0.005		<0.005	<0.005
10/16/2018				<0.005					
10/17/2018		<0.005	<0.005		<0.005	0.00066 (J)	<0.005	0.00063 (J)	<0.005
3/27/2019			<0.005			<0.005			
3/28/2019		0.0011 (J)		0.00057 (J)	<0.005		<0.005	<0.005	0.00051 (J)
8/20/2019				<0.005					
8/21/2019		0.0004 (J)	0.00036 (J)		0.00044 (J)	0.00033 (J)	<0.005	0.00036 (J)	<0.005
10/8/2019			<0.005						
10/9/2019		0.0019		0.001	0.0015	0.0016	0.0015	0.0014	0.0011
4/8/2020		<0.005	<0.005	<0.005	<0.005		<0.005		
4/9/2020						<0.005		<0.005	<0.005
8/18/2020					<0.005		<0.005		
8/19/2020		<0.005	<0.005	<0.005					<0.005
8/20/2020	0.00034 (J)					<0.005		<0.005	
9/29/2020			<0.005	<0.005	<0.005		<0.005		
9/30/2020	0.00039 (J)					<0.005			
10/1/2020		<0.005						<0.005	<0.005
2/9/2021		<0.005	<0.005	<0.005	<0.005				
2/10/2021	<0.005					<0.005	<0.005	<0.005	<0.005
9/8/2021	<0.005		<0.005	0.00031 (J)	0.00039 (J)				
9/9/2021						0.0004 (J)		<0.005	<0.005
9/10/2021		<0.005					<0.005		
2/2/2022	0.00035 (J)	<0.005			0.00044 (J)			<0.005	<0.005
2/3/2022			<0.005	<0.005		<0.005	<0.005		
8/31/2022		<0.005	<0.005	<0.005			<0.005	<0.005	<0.005
9/2/2022	0.00339 (J)				<0.005	<0.005			
2/2/2023		<0.005		<0.005		<0.005	<0.005	<0.005	<0.005
2/3/2023			<0.005		<0.005				
2/7/2023	<0.005								
8/9/2023	0.00241 (J)	<0.005			<0.005				
8/10/2023			0.0024 (J)	0.00431 (J)		<0.005	0.0048 (J)	0.00337 (J)	0.00457 (J)
1/25/2024	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
8/21/2024	0.00219 (J)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Mean	0.002907	0.004496	0.004495	0.004211	0.00389	0.00426	0.004656	0.004195	0.004617
Std. Dev.	0.002054	0.001351	0.001375	0.001686	0.00192	0.001662	0.001115	0.001647	0.001209
Upper Lim.	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 10/3/2024 11:52 AM View: Appendix I & IV

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARAMW-4	ARGWC-10	ARGWC-15	ARGWC-16	ARGWC-17	ARGWC-18	ARGWC-7	ARGWC-8	ARGWC-9
Lower Lim.	0.00035	0.0019	0.0024	0.00431	0.0015	0.0016	0.0048	0.00337	0.00457

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 10/3/2024 11:52 AM View: Appendix I & IV

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARAMW-4	ARGWC-10	ARGWC-15	ARGWC-16	ARGWC-17	ARGWC-18	ARGWC-7	ARGWC-8	ARGWC-9
6/23/2016		0.028	0.028				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		0.027		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
4/8/2020		0.031	0.03	0.042	0.045		0.039		
4/9/2020						0.041		0.045	0.044
8/18/2020					0.062		0.044		
8/19/2020		0.034	0.028	0.045					0.046
8/20/2020	0.053					0.041		0.053	
9/29/2020			0.03	0.042	0.056		0.042		
9/30/2020	0.053					0.041			
10/1/2020		0.032						0.052	0.045
2/9/2021		0.031	0.029	0.044	0.051				
2/10/2021	0.042					0.038	0.041	0.049	0.038
9/8/2021	0.037		0.043	0.035	0.058				
9/9/2021						0.046		0.051	0.038
9/10/2021		0.031					0.045		
2/2/2022	0.036	0.034			0.062			0.059	0.04
2/3/2022			0.03	0.047		0.043	0.051		
8/31/2022		0.0345	0.0325	0.0383			0.0505	0.0571	0.0391
9/2/2022	0.0374				0.0727	0.0369			
2/2/2023		0.034		0.0468		0.0387	0.0518	0.0554	0.0391
2/3/2023			0.0287		0.0572				
2/7/2023	0.0364								
8/9/2023	0.0372	0.0363			0.0861				
8/10/2023			0.037	0.0381		0.0415	0.054	0.0603	0.0401
1/25/2024	0.0343	0.0373	0.0325	0.0476	0.0519	0.0404	0.0563	0.0641	0.0414
8/21/2024	0.0298	0.0328	0.039	0.0349	0.048	0.0355	0.0473	0.0585	0.0363
Mean	0.03961	0.0325	0.03407	0.04754	0.0518	0.03813	0.04177	0.04973	0.04372
Std. Dev.	0.007671	0.002563	0.009737	0.007836	0.01096	0.003595	0.007473	0.007066	0.00466
Upper Lim.	0.04617	0.03384	0.037	0.05164	0.0566	0.04001	0.04567	0.05342	0.04615

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 10/3/2024 11:52 AM View: Appendix I & IV

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARAMW-4	ARGWC-10	ARGWC-15	ARGWC-16	ARGWC-17	ARGWC-18	ARGWC-7	ARGWC-8	ARGWC-9
Lower Lim.	0.03298	0.03116	0.029	0.04344	0.04608	0.03625	0.03786	0.04603	0.04128

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 10/3/2024 11:52 AM View: Appendix I & IV

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-16	ARGWC-17	ARGWC-18	ARGWC-7	ARGWC-8	ARGWC-9
8/31/2016				<0.0005	<0.0005	<0.0005
9/1/2016	<0.0005	0.00034 (J)	<0.0005			
10/25/2016	<0.0005	0.0002 (J)		0.0001 (J)		<0.0005
10/26/2016			<0.0005		<0.0005	
1/26/2017	<0.0005	<0.0025		<0.0005	<0.0005	<0.0005
1/27/2017			<0.0005			
4/11/2017	<0.0005	<0.0025				
4/12/2017			<0.0005	<0.0005	<0.0005	<0.0005
6/21/2017	<0.0005	<0.0025	<0.0005		<0.0005	
6/22/2017				<0.0005		<0.0005
10/25/2017			<0.0005	<0.0005		<0.0005
10/26/2017	<0.0005	<0.0025			<0.0005	
4/10/2018	<0.0005	<0.0025		<0.0005		
4/11/2018			<0.0005		<0.0005	<0.0005
10/16/2018	<0.0005					
10/17/2018		<0.0025	<0.0005	<0.0005	<0.0005	<0.0005
8/20/2019	<0.0005					
8/21/2019		0.00025 (J)	<0.0005	<0.0005	<0.0005	<0.0005
10/9/2019	0.00027 (J)	0.00076 (J)	0.00034 (J)	0.00041 (J)	0.00047 (J)	0.00037 (J)
4/8/2020	<0.0005	0.00025 (J)		<0.0005		
4/9/2020			<0.0005		<0.0005	<0.0005
8/18/2020		0.00039 (J)		<0.0005		
8/19/2020	<0.0005					<0.0005
8/20/2020			<0.0005		<0.0005	
9/29/2020	<0.0005	0.0004 (J)		<0.0005		
9/30/2020			<0.0005			
10/1/2020					<0.0005	<0.0005
2/9/2021	<0.0005	<0.0025				
2/10/2021			<0.0005	<0.0005	<0.0005	<0.0005
9/8/2021	<0.0005	0.00037 (J)				
9/9/2021			<0.0005		<0.0005	<0.0005
9/10/2021				<0.0005		
2/2/2022		0.00051 (J)			<0.0005	<0.0005
2/3/2022	<0.0005		<0.0005	<0.0005		
8/31/2022	<0.0005			<0.0005	<0.0005	<0.0005
9/2/2022		0.000417 (J)	<0.0005			
2/2/2023	<0.0005		<0.0005	<0.0005	<0.0005	<0.0005
2/3/2023		0.00044 (J)				
8/9/2023		0.00049 (J)				
8/10/2023	<0.0005		<0.0005	<0.0005	<0.0005	<0.0005
1/25/2024	<0.0005	0.000379 (J)	<0.0005	<0.0005	<0.0005	<0.0005
8/21/2024	<0.0005	0.000344 (J)	<0.0005	<0.0005	<0.0005	<0.0005
Mean	0.000489	0.001097	0.0004924	0.0004767	0.0004986	0.0004938
Std. Dev.	5.019E-05	0.001022	3.491E-05	8.851E-05	6.547E-06	2.837E-05
Upper Lim.	0.0005	0.0025	0.0005	0.0005	0.0005	0.0005
Lower Lim.	0.00027	0.000344	0.00034	0.00041	0.00047	0.00037

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 10/3/2024 11:52 AM View: Appendix I & IV

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARAMW-4	ARGWC-16	ARGWC-17
6/24/2016		<0.001	<0.001
9/1/2016		<0.001	<0.001
10/25/2016		0.0001 (J)	0.0001 (J)
1/26/2017		<0.001	<0.001
4/11/2017		<0.001	<0.001
6/21/2017		<0.001	<0.001
10/26/2017		<0.001	<0.001
4/10/2018		<0.001	<0.001
10/16/2018		<0.001	
10/17/2018			<0.001
3/28/2019		<0.001	<0.001
8/20/2019		<0.001	
8/21/2019			0.00013 (J)
10/9/2019		<0.001	0.00018 (J)
4/8/2020		<0.001	<0.001
8/18/2020			<0.001
8/19/2020		<0.001	
8/20/2020	<0.001		
2/9/2021		<0.001	<0.001
2/10/2021	<0.001		
9/8/2021	<0.001	<0.001	<0.001
2/2/2022	0.00023 (J)		0.0003 (J)
2/3/2022		<0.001	
8/31/2022		<0.001	
9/2/2022	<0.001		<0.001
2/2/2023		<0.001	
2/3/2023			<0.001
2/7/2023	<0.001		
8/9/2023	<0.001		0.000445 (J)
8/10/2023		<0.001	
1/25/2024	<0.001	<0.001	<0.001
8/21/2024	0.000451 (J)	<0.001	<0.001
Mean	0.0008534	0.0009591	0.0008252
Std. Dev.	0.000296	0.0001919	0.0003356
Upper Lim.	0.001	0.001	0.001
Lower Lim.	0.00023	0.0001	0.000445

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 10/3/2024 11:52 AM View: Appendix I & IV

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-10	ARGWC-15	ARGWC-16	ARGWC-17	ARGWC-7	ARGWC-8	ARGWC-9
8/31/2016					0.0033	<0.01	0.011
9/1/2016	0.0038		0.0017 (J)	<0.01			
9/2/2016		0.0087					
10/25/2016	0.0042 (J)		0.0023 (J)	<0.01	0.0029 (J)		0.0109
10/26/2016		<0.01				<0.01	
1/26/2017		<0.01	0.0017 (J)	0.0016 (J)	0.0033	<0.01	0.011
1/27/2017	0.005						
4/11/2017			0.0019 (J)	0.0013 (J)			
4/12/2017	0.0048	<0.01			0.0036	<0.01	0.0096
6/21/2017		<0.01	0.0017 (J)	<0.01		<0.01	
6/22/2017	0.0047				0.0036		0.011
10/25/2017					0.0028		0.0094
10/26/2017	0.0043	<0.01	0.0013 (J)	<0.01		<0.01	
4/10/2018		<0.01	0.0019 (J)	<0.01	0.0038		
4/11/2018	0.0051					<0.01	0.01
10/16/2018			0.0013 (J)				
10/17/2018	0.0051	<0.01		<0.01	0.0036	<0.01	0.0096
8/20/2019			0.0025				
8/21/2019	0.0073	0.0017 (J)		<0.01	0.0046	0.0015 (J)	0.0097
10/8/2019		<0.01					
10/9/2019	0.006		0.0027	0.0021	0.0042	0.0017 (J)	0.0084
4/8/2020	0.0046	<0.01	0.0021	<0.01	0.0027		
4/9/2020						<0.01	0.0069
8/18/2020				<0.01	0.0031		
8/19/2020	0.0049	<0.01	0.0021				0.008
8/20/2020						<0.01	
9/29/2020		<0.01	0.002	<0.01	0.0031		
10/1/2020	0.0047					<0.01	0.0075
2/9/2021	0.0046	<0.01	0.0018 (J)	<0.01			
2/10/2021					0.003	<0.01	0.007
9/8/2021		0.0027	0.0016 (J)	<0.01			
9/9/2021						<0.01	0.0071
9/10/2021	0.0049				0.0032		
2/2/2022	0.005			<0.01		<0.01	0.0068
2/3/2022		<0.01	0.0018 (J)		0.0043		
8/31/2022	0.0055 (J)	<0.01	<0.01		0.00344 (J)	<0.01	0.00766 (J)
9/2/2022				<0.01			
2/2/2023	0.00534 (J)		<0.01		0.00353 (J)	<0.01	0.00753 (J)
2/3/2023		<0.01		<0.01			
8/9/2023	0.00473 (J)			<0.01			
8/10/2023		<0.01	<0.01		0.00353 (J)	<0.01	0.00775 (J)
1/25/2024	0.00527 (J)	<0.01	<0.01	<0.01	0.00317 (J)	<0.01	0.007 (J)
8/21/2024	0.00501 (J)	<0.01	<0.01	<0.01	<0.01	<0.01	0.00727 (J)
Mean	0.004993	0.009195	0.003829	0.00881	0.003513	0.0092	0.008624
Std. Dev.	0.0007054	0.002348	0.003551	0.002991	0.0005938	0.002527	0.001549
Upper Lim.	0.005351	0.01	0.0027	0.01	0.00384	0.01	0.009422
Lower Lim.	0.004605	0.0087	0.0017	0.0021	0.003185	0.0017	0.007738

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 10/3/2024 11:52 AM View: Appendix I & IV

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARAMW-4	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	0.037	0.0014 (J)			
9/2/2016			0.03						
10/25/2016		<0.001		<0.001	0.0144		<0.001		<0.001
10/26/2016			0.0036 (J)			0.0013 (J)		<0.001	
1/26/2017			0.011	<0.001	0.022		<0.001	<0.001	<0.001
1/27/2017		<0.001				0.0021 (J)			
4/11/2017				<0.001	0.026				
4/12/2017		<0.001	<0.001			0.0015 (J)	<0.001	<0.001	<0.001
6/21/2017			<0.001	<0.001	0.027	0.0018 (J)		<0.001	
6/22/2017		<0.001					<0.001		<0.001
10/25/2017						0.0013 (J)	<0.001		<0.001
10/26/2017		<0.001	<0.001	<0.001	0.021			<0.001	
4/10/2018			0.00045 (J)	<0.001	0.021		<0.001		
4/11/2018		<0.001				0.0014 (J)		<0.001	<0.001
10/16/2018				<0.001					
10/17/2018		<0.001	<0.001		0.014	0.0012 (J)	<0.001	<0.001	<0.001
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)	<0.001
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)
1/15/2020	0.0064								
4/8/2020		<0.001	0.00026 (J)	<0.001	0.016		<0.001		
4/9/2020						0.00091 (J)		0.00013 (J)	0.00015 (J)
6/23/2020		0.00013 (J)						0.00017 (J)	
6/24/2020	0.0049			0.00013 (J)	0.024	0.00115 (JD)			
6/25/2020			0.00022 (J)				<0.001		
6/26/2020									<0.001
8/18/2020					0.03		<0.001		
8/19/2020		0.00015 (J)	0.0004 (J)	<0.001					0.00013 (J)
8/20/2020	0.005					0.0014 (JD)		0.00023 (J)	
9/29/2020			0.0003 (J)	<0.001	0.027		<0.001		
9/30/2020	0.0046					0.00125 (JD)			
10/1/2020		<0.001						0.00021 (J)	<0.001
2/9/2021		<0.001	<0.001	<0.001	0.025				
2/10/2021	0.0053					0.0011 (J)	<0.001	0.00015 (J)	<0.001
9/8/2021	0.0048		0.004	<0.001	0.032				
9/9/2021						0.0016 (J)		<0.001	<0.001
9/10/2021		<0.001					<0.001		
2/2/2022	0.0042	<0.001			0.033			0.00032 (J)	<0.001
2/3/2022			<0.001	<0.001		0.0013 (J)	<0.001		
8/31/2022		<0.001	<0.001	<0.001			<0.001	<0.001	<0.001
9/2/2022	0.00411				0.0516	0.00111			
2/2/2023		<0.001		<0.001		0.00109	<0.001	<0.001	<0.001
2/3/2023			<0.001		0.0332				
2/7/2023	0.00343								
8/9/2023	0.00337	<0.001			0.0689				
8/10/2023			0.00439	<0.001		0.0011	<0.001	<0.001	<0.001
1/25/2024	0.00251	<0.001	<0.001	<0.001	0.0319	0.00106	<0.001	<0.001	<0.001
8/21/2024	0.00199	<0.001	0.0023	<0.001	0.0256	0.00108	<0.001	<0.001	<0.001
Mean	0.004218	0.0008473	0.003027	0.0008886	0.02798	0.001288	0.0009285	0.0007195	0.0008859
Std. Dev.	0.001233	0.0003318	0.006484	0.0002876	0.01256	0.0002766	0.0002349	0.0003836	0.0002942

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 10/3/2024 11:52 AM View: Appendix I & IV

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARAMW-4	ARGWC-10	ARGWC-15	ARGWC-16	ARGWC-17	ARGWC-18	ARGWC-7	ARGWC-8	ARGWC-9
Upper Lim.	0.005185	0.001	0.001579	0.001	0.03319	0.001437	0.001	0.001	0.001
Lower Lim.	0.00325	0.00019	0.0003409	0.00026	0.02124	0.00114	0.00034	0.00023	0.00021

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/3/2024 11:52 AM View: Appendix I & IV

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARAMW-4	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)
4/8/2020		-0.0401 (U)	0.309 (U)	0.28 (U)	0.402 (U)		0.366 (U)		
4/9/2020						0.419 (U)		0.255 (U)	0.334 (U)
8/18/2020					0.423		0.376 (U)		
8/19/2020		-0.0271 (U)	0.538	0.306 (U)					0.124 (U)
8/20/2020	0.624 (U)					0.191 (U)		0.14 (U)	
9/29/2020			0.394 (U)	-0.0246 (U)	0.175 (U)		0.334 (U)		
9/30/2020	0.532					0.0811 (U)			
10/1/2020		0.172 (U)						0.512 (U)	0.501
2/9/2021		0.163 (U)	0.669	0.46	0.332 (U)				
2/10/2021	0.932					0.568	0.412	0.384	0.515
9/8/2021	0.528		1.62	-0.108 (U)	-0.015 (U)				
9/9/2021						0.669		0.616	0.57
9/10/2021		0.0831 (U)					0.861		
2/2/2022	0.369 (U)	0.338 (U)			0.107 (U)			0.271 (U)	0.73 (U)
2/3/2022			0.609	0.712		0.503	0.12 (U)		
8/31/2022		0.5	0.51	0.493			0.804	0.618	0.0403
9/2/2022	0.947				1.75	2.67			
2/2/2023		2.32 (U)		1.31 (U)		2.04	1.76 (U)	0.844 (U)	0.0399 (U)
2/3/2023			0.376 (U)		0.751 (U)				
2/7/2023	1.16 (U)								
8/9/2023	2.55	2.22			1.05 (U)				
8/10/2023			2.75	0.34 (U)		1.65 (U)	1.27 (U)	0.68 (U)	0.492 (U)
1/25/2024	1.05 (U)	0.699 (U)	2.03	0.505 (U)	1.2 (U)	0.334 (U)	0.388 (U)	1.96	0.921 (U)
8/21/2024	<2.27	<1.96	<2.17	1.55 (D)	2.51	<2.2	2.53	<1.73	1.6 (D)
Mean	0.9827	0.4378	0.8953	0.5007	0.6247	0.6872	0.5928	0.4655	0.393
Std. Dev.	0.6178	0.6722	0.7872	0.4711	0.6585	0.6723	0.6036	0.422	0.3824
Upper Lim.	1.449	0.5	1.006	0.712	1.05	0.693	0.804	0.618	0.6039
Lower Lim.	0.5007	0.0831	0.4323	0.227	0.118	0.331	0.281	0.218	0.182

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 10/3/2024 11:52 AM View: Appendix I & IV

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARAMW-4	ARGWC-10	ARGWC-15	ARGWC-16	ARGWC-17	ARGWC-18	ARGWC-7	ARGWC-8	ARGWC-9
8/31/2016							<0.1	0.11 (J)	<0.1
9/1/2016		<0.1		<0.1	<0.1	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)			0.32 (o)		0.43 (o)	
1/26/2017			0.097 (J)	<0.1	<0.1		<0.1	0.13 (J)	<0.1
1/27/2017		<0.1				0.097 (J)			
4/11/2017				<0.1	<0.1				
4/12/2017		<0.1	<0.2			0.088 (J)	<0.1	0.13 (J)	<0.1
6/21/2017			<0.2	<0.1	<0.1	0.096 (J)		0.14 (J)	
6/22/2017		<0.1					<0.1		<0.1
10/25/2017						0.092 (J)	<0.1		<0.1
10/26/2017		<0.1	<0.2	<0.1	<0.1			0.13 (J)	
4/10/2018			<0.2	<0.1	<0.1		<0.1		
4/11/2018		<0.1				0.09 (J)		0.13 (J)	<0.1
10/16/2018				<0.1					
10/17/2018		<0.1	0.1 (J)		<0.1	0.11 (J)	<0.1	0.16 (J)	<0.1
3/27/2019			0.05 (J)			0.05 (J)			
3/28/2019		0.03 (J)		<0.1	<0.1		<0.1	0.089 (J)	<0.1
8/20/2019				0.033 (J)					
8/21/2019		0.047 (J)	0.1 (J)		0.031 (J)	0.079 (J)	<0.1	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)
4/8/2020		0.071 (J)	0.12	0.051 (J)	0.053 (J)		0.062 (J)		
4/9/2020						0.11		0.16	0.066 (J)
6/23/2020		0.04 (J)						0.12	
6/24/2020	0.041 (J)			0.038 (J)	<0.1	0.094 (J)			
6/25/2020			0.067 (J)				<0.1		
6/26/2020									0.027 (J)
8/18/2020					<0.1		<0.1		
8/19/2020		<0.1	0.081 (J)	<0.1					<0.1
8/20/2020	<0.1					<0.1		0.054 (J)	
9/29/2020			0.089 (J)	0.026 (J)	0.029 (J)		0.027 (J)		
9/30/2020	0.028 (J)					0.082 (J)			
10/1/2020		0.048 (J)						0.14	0.041 (J)
2/9/2021		0.051 (J)	0.094 (J)	0.056 (J)	<0.1				
2/10/2021	0.028 (J)					0.12	0.033 (J)	0.17	0.051 (J)
9/8/2021	0.034 (J)		0.15	0.044 (J)	0.055 (J)				
9/9/2021						0.17		0.18	0.06 (J)
9/10/2021		0.067 (J)					0.032 (J)		
2/2/2022	0.055 (J)	0.063 (J)			0.028 (J)			0.19	0.043 (J)
2/3/2022			0.068 (J)	0.027 (J)		0.078 (J)	0.074 (J)		
8/31/2022		<0.1	0.169	<0.1			<0.1	0.172	0.147
9/2/2022	0.059 (J)				0.082 (J)	0.141			
2/2/2023		0.134		<0.1		0.176	<0.1	0.217	0.182
2/3/2023			0.136 (J)		<0.1				
2/7/2023	0.038 (J)								
8/9/2023	0.23	0.111			0.137				
8/10/2023			0.131	0.0335 (J)		0.129	<0.1	0.141	0.079 (J)
1/25/2024	0.105	0.252	0.225	0.153	<0.1	0.296	0.193	0.295	0.222
8/21/2024	0.0693 (J)	0.063 (J)	0.0719 (J)	<0.1	<0.1	0.0683 (J)	<0.1	0.139	0.0405 (J)
Mean	0.06703	0.08826	0.1434	0.07707	0.0837	0.1076	0.08578	0.1455	0.09246

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 10/3/2024 11:52 AM View: Appendix I & IV

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARAMW-4	ARGWC-10	ARGWC-15	ARGWC-16	ARGWC-17	ARGWC-18	ARGWC-7	ARGWC-8	ARGWC-9
Std. Dev.	0.05845	0.04498	0.06915	0.03497	0.03023	0.0534	0.03789	0.04939	0.05328
Upper Lim.	0.09075	0.0857	0.1536	0.1	0.1	0.1287	0.1	0.1721	0.09774
Lower Lim.	0.03208	0.04878	0.08698	0.038	0.055	0.0797	0.062	0.119	0.04561

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 10/3/2024 11:52 AM View: Appendix I & IV

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-10	ARGWC-15	ARGWC-16	ARGWC-17	ARGWC-18	ARGWC-8	ARGWC-9
6/23/2016	<0.002	<0.002				<0.002	<0.002
6/24/2016			<0.002	<0.002	<0.002		
8/31/2016						<0.002	<0.002
9/1/2016	<0.002		<0.002	<0.002	<0.002		
9/2/2016		0.0056					
10/25/2016	<0.002		<0.002	<0.002			<0.002
10/26/2016		0.0003 (J)			0.0002 (J)	<0.002	
1/26/2017		<0.002	<0.002	<0.002		<0.002	<0.002
1/27/2017	<0.002				<0.002		
4/11/2017			<0.002	<0.002			
4/12/2017	<0.002	<0.002			<0.002	<0.002	<0.002
6/21/2017		<0.002	<0.002	<0.002	<0.002	<0.002	
6/22/2017	<0.002						<0.002
10/25/2017					<0.002		<0.002
10/26/2017	<0.002	<0.002	<0.002	<0.002		<0.002	
4/10/2018		<0.002	<0.002	<0.002			
4/11/2018	<0.002				<0.002	<0.002	<0.002
10/16/2018			<0.002				
10/17/2018	<0.002	0.0016		<0.002	<0.002	<0.002	<0.002
3/27/2019		<0.002			<0.002		
3/28/2019	<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	<0.002
10/8/2019		<0.002					
10/9/2019	<0.002		<0.002	<0.002	<0.002	0.00019 (J)	0.00016 (J)
4/8/2020	0.031	<0.002	<0.002	<0.002			
4/9/2020					<0.002	<0.002	<0.002
8/18/2020				<0.002			
8/19/2020	0.00013 (J)	<0.002	<0.002				<0.002
8/20/2020					0.00028 (J)	<0.002	
9/29/2020		<0.002	<0.002	<0.002			
9/30/2020					0.0002 (J)		
10/1/2020	<0.002					<0.002	<0.002
2/9/2021	<0.002	<0.002	<0.002	<0.002			
2/10/2021					<0.002	<0.002	<0.002
9/8/2021		0.0016	<0.002	0.00022 (J)			
9/9/2021					0.00031 (J)	<0.002	<0.002
9/10/2021	<0.002						
2/2/2022	<0.002			<0.002		0.00024 (J)	<0.002
2/3/2022		<0.002	0.00021 (J)		<0.002		
8/31/2022	<0.002	<0.002	<0.002			<0.002	<0.002
9/2/2022				<0.002	<0.002		
2/2/2023	<0.002		<0.002		<0.002	<0.002	<0.002
2/3/2023		<0.002		<0.002			
8/9/2023	<0.002			<0.002			
8/10/2023		0.000841 (J)	<0.002		<0.002	<0.002	<0.002
1/25/2024	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
8/21/2024	<0.002	0.000948 (J)	<0.002	<0.002	<0.002	<0.002	<0.002
Mean	0.00318	0.001952	0.001922	0.001923	0.001695	0.001845	0.00192
Std. Dev.	0.006077	0.0009187	0.0003732	0.0003712	0.0006795	0.0005143	0.0003837
Upper Lim.	0.031	0.002	0.002	0.002	0.002	0.002	0.002
Lower Lim.	0.00013	0.0016	0.00021	0.00022	0.00031	0.00024	0.00016

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 10/3/2024 11:52 AM View: Appendix I & IV

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARAMW-4	ARGWC-10	ARGWC-15	ARGWC-16	ARGWC-17	ARGWC-18	ARGWC-7	ARGWC-8	ARGWC-9
8/31/2016							<0.01	0.0039 (J)	<0.01
9/1/2016		<0.01		<0.01	<0.01	0.0033 (J)			
9/2/2016			0.0045 (J)						
10/25/2016		<0.01		<0.01	<0.01		0.0024 (J)		<0.01
10/26/2016			0.0025 (J)			0.0037 (J)		0.0025 (J)	
1/26/2017			<0.01	<0.01	<0.01		0.0033 (J)	0.0035 (J)	<0.01
1/27/2017		<0.01				0.0048 (J)			
4/11/2017				<0.01	<0.01				
4/12/2017		<0.01	<0.01			0.0039 (J)	<0.01	<0.005	<0.01
6/21/2017			<0.01	<0.01	<0.01	0.0037 (J)		<0.005	
6/22/2017		<0.01					<0.01		<0.01
10/25/2017						0.0047 (J)	0.005		<0.01
10/26/2017		<0.01	<0.01	<0.01	<0.01			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)	<0.01
10/16/2018				0.0016 (J)					
10/17/2018		0.0011 (J)	<0.01		0.0014 (J)	0.0049 (J)	0.0025 (J)	0.0037 (J)	<0.01
8/20/2019				<0.01					
8/21/2019		<0.01	<0.01		<0.01	0.0036 (J)	0.0034 (J)	<0.005	<0.01
10/8/2019			0.004 (J)						
10/9/2019		0.0055		0.0076	0.0071	0.013	0.0083	0.0077	0.0061
4/8/2020		<0.01	<0.01	<0.01	<0.01		<0.01		
4/9/2020						<0.005		<0.005	<0.01
6/23/2020		<0.01						0.0042 (J)	
6/24/2020	0.013			<0.01	<0.01	0.0047 (J)			
6/25/2020			0.004 (J)				0.0046 (J)		
6/26/2020									<0.01
8/18/2020					<0.01		<0.01		
8/19/2020		<0.01	<0.01	<0.01					<0.01
8/20/2020	0.012					<0.005		<0.005	
9/29/2020			<0.01	<0.01	<0.01		<0.01		
9/30/2020	0.012					0.0048 (J)			
10/1/2020		<0.01						0.0035 (J)	<0.01
2/9/2021		<0.01	<0.01	<0.01	<0.01				
2/10/2021	0.014					0.0041 (J)	<0.01	<0.005	<0.01
9/8/2021	0.013		<0.01	<0.01	<0.01				
9/9/2021						0.0047 (J)		0.0037 (J)	<0.01
9/10/2021		<0.01					<0.01		
2/2/2022	0.014	0.0012 (J)			0.0014 (J)			0.0039 (J)	<0.01
2/3/2022			0.002 (J)	0.002 (J)		0.0046 (J)	0.0031 (J)		
8/31/2022		<0.01	<0.01	<0.01			0.00308 (J)	0.00345 (J)	<0.01
9/2/2022	0.0117				<0.01	0.0038 (J)			
2/2/2023		<0.01		<0.01		0.00391 (J)	<0.01	0.00337 (J)	<0.01
2/3/2023			<0.01		<0.01				
2/7/2023	0.0133								
8/9/2023	0.013	<0.01			<0.01				
8/10/2023			<0.01	<0.01		0.0043 (J)	<0.01	0.00333 (J)	<0.01
1/25/2024	0.0136	<0.01	<0.01	<0.01	<0.01	0.00385 (J)	<0.01	0.00315 (J)	<0.01
8/21/2024	0.0165	<0.01	<0.01	<0.01	<0.01	0.00449 (J)	<0.01	0.00349 (J)	<0.01
Mean	0.01328	0.008605	0.008177	0.008832	0.008736	0.004548	0.007304	0.004163	0.009823
Std. Dev.	0.001323	0.003134	0.003085	0.002742	0.002932	0.002058	0.003237	0.001074	0.0008315
Upper Lim.	0.01438	0.01	0.01	0.01	0.01	0.0048	0.01	0.004068	0.01

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 10/3/2024 11:52 AM View: Appendix I & IV

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARAMW-4	ARGWC-10	ARGWC-15	ARGWC-16	ARGWC-17	ARGWC-18	ARGWC-7	ARGWC-8	ARGWC-9
Lower Lim.	0.01218	0.0055	0.0045	0.0076	0.0071	0.0037	0.0034	0.003152	0.0061

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 10/3/2024 11:52 AM View: Appendix I & IV

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-10	ARGWC-15	ARGWC-16	ARGWC-18	ARGWC-7	ARGWC-8
8/31/2016					<0.0002	<0.0002
9/1/2016	<0.0002		8.8E-05 (J)	<0.0002		
9/2/2016		<0.0002				
10/25/2016	<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	8.1E-05 (J)
1/27/2017	7.7E-05 (J)			7.4E-05 (J)		
4/11/2017			<0.0002			
4/12/2017	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002
6/21/2017		<0.0002	0.00011 (J)	<0.0002		<0.0002
6/22/2017	<0.0002				<0.0002	
10/25/2017				<0.0002	<0.0002	
10/26/2017	<0.0002	<0.0002	9.4E-05 (J)			<0.0002
4/10/2018		7.1E-05 (J)	9.9E-05 (J)		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		<0.0002	
4/9/2020				<0.0002		<0.0002
8/18/2020					<0.0002	
8/19/2020	<0.0002	<0.0002	<0.0002			
8/20/2020				<0.0002		<0.0002
9/8/2021		<0.0002	<0.0002			
9/9/2021				<0.0002		<0.0002
9/10/2021	<0.0002				<0.0002	
2/2/2022	<0.0002					<0.0002
2/3/2022		<0.0002	<0.0002	<0.0002	<0.0002	
8/31/2022	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002
9/2/2022				<0.0002		
2/2/2023	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002
2/3/2023		<0.0002				
8/9/2023	<0.0002					
8/10/2023		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
1/25/2024	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
8/21/2024	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Mean	0.0001932	0.0001928	0.0001633	0.000193	0.0001928	0.0001934
Std. Dev.	2.899E-05	3.041E-05	5.392E-05	2.97E-05	3.064E-05	2.805E-05
Upper Lim.	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
Lower Lim.	7.7E-05	7.1E-05	9.4E-05	7.4E-05	7E-05	8.1E-05

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 10/3/2024 11:52 AM View: Appendix I & IV

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARAMW-4	ARGWC-15	ARGWC-18	ARGWC-8
8/31/2016				0.034
9/1/2016			<0.001	
9/2/2016		0.0015 (J)		
10/26/2016		<0.015	<0.001	0.0377
1/26/2017		<0.015		0.04
1/27/2017			<0.001	
4/12/2017		<0.015	<0.001	0.035
6/21/2017		<0.015	<0.001	0.038
10/25/2017			<0.001	
10/26/2017		<0.015		0.041
4/10/2018		0.00097 (J)		
4/11/2018			<0.001	0.037
10/17/2018		<0.015	<0.001	0.036
8/21/2019		0.0017 (J)	<0.001	0.051
10/8/2019		0.0011 (J)		
10/9/2019			<0.001	0.049
4/8/2020		0.00075 (J)		
4/9/2020			<0.001	0.039
6/23/2020				0.043
6/24/2020	0.00079 (J)		<0.001	
6/25/2020		0.00086 (J)		
8/19/2020		0.0016 (J)		
8/20/2020	<0.001		<0.001	0.042
9/29/2020		0.0019 (J)		
9/30/2020	0.00073 (J)		<0.001	
10/1/2020				0.043
2/9/2021		0.0012 (J)		
2/10/2021	<0.001		<0.001	0.041
9/8/2021	<0.001	0.0017 (J)		
9/9/2021			<0.001	0.043
2/2/2022	<0.001			0.042
2/3/2022		0.0011 (J)	<0.001	
8/31/2022		0.00179		0.0437
9/2/2022	0.000288		<0.001	
2/2/2023			0.000288 (J)	0.0428
2/3/2023		0.000959 (J)		
2/7/2023	0.000328 (J)			
8/9/2023	<0.001			
8/10/2023		0.00212	<0.001	0.0424
1/25/2024	0.000274 (J)	0.000948 (J)	<0.001	0.0446
8/21/2024	0.000218 (J)	0.00192	<0.001	0.0377
Mean	0.0006935	0.005096	0.0009676	0.04104
Std. Dev.	0.0003436	0.006219	0.0001518	0.00417
Upper Lim.	0.001	0.00212	0.001	0.04328
Lower Lim.	0.000274	0.00097	0.000288	0.0388

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 10/3/2024 11:52 AM View: Appendix I & IV

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARAMW-4	ARGWC-10	ARGWC-15	ARGWC-16	ARGWC-17	ARGWC-7	ARGWC-9
6/23/2016		<0.005	<0.005			0.00029 (J)	<0.005
6/24/2016				0.0014	<0.005		
8/31/2016						<0.005	0.00024 (J)
9/1/2016		<0.005		0.0014	<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				
1/26/2017			<0.005	0.00071 (J)	<0.005	<0.005	<0.005
1/27/2017		<0.005					
4/11/2017				0.0011 (J)	<0.005		
4/12/2017		<0.005	<0.005			<0.005	<0.005
6/21/2017			<0.005	0.00075 (J)	<0.005		
6/22/2017		<0.005				<0.005	<0.005
10/25/2017						<0.005	0.00029 (J)
10/26/2017		<0.005	0.0004 (J)	0.0012 (J)	<0.005		
4/10/2018			0.00044 (J)	0.0013	<0.005	<0.005	
4/11/2018		<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		<0.005		0.0017	<0.005	<0.005	<0.005
8/20/2019				<0.005			
8/21/2019		<0.005	<0.005		<0.005	<0.005	<0.005
10/8/2019			<0.005				
10/9/2019		<0.005		0.0018 (J)	<0.005	<0.005	<0.005
4/8/2020		<0.005	<0.005	0.0022 (J)	<0.005	<0.005	
4/9/2020							<0.005
8/18/2020					<0.005	<0.005	
8/19/2020		<0.005	<0.005	0.0029 (J)			<0.005
8/20/2020	<0.005						
9/29/2020			<0.005	0.0025 (J)	<0.005	<0.005	
9/30/2020	<0.005						
10/1/2020		<0.005					<0.005
2/9/2021		<0.005	<0.005	0.0019 (J)	<0.005		
2/10/2021	<0.005					<0.005	<0.005
9/8/2021	<0.005		<0.005	0.0024 (J)	<0.005		
9/9/2021							<0.005
9/10/2021		0.0017 (J)				0.0028 (J)	
2/2/2022	0.0011 (J)	<0.005			0.00076 (J)		<0.005
2/3/2022			<0.005	0.0032 (J)		<0.005	
8/31/2022		<0.005	<0.005	0.00287 (J)		<0.005	<0.005
9/2/2022	<0.005				<0.005		
2/2/2023		<0.005		0.00466 (J)		<0.005	<0.005
2/3/2023			<0.005		<0.005		
2/7/2023	<0.005						
8/9/2023	<0.005	<0.005			0.00231 (J)		
8/10/2023			<0.005	0.00421 (J)		<0.005	<0.005
1/25/2024	0.00276 (J)	<0.005	<0.005	0.00555	<0.005	<0.005	<0.005
8/21/2024	0.00323 (J)	<0.005	<0.005	0.00497 (J)	<0.005	<0.005	<0.005
Mean	0.004209	0.004857	0.004406	0.002323	0.004699	0.0047	0.004588
Std. Dev.	0.001379	0.0006881	0.001568	0.001392	0.001025	0.001065	0.001364
Upper Lim.	0.005	0.005	0.005	0.003051	0.005	0.005	0.005

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 10/3/2024 11:52 AM View: Appendix I & IV

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARAMW-4	ARGWC-10	ARGWC-15	ARGWC-16	ARGWC-17	ARGWC-7	ARGWC-9
Lower Lim.	0.00276	0.0017	0.0005	0.001596	0.00231	0.0028	0.00029

Confidence Interval

Constituent: Silver (mg/L) Analysis Run 10/3/2024 11:52 AM View: Appendix I & IV

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARGWC-15	ARGWC-16
6/23/2016	<0.001	
6/24/2016		<0.001
10/25/2016		<0.001
10/26/2016	<0.001	
4/11/2017		<0.001
4/12/2017	<0.001	
10/26/2017	0.00037 (J)	0.00026 (J)
4/10/2018	<0.001	<0.001
10/16/2018		<0.001
10/17/2018	<0.001	
3/27/2019	<0.001	
3/28/2019		<0.001
10/8/2019	0.00018 (J)	
10/9/2019		<0.001
4/8/2020	<0.001	<0.001
9/29/2020	<0.001	<0.001
2/9/2021	<0.001	<0.001
9/8/2021	<0.001	<0.001
2/3/2022	<0.001	<0.001
8/31/2022	<0.001	<0.001
2/2/2023		<0.001
2/3/2023	<0.001	
8/10/2023	<0.001	<0.001
1/25/2024	<0.001	<0.001
8/21/2024	<0.001	<0.001
Mean	0.0009194	0.0009589
Std. Dev.	0.0002367	0.0001744
Upper Lim.	0.001	0.001
Lower Lim.	0.00037	0.00026

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 10/3/2024 11:52 AM View: Appendix I & IV

Plant Arkwright Client: Southern Company Data: Arkwright No 3

	ARAMW-4	ARGWC-15	ARGWC-16	ARGWC-17	ARGWC-18
9/1/2016			<0.002	<0.002	<0.002
9/2/2016		9.5E-05 (J)			
10/25/2016			<0.002	<0.002	
10/26/2016		<0.002			<0.002
1/26/2017		<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
6/21/2017		<0.002	<0.002	<0.002	<0.002
10/25/2017					<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
10/16/2018			<0.002		
10/17/2018		<0.002		<0.002	<0.002
8/20/2019			<0.002		
8/21/2019		<0.002		<0.002	<0.002
10/8/2019		<0.002			
10/9/2019			<0.002	<0.002	<0.002
4/8/2020		<0.002	<0.002	<0.002	
4/9/2020					<0.002
8/18/2020				<0.002	
8/19/2020		<0.002	0.00027 (J)		
8/20/2020	0.00022 (J)				<0.002
9/29/2020		<0.002	0.00025 (J)	<0.002	
9/30/2020	<0.002				<0.002
2/9/2021		<0.002	<0.002	<0.002	
2/10/2021	<0.002				<0.002
9/8/2021	<0.002	<0.002	0.00025 (J)	0.00063 (J)	
9/9/2021					0.00028 (J)
2/2/2022	<0.002			<0.002	
2/3/2022		<0.002	<0.002		<0.002
8/31/2022		<0.002	<0.002		
9/2/2022	<0.002			<0.002	<0.002
2/2/2023			<0.002		<0.002
2/3/2023		<0.002		<0.002	
2/7/2023	<0.002				
8/9/2023	<0.002			<0.002	
8/10/2023		<0.002	<0.002		<0.002
1/25/2024	<0.002	<0.002	<0.002	<0.002	<0.002
8/21/2024	<0.002	<0.002	<0.002	<0.002	<0.002
Mean	0.001822	0.001909	0.001751	0.001935	0.001918
Std. Dev.	0.0005629	0.0004157	0.0006251	0.000299	0.0003753
Upper Lim.	0.002	0.002	0.002	0.002	0.002
Lower Lim.	0.002	9.5E-05	0.00027	0.00063	0.00028

ND substitution: RL or RL/2 if <15% NDs.

FIGURE J.

Appendix IV Trend Tests - Significant Results

Plant Arkwright Client: Southern Company Data: Arkwright No 3 Printed 10/3/2024, 12:01 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Cobalt (mg/L)	**ARGWC-17**	**0.001983**	**85**	**71**	**Yes**	**22**	**0**	**n/a**	**n/a**	**0.05**	**NP**

Appendix IV Trend Tests - All Results

Plant Arkwright Client: Southern Company Data: Arkwright No 3 Printed 10/3/2024, 12:01 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Cobalt (mg/L)	ARGWA-12 (bg)	-0.00002683	-59	-71	No	22	50	n/a	n/a	0.05	NP
Cobalt (mg/L)	ARGWA-13 (bg)	0	7	71	No	22	90.91	n/a	n/a	0.05	NP
Cobalt (mg/L)	ARGWA-14 (bg)	0	5	71	No	22	95.45	n/a	n/a	0.05	NP
Cobalt (mg/L)	ARGWA-24 (bg)	0	3	20	No	9	66.67	n/a	n/a	0.05	NP
Cobalt (mg/L)	ARGWA-3 (bg)	0	3	71	No	22	90.91	n/a	n/a	0.05	NP
Cobalt (mg/L)	ARGWA-5 (bg)	0	-6	-71	No	22	86.36	n/a	n/a	0.05	NP
Cobalt (mg/L)	**ARGWC-17**	**0.001983**	**85**	**71**	**Yes**	**22**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Thallium (mg/L)	ARAMW-4	0	9	23	No	10	90	n/a	n/a	0.05	NP
Thallium (mg/L)	ARGWA-12 (bg)	0	0	66	No	21	100	n/a	n/a	0.05	NP
Thallium (mg/L)	ARGWA-13 (bg)	0	0	66	No	21	100	n/a	n/a	0.05	NP
Thallium (mg/L)	ARGWA-14 (bg)	0	-4	-66	No	21	95.24	n/a	n/a	0.05	NP
Thallium (mg/L)	ARGWA-24 (bg)	0	0	20	No	9	100	n/a	n/a	0.05	NP
Thallium (mg/L)	ARGWA-3 (bg)	0	3	66	No	21	90.48	n/a	n/a	0.05	NP
Thallium (mg/L)	ARGWA-5 (bg)	0	-4	-66	No	21	80.95	n/a	n/a	0.05	NP

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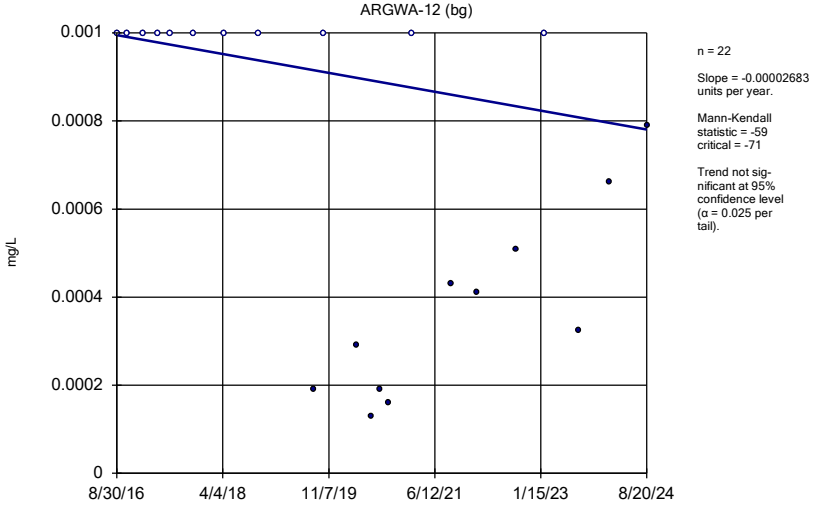
Hollow symbols indicate censored values.

Sen's Slope Estimator

ARGWA-12 (bg)



n = 22

Slope = -0.00002683 units per year.

Mann-Kendall statistic = -59
critical = -71

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 10/3/2024 11:56 AM View: Appendix IV - Trend Tests
Plant Arkwright Client: Southern Company Data: Arkwright No 3

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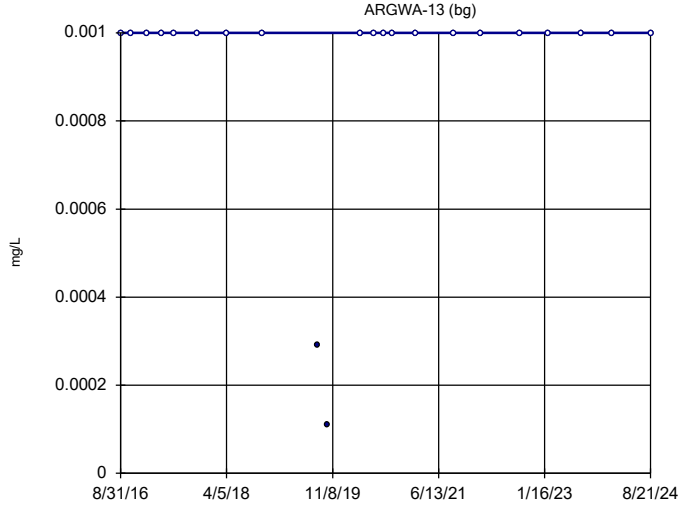
Hollow symbols indicate censored values.

Sen's Slope Estimator

ARGWA-13 (bg)



n = 22

Slope = 0 units per year.

Mann-Kendall statistic = 7
critical = 71

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 10/3/2024 11:56 AM View: Appendix IV - Trend Tests
Plant Arkwright Client: Southern Company Data: Arkwright No 3

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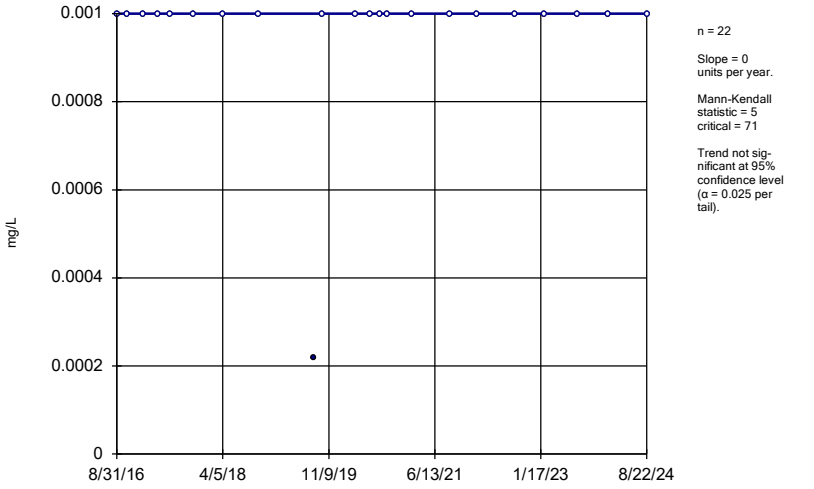
Hollow symbols indicate censored values.

Sen's Slope Estimator

ARGWA-14 (bg)



n = 22

Slope = 0 units per year.

Mann-Kendall statistic = 5
critical = 71

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 10/3/2024 11:56 AM View: Appendix IV - Trend Tests
Plant Arkwright Client: Southern Company Data: Arkwright No 3

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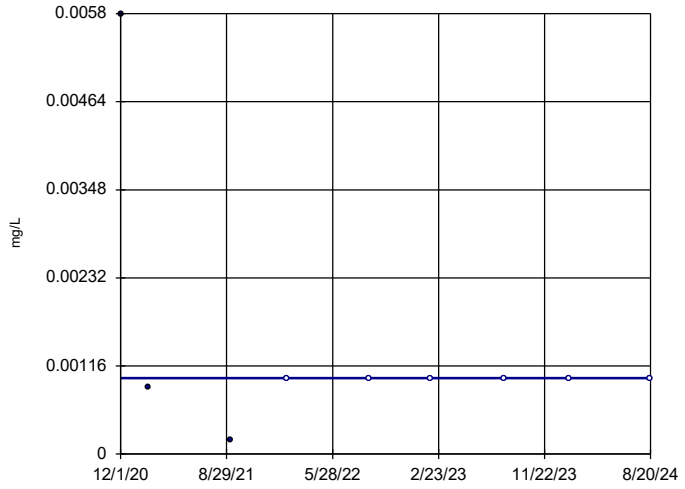
Hollow symbols indicate censored values.

Sen's Slope Estimator

ARGWA-24 (bg)



n = 9

Slope = 0 units per year.

Mann-Kendall statistic = 3
critical = 20

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 10/3/2024 11:56 AM View: Appendix IV - Trend Tests
Plant Arkwright Client: Southern Company Data: Arkwright No 3

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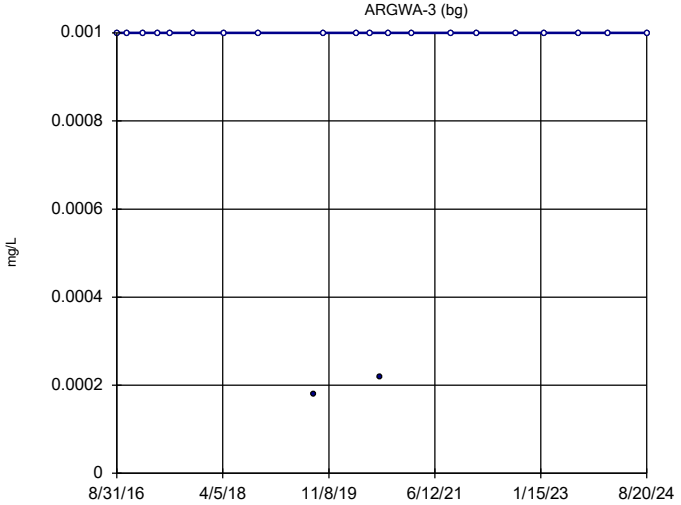
Hollow symbols indicate censored values.

Sen's Slope Estimator

ARGWA-3 (bg)



n = 22

Slope = 0 units per year.

Mann-Kendall statistic = 3
critical = 71

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 10/3/2024 11:56 AM View: Appendix IV - Trend Tests
Plant Arkwright Client: Southern Company Data: Arkwright No 3

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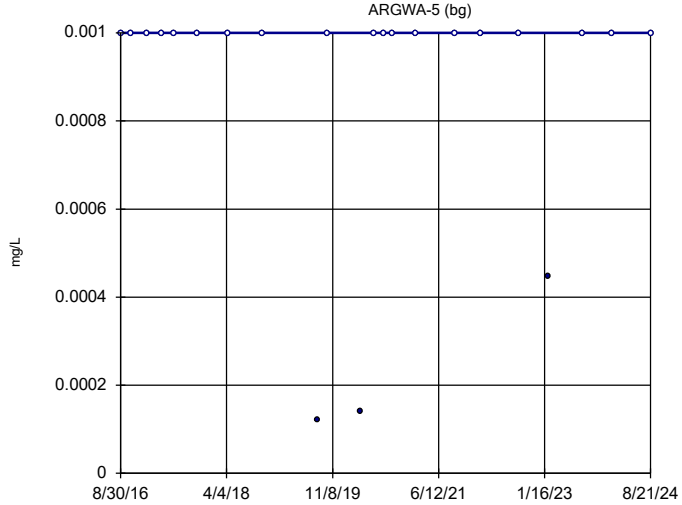
Hollow symbols indicate censored values.

Sen's Slope Estimator

ARGWA-5 (bg)



n = 22

Slope = 0 units per year.

Mann-Kendall statistic = -6
critical = -71

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 10/3/2024 11:56 AM View: Appendix IV - Trend Tests
Plant Arkwright Client: Southern Company Data: Arkwright No 3

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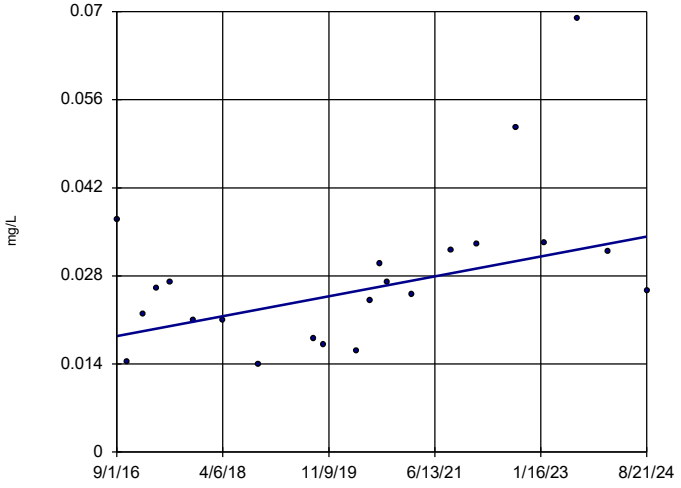
Sen's Slope Estimator

ARGWC-17



n = 22

Slope = 0.001983 units per year.

Mann-Kendall statistic = 85
critical = 71

Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 10/3/2024 11:56 AM View: Appendix IV - Trend Tests
Plant Arkwright Client: Southern Company Data: Arkwright No 3

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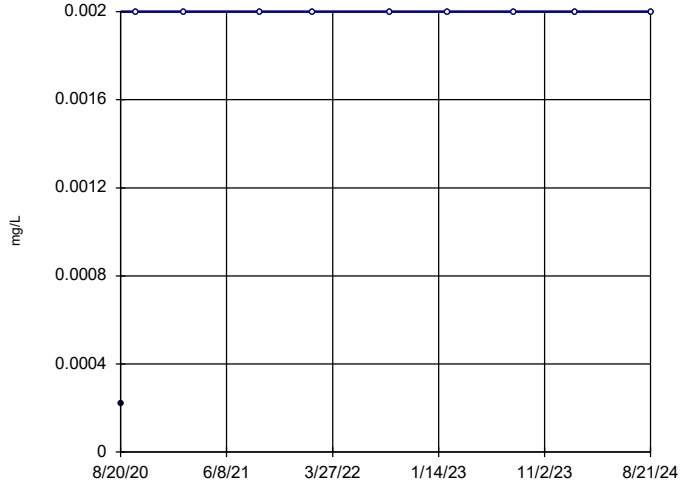
Hollow symbols indicate censored values.

Sen's Slope Estimator

ARAMW-4



n = 10

Slope = 0 units per year.

Mann-Kendall statistic = 9
critical = 23

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Thallium Analysis Run 10/3/2024 11:56 AM View: Appendix IV - Trend Tests
Plant Arkwright Client: Southern Company Data: Arkwright No 3

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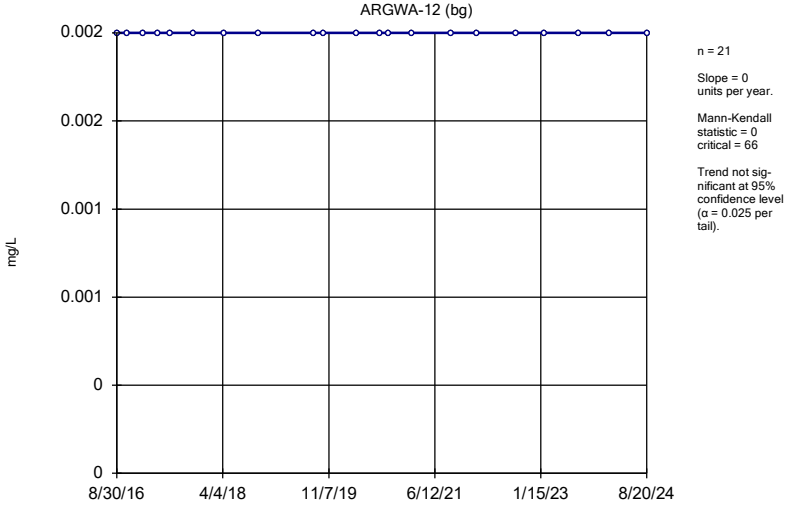
Hollow symbols indicate censored values.

Sen's Slope Estimator

ARGWA-12 (bg)



n = 21

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 66

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Thallium Analysis Run 10/3/2024 11:56 AM View: Appendix IV - Trend Tests
Plant Arkwright Client: Southern Company Data: Arkwright No 3

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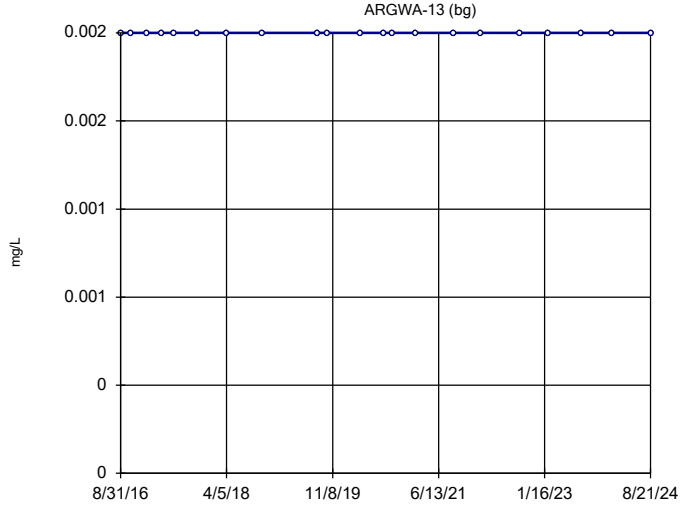
Hollow symbols indicate censored values.

Sen's Slope Estimator

ARGWA-13 (bg)



n = 21

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 66

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Thallium Analysis Run 10/3/2024 11:56 AM View: Appendix IV - Trend Tests
Plant Arkwright Client: Southern Company Data: Arkwright No 3

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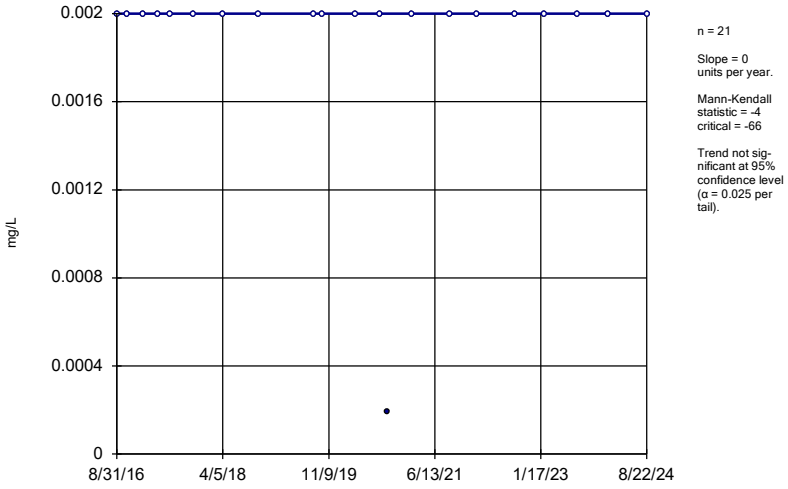
Hollow symbols indicate censored values.

Sen's Slope Estimator

ARGWA-14 (bg)



n = 21

Slope = 0 units per year.

Mann-Kendall statistic = -4
critical = -66

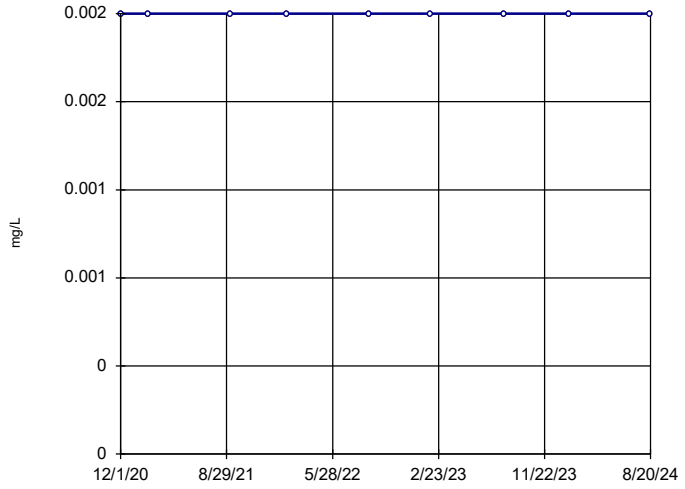
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Thallium Analysis Run 10/3/2024 11:56 AM View: Appendix IV - Trend Tests
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

ARGWA-24 (bg)



n = 9

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 20

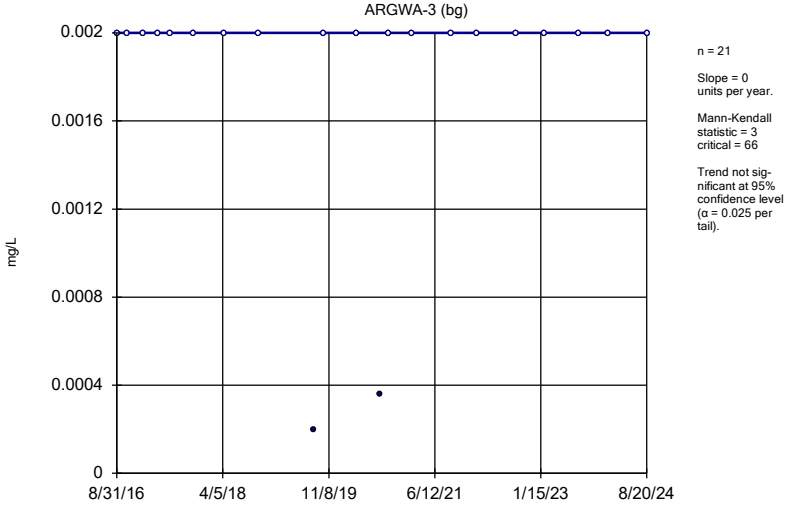
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Thallium Analysis Run 10/3/2024 11:56 AM View: Appendix IV - Trend Tests
Plant Arkwright Client: Southern Company Data: Arkwright No 3

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

ARGWA-3 (bg)



n = 21

Slope = 0 units per year.

Mann-Kendall statistic = 3 critical = 66

Trend not significant at 95% confidence level (α = 0.025 per tail).

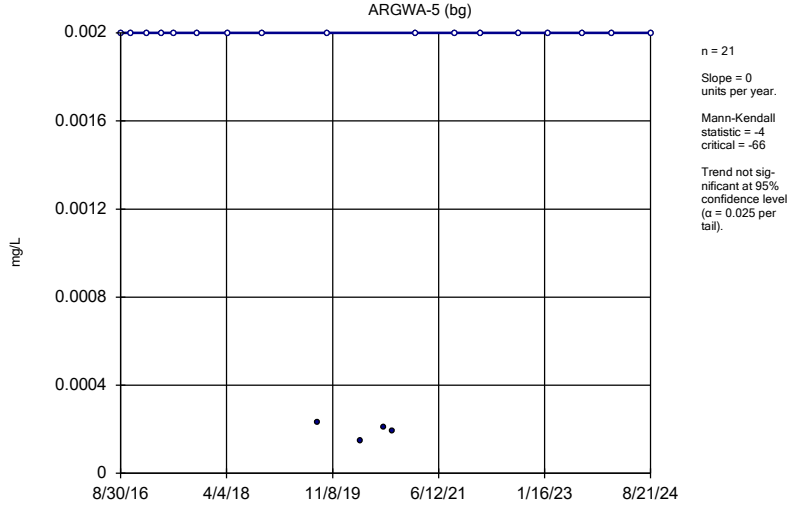
Constituent: Thallium Analysis Run 10/3/2024 11:56 AM View: Appendix IV - Trend Tests

Plant Arkwright Client: Southern Company Data: Arkwright No 3

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

ARGWA-5 (bg)



n = 21

Slope = 0 units per year.

Mann-Kendall statistic = -4 critical = -66

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Thallium Analysis Run 10/3/2024 11:56 AM View: Appendix IV - Trend Tests

Plant Arkwright Client: Southern Company Data: Arkwright No 3