

2023 SEMI-ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

Plant Arkwright Ash Pond 2 Dry Ash Stockpile Macon, Georgia

February 28, 2024

Prepared for:



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2023 Semi-Annual Groundwater Monitoring and Corrective Action Report Plant Arkwright Ash Pond 2 Dry Ash Stockpile

CERTIFICATION STATEMENT

This 2023 Semi-Annual Groundwater Monitoring and Corrective Action Report, Plant Arkwright, Ash Pond 2 Dry Ash Stockpile 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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2/28/2024

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Executive Summary

This summary of the 2023 Semi-Annual Groundwater Monitoring and Corrective Action Report provides the status of the groundwater monitoring and corrective action program from July 2023 through December 2023 at the Georgia Power Company (Georgia Power) former Plant Arkwright Ash Pond 2 Dry Ash Stockpile (AP-2 DAS). 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 six miles northwest of the city of Macon. The plant address is 5241 Arkwright Road, Macon, Georgia, 31210. The 11-acre AP-2 DAS is located between Arkwright Road to the north and Beaverdam Creek to the south. 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 officially closed the AP-2 DAS in 2010, with GA EPD's approval and in accordance with the solid waste landfill regulations in effect at the time of its closure.



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The groundwater monitoring program for AP-2 DAS 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. 011-031D(LI). AP-2 DAS is also subject to the GA EPD Rules for Solid Waste Management 391-3-4-.10 for coal combustion residuals (CCR) management. Georgia Power submitted a CCR permit application to GA EPD in 2018 proposing closure by removal of AP-2 DAS to a lined landfill. Groundwater at AP-2 DAS is monitored using a comprehensive groundwater monitoring system that meets the GA EPD requirements. Groundwater sampling and reporting for compliance to meet requirements of Rule 391-3-4.10 began after baseline upgradient groundwater conditions were established between August 2016 and October 2018. Based on groundwater conditions at AP-2 DAS, an assessment monitoring program was initiated on November 13, 2019, and assessment of corrective measures began on July 9, 2020. During the 2023 semi-annual reporting period, AP-2 DAS remained in assessment monitoring as corrective measures were evaluated.

During the 2023 semi-annual reporting period, Stantec conducted one groundwater sampling event in August 2023. Samples were analyzed for the full suites of Appendix III¹ and Appendix IV² constituents listed in Title 40, Code of Federal Regulations Part 257 (CCR Rule) and Appendix I constituent (silver).

² Antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, fluoride, lead, lithium, mercury, molybdenum, selenium, thallium, and radium 226 + 228



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¹ Boron, calcium, chloride, fluoride, pH, sulfate, and total dissolved solids (TDS)

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Per the CCR Rule, groundwater results for the August 2023 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 and lithium are the only SSLs identified in a single well, ARAMW-7, at AP-2 DAS.

Appendix III Constituents	August 2023
Boron	ARGWC-21, ARGWC-22, ARGWC-23
Calcium	ARGWC-21, ARGWC-22, ARGWC-23
Fluoride	ARGWC-21, ARGWC-23
pH	ARGWC-21, ARGWC-23
Sulfate	ARGWC-21, ARGWC-22, ARGWC-23
TDS	ARGWC-21, ARGWC-22, ARGWC-23
Appendix IV Constituents	August 2023
Cobalt	ARAMW-7
Lithium	ARAMW-7

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 2023 through December 2023, assessment monitoring will continue along with assessment of corrective measures. Georgia Power will continue routine groundwater monitoring and reporting at AP-2 DAS. Reports will be submitted to GA EPD semi-annually. A Draft Remedy Selection Report, which summarizes the evaluation and proposed selection of a corrective measure, or measures, will be submitted under separate cover to GA EPD on February 28, 2024 in lieu of the Semi-annual Remedy Selection and Design Progress Report.

Acronyms / Abbreviations

40 CFR Title 40 Code of Federal Regulations
ACM Assessment of Corrective Measures

AP-2 Ash Pond 2

AP-2 DAS

Ash Pond 2 Dry Ash Stockpile

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 Laboratories LLC
Georgia Power Georgia Power Company

GSC Groundwater Stats Consulting LLC
GWPS Groundwater Protection Standards
MCL Maximum Contaminant Level

mg/L Milligrams per Liter

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 2 Dry Ash Stockpile

SSI Statistically Significant Increase
SSL Statistically Significant Level
Stantec Stantec Consulting Services, Inc.

TDS Total Dissolved Solids
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 2023 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 2 (AP-2) Dry Ash Stockpile (AP-2 DAS) Site (the 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-2 DAS 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 2023 and December 2023. One semi-annual assessment monitoring event was conducted during this reporting period in August 2023.

Due to statistically significant levels (SSL) 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-2 DAS on July 9, 2020, pursuant to 40 CFR § 257.96(b), and an ACM Report for cobalt was prepared and submitted to GA EPD in December 2020 (Wood, 2020b). Based on statistical analyses on the recent semi-annual sampling event, vertical assessment well ARAMW-7 is the only well showing SSLs for cobalt and lithium at AP-2. Well ARAMW-7 is a vertical delineation for shallow well ARGWC-22. ARGWC-22 does not show an SSL for cobalt and lithium.

Cobalt and lithium are horizontally delineated by surface water with both being below method detection limits, well below the Groundwater Protection Standard (GWPS). Vertical delineation for cobalt and lithium was completed with the installation of monitoring well ARAMW-9 during the previous reporting period.

1.1 Site Description and Background

Plant Arkwright is located in Bibb County, Georgia, approximately six miles northwest of the city of Macon (Figure 1). The physical address of the plant is 5241 Arkwright Road, Macon, Georgia 31210. The 11-acre AP-2 DAS is located between Arkwright Road to the north and Beaverdam Creek to the south. 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.

AP-2 was in operation in the 1950s. Soil was placed over AP-2 as a closure measure and the CCR unit was estimated to be closed in-place in the late 1970s to early 1980s. Georgia Power officially closed AP-2 DAS in 2010 by removing ash from the former AP-2, located directly east of AP-2 DAS, with GA EPD's approval and in accordance with the solid waste landfill regulations specified by GA EPD Rule 391-3-4, in effect at the time of its closure. A Closure Certificate was issued by GA EPD for AP-2 DAS on June 30,



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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. 011-031D(LI) following closure.

AP-2 DAS is exempt from the requirements in the CCR Rule in accordance with 40 CFR §257.50 (d) and (e), which states that the subpart does not apply to CCR landfills that have ceased receiving CCR prior to October 19, 2015 (US EPA, 2015). These CCR units are, however, subject to the requirements of relevant portions of GA EPD 391-3-4-.10. The CCR unit referred to as AP-2 DAS is defined as an inactive CCR Landfill per GA EPD Rule 391-3-4-.10(2)(a)(3).

Semi-annual groundwater monitoring at AP-2 DAS is performed for an approved list of analytes in accordance with the post-closure care period requirements of GA EPD Permit #: 011-031D(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 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-2 DAS and place it in a lined landfill. The closure of AP-2 DAS by the removal of CCR material provides significant source control that reduces the potential for migration of CCR constituents to groundwater.

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, and 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 seven 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



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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 one to four 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-2 DAS (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 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 maps depict groundwater generally flowing to the south across AP-2 DAS (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-2 DAS. The monitoring system is designed to monitor groundwater passing the waste boundary of AP-2 DAS 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 August 2023 and January 2024. Samples were collected from each of the wells in the monitoring network depicted in Figure 2. In accordance with 40 CFR § 257.93, Table 2 presents a summary of the groundwater sampling events completed for AP-2 DAS during this monitoring period.

2.1 Monitoring Well Installation and 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 2023, the monitoring wells were inspected. No needed corrective actions were identified, as documented in Appendix A.

Assessment monitoring wells ARGWA-20, ARGWC-21, ARGWC-22, ARGWC-23, ARAMW-1, ARAMW-2, ARAMW-7, ARAMW-8, and ARAMW-9 were redeveloped between July 25, 2023 and July 27, 2023. Eight of the wells, all located along the northern bank of Beaver Dam Creek, were redeveloped due to recent flooding that led to the inundation of well protective casings. One well, ARGWA-20 located on the upgradient area of AP-2 DAS, was redeveloped due to increases in turbidity noted during recent quarterly sampling events. Field logs recording the redevelopment of the assessment monitoring wells are provided in Appendix B.

2.2 Assessment Monitoring

Georgia Power implemented assessment monitoring in accordance with 40 CFR § 257.95 in November 2019. During the 2023 semi-annual reporting period, a semi-annual assessment monitoring event at AP-2 DAS was conducted from August 8 to 10, 2023. 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 2023 monitoring event are included in Appendix B.

2.3 Surface Water Sampling

Due to the close proximity of Beaverdam Creek in the downgradient direction of ARAMW-7, further well installation was infeasible. Instead, five surface water samples were collected on August 10, 2023, from locations along Beaverdam Creek near AP-2 DAS, as shown in Figure 2. Surface water samples were collected in accordance with Region 4 US EPA Science and Ecosystem Support Division Operating Procedures for Surface Water Sampling (SESDPROC-201-R4, December 16, 2016).

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.

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. The laboratory reports associated



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with the August 2023 sampling event are provided in Appendix B. Georgia Power will continue collecting surface water samples semi-annually.



3.0 Sample Methodology & Analyses

The semi-annual groundwater sampling event completed in August 2023 for AP-2 DAS 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-2 DAS.

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-2 DAS. 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 south in the direction of Beaverdam Creek. This groundwater flow pattern is consistent with historical groundwater flow patterns.

3.2 Groundwater Gradient and Flow Velocity

The groundwater flow velocity at AP-2 DAS was calculated using a derivation of Darcy's Law. Specifically,

$$V = \frac{K*i}{n_{e}}$$
 Where:
$$V = \text{Groundwater flow velocity}\left(\frac{feet}{day}\right)$$

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

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

$$n_{e} = \text{Effective porosity (unitless)}$$

The general groundwater flow velocities were calculated for AP-2 DAS based on hydraulic gradients, average hydraulic conductivity based on previous slug test data, and an estimated effective porosity of 0.20 (based on a review of several sources, including Driscoll, 1986; US EPA, 1989; Freeze and Cherry, 1979). The general groundwater flow velocity values based on August 7, 2023, groundwater elevations are presented in Table 4. The results for groundwater flow velocity through the central portion of AP-2 DAS was 0.100 feet/day (36.6 feet/year) in August. Groundwater flow velocity through the eastern portion was 0.087 feet/day (31.9 feet/year) in August. The observed groundwater flow velocities calculated for this monitoring event are also 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 2023. Sampling procedures were conducted in accordance with US *EPA* Region 4 *Science and Ecosystem Support Division Operating Procedures for Groundwater Sampling* (SESDPROC-301-R4, April 26, 2017). 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 %
- \pm 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 5 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. Turbidity readings greater than 10 NTUs at the time of sampling and after three hours of purging were measured in one well (ARGWA-20) during the sampling event covered by this report. A dissolved metals sample was collected from this well using a 0.45-micron water filter. 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 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 parameters³ to assist with remedy selection 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.

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



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The August 2023 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.

3.5 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 event 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 2023 groundwater assessment monitoring and surface water sampling events as reported by the laboratory. 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.



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-2 DAS. In addition, pursuant to 40 CFR § 257.95(d)(2), 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-2 DAS was developed by GSC using methodology presented in the *Statistical Analysis of Groundwater Data at RCRA Facilities, Unified Guidance, March 200*9, 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 2023 monitoring event were compared to the UPLs to evaluate whether SSIs exist. No resampling was conducted for the 2023 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 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 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 were provided in the GSC2023 reports (Appendix C). The background limits were evaluated when determining the GWPS under 40 CFR § 257.95(h).

On July 30, 2018, US EPA revised the CCR Rule providing a GWPS for cobalt (0.006 mg/L), lead (0.015 mg/L), lithium (0.040 mg/L), and molybdenum (0.100 mg/L). On February 22, 2022, GA EPD updated the Rules for Solid Waste Management 391-3-4-.10(6) to incorporate the updated Federal GWPS where a maximum contaminant level (MCL) had not been established. Statistical evaluations have been updated since the Spring 2022 event to reflect these changes.

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

- The MCL established under §141.62 and §141.66 of this title
- Where an MCL has not been established for a constituent, CCR-rule specified levels have been specified for cobalt (0.006 mg/L), lead (0.015 mg/L), lithium (0.040 mg/L), and molybdenum (0.100 mg/L)
- The respective background level for a constituent when the background level is higher than the MCL or Federal CCR Rule identified GWPS.

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

To complete the statistical evaluation, 99% confidence intervals were constructed for each downgradient well/constituent pair and compared to the GWPS. In assessment monitoring, an SSL above background 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 2023 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 2023 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 and monitoring events include:

August 2023:

Lithium: ARAMW-7

Cobalt: ARAMW-7

2023 Semi-Annual Groundwater Monitoring and Corrective Action Report Plant Arkwright Ash Pond 2 Dry Ash Stockpile 5.0 Nature and Extent

5.0 Nature and Extent

Based on statistical analysis of Appendix IV groundwater data, the cobalt and lithium SSLs identified in the compliance well ARAMW-7 are horizontally and vertically delineated to levels below GWPS by Beaverdam Creek and ARAMW-9, respectively. Due to the presence of Beaverdam Creek in the downgradient direction of ARAMW-7 and the topography in this area, installation of additional wells to horizontally characterize this area is infeasible. Based on cobalt and lithium data collected from Beaverdam Creek to date, horizontal delineation is complete. The lateral extent of the cobalt and lithium SSLs is limited to an area less than approximately 100 feet wide.



2023 Semi-Annual Groundwater Monitoring and Corrective Action Report Plant Arkwright Ash Pond 2 Dry Ash Stockpile 6.0 Monitoring Program Status

6.0 Monitoring Program Status

Pursuant to 40 CFR § 257.96(b), Georgia Power will continue to monitor the groundwater at AP-2 DAS 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.



7.0 Conclusions & Future Actions

The 2023 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 SSLs of cobalt and lithium in well ARAMW-7, which are above the established GWPS. Horizontal delineation of cobalt and lithium SSLs is considered complete by surface water sampling in Beaverdam Creek, and vertical delineation has been achieved by installation and sampling of well ARAMW-9. Thus, horizontal and vertical delineation of the cobalt and lithium SSLs in well ARAMW-7 is completed at AP-2 DAS.

Georgia Power will continue to monitor AP-2 DAS 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, will be submitted to GA EPD under separate cover on February 28, 2024. The next semi-annual sampling event is planned for January 2024 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. Progress made regarding the remedy selection and evaluation will be included in the next groundwater monitoring report.



8.0 References

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TABLES

TABLE 1

SUMMARY OF MONITORING WELL CONSTRUCTION

Georgia Power Company - Plant Arkwright Ash Pond 2 Dry Ash Stockpile

Macon, Georgia

	Installation	40		Top of Casing Elevation	Ground Surface Elevation	Top of Screen	Screen Bottom	Screen	Total Well Depth on Construction	Groundwater	Hydraulic		
Well	Date	Data Commission Control Control		Elevation (feet NAVD88) ⁽⁴⁾	Lamenth (fact)	Log (feet below land surface)	Zone Screened	Location					
	Detection Monitoring Wells												
ARGWA-19	12/16/2008	1063774.45	2439488.71	343.30	339.86	300.18	290.18	10.0	49.98	Bedrock	Upgradient		
ARGWA-20	12/4/2008	1063732.73	2439088.01	331.28	327.73	303.18	293.18	10.0	34.85	Overburden	Upgradient		
ARGWC-21	12/2/2008	1062941.24	2439112.52	309.15	305.97	291.70	281.70	10.0	24.57	Overburden	Downgradient		
ARGWC-22	11/19/2019	1063039.36	2438925.04	309.95	307.01	292.01	282.01	10.0	25.00	Overburden	Downgradient		
ARGWC-23	11/20/2019	1062884.38	2439202.38	307.70	304.29	289.29	279.29	10.0	25.00	Overburden	Downgradient		
	Assessment Monitoring Wells												
ARAMW-1	11/20/2019	1062938.38	2439120.01	308.51	305.07	271.07	261.07	10.0	44.00	Bedrock	Downgradient		
ARAMW-2	11/20/2019	1062925.96	2439114.97	308.27	305.12	293.12	283.12	10.0	22.00	Overburden	Downgradient		
ARAMW-7 ⁽⁵⁾	11/14/2020	1063049.07	2438913.27	309.81	307.13	269.43	259.43	10.0	48.00	Bedrock	Downgradient		
ARAMW-8 ⁽⁵⁾	11/13/2020	1062895.98	2439197.40	307.36	304.53	267.83	257.83	10.0	47.00	Bedrock	Downgradient		
ARAMW-9 ⁽⁶⁾	10/7/2022	1063022.92	2438935.47	309.28	306.31	213.91	203.91	10.0	102.90	Bedrock	Downgradient		

- 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-7 and ARAMW-8 were surveyed by Donaldson & Garrett Associates and certified on December 18, 2020.
- 6. ARAMW-9 was surveyed by Metro Engineering & Surveying CO., Inc. on November 22, 2022.

TABLE 2 GROUNDWATER SAMPLING EVENT SUMMARY Georgia Power Company - Plant Arkwright Ash Pond 2 Dry Ash Stockpile Macon, Georgia

Hydraulic Location	August 8 - 10, 2023 Pugust 8 - 10, 2023	Status of Monitoring Well
H STOCKPILE MONITORING WE	LL NETWORK	
Upgradient	Х	Assessment Monitoring
Upgradient	Х	Assessment Monitoring
Downgradient	Х	Assessment Monitoring
Downgradient	Х	Assessment Monitoring
Downgradient	Х	Assessment Monitoring
Delineation Piezometer	Х	Assessment Monitoring
Delineation Piezometer	Х	Assessment Monitoring
Delineation Piezometer	Х	Assessment Monitoring
Delineation Piezometer	Х	Assessment Monitoring
Delineation Piezometer	Х	Assessment Monitoring
	Location H STOCKPILE MONITORING WE Upgradient Upgradient Downgradient Downgradient Downgradient Delineation Piezometer Delineation Piezometer Delineation Piezometer Delineation Piezometer Delineation Piezometer	Hydraulic Location Hydraulic Location H STOCKPILE MONITORING WELL NETWORK Upgradient X Upgradient X Downgradient X Downgradient X Downgradient X Downgradient X Delineation Piezometer X

Notes:

X - Indicates well sampled during monitoring event

TABLE 3 SUMMARY OF GROUNDWATER ELEVATIONS

Georgia Power Company - Plant Arkwright Ash Pond 2 Dry Ash Stockpile 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		8/7/2	2023
ARGWA-19	343.30	27.77	315.53
ARGWA-20	331.28	15.03	316.25
ARGWC-21	309.15	14.37	294.78
ARGWC-22	309.95	14.15	295.80
ARGWC-23	307.70	12.19	295.51
ARAMW-1	308.51	13.58	294.93
ARAMW-2	308.27	13.71	294.56
ARAMW-7	309.81	13.20	296.61
ARAMW-8	307.36	11.84	295.52
ARAMW-9	309.28	15.50	293.78

- 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 2 Dry Ash Stockpile Macon, Georgia

Potentiometric Map Date	Location	in Wel (h ₁ ,	er Elevations I Pairs h ₂) et)	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 7, 2023	ARGWA-20 to ARGWC-21	316.25	294.78	21.47	792	0.027	0.74	0.2	0.100	36.6
	ARGWA-19 to ARAMW-1	315.53	294.93	20.60	907	0.023	0.77	0.2	0.087	31.9

- 1. Effective porosity of 20% 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.
- 2. Hydraulic conductivity (K) for the ARGWA-20 to ARGWC-21 well pair is the geometric mean value determined via slug testing three overburden wells in the AP-2 groundwater monitoring system
- 3. Hydraulic conductivity (K) for the ARGWA-19 to ARAMW-1 well pair is the geometric mean value determined via slug testing three bedrock wells in the AP-2 groundwater monitoring system

TABLE 5 ANALYTICAL DATA SUMMARY - GROUNDWATER Georgia Power Company - Plant Arkwright Ash Pond 2 Dry Ash Stockpile Macon, Georgia

	Substance	ARGWA-19	ARGWA-20	ARGWC-21	ARGWC-22	ARGWC-23	ARAMW-1	ARAMW-2	ARAMW-7	ARAMW-8	ARAMW-9
		8/8/2023	8/10/2023	8/9/2023	8/8/2023	8/8/2023	8/8/2023	8/8/2023	8/8/2023	8/9/2023	8/8/2023
	Boron	0.0199	0.0714	1.12	3.06	0.379	1.13	1.07	2.25	0.770	0.0666
≡	Calcium	8.51	11.0	82.9	196	66.6	83.4	87.1	279	78.6	146
APPENDIX III	Chloride	6.37	6.50	3.35	6.79	3.60	3.61	3.35	5.50	5.13	36.1
2	Fluoride	< 0.0330	< 0.0330	0.203	< 0.0660	0.283	0.118	0.0571 J	< 0.0330	0.261	0.837
PE	Sulfate	8.29	18.5	214	719	69.8	223	243	1060	114	477
A	TDS	62.0	105	520	1220	294	524	548	1620	436	852
	pH	5.81	5.55	6.6	5.61	6.33	6.38	6.01	5.47	8.71	8.13
	Antimony	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	0.00134 J	0.00158 J
	Arsenic	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	0.0120	< 0.00200	< 0.00200	< 0.00200
	Barium	0.0337	0.107	0.0474	0.0255	0.0936	0.0510	0.0753	0.0244	0.122	0.0207
	Beryllium	< 0.000200	0.000275 J	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	0.000272 J	< 0.000200	< 0.000200
_	Cadmium	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300
3	Chromium	< 0.00300	0.00684 J	< 0.00300	< 0.00300	< 0.00300	< 0.00300	< 0.00300	< 0.00300	< 0.00300	< 0.00300
6	Cobalt	< 0.000300	0.000814 J	0.000813 J	0.00184	0.000440 J	0.000350 J	0.00223	0.0605	0.00364	< 0.000300
APPENDIX IV	Lead	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500
APF	Lithium	0.00382 J	< 0.00300	0.0131	0.0280	0.0517	0.00909 J	0.0193	0.0577	0.00637 J	0.00907 J
_	Mercury	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670
	Molybdenum	0.000421 J	< 0.000200	< 0.000200	0.000514 J	0.0618	0.00667	0.00110	< 0.000200	0.203	0.0109
	Radium	1.80	1.80	2.69	1.22 U	0.363 U	1.16 U	1.86	4.83	0.193 U	3.92
	Selenium	< 0.00150	< 0.00150	< 0.00150	< 0.00150	< 0.00150	< 0.00150	< 0.00150	< 0.00150	< 0.00150	< 0.00150
	Thallium	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600
	Silver*	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300
PARAMETERS	Total Alkalinity	37.0	43.8	162	117	175	184	180	55.3	245	91.1
Æ	Bicarbonate Alkalinity	37.0	43.8	162	117	175	184	180	55.3	245	91.1
Æ	Carbonate Alkalinity	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725
AR	Aluminum	< 0.0193	1.52	0.0254 J	0.0513	< 0.0193	0.0342 J	0.0505	0.0265 J	< 0.0193	0.0354 J
-	Iron	< 0.0330	1.90	0.719	2.73	0.0491 J	0.239	6.78	4.04	0.515	0.580
ž	Manganese	< 0.00100	0.0285	0.348	12.4	0.278	0.145	0.943	14.3	0.279	0.172
Ξ	Magnesium	3.36	6.28	41.8	85.0	10.5	35.7	35.7	73.8	32.1	10.5
ADDITIONAL	Potassium	2.08	1.86	6.43	5.10	1.68	5.37	7.58	8.74	7.34	7.85
¥	Sodium	9.51	11.5	21.0	29.2	13.3	19.3	18.8	26.1	18.1	107

- 1. Results for constituents are reported in milligrams per liter (mg/L). Radium results are reported in picocuries per liter (pCi/L).
- 2. < indicates the constituent was not detected above the analytical method detection limit (MDL).
- 3. J indicates the constituent was detected at such low levels that the precision of the laboratory instrument could not produce a reliable value.
- Therefore, the value displayed (value J) is qualified by the laboratory as an estimated number.
- 4. TDS indicates total dissolved solids.
- 5. U indicates the constituent was detected below the Minimum Detection Concentration (MDC) and the precision of the laboratory instruments could not produce a reliable value. Therefore, the value followed by U is qualified by the laboratory as estimated.

 6. * - Georgia Appendix I constituent that is not also included in Appendix IV.
- 7. NA indicates constituent was not analyzed

TABLE 6

ANALYTICAL DATA SUMMARY - SURFACE WATER

Georgia Power Company - Plant Arkwright Ash Pond 2 Dry Ash Stockpile

Macon, Georgia	Macc	n. Ge	orgia
----------------	------	-------	-------

			wacon, Georgi	a			
			Surface	Water Sample I	_ocation		
	Substance	BC-0.8a	BC-0.5.7	BC-0.5.6	BC-0.5.5	BC-BR	
		8/10/2023	8/10/2023	8/10/2023	8/10/2023	8/10/2023	
	Boron	<0.04	<0.04	<0.04	<0.04	<0.04	
=	Calcium	8.2	8.5	8.4	8.6	8.8	
X	Chloride	6.7	7.2	7.3	7.9	7.7	
APPENDIX	Fluoride	<0.1	<0.1	<0.1	<0.1	<0.1	
ЪРЕ	Sulfate	2.6	3.8	4.4	4.4	4.4	
¥	TDS	81.0	86.0	90.0	87.0	87.0	
	рН	6.97	7.03	7.08	7.04	7.05	
*	Cobalt	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	
APP I	Lithium	<0.03	<0.03	<0.03	<0.03	<0.03	
Ą	Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.01	
۱L S	Total Alkalinity	44.3	45.7	45.9	45.2	45.8	
IONAL YTES	Bicarbonate Alkalinity	arbonate Alkalinity 44.3		45.9	45.2	45.8	
ADDITIONAL ANALYTES	Magnesium	3.7	3.8	3.8	3.8	4.0	
ADDITI ANAL	Potassium	2.5	2.5	2.4	2.4	2.6	
₹ 4	Sodium	7.4	7.6	7.4	7.5	7.9	

- 1. Results for constituents are reported in milligrams per liter (mg/L).
- 2. < indicates the constituent was not detected above the analytical reporting limit (RL).
- 3. TDS indicates total dissolved solids.
- 4. * Targeted Appendix IV parameters

TABLE 7

SUMMARY OF GROUNDWATER PROTECTION STANDARDS

Georgia Power Company - Plant Arkwright Ash Pond 2 Dry Ash Stockpile Macon, Georgia

PLANT ARKWRIGHT AP-2 DAS GWPS									
Constituent Name	UNITS	MCL	CCR-Rule Specified ^[1]	Site Specific Background Limit ^[2] August 2023	State GWPS August 2023				
Antimony	mg/L	0.006		0.003	0.006				
Arsenic	mg/L	0.01		0.005	0.01				
Barium	mg/L	2		0.1	2				
Beryllium	mg/L	0.004		0.0005	0.004				
Cadmium	mg/L	0.005		0.001	0.005				
Chromium	mg/L	0.1		0.01	0.1				
Cobalt	mg/L	n/a	0.006	0.001	0.006				
Combined Radium	pCi/L	5		2.33	5				
Fluoride	mg/L	4		0.15	4				
Lead	mg/L	n/a	0.015	0.002	0.015				
Lithium	mg/L	n/a	0.04	0.013	0.04				
Mercury	mg/L	0.002		0.0002	0.002				
Molybdenum	mg/L	n/a	0.1	0.001	0.1				
Selenium	mg/L	0.05		0.005	0.05				
Silver	mg/L	n/a	_	0.001	0.001				
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

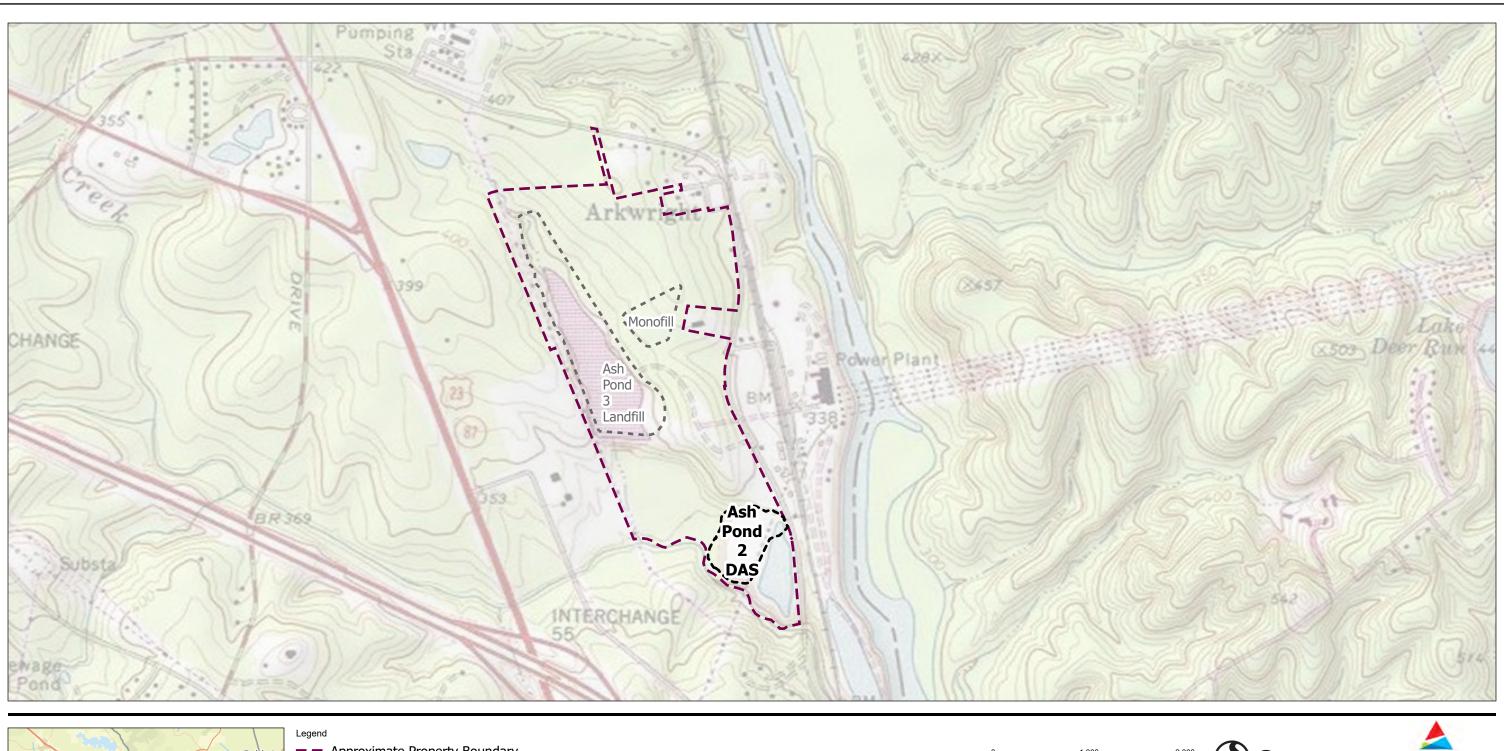
GA EPD = Georgia Environmental Protection Division

AP-2 DAS = Ash Pond 2 Dry Ash Stockpile

[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 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-2 Landfill Boundary provided by Southern Company Services and Wood Environment & Infrastructure Solutions

3. Background: Copyright® 2013 National Geographic Society, i-cubed, Esri, HERE, Garmin, SafeGraph, FAO, METI/NASA, USGS, EPA, NPS

Approximate Property Boundary

L.: Ash Pond 2 Dry Ash Stockpile (DAS) (approximate location)

Ash Pond 3 Landfill and Monofill (approximate location)

(At original document size of 11x17)



Georgia Power

Project Location Macon, Georgia

Prepared by DMB on 12/5/2023 TR by CS on 12/5/2023 IR by JK on 12/5/2023

Client/Project

Georgia Power 2023 Semi-Annual Groundwater Monitoring and Corrective Action Report - Plant Arkwright Ash Pond 2 Dry Ash Stockpile

Site Location Map





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, METINASA, USGS, EPA, NPS, USFWS, Esri Community Maps Contributors, © OpenStreetWap, Microsoft, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METINASA, USGS, EPA, NPS, US Census Bureau, LISEW, Plant imagery provided by client and is dated 7/13/2023.

Detection Monitoring Well

Assessment Monitoring Well Surface Water Sampling Location

Beaverdam Creek/Ocmulgee River (Approximate)

- - Approximate Property Boundary

Solution Ash Pond 2 Dry Ash Stockpile (DAS) (approximate location)

Limit of Client Imagery (dated 7/13/2023)



Stantec



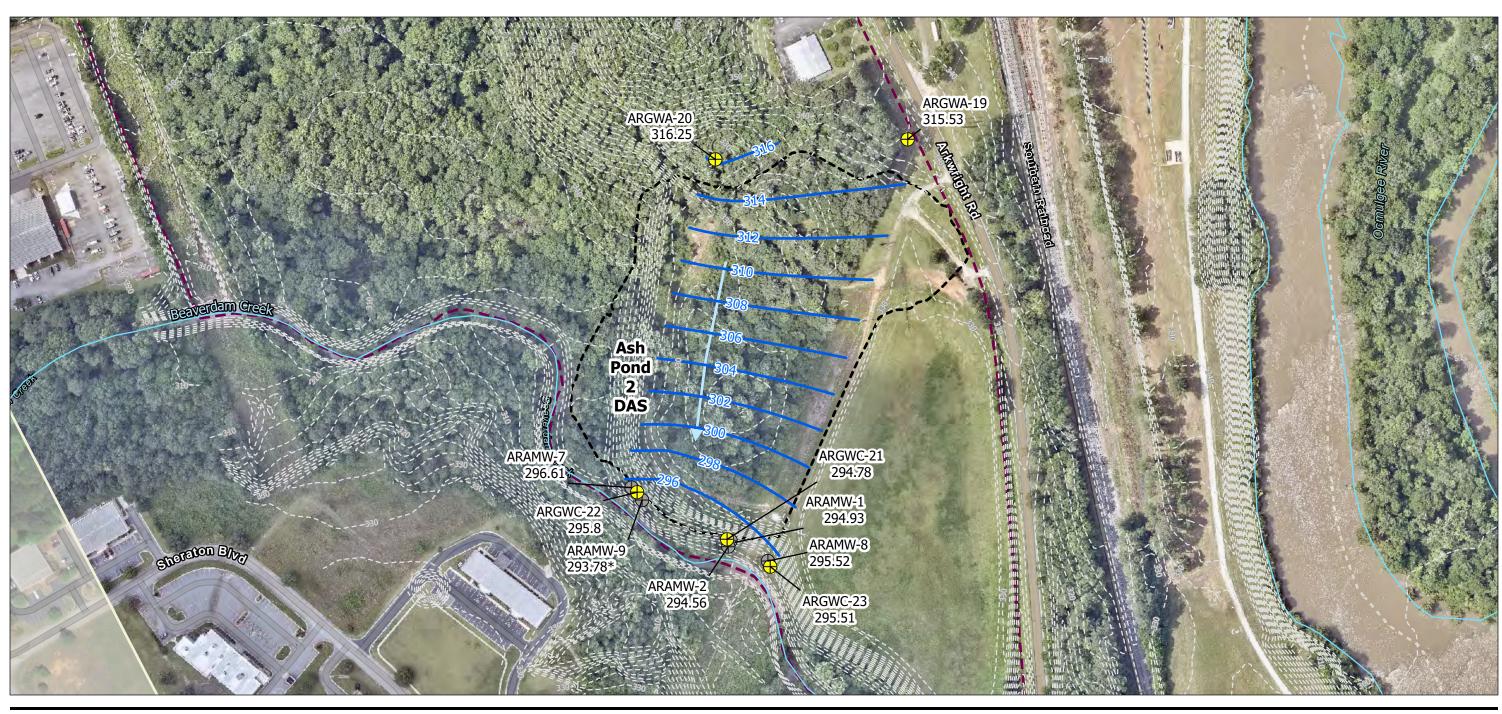
Prepared by DMB on 2/27/2024 TR by CS on 2/27/2024 IR by JK on 2/27/2024

Macon, Georgia

Project Location

Georgia Power 2023 Semi-Annual Groundwater Monitoring and Corrective Action Report - Plant Arkwright Ash Pond 2 Dry Ash Stockpile

Detection Monitoring Network Well,
Assessment Monitoring Well, and Sampling **Locations Map**





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 Comulgee River provided by Stantec

3. Background: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community, Esri, TomTom, Garmin, SafeGraph, FAO, METUNASA, USGS, EPA, NPS, US CHOSHWS, Esri Community Maps Contributors, © OpenStreetMap, Microsoft, Esri, TomTom, Garmin, SafeGraph, CeoTechnologies, Inc., METUNASA, USGS, EPA, NPS, US Census Bureau, ISRA 1ISRVS Plant Impacery provided by client and is dated 71/13/2023.

Detection Monitoring Well

Assessment Monitoring Well

Potentiometric Surface Contour Aug 2023 (ft NAVD88)

Interpreted Groundwater Flow Direction

Topographic Contour 2018 (2 ft interval)

Beaverdam Creek/Ocmulgee River (Approximate)

Approximate Property Boundary

Ash Pond 2 Dry Ash Stockpile (DAS) (approximate location)

Limit of Client Imagery (dated 7/13/2023)

295.51 Groundwater Elevation (ft NAVD88)

An "*" indicates groundwater elevation for ARAMW-9 was not used in contouring.



Stantec (At original document size of 11x17)



Project Location

Prepared by DMB on 1/8/2024 TR by CS on 1/8/2024 IR by JK on 1/8/2024

Georgia Power 2023 Semi-Annual Groundwater Monitoring and Corrective Action Report - Plant Arkwright Ash Pond 2 Dry Ash Stockpile

Potentiometric Surface Contour Map AP-2 DAS – August 7, 2023

Appendix A Well Inspections

MONITORING WELL INSPECTION CHECKLIST



Project Name:	Southern Company Arkwright				
Plant Name:	Plant Arkwright				
Plant Address:	5001 Arkwright Road, Macon, GA 31210				
Project Number:	175569434				
Goal/Task:	Hydrogeological investigation				
Date:	8/7/2023				
Monitoring Well No.:	ARAMW-1				
Priority Maintenance	Item Identified: N/A				

	Description	Yes	No	NA	Comments
1	Location/Identification				
а	Is the well visible and accessible?	Х			
b	Is the well properly identified with the correct well ID?	X			
С	Is the well in a high traffic area and does the well require protection from traffic?		Х		
d	is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Х			
2	Protective Casing				1
а	Is the protective casing free from apparent damage and able to be secured?	Х			
b	Is the casing free of degradation or deterioration?	Х			
С	Does the casing have a functioning weep hole?	Χ			
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	Х			
е	Is the well locked and is the lock in good condition?	Χ			
3	Surface pad				
а	Is the well pad in good condition (not cracked or broken)?	X			
b	Is the well pad sloped away from the protective casing?	X			
С	Is the well pad in complete contact with the protective casing?	X			
d	Is the well pad in complete contact with the ground surface and stable?(Not undermined by erosion, animal burrows, and does not move when stepped on).	Х			
е	Is the pad surface clean (not covered with sediment or debris)?	X			
					-
4	Internal casing				
а	Does the cap prevent entry of foreign material into the well?	X			
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	Х			
С	Is the well properly vented for equilibrium of air pressure?	X			
d	Is the survey point clearly marked on the inner casing?	Χ			
е	Is the depth of the well consistent with the original well log?	Χ			
f	Is the casing stable? (or does the PVC move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	Х			
5	Sampling (Groundwater Wells Only)				
а	Does well recharge adequately when purged?	Χ			
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	Х			
С	Does the well require redevelopment (low-flow, turbid)?		Х		
Ĭ	= = = = = = = = = = = = = = = = = = =				

Comments: Include inspection details, including items requiring repair or maintenance.

N/A

Prepared By / Date: John Myer 8/8/2023 DL/SME Review By / Date: Calli Provenza 8/16/2023



WONTOKING WELL INSPECTION CHECKEST						Stantec
Project Name: Southern Company Arkwright						
	Plant Name: Plant Arkwright					
	Plant Address: 5001 Arkwright Road, Macon, GA 31210					
	Project Number: 175569434					
	Goal/Task: Hydrogeological investigation				•	
					•	
	Date:	8/11/2023			_	
	Monitoring Well No.:	ARAMW-2				
	Priority Maintenance	Item Identified: N/A				
		Description	Yes	No	NA	Comments
	Location/Identificatio					
ì	Is the well visible and		Х			
)		entified with the correct well ID?	Х			
;	from traffic?	affic area and does the well require protection		Х		
ł		d the well acceptable? (no standing water, nor is us drainage flow path)		Х		
	Dratactive C!					
	Protective Casing		X			
1	secured?	ng free from apparent damage and able to be	^			
)		egradation or deterioration?	Х			
;		e a functioning weep hole?		Х		
ł	Is the annular space I	petween casings clear of debris and water, or filled		Х		
	with pea gravel/sand	?				
)	Is the well locked and	d is the lock in good condition?	Х			
	Cf			1		ı
5	Surface pad	d condition (not cracked or broken)?	х			
)		d away from the protective casing?	X			
;		rplete contact with the protective casing?	Х			
ł		plete contact with the ground surface and	Х			
		ned by erosion, animal burrows, and does not				
,	move when stepped	ean (not covered with sediment or debris)?	х			
_	is the pad surface cic	tall (lot covered with sediment of debits):		l	<u> </u>	1
	Internal casing					
a	Does the cap preven	t entry of foreign material into the well?	Х			
)	Is the casing free of ki objects (such as baile	inks or bends, or any obstructions from foreign ers)?	Х			
;		ented for equilibrium of air pressure?	Х			
ı	Is the survey point cle	arly marked on the inner casing?	х			
)		ell consistent with the original well log?	Х			
		or does the PVC move easily when touched or	х			
	can it be taken apart couplings in construc	by hand due to lack of grout or use of slip				
	pgs cc.istac	,	I	·	·	1
,	Sampling (Groundwa	ter Wells Only)				
ì	Does well recharge a	dequately when purged?	Х			
)		g equipment installed, is it in good condition and byed groundwater plan for the facility?			х	
		redevelopment (low-flow, turbid)?		Х		
	poes the well require	redevelopment (low-llow, turbia)?				
on	nments: Include insper	ction details, including items requiring repair or main	tenanc	e.		
		N/A				
or	parad By / Data	Houston Lynn 9/11/2022	_	_	_	

DL/SME Review By / Date: Calli Provenza 8/14/2023



Project Name:	Southern Company Arkwright					
Plant Name:	Plant Arkwright					
Plant Address:	5001 Arkwright Road, Macon, GA 31210					
Project Number:	175569434					
Goal/Task:	Hydrogeological investigation					
Date:	8/11/2023					
Monitoring Well No.:	ARAMW-7					
Priority Maintenance	Item Identified: N/A					

Description New Post No Nat Comments						
a is the well visible and accessible? b is the well properly identified with the correct well ID? c is the well properly identified with the correct well ID? x			Yes	No	NA	Comments
b is the well properly identified with the correct well ID? c is the well in a high traffic area and does the well require protection from traffic? d is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) 2 Protective Casing a is the protective casing free from apparent damage and able to be secured? b is the casing free of degradation or deterioration? c Does the casing have a functioning weep hole? b is the annular space between casings clear of debris and water, or filled with pea gravel/sand? c is the well locked and is the lock in good condition? 3 Surface pad a is the well pad in good condition (not cracked or broken)? b is the well pad in good condition (not cracked or broken)? c is the well pad in complete contact with the protective casing? b is the well pad in complete contact with the protective casing? c is the well pad in complete contact with the protective casing? d is the well pad in complete contact with the protective casing? b is the pad surface clean (not covered with sediment or debris)? 4 Internal casing Does the cap prevent entry of foreign material into the well? b is the cap properly vented for equilibrium of air pressure? c is the well properly vented for equilibrium of air pressure? d is the early properly vented for equilibrium of air pressure? d is the survey point clearly marked on the liner casing? x is the depth of the well consistent with the original well log? x is the depth of the well consistent with the original well log? x is the depth of the well consistent with the original well log? x is the depth of the well consistent with the original well log? x is the depth of the well consistent with the original well log? x is the depth of the well consistent with the original well log? x is the well properly vented for equilibrium of air pressure? x is the depth of the well consistent with the original well log? x is the well properly vented for equilibrium of air pressure? x is the well p						
c is the well in a high traffic area and does the well require protection from traffic? d is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) 2 Protective Casing a is the protective casing free from apparent damage and able to be secured? b is the casing free of degradation or deterioration? c Does the casing have a functioning weep hole? b is the casing have a functioning weep hole? c Does the casing have a functioning weep hole? d is the annular space between casings clear of debris and water, or filled with pea gravel/sand? e is the well locked and is the lock in good condition? 3 Surface pad a is the well pad in good condition (not cracked or broken)? b is the well pad sloped away from the protective casing? c is the well pad in complete contact with the protective casing? x b is the well pad in complete contact with the protective casing? d is the well pad in complete contact with the ground surface and stable?(Not undermined by erosion, animal burrows, and does not move when stepped on). e is the pad surface clean (not covered with sediment or debris)? 4 Internal casing Does the cap prevent entry of foreign material into the well? x b is the casing free of kinks or bends, or any obstructions from foreign objects (such as ballers)? 5 Is the well properly vented for equilibrium of air pressure? x b is the depth of the well constant with the original well log? x c is the well properly vented for equilibrium of air pressure? x b is the depth of the well constant with the original well log? x c is the well properly vented for equilibrium of air pressure? x b is the casing stable? (Or does the PVC move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) b if dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			Х			
from traffic? d is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) 2 Protective Casing a is the protective casing free from apparent damage and able to be secured? b is the casing free of degradation or deterioration? c Does the casing free of degradation or deterioration? c Does the casing have a functioning weep hole? d is the annular space between casings clear of debris and water, or filled with pea gravel/sand? e is the well locked and is the lock in good condition? x			Х			
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d Is the well pad in complete contact with the ground surface and stable? (Not undermined by erosion, animal burrows, and does not move when stepped on). e Is the pad surface clean (not covered with sediment or debris)? x	b	is the well pad sloped away from the protective casing?	Х			
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e Is the pad surface clean (not covered with sediment or debris)? 4 Internal casing a Does the cap prevent entry of foreign material into the well? b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? c Is the well properly vented for equilibrium of air pressure? d Is the survey point clearly marked on the inner casing? t Is the depth of the well consistent with the original well log? f Is the casing stable? (or does the PVC move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) 5 Sampling (Groundwater Wells Only) a Does well recharge adequately when purged? b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	d	stable?(Not undermined by erosion, animal burrows, and does not	Х			
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objects (such as ballers)? c Is the well properly vented for equilibrium of air pressure?	а	Does the cap prevent entry of foreign material into the well?	Х			
d Is the survey point clearly marked on the inner casing? x s the depth of the well consistent with the original well log? x s the casing stable? (or does the PVC move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) 5 Sampling (Groundwater Wells Only)	b		х			
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f Is the casing stable? (or does the PVC move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) 5 Sampling (Groundwater Wells Only) a Does well recharge adequately when purged? b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	d	Is the survey point clearly marked on the inner casing?	Х			
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a Does well recharge adequately when purged? x	f	can it be taken apart by hand due to lack of grout or use of slip	х			
a Does well recharge adequately when purged? b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?						
b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	5					
If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	а	Does well recharge adequately when purged?	Х			
	b				х	
c poes the well require redevelopment (low-flow, turbia)?	_					<u> </u>
	С	Does the well require redevelopment (low-flow, turbid)?		X		<u> </u>

Comments: Include inspection details, including items requiring repair or maintenance.

N/A

Prepared By / Date: Houston Lynn 8/11/2023 DL/SME Review By / Date: Calli Provenza 8/14/2023



WIGHTOKING WELL INSPECTION CHECKES						Stantec	
Project Name: Southern Company Arkwright							
	Plant Name: Plant Arkwright						
	Plant Address:	5001 Arkwright Road, Macon, GA 31210			•		
	Project Number:	175569434					
	Goal/Task: Hydrogeological investigation						
	Codi, rask.						
	Date:	8/9/2023					
	Monitoring Well No.:	ARAMW-8					
	Priority Maintenance I	Item Identified: N/A					
		-			•		
		Description	Yes	No	NA	Comments	
ı	Location/Identification		103	110	1473	Comments	
3	Is the well visible and	accessible?	Yes				
)	Is the well properly ide	entified with the correct well ID?	Yes				
3	Is the well in a high tra from traffic?	affic area and does the well require protection		No			
k		nd the well acceptable? (no standing water, nor is us drainage flow path)		No			
2	Protective Casing			<u> </u>			
3	Is the protective casin secured?	ng free from apparent damage and able to be	Yes				
)		legradation or deterioration?	Yes				
-		e a functioning weep hole?		<u> </u>	NA		
t	with pea gravel/sand		Yes				
€	Is the well locked and	d is the lock in good condition?	Yes	<u> </u>			
	0 1				1	1	
3	Surface pad	od condition (not cracked or broken)?	Yes	 			
)		d away from the protective casing?	Yes	+			
:		nplete contact with the protective casing?	Yes	1			
t	Is the well pad in com	nplete contact with the ground surface and	Yes				
	stable?(Not undermin move when stepped	ned by erosion, animal burrows, and does not					
9		ean (not covered with sediment or debris)?		No			
						•	
1	Internal casing						
3		t entry of foreign material into the well?	Yes	<u> </u>			
)	Is the casing free of ki objects (such as baile	inks or bends, or any obstructions from foreign ers)?	Yes				
)	Is the well properly ve	ented for equilibrium of air pressure?	Yes				
t		early marked on the inner casing?		No			
9		ell consistent with the original well log?		<u> </u>	NA		
		(or does the PVC move easily when touched or by hand due to lack of grout or use of slip	Yes				
	couplings in construct						
	Sampling (Groundwa	ter Walls Only)		T	1		
3		idequately when purged?		No	-	1	
)				1	NA		
		g equipment installed, is it in good condition and oved groundwater plan for the facility?					
2	Does the well require	redevelopment (low-flow, turbid)?		No			
or	nments: Include inspec	ction details, including items requiring repair or main	tonaro	``			
JI I	Mineries. Include inspection details, including items requiring repair or maintenance.						
or	arad By / Data	Dylan Binlay/9 0 2022					

Prepared By / Date: Dylan Ripley/8-9-2023
DL/SME Review By / Date: Calli Provenza 8/10/2023



Project Name:	Southern Company Arkwright				
Plant Name:	Plant Arkwright				
Plant Address:	5001 Arkwright Road, Macon, GA 31210				
Project Number:	175569434				
Goal/Task:	Hydrogeological investigation				
Date:	8/7/2023				
Monitoring Well No.:	ARAMW-9				
Priority Maintenance	Item Identified: N/A				

	Description	Yes	No	NA	Comments
1	Location/Identification				
а	Is the well visible and accessible?	Х			
b	Is the well properly identified with the correct well ID?	Χ			
C	Is the well in a high traffic area and does the well require protection from traffic?		Х		
d	is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Х			
2	Protective Casing			1	
а	Is the protective casing free from apparent damage and able to be secured?	Х			
b	Is the casing free of degradation or deterioration?	Х			
С	Does the casing have a functioning weep hole?	Χ			
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	Х			
е	Is the well locked and is the lock in good condition?	Х			
	<u> </u>				
3	Surface pad				
а	Is the well pad in good condition (not cracked or broken)?	X			
b	Is the well pad sloped away from the protective casing?	Х			
С	Is the well pad in complete contact with the protective casing?	X			
d	Is the well pad in complete contact with the ground surface and stable?(Not undermined by erosion, animal burrows, and does not move when stepped on).	Х			
е	Is the pad surface clean (not covered with sediment or debris)?	Χ			
4	Internal casing				
а	Does the cap prevent entry of foreign material into the well?	X			
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	Х			
С	Is the well properly vented for equilibrium of air pressure?	X			
d	Is the survey point clearly marked on the inner casing?	Χ			
е	Is the depth of the well consistent with the original well log?	Χ			
f	Is the casing stable? (or does the PVC move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	Х			
5	Sampling (Groundwater Wells Only)				
а	Does well recharge adequately when purged?		Х		
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	Х			
С	Does the well require redevelopment (low-flow, turbid)?	Х			
	to a construction of the control of the control of				

Comments: Include inspection details, including items requiring repair or maintenance.

N/A

Prepared By / Date: John Myer 8/8/2023 DL/SME Review By / Date: Calli Provenza 8/16/2023



Project Name:	Southern Company Arkwright					
Plant Name:	Plant Arkwright					
Plant Address:	5001 Arkwright Road, Macon, GA 31210					
Project Number:	175569434					
Goal/Task:	Hydrogeological investigation					
Date:	8/7/2023					
Monitoring Well No.:	ARGWA-19					
Priority Maintenance	Item Identified: N/A					

	Description	Yes	No	NA	Comments
1	Location/Identification				1
a	Is the well visible and accessible?	Х			
b	Is the well properly identified with the correct well ID?	Х			
С	Is the well in a high traffic area and does the well require protection from		Χ		
	traffic?				
d	Is the drainage around the well acceptable? (no standing water, nor is	Х			
	well located in obvious drainage flow path)				
2	Protective Casing				
а	Is the protective casing free from apparent damage and able to be secured?	Х			
b	Is the casing free of degradation or deterioration?	Х			
С	Does the casing have a functioning weep hole?	Х			
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	Х			
е	Is the well locked and is the lock in good condition?	Х			
				•	
3	Surface pad				
а	Is the well pad in good condition (not cracked or broken)?	Χ			
b	Is the well pad sloped away from the protective casing?	Х			
С	Is the well pad in complete contact with the protective casing?	Χ			
d	Is the well pad in complete contact with the ground surface and stable? (Not undermined by erosion, animal burrows, and does not move when stepped on).	X			
е	Is the pad surface clean (not covered with sediment or debris)?	Х			
4	Internal casing				
а	Does the cap prevent entry of foreign material into the well?	X			
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	Х			
С	Is the well properly vented for equilibrium of air pressure?	Χ			
d	Is the survey point clearly marked on the inner casing?	Χ			
е	Is the depth of the well consistent with the original well log?	Χ			
f	Is the casing stable? (or does the PVC move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	Х			
_	Commelling (Commenter Wells Only)			1	
5	Sampling (Groundwater Wells Only)	V			
a	Does well recharge adequately when purged?	X			
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	X			
С	Does the well require redevelopment (low-flow, turbid)?		Χ		

Comments: Include inspection details, including items requiring repair or maintenance.

N/A

Prepared By / Date: Dylan Quintal 8/8/2023

DL/SME Review By / Date: Calli Provenza 8/16/2023



Project Name:	Southern Company Arkwright				
Plant Name:	Plant Arkwright				
Plant Address:	5001 Arkwright Road, Macon, GA 31210				
Project Number:	175569434				
Goal/Task:	Hydrogeological investigation				
Date:	8/7/2023				
Monitoring Well No.:	ARGWA-20				
Priority Maintenance	Item Identified: N/A				

	Description	Yes	No	NA	Comments
1	Location/Identification				
а	Is the well visible and accessible?	Χ			
b	Is the well properly identified with the correct well ID?	Χ			
С	Is the well in a high traffic area and does the well require protection from traffic?		Х		
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Х			
2	Protective Casing				
а	Is the protective casing free from apparent damage and able to be secured?	Х			
b	Is the casing free of degradation or deterioration?	Х			
С	Does the casing have a functioning weep hole?	Χ			
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	Х			
е	Is the well locked and is the lock in good condition?	Х			
	· · · · · · · · · · · · · · · · · · ·				-
3	Surface pad				
а	Is the well pad in good condition (not cracked or broken)?	Х			
b	Is the well pad sloped away from the protective casing?	Х			
С	Is the well pad in complete contact with the protective casing?	Х			
d	Is the well pad in complete contact with the ground surface and stable? (Not undermined by erosion, animal burrows, and does not move when stepped on).	Х			
е	Is the pad surface clean (not covered with sediment or debris)?	Χ			
					1
4	Internal casing				
а	Does the cap prevent entry of foreign material into the well?	X			
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	Х			
С	Is the well properly vented for equilibrium of air pressure?	Х			
d	Is the survey point clearly marked on the inner casing?	Χ			
е	Is the depth of the well consistent with the original well log?	Χ			
f	Is the casing stable? (or does the PVC move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	Х			
	[-				T
5	Sampling (Groundwater Wells Only)				
а	Does well recharge adequately when purged?	X			
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	Х			
С	Does the well require redevelopment (low-flow, turbid)?		X		
	Does the well require redevelopment flow-now, torbid/4		^		

Comments: Include inspection details, including items requiring repair or maintenance.

N/A

Prepared By / Date: Dylan Quintal 8/8/2023
DL/SME Review By / Date: Calli Provenza 8/16/2023



		MONITORING WELLING ECTIO	IN CITE	CKLISI		Stantec
	Project Name:	Southern Company Arkwright				
	Plant Name:	Plant Arkwright		•		
	Plant Address:	5001 Arkwright Road, Macon, GA 31210			•	
	Project Number:	roject Number: 175569434				
	Goal/Task:	Hydrogeological investigation				
		8/7/2023				
	Date:					
	Monitoring Well No.:					
	Priority Maintenance	Item Identified: N/A			•	
		Description	Yes	No	NA	Comments
	Location/Identificatio		V		1	
	Is the well properly id	entified with the correct well ID?	X			-
:		affic area and does the well require protection	^	Х		
	from traffic?					
l		nd the well acceptable? (no standing water, nor is us drainage flow path)	Х			
_						
_	Protective Casing	ng free from apparent damage and able to be	Х			
	secured?	ig liee from apparent damage and able to be	^			
)		legradation or deterioration?	Х			
		a functioning weep hole?	Χ			
	with pea gravel/sand		Х			
	Is the well locked and	d is the lock in good condition?	Χ			
	Surface pad				1	T
		od condition (not cracked or broken)?	Х			
)		d away from the protective casing?	Χ			
		nplete contact with the protective casing?	Χ			
l		nplete contact with the ground surface and ned by erosion, animal burrows, and does not	Х			
		ean (not covered with sediment or debris)?	Х			
						-
	Internal casing					
ı		t entry of foreign material into the well?	X			
)	Is the casing free of ki objects (such as baile	inks or bends, or any obstructions from foreign	Х			
-		ented for equilibrium of air pressure?	Х			
		early marked on the inner casing?	Х			
	Is the depth of the we	ell consistent with the original well log?	Χ			
		(or does the PVC move easily when touched or	Χ			
	can it be taken apart couplings in construc	by hand due to lack of grout or use of sliption)				
		·				
,	Sampling (Groundwa					
1	Does well recharge o	adequately when purged?	X			
)		g equipment installed, is it in good condition and oved groundwater plan for the facility?	Х			
	Does the well require	redevelopment (low-flow, turbid)?		Х		
	anania lasturistis	otion dotails including items	tone			
or	mments: include inspe	ction details, including items requiring repair or main N/A	ienanc	e.		
		13/71				
=1	pared By / Date:	John Myer 8/9/2023				
. [,					

DL/SME Review By / Date: Calli Provenza 8/16/2023



						9
	Project Name:	Southern Company Arkwright				
	Plant Name:	Plant Arkwright			-	
	Plant Address:	5001 Arkwright Road, Macon, GA 31210			-	
		175569434			-	
	Troject Namber.				-	
	Goal/Task: Hydrogeological investigation				-	
	Date:	8/11/2023				
	Monitoring Well No.:	ARGWC-22			-	
	Priority Maintenance				-	
	Thomy Maintenance	tterri identified.			-	
		Description	Yes	No	NA	Comments
	Location/Identification			,		
	Is the well visible and		Х			
		entified with the correct well ID?	Х	╄		
3	is the well in a high tra from traffic?	affic area and does the well require protection		Х		
k		d the well acceptable? (no standing water, nor is us drainage flow path)		Х		
)	Protective Casing		1	1	1	Γ
		ng free from apparent damage and able to be	x	+		
	secured?	ig free from apparent damage and able to be	^			
)	Is the casing free of d	egradation or deterioration?	Х	1		
)		e a functioning weep hole?			Х	
t	Is the annular space to with pea gravel/sand	petween casings clear of debris and water, or filled	х			
9	, ,	d is the lock in good condition?	х	1		
	is the well leaked dire	and the teak in good condition.	^			
3	Surface pad			T		
3	Is the well pad in goo	d condition (not cracked or broken)?	Х	Ī		
)	Is the well pad sloped	d away from the protective casing?	Х			
)	Is the well pad in com	rplete contact with the protective casing?	Х			
b		nplete contact with the ground surface and	Х			
	stable?(Not undermine move when stepped	ned by erosion, animal burrows, and does not				
9		ean (not covered with sediment or debris)?	Х	1		
		,	•		•	•
1	Internal casing					
3	Does the cap preven	t entry of foreign material into the well?	Х			
)	Is the casing free of ki objects (such as baile	inks or bends, or any obstructions from foreign ers)?	Х			
	Is the well properly ve	ented for equilibrium of air pressure?	Х			
t		arly marked on the inner casing?	Х			
		ell consistent with the original well log?	Х			
f		(or does the PVC move easily when touched or by hand due to lack of grout or use of slip tion)	х			
5	Sampling (Groundwa				<u> </u>	
3	Does well recharge a	dequately when purged?	Х	—	ļ	
)		g equipment installed, is it in good condition and oved groundwater plan for the facility?			Х	
_	Doos the well re -::-	radayalanmant /law flaw turbid\2		- ·	1	1

Comments: Include inspection details, including items requiring repair or maintenance.

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Prepared By / Date: Houston Lynn 8/11/2023 DL/SME Review By / Date: Calli Provenza 8/14/2023



Project Name:	Southern Company Arkwright				
Plant Name:	Plant Arkwright				
Plant Address:	5001 Arkwright Road, Macon, GA 31210				
Project Number:	175569434				
Goal/Task:	Hydrogeological investigation				
Date:	8/11/2023				
Monitoring Well No.:	ARGWC-23				
Priority Maintenance	Item Identified: N/A				

	Description	Yes	No	NA	Comments
1	Location/Identification				
а	Is the well visible and accessible?	Х			
b	Is the well properly identified with the correct well ID?	Х			
С	Is the well in a high traffic area and does the well require protection		Х		
	from traffic?				
d	Is the drainage around the well acceptable? (no standing water, nor is		х		
	well located in obvious drainage flow path)				
2	Protective Casing				
а	Is the protective casing free from apparent damage and able to be secured?	Х			
1-					
	Is the casing free of degradation or deterioration?	Х			
	Does the casing have a functioning weep hole?			Х	
d	Is the annular space between casings clear of debris and water, or filled	Х			
	with pea gravel/sand?				
е	Is the well locked and is the lock in good condition?	Х			
3	Surface pad		1	1	I
	is the well pad in good condition (not cracked or broken)?	Х			
b	Is the well pad sloped away from the protective casing?	X		1	
	Is the well pad in complete contact with the protective casing?	X		1	
	Is the well pad in complete contact with the ground surface and	X			
_	stable?(Not undermined by erosion, animal burrows, and does not				
	move when stepped on).				
е	Is the pad surface clean (not covered with sediment or debris)?	Х			
					•
4	Internal casing				
а	Does the cap prevent entry of foreign material into the well?	Х			
b	Is the casing free of kinks or bends, or any obstructions from foreign	Х			
	objects (such as bailers)?				
С	Is the well properly vented for equilibrium of air pressure?	Х			
	Is the survey point clearly marked on the inner casing?	х			
	Is the depth of the well consistent with the original well log?	х			
f	Is the casing stable? (or does the PVC move easily when touched or	х			
	can it be taken apart by hand due to lack of grout or use of slip				
	couplings in construction)				
5	Sampling (Groundwater Wells Only)				
а	Does well recharge adequately when purged?	х			
b	If dedicated sampling equipment installed, is it in good condition and			Х	
	specified in the approved groundwater plan for the facility?				
			ļ	ļ	
С	Does the well require redevelopment (low-flow, turbid)?		Х		1

Comments: Include inspection details, including items requiring repair or maintenance.

N/A

Prepared By / Date: Houston Lynn 8/11/2023
DL/SME Review By / Date: Calli Provenza 8/14/2023

Appendix B Field Sampling Data and Analytical Data Reports

B.1 Well Redevelopment Logs

Test Date / Time: 7/25/2023 4:32:14 PM

Project: Arkwright

Operator Name: C. Powlus

Location Name: Arkwright, AP-2,

ARAMW-1

Latitude: 32.9213805080727 Longitude: -83.7021031603217

Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 34.9 ft Total Depth: 45.15 ft

Initial Depth to Water: 15.22 ft

Pump Type: Reclaimer Tubing Type: LDPE

Tubing Inner Diameter: 0.17 in

Tubing Length: 33 ft

Pump Intake From TOC: 40 ft Estimated Total Volume Pumped:

16625 ml

Flow Cell Volume: 90 ml Final Flow Rate: 250 ml/min Final Draw Down: -0.82 ft Instrument Used: Aqua TROLL 400

Serial Number: 884187

Test Notes:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.33	
7/25/2023 4:32 PM	00:00	6.09 pH	20.89 °C	764.67 μS/cm	1.31 mg/L	13.60 NTU	82.3 mV	15.22 ft	250.00 ml/min
7/25/2023 4:38 PM	06:30	6.11 pH	23.35 °C	766.22 μS/cm	2.74 mg/L	12.00 NTU	83.4 mV	14.75 ft	250.00 ml/min
7/25/2023 4:42 PM	10:30	6.28 pH	22.17 °C	732.16 µS/cm	4.23 mg/L	10.30 NTU	59.1 mV	14.43 ft	250.00 ml/min
7/25/2023 4:46 PM	14:30	6.07 pH	20.76 °C	748.55 μS/cm	1.59 mg/L	9.73 NTU	81.5 mV	14.34 ft	250.00 ml/min
7/25/2023 4:50 PM	18:30	6.06 pH	19.83 °C	758.31 μS/cm	1.16 mg/L	8.76 NTU	81.6 mV	14.33 ft	250.00 ml/min
7/25/2023 4:54 PM	22:30	6.05 pH	19.96 °C	758.86 μS/cm	1.11 mg/L	33.70 NTU	80.8 mV	14.30 ft	250.00 ml/min
7/25/2023 4:58 PM	26:30	6.05 pH	19.69 °C	757.14 μS/cm	0.98 mg/L	99.00 NTU	76.1 mV	14.40 ft	250.00 ml/min
7/25/2023 5:02 PM	30:30	6.03 pH	19.60 °C	754.55 μS/cm	0.83 mg/L	9.64 NTU	79.7 mV	14.40 ft	250.00 ml/min
7/25/2023 5:06 PM	34:30	6.02 pH	19.61 °C	754.09 μS/cm	0.75 mg/L	9.41 NTU	80.6 mV	14.40 ft	250.00 ml/min
7/25/2023 5:10 PM	38:30	6.01 pH	19.62 °C	756.02 μS/cm	0.64 mg/L	9.46 NTU	81.2 mV	14.40 ft	250.00 ml/min
7/25/2023 5:14 PM	42:30	5.99 pH	19.95 °C	757.16 μS/cm	0.59 mg/L	33.70 NTU	81.2 mV	14.40 ft	250.00 ml/min
7/25/2023 5:18 PM	46:30	5.98 pH	19.64 °C	755.61 µS/cm	0.56 mg/L	38.40 NTU	75.6 mV	14.40 ft	250.00 ml/min
7/25/2023 5:22 PM	50:30	5.96 pH	19.60 °C	751.40 μS/cm	0.47 mg/L	35.60 NTU	79.6 mV	14.40 ft	250.00 ml/min
7/25/2023 5:26 PM	54:30	5.95 pH	19.55 °C	750.79 μS/cm	0.37 mg/L	12.30 NTU	81.0 mV	14.40 ft	250.00 ml/min

7/25/2023	F0.20	58:30 5.94 pH	19.51 °C	752.17 µS/cm	0.35 mg/L	4.47 NTU	81.0 mV	14.40 ft	250.00 ml/min
5:30 PM	36.30	5.94 pn	19.51 C	752.17 μ5/011	0.35 Hig/L	4.47 NTO	61.01110	14.40 11	250.00 111/111111
7/25/2023	01:02:20	E 02 nU	19.57 °C	753.52 µS/cm	0.30 mg/L	4.67 NTU	80.8 mV	14.40 ft	250.00 ml/min
5:34 PM	01:02:30	5.93 pH	19.57	755.52 µ5/cm	0.30 mg/L	4.67 NTU	00.0 1110	14.40 11	250.00 mi/min
7/25/2023	01:06:30	5.92 pH	19.62 °C	753.40 µS/cm	0.30 mg/L	4.77 NTU	81.7 mV	14.40 ft	250.00 ml/min
5:38 PM	01.00.30	5.92 pm	19.02 C	755.40 μ5/611	0.30 Hig/L	4.77 NTO	01.7 1110	14.40 11	250.00 111/111111

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

Test Date / Time: 7/26/2023 10:57:50 AM

Project: Arkwright

Operator Name: C. Powlus

Location Name: Arkwright, AP-2,

AWGWA-20

Latitude: 32.9235858171567

Longitude: -83.7022553756833

Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 27.7 ft Total Depth: 37.7 ft

Initial Depth to Water: 19.03 ft

Pump Type: Reclaimer Tubing Type: LDPE

Tubing Inner Diameter: 0.17 in

Tubing Length: 33 ft

Pump Intake From TOC: 32.7 ft Estimated Total Volume Pumped:

129408.336 ml

Flow Cell Volume: 90 ml Final Flow Rate: 500 ml/min Final Draw Down: 1.42 ft Instrument Used: Aqua TROLL 400

Serial Number: 884187

Test Notes:

Weather Conditions:

Hot

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.33	
7/26/2023 10:57 AM	00:00	5.83 pH	19.07 °C	151.93 μS/cm	5.44 mg/L		158.8 mV	19.65 ft	500.00 ml/min
7/26/2023 11:02 AM	05:00	5.73 pH	18.98 °C	149.97 μS/cm	5.55 mg/L	178.00 NTU	140.7 mV	19.74 ft	500.00 ml/min
7/26/2023 11:07 AM	10:00	5.70 pH	18.89 °C	149.60 μS/cm	5.63 mg/L	90.30 NTU	138.0 mV	19.84 ft	500.00 ml/min
7/26/2023 11:12 AM	15:00	5.68 pH	18.83 °C	152.04 μS/cm	5.49 mg/L	323.00 NTU	176.7 mV	19.98 ft	500.00 ml/min
7/26/2023 11:17 AM	20:00	5.67 pH	18.89 °C	151.26 μS/cm	5.50 mg/L	297.00 NTU	175.2 mV	20.18 ft	500.00 ml/min
7/26/2023 11:22 AM	25:00	5.64 pH	18.90 °C	151.15 μS/cm	5.49 mg/L	186.00 NTU	175.3 mV	20.20 ft	500.00 ml/min
7/26/2023 11:27 AM	30:00	5.62 pH	18.84 °C	151.70 μS/cm	5.61 mg/L	138.00 NTU	174.8 mV	20.22 ft	500.00 ml/min
7/26/2023 11:32 AM	35:00	5.61 pH	18.89 °C	152.16 μS/cm	5.62 mg/L	98.40 NTU	131.0 mV	20.25 ft	500.00 ml/min
7/26/2023 11:37 AM	40:00	5.59 pH	18.84 °C	152.27 μS/cm	5.66 mg/L	72.30 NTU	129.8 mV	20.28 ft	500.00 ml/min
7/26/2023 11:42 AM	45:00	5.56 pH	18.98 °C	152.45 μS/cm	5.65 mg/L	67.20 NTU	134.4 mV	20.32 ft	500.00 ml/min
7/26/2023 11:47 AM	50:00	5.56 pH	18.89 °C	152.53 μS/cm	5.62 mg/L	52.90 NTU	121.7 mV	20.36 ft	500.00 ml/min
7/26/2023 12:02 PM	01:04:12	5.51 pH	18.98 °C	152.28 μS/cm	5.61 mg/L	46.00 NTU	182.6 mV	20.40 ft	500.00 ml/min

						1			1
7/26/2023 12:07 PM	01:09:12	5.50 pH	19.11 °C	152.95 μS/cm	5.60 mg/L	102.50 NTU	137.2 mV	20.47 ft	500.00 ml/min
7/26/2023 12:12 PM	01:14:12	5.48 pH	19.17 °C	150.94 μS/cm	5.48 mg/L	76.90 NTU	178.2 mV	20.54 ft	500.00 ml/min
7/26/2023 12:17 PM	01:19:12	5.49 pH	19.09 °C	152.24 μS/cm	5.51 mg/L	56.10 NTU	133.9 mV	20.60 ft	500.00 ml/min
7/26/2023 12:22 PM	01:24:12	5.49 pH	19.06 °C	152.47 μS/cm	5.54 mg/L	43.20 NTU	174.0 mV	20.70 ft	500.00 ml/min
7/26/2023 12:27 PM	01:29:12	5.48 pH	19.09 °C	152.78 μS/cm	5.56 mg/L	21.40 NTU	133.5 mV	20.80 ft	500.00 ml/min
7/26/2023 12:32 PM	01:34:12	5.49 pH	19.15 °C	152.45 μS/cm	5.60 mg/L	14.50 NTU	132.3 mV	20.90 ft	500.00 ml/min
7/26/2023 12:37 PM	01:39:12	5.49 pH	19.24 °C	153.41 μS/cm	5.60 mg/L	18.80 NTU	134.2 mV	20.96 ft	500.00 ml/min
7/26/2023 12:42 PM	01:44:12	5.42 pH	19.02 °C	145.69 μS/cm	5.54 mg/L	318.00 NTU	173.5 mV	21.02 ft	500.00 ml/min
7/26/2023 12:43 PM	01:45:40	5.44 pH	19.02 °C	148.50 μS/cm	5.48 mg/L	552.00 NTU	146.4 mV	21.04 ft	500.00 ml/min
7/26/2023 12:48 PM	01:50:53	5.46 pH	19.03 °C	151.06 μS/cm	5.50 mg/L	314.00 NTU	149.6 mV	21.06 ft	500.00 ml/min
7/26/2023 12:53 PM	01:55:53	5.48 pH	19.12 °C	151.98 μS/cm	5.52 mg/L	264.00 NTU	171.7 mV	21.08 ft	500.00 ml/min
7/26/2023 12:58 PM	02:00:53	5.49 pH	19.10 °C	153.09 μS/cm	5.51 mg/L	135.00 NTU	130.3 mV	21.10 ft	500.00 ml/min
7/26/2023 1:03 PM	02:05:53	5.50 pH	19.20 °C	153.00 μS/cm	5.50 mg/L	84.30 NTU	129.7 mV	21.15 ft	500.00 ml/min
7/26/2023 1:08 PM	02:10:53	5.50 pH	19.17 °C	152.30 μS/cm	5.49 mg/L	63.20 NTU	129.2 mV	21.10 ft	500.00 ml/min
7/26/2023 1:13 PM	02:15:53	5.50 pH	19.05 °C	152.50 μS/cm	5.47 mg/L	54.10 NTU	133.3 mV	21.05 ft	500.00 ml/min
7/26/2023 1:18 PM	02:20:53	5.49 pH	18.98 °C	151.18 μS/cm	5.46 mg/L	49.80 NTU	128.8 mV	21.00 ft	500.00 ml/min
7/26/2023 1:23 PM	02:25:53	5.52 pH	18.97 °C	152.79 μS/cm	5.58 mg/L	44.10 NTU	129.3 mV	20.70 ft	500.00 ml/min
7/26/2023 1:28 PM	02:30:53	5.52 pH	18.93 °C	152.09 μS/cm	5.49 mg/L	43.20 NTU	128.0 mV	20.65 ft	500.00 ml/min
7/26/2023 1:33 PM	02:35:53	5.52 pH	19.12 °C	152.78 μS/cm	5.52 mg/L	35.70 NTU	127.9 mV	20.60 ft	500.00 ml/min
7/26/2023 1:38 PM	02:40:53	5.53 pH	19.15 °C	152.30 μS/cm	5.53 mg/L	31.20 NTU	119.4 mV	20.55 ft	500.00 ml/min
7/26/2023 1:43 PM	02:45:53	5.53 pH	19.28 °C	152.35 μS/cm	5.56 mg/L	26.60 NTU	165.6 mV	20.50 ft	500.00 ml/min
7/26/2023 2:11 PM	03:13:49	5.59 pH	19.15 °C	152.77 μS/cm	5.50 mg/L	15.70 NTU	188.4 mV	20.45 ft	500.00 ml/min
7/26/2023 2:16 PM	03:18:49	5.59 pH	19.06 °C	152.59 μS/cm	5.49 mg/L	12.50 NTU	142.4 mV	20.45 ft	500.00 ml/min
7/26/2023 2:21 PM	03:23:49	5.60 pH	19.28 °C	153.09 μS/cm	5.48 mg/L	10.10 NTU	134.6 mV	20.45 ft	500.00 ml/min
7/26/2023 2:26 PM	03:28:49	5.61 pH	19.20 °C	152.84 μS/cm	5.53 mg/L	8.83 NTU	132.5 mV	20.45 ft	500.00 ml/min
7/26/2023 2:31 PM	03:33:49	5.61 pH	19.11 °C	151.88 μS/cm	5.52 mg/L	7.90 NTU	131.7 mV	20.45 ft	500.00 ml/min
7/26/2023 2:36 PM	03:38:49	5.62 pH	19.29 °C	152.98 μS/cm	5.53 mg/L	7.50 NTU	130.8 mV	20.45 ft	500.00 ml/min
7/26/2023 2:41 PM	03:43:49	5.63 pH	19.33 °C	153.21 μS/cm	5.52 mg/L	7.23 NTU	130.3 mV	20.45 ft	500.00 ml/min
7/26/2023 2:46 PM	03:48:49	5.64 pH	19.37 °C	153.25 μS/cm	5.52 mg/L	6.11 NTU	129.7 mV	20.45 ft	500.00 ml/min

7/26/2023 2:51 PM	03:53:49	5.66 pH	19.50 °C	153.62 μS/cm	5.48 mg/L	6.02 NTU	124.6 mV	20.45 ft	500.00 ml/min
7/26/2023 2:56 PM	03:58:49	5.66 pH	19.42 °C	153.38 μS/cm	5.48 mg/L	5.76 NTU	127.5 mV	20.45 ft	500.00 ml/min
7/26/2023 3:01 PM	04:03:49	5.66 pH	19.33 °C	153.02 μS/cm	5.50 mg/L	5.17 NTU	128.6 mV	20.45 ft	500.00 ml/min
7/26/2023 3:06 PM	04:08:49	5.67 pH	19.53 °C	153.85 µS/cm	5.51 mg/L	4.92 NTU	124.3 mV	20.45 ft	500.00 ml/min
7/26/2023 3:11 PM	04:13:49	5.68 pH	19.51 °C	153.28 μS/cm	5.50 mg/L	3.85 NTU	123.9 mV	20.45 ft	500.00 ml/min
7/26/2023 3:16 PM	04:18:49	5.68 pH	19.79 °C	153.59 μS/cm	5.49 mg/L	3.16 NTU	124.8 mV	20.45 ft	500.00 ml/min

Sample ID:

Test Date / Time: 7/24/2023 3:05:52 PM

Project: Arkwright

Operator Name: Dylan Quintal

Location Name: Arkwright, AP-2,

ARGWC-22

Latitude: 32.9217536921101 Longitude: -83.7028370797634

Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 17.71 ft Total Depth: 27.71 ft

Initial Depth to Water: 14.26 ft

Pump Type: Reclaimer Tubing Type: LDPE

Pump Intake From TOC: 22.71 ft Estimated Total Volume Pumped:

47519.168 ml

Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.35 ft Instrument Used: Aqua TROLL 400

Serial Number: 966090

Test Notes:

Weather Conditions:

Sunny, 92F

LOW-I IOW IN									
Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.33	
7/24/2023 3:05 PM	00:00	5.69 pH	19.02 °C	1,341.4 μS/cm	0.74 mg/L		53.5 mV	14.26 ft	450.00 ml/min
7/24/2023 3:06 PM	00:27	5.70 pH	19.02 °C	1,366.0 μS/cm	0.76 mg/L		55.1 mV	14.26 ft	450.00 ml/min
7/24/2023 3:06 PM	00:59	5.70 pH	19.01 °C	1,371.4 μS/cm	0.77 mg/L		49.4 mV	14.26 ft	450.00 ml/min
7/24/2023 3:11 PM	05:59	5.72 pH	19.37 °C	1,377.9 μS/cm	0.71 mg/L		46.9 mV	14.26 ft	450.00 ml/min
7/24/2023 3:16 PM	10:59	5.77 pH	18.97 °C	1,359.4 μS/cm	0.59 mg/L		38.5 mV	14.26 ft	450.00 ml/min
7/24/2023 3:21 PM	15:59	5.70 pH	18.87 °C	1,390.7 μS/cm	0.26 mg/L		47.7 mV	14.26 ft	450.00 ml/min
7/24/2023 3:26 PM	20:59	5.71 pH	18.96 °C	1,377.7 μS/cm	0.52 mg/L		48.1 mV	14.26 ft	450.00 ml/min
7/24/2023 3:31 PM	25:59	5.70 pH	18.82 °C	1,384.9 μS/cm	0.49 mg/L		51.3 mV	14.26 ft	450.00 ml/min
7/24/2023 3:36 PM	30:59	5.74 pH	18.82 °C	1,377.3 μS/cm	0.88 mg/L		49.1 mV	14.26 ft	450.00 ml/min
7/24/2023 3:41 PM	35:59	5.76 pH	18.95 °C	1,379.4 μS/cm	0.67 mg/L		42.8 mV	14.26 ft	450.00 ml/min
7/24/2023 3:46 PM	40:59	5.73 pH	19.14 °C	1,392.4 μS/cm	0.51 mg/L		44.2 mV	14.26 ft	450.00 ml/min
7/24/2023 3:51 PM	45:59	5.70 pH	18.82 °C	1,405.2 μS/cm	0.56 mg/L		49.0 mV	14.26 ft	450.00 ml/min

7/24/2023	50.50	5.70 11	40.75.00	1,402.5	0.00 #		47.4 \	44006	450.00 1/ :
3:56 PM	50:59	5.73 pH	18.75 °C	μS/cm	0.63 mg/L		47.1 mV	14.26 ft	450.00 ml/min
7/24/2023	55:59	5.73 pH	18.60 °C	1,396.1	0.93 mg/L		45.9 mV	14.26 ft	450.00 ml/min
4:01 PM	33.39	3.73 pm	18.00 C	μS/cm	0.93 Hig/L		45.9 1110	14.20 11	450.00 1111/111111
7/24/2023	01:00:59	5.73 pH	18.45 °C	1,406.1	0.41 mg/L		45.5 mV	14.26 ft	450.00 ml/min
4:06 PM	0.100.00	5.75 p. 1		μS/cm				5	100100 11111111111
7/24/2023	01:05:59	5.75 pH	18.37 °C	1,395.2	0.58 mg/L		42.4 mV	14.26 ft	450.00 ml/min
4:11 PM		•		μS/cm					
7/24/2023	01:10:59	5.80 pH	18.68 °C	1,394.8	4.09 mg/L		43.2 mV	14.26 ft	450.00 ml/min
4:16 PM 7/24/2023				μS/cm					
4:21 PM	01:15:59	6.42 pH	18.26 °C	942.96 μS/cm	6.21 mg/L		12.7 mV	14.26 ft	450.00 ml/min
7/24/2023				1,394.3					
4:26 PM	01:20:59	5.75 pH	18.49 °C	µS/cm	0.48 mg/L		52.3 mV	14.26 ft	450.00 ml/min
7/24/2023			_	1,397.3	_				
4:31 PM	01:25:59	5.81 pH	18.74 °C	μS/cm	3.15 mg/L		44.6 mV	14.26 ft	450.00 ml/min
7/24/2023	04.00.50	5.74 -11	40.00.00	1,402.8	4.00		50.0\/	44.00.0	450.00
4:36 PM	01:30:59	5.74 pH	19.60 °C	μS/cm	1.60 mg/L		52.9 mV	14.26 ft	450.00 ml/min
7/24/2023	01:35:59	5.70 pH	20.47 °C	1,415.6	1.44 mg/L	13.60 NTU	53.7 mV	14.26 ft	200.00 ml/min
4:41 PM	01.55.59	3.70 pm	20.47 C	μS/cm	1.44 mg/L	13.00 1410	55.7 IIIV	14.20 11	200.00 111/111111
7/24/2023	01:40:59	5.70 pH	20.43 °C	1,418.0	1.34 mg/L	11.50 NTU	54.2 mV	14.26 ft	200.00 ml/min
4:46 PM	01.40.00	0.70 pm	20.40 0	μS/cm	1.04 mg/L	11.001410	04.2 1111	14.2011	200.00 111/111111
7/24/2023	01:45:59	5.70 pH	20.63 °C	1,420.0	1.25 mg/L	9.74 NTU	53.1 mV	14.26 ft	200.00 ml/min
4:51 PM	01110100	ол о р	20.00	μS/cm	g, _	511 1111 5	00111111	5	200100 1111,111111
7/24/2023	01:50:59	5.70 pH	20.57 °C	1,416.9	1.19 mg/L	9.85 NTU	53.0 mV	14.26 ft	200.00 ml/min
4:56 PM				μS/cm					
7/24/2023	01:55:59	5.70 pH	20.63 °C	1,415.7	1.15 mg/L	8.84 NTU	52.6 mV	14.26 ft	200.00 ml/min
5:01 PM				μS/cm					
7/24/2023	01:57:37	5.70 pH	20.60 °C	1,410.9	1.12 mg/L	8.55 NTU	55.4 mV	14.26 ft	200.00 ml/min
5:03 PM				μS/cm					

Sample ID:	Description:
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Test Date / Time: 7/24/2023 4:54:13 PM

Project: Arkwright

Operator Name: A. Shoredits

Location Name: Arkwright,

AP2-ARAMW-7

Well Diameter: 2 in **Casing Type: PVC** Screen Length: 10 ft Top of Screen: 40.3 ft Total Depth: 50.78 ft

Initial Depth to Water: 13.35 ft

Pump Type: Reclaimer

Tubing Type: LDPE

Pump Intake From TOC: 45 ft **Estimated Total Volume Pumped:**

8750 ml

Flow Cell Volume: 90 ml

Final Flow Rate: 350 ml/min Final

Draw Down: 0.69 ft

Instrument Used: Aqua TROLL 400

Serial Number: 843593

Test Notes:

Parameters taken post purging around 70-72 Liters and lowering purge rate from 650 ml/min to 350 ml/min.

Weather Conditions:

Sunny, 33 degrees C

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 0.2	+/- 10	+/- 20	+/- 0.3	
7/24/2023 4:54 PM	00:00	5.50 pH	20.05 °C	1,723.6 μS/cm	0.16 mg/L	20.30 NTU	37.9 mV	14.04 ft	350.00 ml/min
7/24/2023 4:59 PM	05:00	5.50 pH	20.09 °C	1,731.6 μS/cm	0.10 mg/L	14.30 NTU	37.7 mV	14.01 ft	350.00 ml/min
7/24/2023 5:04 PM	10:00	5.49 pH	20.14 °C	1,731.1 μS/cm	0.09 mg/L	10.20 NTU	37.7 mV	13.96 ft	350.00 ml/min
7/24/2023 5:09 PM	15:00	5.50 pH	20.13 °C	1,737.7 μS/cm	0.08 mg/L	8.49 NTU	37.1 mV	13.97 ft	350.00 ml/min
7/24/2023 5:14 PM	20:00	5.49 pH	20.08 °C	1,735.2 μS/cm	0.09 mg/L	8.91 NTU	37.2 mV	13.97 ft	350.00 ml/min
7/24/2023 5:19 PM	25:00	5.49 pH	20.13 °C	1,739.6 μS/cm	0.11 mg/L	7.92 NTU	36.8 mV	13.94 ft	350.00 ml/min

Samples

	Sample ID:	Description:
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Test Date / Time: 7/25/2023 1:10:56 PM

Project: Arkwright

Operator Name: B. Pennell

Location Name: Arkwright, AP-2,

ARAMW-2

Latitude: 32.9214114660844 Longitude: -83.7021614983678

Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 14.82 ft Total Depth: 24.78 ft

Initial Depth to Water: 13.84 ft

Pump Type: Reclaimer Pump

Tubing Type: LDPE

Tubing Inner Diameter: 0.375 in

Tubing Length: 30 ft

Pump Intake From TOC: 20 ft Estimated Total Volume Pumped:

130500 ml

Flow Cell Volume: 90 ml Final Flow Rate: 450 ml/min Final Draw Down: 0.06 ft Instrument Used: Aqua TROLL 400

Serial Number: 850751

Test Notes:

Well redevelopment

Controller settings: CPM4 ID: 98, PSI: 18

Weather Conditions:

Mostly sunny, 33 C

LOW I TOW IX	ouugo.								
Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.33	
7/25/2023 1:10 PM	00:00	6.04 pH	22.50 °C	711.14 μS/cm	1.31 mg/L	1,000.00 NTU	37.4 mV	13.90 ft	450.00 ml/min
7/25/2023 1:15 PM	05:00	6.02 pH	21.33 °C	729.00 μS/cm	1.00 mg/L	964.00 NTU	19.3 mV	13.90 ft	450.00 ml/min
7/25/2023 1:20 PM	10:00	6.01 pH	20.94 °C	729.79 µS/cm	0.56 mg/L	1,000.00 NTU	19.2 mV	13.90 ft	450.00 ml/min
7/25/2023 1:25 PM	15:00	6.00 pH	21.30 °C	739.78 µS/cm	0.34 mg/L	932.00 NTU	18.4 mV	13.90 ft	450.00 ml/min
7/25/2023 1:30 PM	20:00	6.02 pH	21.36 °C	757.24 μS/cm	0.66 mg/L	1,000.00 NTU	5.7 mV	13.90 ft	450.00 ml/min
7/25/2023 1:35 PM	25:00	6.02 pH	21.24 °C	765.20 μS/cm	0.55 mg/L	962.00 NTU	6.9 mV	13.90 ft	450.00 ml/min
7/25/2023 1:40 PM	30:00	6.02 pH	20.98 °C	775.65 μS/cm	0.40 mg/L	852.00 NTU	-3.7 mV	13.90 ft	450.00 ml/min
7/25/2023 1:45 PM	35:00	6.01 pH	21.25 °C	776.68 μS/cm	0.16 mg/L	570.00 NTU	-1.5 mV	13.90 ft	450.00 ml/min
7/25/2023 1:50 PM	40:00	6.02 pH	21.03 °C	791.03 μS/cm	0.23 mg/L	291.00 NTU	-6.1 mV	13.90 ft	450.00 ml/min
7/25/2023 1:55 PM	45:00	6.02 pH	21.31 °C	788.75 μS/cm	0.17 mg/L	866.00 NTU	-4.3 mV	13.90 ft	450.00 ml/min
7/25/2023 2:00 PM	50:00	6.03 pH	21.22 °C	801.13 μS/cm	0.11 mg/L	545.00 NTU	-10.3 mV	13.90 ft	450.00 ml/min

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7/25/2023 2:05 PM	55:00	6.04 pH	21.06 °C	813.02 μS/cm	0.15 mg/L	312.00 NTU	-16.3 mV	13.90 ft	450.00 ml/min
7/25/2023 2:10 PM	01:00:00	6.04 pH	21.09 °C	818.16 μS/cm	0.16 mg/L	213.00 NTU	-15.8 mV	13.90 ft	450.00 ml/min
7/25/2023 2:15 PM	01:05:00	6.04 pH	20.93 °C	821.60 μS/cm	0.30 mg/L	149.00 NTU	-13.2 mV	13.90 ft	450.00 ml/min
7/25/2023 2:20 PM	01:10:00	6.05 pH	20.86 °C	825.60 μS/cm	0.24 mg/L	115.00 NTU	-13.1 mV	13.90 ft	450.00 ml/min
7/25/2023 2:25 PM	01:15:00	6.04 pH	20.73 °C	821.86 μS/cm	0.29 mg/L	1,000.00 NTU	-12.1 mV	13.90 ft	450.00 ml/min
7/25/2023 2:30 PM	01:20:00	6.05 pH	20.53 °C	828.85 µS/cm	0.27 mg/L	1,000.00 NTU	-2.4 mV	13.90 ft	450.00 ml/min
7/25/2023 2:35 PM	01:25:00	6.06 pH	20.43 °C	834.89 µS/cm	0.40 mg/L	407.00 NTU	-13.2 mV	13.90 ft	450.00 ml/min
7/25/2023 2:40 PM	01:30:00	6.07 pH	20.45 °C	867.78 μS/cm	0.37 mg/L	151.00 NTU	-14.6 mV	13.90 ft	450.00 ml/min
7/25/2023 2:45 PM	01:35:00	6.08 pH	20.40 °C	876.95 μS/cm	0.35 mg/L	1,000.00 NTU	-15.7 mV	13.90 ft	450.00 ml/min
7/25/2023 2:50 PM	01:40:00	6.07 pH	20.34 °C	873.75 μS/cm	0.30 mg/L	730.00 NTU	-15.2 mV	13.90 ft	450.00 ml/min
7/25/2023 2:55 PM	01:45:00	6.08 pH	20.26 °C	887.32 μS/cm	0.35 mg/L	246.00 NTU	-18.5 mV	13.90 ft	450.00 ml/min
7/25/2023 3:00 PM	01:50:00	6.08 pH	20.37 °C	896.32 μS/cm	0.38 mg/L	1,000.00 NTU	-18.4 mV	13.90 ft	450.00 ml/min
7/25/2023 3:05 PM	01:55:00	6.07 pH	20.21 °C	881.12 μS/cm	0.28 mg/L	540.00 NTU	-16.2 mV	13.90 ft	450.00 ml/min
7/25/2023 3:10 PM	02:00:00	6.08 pH	20.17 °C	889.67 μS/cm	0.35 mg/L	143.00 NTU	-7.5 mV	13.90 ft	450.00 ml/min
7/25/2023 3:15 PM	02:05:00	6.09 pH	20.16 °C	906.31 μS/cm	0.33 mg/L	130.00 NTU	-19.4 mV	13.90 ft	450.00 ml/min
7/25/2023 3:20 PM	02:10:00	6.09 pH	20.19 °C	906.05 μS/cm	0.41 mg/L	79.20 NTU	-7.2 mV	13.90 ft	450.00 ml/min
7/25/2023 3:25 PM	02:15:00	6.09 pH	20.17 °C	908.66 μS/cm	0.34 mg/L	44.20 NTU	-17.9 mV	13.90 ft	450.00 ml/min
7/25/2023 3:30 PM	02:20:00	6.08 pH	20.18 °C	878.42 μS/cm	0.29 mg/L	1,000.00 NTU	-15.9 mV	13.90 ft	450.00 ml/min
7/25/2023 3:35 PM	02:25:00	6.08 pH	20.15 °C	892.56 μS/cm	0.26 mg/L	1,000.00 NTU	-16.9 mV	13.90 ft	450.00 ml/min
7/25/2023 3:40 PM	02:30:00	6.09 pH	20.17 °C	902.51 μS/cm	0.40 mg/L	342.00 NTU	-19.3 mV	13.90 ft	450.00 ml/min
7/25/2023 3:45 PM	02:35:00	6.10 pH	20.22 °C	917.52 μS/cm	0.41 mg/L	158.00 NTU	-19.1 mV	13.90 ft	450.00 ml/min
7/25/2023 3:50 PM	02:40:00	6.10 pH	20.13 °C	919.29 μS/cm	0.35 mg/L	61.50 NTU	-18.9 mV	13.90 ft	450.00 ml/min
7/25/2023 3:55 PM	02:45:00	6.10 pH	20.22 °C	925.31 μS/cm	0.35 mg/L	43.30 NTU	-18.9 mV	13.90 ft	450.00 ml/min
7/25/2023 4:00 PM	02:50:00	6.10 pH	20.13 °C	933.30 μS/cm	0.35 mg/L	27.60 NTU	-7.7 mV	13.90 ft	450.00 ml/min
7/25/2023 4:05 PM	02:55:00	6.09 pH	20.13 °C	906.81 μS/cm	0.22 mg/L	1,000.00 NTU	-4.9 mV	13.90 ft	450.00 ml/min
7/25/2023 4:10 PM	03:00:00	6.10 pH	20.08 °C	946.82 μS/cm	0.38 mg/L	184.00 NTU	-20.0 mV	13.90 ft	450.00 ml/min
7/25/2023 4:15 PM	03:05:00	6.11 pH	20.14 °C	951.92 μS/cm	0.35 mg/L	79.20 NTU	-20.5 mV	13.90 ft	450.00 ml/min
7/25/2023 4:20 PM	03:10:00	6.11 pH	20.03 °C	949.91 μS/cm	0.33 mg/L	39.30 NTU	-20.8 mV	13.90 ft	450.00 ml/min
7/25/2023 4:25 PM	03:15:00	6.11 pH	20.08 °C	950.94 μS/cm	0.40 mg/L	1,000.00 NTU	-19.9 mV	13.90 ft	450.00 ml/min

7/25/2023 4:30 PM	03:20:00	6.11 pH	20.04 °C	971.00 μS/cm	0.38 mg/L	250.00 NTU	-21.7 mV	13.90 ft	450.00 ml/min
7/25/2023 4:35 PM	03:25:00	6.11 pH	20.13 °C	965.70 μS/cm	0.37 mg/L	112.00 NTU	-20.4 mV	13.90 ft	450.00 ml/min
7/25/2023 4:40 PM	03:30:00	6.11 pH	20.10 °C	962.53 μS/cm	0.34 mg/L	70.00 NTU	-8.9 mV	13.90 ft	450.00 ml/min
7/25/2023 4:45 PM	03:35:00	6.11 pH	20.08 °C	959.52 μS/cm	0.35 mg/L	57.40 NTU	-20.3 mV	13.90 ft	450.00 ml/min
7/25/2023 4:50 PM	03:40:00	6.11 pH	20.07 °C	960.44 μS/cm	0.30 mg/L	40.80 NTU	-20.4 mV	13.90 ft	450.00 ml/min
7/25/2023 4:55 PM	03:45:00	6.09 pH	20.13 °C	884.75 μS/cm	0.16 mg/L	1,000.00 NTU	-14.6 mV	13.90 ft	450.00 ml/min
7/25/2023 5:00 PM	03:50:00	6.10 pH	20.05 °C	945.76 μS/cm	0.34 mg/L	445.00 NTU	-19.7 mV	13.90 ft	450.00 ml/min
7/25/2023 5:05 PM	03:55:00	6.11 pH	20.08 °C	961.43 μS/cm	0.39 mg/L	119.00 NTU	-8.7 mV	13.90 ft	450.00 ml/min
7/25/2023 5:10 PM	04:00:00	6.11 pH	20.05 °C	962.94 μS/cm	0.34 mg/L	58.60 NTU	-9.1 mV	13.90 ft	450.00 ml/min
7/25/2023 5:15 PM	04:05:00	6.12 pH	20.06 °C	966.30 μS/cm	0.33 mg/L	34.70 NTU	-20.1 mV	13.90 ft	450.00 ml/min
7/25/2023 5:20 PM	04:10:00	6.11 pH	20.07 °C	962.76 μS/cm	0.33 mg/L	24.60 NTU	-8.4 mV	13.90 ft	450.00 ml/min
7/25/2023 5:25 PM	04:15:00	6.11 pH	20.03 °C	965.27 μS/cm	0.35 mg/L	18.30 NTU	-18.6 mV	13.90 ft	450.00 ml/min
7/25/2023 5:30 PM	04:20:00	6.12 pH	20.01 °C	964.42 μS/cm	0.36 mg/L	14.90 NTU	-18.6 mV	13.90 ft	450.00 ml/min
7/25/2023 5:35 PM	04:25:00	6.11 pH	19.95 °C	965.67 μS/cm	0.32 mg/L	13.20 NTU	-17.9 mV	13.90 ft	450.00 ml/min
7/25/2023 5:40 PM	04:30:00	6.11 pH	19.96 °C	970.45 μS/cm	0.33 mg/L	12.70 NTU	-18.5 mV	13.90 ft	450.00 ml/min
7/25/2023 5:45 PM	04:35:00	6.11 pH	19.99 °C	965.66 μS/cm	0.33 mg/L	9.83 NTU	-7.3 mV	13.90 ft	450.00 ml/min
7/25/2023 5:50 PM	04:40:00	6.12 pH	19.95 °C	965.61 μS/cm	0.35 mg/L	8.83 NTU	-17.6 mV	13.90 ft	450.00 ml/min
7/25/2023 5:55 PM	04:45:00	6.11 pH	19.97 °C	961.53 μS/cm	0.34 mg/L	8.66 NTU	-17.1 mV	13.90 ft	450.00 ml/min
7/25/2023 6:00 PM	04:50:00	6.11 pH	19.91 °C	965.11 μS/cm	0.30 mg/L	8.20 NTU	-6.3 mV	13.90 ft	450.00 ml/min

Sample ID:	Description:

Test Date / Time: 7/25/2023 2:21:09 PM

Project: Arkwright

Operator Name: C. Powlus

Location Name: Arkwright, AP-2,

ARGWC-23

Latitude: 32.9213146519027 Longitude: -83.7018463388085

Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 18.05 ft Total Depth: 28.05 ft

Initial Depth to Water: 14.55 ft

Pump Type: Reclaimer

Tubing Type: LDPE

Tubing Inner Diameter: 0.17 in

Tubing Length: 33 ft

Pump Intake From TOC: 23 ft Estimated Total Volume Pumped:

6500 ml

Flow Cell Volume: 90 ml Final Flow Rate: 125 ml/min

Final Draw Down: 0 ft

Instrument Used: Aqua TROLL 400

Serial Number: 884187

Test Notes:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.33	
7/25/2023 2:21 PM	00:00	6.32 pH	23.86 °C	484.36 μS/cm	1.29 mg/L	96.50 NTU	94.4 mV	14.55 ft	125.00 ml/min
7/25/2023 2:25 PM	04:00	6.29 pH	23.76 °C	486.20 μS/cm	1.56 mg/L	193.00 NTU	94.6 mV	14.55 ft	125.00 ml/min
7/25/2023 2:29 PM	08:00	6.27 pH	23.62 °C	485.95 μS/cm	1.55 mg/L	157.00 NTU	98.7 mV	14.55 ft	125.00 ml/min
7/25/2023 2:33 PM	12:00	6.25 pH	23.48 °C	486.02 μS/cm	1.65 mg/L	138.00 NTU	101.5 mV	14.55 ft	125.00 ml/min
7/25/2023 2:37 PM	16:00	6.22 pH	23.55 °C	486.73 μS/cm	1.62 mg/L	121.00 NTU	102.8 mV	14.55 ft	125.00 ml/min
7/25/2023 2:41 PM	20:00	6.20 pH	23.60 °C	486.68 μS/cm	1.57 mg/L	99.00 NTU	102.1 mV	14.55 ft	125.00 ml/min
7/25/2023 2:45 PM	24:00	6.17 pH	23.47 °C	486.31 μS/cm	1.68 mg/L	23.80 NTU	102.5 mV	14.55 ft	125.00 ml/min
7/25/2023 2:49 PM	28:00	6.15 pH	23.38 °C	485.97 μS/cm	1.63 mg/L	16.50 NTU	101.9 mV	14.55 ft	125.00 ml/min
7/25/2023 2:53 PM	32:00	6.13 pH	23.37 °C	486.58 μS/cm	1.58 mg/L	11.40 NTU	101.8 mV	14.55 ft	125.00 ml/min
7/25/2023 2:57 PM	36:00	6.11 pH	23.23 °C	486.15 μS/cm	1.57 mg/L	10.10 NTU	101.3 mV	14.55 ft	125.00 ml/min
7/25/2023 3:01 PM	40:00	6.09 pH	23.35 °C	486.42 μS/cm	1.54 mg/L	9.70 NTU	101.7 mV	14.55 ft	125.00 ml/min
7/25/2023 3:05 PM	44:00	6.08 pH	23.21 °C	485.41 μS/cm	1.47 mg/L	8.04 NTU	101.1 mV	14.55 ft	125.00 ml/min
7/25/2023 3:09 PM	48:00	6.07 pH	22.93 °C	486.76 μS/cm	1.41 mg/L	8.05 NTU	100.2 mV	14.55 ft	125.00 ml/min
7/25/2023 3:13 PM	52:00	6.06 pH	23.37 °C	486.20 μS/cm	1.36 mg/L	7.64 NTU	100.5 mV	14.55 ft	125.00 ml/min

Sample ID:	Description:
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Test Date / Time: 7/25/2023 5:20:23 PM

Project: Arkwright

Operator Name: Dylan Quintal

Location Name: Arkwright, AP-2,

ARAMW-8

Latitude: 32.92135039436

Longitude: -83.7019157409668

Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 39.54 ft Total Depth: 49.54 ft

Initial Depth to Water: 12.15 ft

Pump Type: Reclaimer Tubing Type: LDPE

Pump Intake From TOC: 44.54 ft Estimated Total Volume Pumped:

6250 ml

Flow Cell Volume: 90 ml Final Flow Rate: 210 ml/min Final Draw Down: 30.35 ft Instrument Used: Aqua TROLL 400

Serial Number: 966090

Test Notes:

Pumped 2.5 well volumes before beginning of low-flow testing, i.e. ~15 gallons

Weather Conditions:

Sunny, 94F

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.33	
7/25/2023 5:20 PM	00:00	6.64 pH	23.33 °C	702.18 μS/cm	5.95 mg/L	58.40 NTU	39.7 mV	42.50 ft	250.00 ml/min
7/25/2023 5:25 PM	05:00	6.58 pH	23.64 °C	696.31 µS/cm	5.89 mg/L	14.80 NTU	46.1 mV	42.50 ft	250.00 ml/min
7/25/2023 5:30 PM	10:00	6.58 pH	23.91 °C	699.41 μS/cm	5.62 mg/L	10.90 NTU	43.3 mV	42.50 ft	250.00 ml/min
7/25/2023 5:35 PM	15:00	6.58 pH	23.87 °C	700.62 μS/cm	5.52 mg/L	9.57 NTU	42.2 mV	42.50 ft	250.00 ml/min
7/25/2023 5:40 PM	20:00	6.58 pH	24.10 °C	703.32 μS/cm	5.33 mg/L	9.43 NTU	39.9 mV	42.50 ft	250.00 ml/min
7/25/2023 5:45 PM	25:00	6.57 pH	24.06 °C	702.49 μS/cm	5.31 mg/L	7.52 NTU	40.1 mV	42.50 ft	250.00 ml/min

Samples

Sample ID:	Description:
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Test Date / Time: 7/26/2023 3:40:03 PM

Project: Arkwright

Operator Name: Dylan Quintal

Location Name: Arkwright, AP-2,

ARGWC-21

Latitude: 32.9214266636498 Longitude: -83.7021735683084

Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 17.29 m Total Depth: 27.29 ft

Initial Depth to Water: 14.48 ft

Pump Type: Reclaimer Tubing Type: LDPE

Pump Intake From TOC: 22.79 ft Estimated Total Volume Pumped:

17875 ml

Flow Cell Volume: 90 ml Final Flow Rate: 275 ml/min Final Draw Down: 4.37 ft Instrument Used: Aqua TROLL 400

Serial Number: 883546

Test Notes:

Setting ID: 95 Pressure: 24 psi

Purged ~17.5 gallons of water before beginning of low-flow testing.

Weather Conditions:

Sunny, 96F

LOW-FIOW K	eaunigs.								
Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.33	
7/26/2023 3:40 PM	00:00	6.16 pH	21.43 °C	815.85 μS/cm	2.44 mg/L	34.90 NTU	73.7 mV	18.60 ft	275.00 ml/min
7/26/2023 3:45 PM	05:00	6.13 pH	21.71 °C	850.60 μS/cm	2.25 mg/L	23.50 NTU	74.4 mV	18.60 ft	275.00 ml/min
7/26/2023 3:50 PM	10:00	6.12 pH	21.68 °C	853.46 μS/cm	2.15 mg/L	22.40 NTU	74.2 mV	18.60 ft	275.00 ml/min
7/26/2023 3:55 PM	15:00	6.11 pH	21.53 °C	855.20 μS/cm	2.04 mg/L	18.20 NTU	73.9 mV	18.60 ft	275.00 ml/min
7/26/2023 4:00 PM	20:00	6.10 pH	21.31 °C	845.27 μS/cm	1.83 mg/L	16.60 NTU	73.6 mV	18.60 ft	275.00 ml/min
7/26/2023 4:05 PM	25:00	6.09 pH	21.24 °C	859.15 μS/cm	1.80 mg/L	12.50 NTU	73.6 mV	18.60 ft	275.00 ml/min
7/26/2023 4:10 PM	30:00	6.09 pH	21.19 °C	847.58 μS/cm	1.70 mg/L	11.00 NTU	74.1 mV	18.60 ft	275.00 ml/min
7/26/2023 4:15 PM	35:00	6.09 pH	20.95 °C	851.21 μS/cm	1.62 mg/L	9.84 NTU	74.0 mV	18.60 ft	275.00 ml/min
7/26/2023 4:20 PM	40:00	6.08 pH	21.00 °C	843.56 μS/cm	1.51 mg/L	7.62 NTU	73.9 mV	18.60 ft	275.00 ml/min
7/26/2023 4:25 PM	45:00	6.09 pH	21.26 °C	850.14 μS/cm	1.47 mg/L	6.84 NTU	74.3 mV	18.60 ft	275.00 ml/min
7/26/2023 4:30 PM	50:00	6.09 pH	21.11 °C	845.00 μS/cm	1.25 mg/L	5.26 NTU	73.4 mV	18.60 ft	275.00 ml/min

7/26/2023	55:00	6.08 pH	21.02 °C	853.44 µS/cm	1.23 mg/L	3.91 NTU	73.3 mV	18.60 ft	275.00 ml/min
4:35 PM	33.00	0.00 pri	21.02 0	000.44 μ0/6/11	1.23 Hig/L	3.91 1010	75.5 111	10.00 11	27 3.00 111/111111
7/26/2023	01:00:00	6.08 pH	21.04 °C	849.30 µS/cm	1.13 mg/L	4.77 NTU	73.2 mV	18.85 ft	275.00 ml/min
4:40 PM	01:00:00	6.06 μπ	21.04 C	649.30 μ3/cm	1.13 Hig/L	4.77 1010	73.2111	10.05 11	273.00 111/111111
7/26/2023	01:05:00	6.08 pH	20.99 °C	844.06 µS/cm	1.05 mg/L	3.92 NTU	72.8 mV	18.85 ft	275.00 ml/min
4:45 PM	01.05.00	0.00 μπ	20.99 C	044.00 μ3/011	1.05 Hig/L	3.92 NTU	72.01110	10.05 11	273.00 1111/111111

Sample ID:	Description:
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Test Date / Time: 7/26/2023 10:40:44 AM

Project: Arkwright

Operator Name: A. Shoredits

Location Name: Arkwright,

AP2-ARAMW-9

Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 95 ft Total Depth: 105.48 ft

Initial Depth to Water: 77.3 ft

Pump Type: Reclaimer Tubing Type: LDPE

Pump Intake From TOC: 100 ft Estimated Total Volume Pumped:

5400 ml

Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 17.42 ft Instrument Used: Aqua TROLL 400

Serial Number: 843593

Test Notes:

Well redevelopment final stabilization purge not completed due to excessive drawdown to the top of well screen elevation

Weather Conditions:

Sunny, 32 degrees C

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 0.2	+/- 10	+/- 20	+/- 0.3	
7/26/2023 10:40 AM	00:00	7.84 pH	21.20 °C	1,042.7 μS/cm	7.46 mg/L	263.00 NTU	-18.3 mV	88.72 ft	140.00 ml/min
7/26/2023 10:45 AM	05:00	7.84 pH	21.51 °C	1,034.3 μS/cm	5.93 mg/L	144.00 NTU	-43.3 mV	90.53 ft	140.00 ml/min
7/26/2023 10:50 AM	10:00	7.84 pH	21.77 °C	1,033.5 μS/cm	4.71 mg/L	120.00 NTU	-23.8 mV	90.68 ft	100.00 ml/min
7/26/2023 10:55 AM	15:00	7.83 pH	22.05 °C	1,020.5 μS/cm	3.78 mg/L	102.00 NTU	-55.1 mV	91.34 ft	100.00 ml/min
7/26/2023 11:00 AM	20:00	7.83 pH	22.44 °C	1,006.0 μS/cm	3.47 mg/L	81.10 NTU	-27.3 mV	91.65 ft	100.00 ml/min
7/26/2023 11:05 AM	25:00	7.82 pH	22.46 °C	996.69 μS/cm	3.19 mg/L	56.20 NTU	-25.8 mV	92.20 ft	100.00 ml/min
7/26/2023 11:10 AM	30:00	7.81 pH	22.62 °C	986.09 μS/cm	2.96 mg/L	38.80 NTU	-49.3 mV	92.78 ft	100.00 ml/min
7/26/2023 11:15 AM	35:00	7.79 pH	22.72 °C	980.05 μS/cm	2.80 mg/L	34.20 NTU	-24.8 mV	93.27 ft	100.00 ml/min
7/26/2023 11:20 AM	40:00	7.79 pH	22.89 °C	975.52 μS/cm	2.76 mg/L	77.50 NTU	-23.5 mV	93.71 ft	100.00 ml/min
7/26/2023 11:25 AM	45:00	7.79 pH	22.97 °C	971.20 μS/cm	2.96 mg/L	38.10 NTU	-47.4 mV	94.42 ft	100.00 ml/min
7/26/2023 11:30 AM	50:00	7.78 pH	23.19 °C	971.26 μS/cm	2.87 mg/L	29.10 NTU	-21.5 mV	94.72 ft	100.00 ml/min

Samples

Sample ID:	Description:
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Test Date / Time: 7/26/2023 4:47:43 PM

Project: Arkwright

Operator Name: A. Shoredits

Location Name: Arkwright,

AP2-ARAMW-9

Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 95 ft Total Depth: 105.48 ft

Initial Depth to Water: 90.52 ft

Pump Type: Reclaimer

Tubing Type: LDPE

Pump Intake From TOC: 100 ft Estimated Total Volume Pumped:

3300 ml

Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 5.28 ft Instrument Used: Aqua TROLL 400

Serial Number: 843593

Test Notes:

2nd Purge effort; Recharge rate is approximately 9.1 ml/min (1 ft/68 mins)

Weather Conditions:

Sunny, 33 degrees C

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 0.2	+/- 10	+/- 20	+/- 0.3	
7/26/2023 4:47 PM	00:00	7.54 pH	33.14 °C	927.76 μS/cm	2.17 mg/L	80.80 NTU	47.2 mV	90.52 ft	140.00 ml/min
7/26/2023 4:52 PM	05:00	7.70 pH	30.43 °C	941.84 μS/cm	3.21 mg/L	74.60 NTU	47.1 mV	91.43 ft	140.00 ml/min
7/26/2023 4:57 PM	10:00	7.80 pH	24.66 °C	927.56 μS/cm	3.66 mg/L	43.10 NTU	47.3 mV	92.67 ft	140.00 ml/min
7/26/2023 5:02 PM	15:00	7.77 pH	22.83 °C	945.32 μS/cm	3.59 mg/L	36.60 NTU	46.0 mV	93.37 ft	140.00 ml/min
7/26/2023 5:07 PM	20:00	6.61 pH	23.31 °C	2.71 μS/cm	8.46 mg/L	44.40 NTU	110.0 mV	95.80 ft	100.00 ml/min
7/26/2023 5:12 PM	25:00	7.75 pH	21.01 °C	934.33 μS/cm	3.13 mg/L	38.00 NTU	34.0 mV	95.80 ft	100.00 ml/min

Samples

Sample ID:	Description:
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Test Date / Time: 7/27/2023 10:56:01 AM

Project: Arkwright

Operator Name: B. Pennell

Location Name: Arkwright, AP-2,

ARAMW-9

Latitude: 32.921641680777

Longitude: -83.7028266862035

Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 95 ft Total Depth: 105.48 ft

Initial Depth to Water: 82.83 ft

Pump Type: Reclaimer Pump

Tubing Type: LDPE

Tubing Inner Diameter: 0.375 in

Tubing Length: 30 ft

Pump Intake From TOC: 100 ft Estimated Total Volume Pumped:

8750 ml

Flow Cell Volume: 90 ml Final Flow Rate: 125 ml/min Final Draw Down: 17.08 ft Instrument Used: Aqua TROLL 400

Serial Number: 850751

Test Notes:

Well redevelopment

MP50 settings:

CPM1 ID: 5 PSI: 56

Initial depth to water was prior to filling tubing and flow through cell. Encountered an issue with the MP50 and solenoid valve did not close causing pump to discharge a large amount of water creating drawdown. Replaced MP50 and did not use external air compressor to redevelop well.

Weather Conditions:

Mostly sunny, 26C

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.33	
7/27/2023	00:00	7.62 pH	23.88 °C	1,065.9	6.90 mg/L	23.30 NTU	20.5 mV	82.83 ft	125.00 ml/min
10:56 AM	00.00	7.62 pm	23.00 C	μS/cm	6.90 Hig/L	23.30 NTO	20.5 1117	02.03 11	125.00 111/111111
7/27/2023	05:00	7.62 pH	23.89 °C	1,020.7	4.22 mg/L	25.50 NTU	-11.7 mV	97.30 ft	125.00 ml/min
11:01 AM	03.00	7.02 pm	23.09 0	μS/cm	4.22 Hig/L	25.50 1110	-11.7 1110	97.50 it	125.00 1111/111111
7/27/2023	10:00	7.64 pH	22.63 °C	1,064.9	3.13 mg/L	22.10 NTU	-23.3 mV	97.61 ft	125.00 ml/min
11:06 AM	10.00	7.04 pm	22.05 0	μS/cm	3.13 Hig/L		20.0 111 V	37.0111	123.00 1111/111111
7/27/2023	15:00 7.68 pH	7.68 pH	22.22 °C	1,143.0	2.61 mg/L	19.70 NTU	-52.4 mV	97.84 ft	125.00 ml/min
11:11 AM	13.00	7.00 pm	22.22 0	μS/cm	2.01 mg/L	19.70 1110	-52.4 1117	37.04 It	125.00 1111/111111
7/27/2023	20:00	7.73 pH	22.19 °C	1,222.2	2.25 mg/L	17.20 NTU	-66.2 mV	97.99 ft	125.00 ml/min
11:16 AM	20.00	7.75 pm	22.13	μS/cm	Z.Z3 mg/L	17.201110	-00.2 1110	57.55 it	125.00 111/111111
7/27/2023	25:00	25:00 7.80 pH	22.23 °C	1,286.6	1.90 mg/L	14.10 NTU	-59.9 mV	98.24 ft	125.00 ml/min
11:21 AM		7.00 pri	22.23 0	μS/cm	1.50 Hig/L	14.101010	33.3 111	30.24 It	120.00 111/111111
7/27/2023	30:00	7 04 pU	.84 pH 22.40 °C	1,324.0	1.66 mg/L	12.40 NTU	-92.4 mV	98.45 ft	125.00 ml/min
11:26 AM		7.04 pm		μS/cm	1.66 mg/L	12.40 NTU	-9∠.4 MV 	98.45 II	123.00 111/111111

7/27/2023	35:00	7.86 pH	22.43 °C	1,332.8	1.46 mg/L	10.40 NTU	-97.5 mV	98.71 ft	125.00 ml/min
11:31 AM	35.00	7.00 рп	22.43 C	μS/cm	1.46 mg/L	10.40 N10	-97.5 1110	90.7111	125.00 1111/111111
7/27/2023	40:00	7.87 pH	22.43 °C	1,304.0	1.25 mg/L	9.52 NTU	-80.1 mV	98.93 ft	125.00 ml/min
11:36 AM	40.00	7.87 pm	22.43	μS/cm	1.23 Hig/L	9.52 1110	-80.11117	90.93 II	123.00 1111/111111
7/27/2023	45:00	7.87 pH	22.59 °C	1,294.8	1.14 mg/L	6.75 NTU	-109.0 mV	99.17 ft	125.00 ml/min
11:41 AM	45.00	7.07 pm	22.59 0	μS/cm	1.14 mg/L	0.75 1410	-109.01110	99.17 10	123.00 111/111111
7/27/2023	50:00	7.88 pH	22.61 °C	1,271.2	1.04 mg/L	5.91 NTU	-93.7 mV	99.40 ft	125.00 ml/min
11:46 AM	30.00	7.00 pm	22.01 0	μS/cm	1.04 mg/L	3.51 1110	33.7 1117	33.40 10	123.00 111/111111
7/27/2023	55:00	7.89 pH	22.54 °C	1,250.5	0.97 mg/L	5.35 NTU	-121.4 mV	99.51 ft	125.00 ml/min
11:51 AM	33.00	7.05 pm	22.54 0	μS/cm	0.57 Hig/L	3.33 1110	121.41110	33.51 10	123.00 111/111111
7/27/2023	01:00:00	7.89 pH	22.90 °C	1,221.6	0.89 mg/L	4.37 NTU	-104.1 mV	99.73 ft	125.00 ml/min
11:56 AM	01.00.00	7.09 pm	22.90 0	μS/cm	0.09 mg/L	4.57 1110	-104.11110	99.7510	123.00 1111/111111
7/27/2023	01:05:00	7.90 pH	22.73 °C	1,191.0	0.82 mg/L	4.79 NTU	-107.0 mV	99.87 ft	125.00 ml/min
12:01 PM	01.03.00	7.90 pm	22.13 0	μS/cm	0.02 Hig/L	4.73 1110	-107.01110	99.07 II	123.00 1111/111111
7/27/2023	01:10:00	7.90 pH	23.06 °C	1,171.4	0.81 mg/L	4.37 NTU	-111.5 mV	99.91 ft	125.00 ml/min
12:06 PM	01.10.00	7.55 pri	25.00 0	μS/cm	0.01 mg/L	4.57 1110	111.5111	55.9110	123.00 111/111111

Sample ID:	Description:

B.2 Field Sampling Data

Test Date / Time: 8/8/2023 9:39:09 AM

Project: Arkwright

Operator Name: Houston Lynn

Location Name: ARGWC-22 Latitude: 32.9216042498225 Longitude: -83.7027717009187

Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 17.71 ft Total Depth: 27.71 ft

Initial Depth to Water: 13.85 ft

Pump Type: Peristaltic Tubing Type: Poly

Pump Intake From TOC: 22.7 ft Estimated Total Volume Pumped:

2400 ml

Flow Cell Volume: 90 ml Final Flow Rate: 160 ml/min Final Draw Down: 0.01 ft Instrument Used: Aqua TROLL 400

Serial Number: 966105

Test Notes:

Weather Conditions:

Clear 81

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.3	
8/8/2023 9:39 AM	00:00	5.57 pH	20.52 °C	1,465.7 μS/cm	0.34 mg/L	3.91 NTU	106.4 mV	13.85 ft	160.00 ml/min
8/8/2023 9:44 AM	05:00	5.59 pH	20.21 °C	1,472.6 μS/cm	0.25 mg/L	4.69 NTU	79.1 mV	13.85 ft	160.00 ml/min
8/8/2023 9:49 AM	10:00	5.59 pH	20.04 °C	1,460.6 μS/cm	0.22 mg/L	3.63 NTU	67.6 mV	13.86 ft	160.00 ml/min
8/8/2023 9:54 AM	15:00	5.61 pH	20.17 °C	1,457.2 μS/cm	0.20 mg/L	2.93 NTU	60.5 mV	13.86 ft	160.00 ml/min

Samples

Sample ID:	Description:
	9 bottles collected
ARK-ARGWC-22	Sample time 9:55
	Sulfide test results: 0.0

Test Date / Time: 8/8/2023 9:39:09 AM

Project: Arkwright

Operator Name: Houston Lynn

Location Name: ARGWC-22 Latitude: 32.9216042498225 Longitude: -83.7027717009187

Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 17.71 ft Total Depth: 27.71 ft

Initial Depth to Water: 13.85 ft

Pump Type: Peristaltic Tubing Type: Poly

Pump Intake From TOC: 22.7 ft Estimated Total Volume Pumped:

2400 ml

Flow Cell Volume: 90 ml Final Flow Rate: 160 ml/min Final Draw Down: 0.01 ft Instrument Used: Aqua TROLL 400

Serial Number: 966105

Test Notes:

Weather Conditions:

Clear 81

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.3	
8/8/2023 9:39 AM	00:00	5.57 pH	20.52 °C	1,465.7 μS/cm	0.34 mg/L	3.91 NTU	106.4 mV	13.85 ft	160.00 ml/min
8/8/2023 9:44 AM	05:00	5.59 pH	20.21 °C	1,472.6 μS/cm	0.25 mg/L	4.69 NTU	79.1 mV	13.85 ft	160.00 ml/min
8/8/2023 9:49 AM	10:00	5.59 pH	20.04 °C	1,460.6 μS/cm	0.22 mg/L	3.63 NTU	67.6 mV	13.86 ft	160.00 ml/min
8/8/2023 9:54 AM	15:00	5.61 pH	20.17 °C	1,457.2 μS/cm	0.20 mg/L	2.93 NTU	60.5 mV	13.86 ft	160.00 ml/min

Samples

Sample ID:	Description:
	9 bottles collected
ARK-ARGWC-22	Sample time 9:55
	Sulfide test results: 0.0

Test Date / Time: 8/8/2023 10:31:35 AM

Project: Arkwright

Operator Name: John Myer

Location Name: AP2-ARAMW-9

Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 94.5 ft Total Depth: 105.55 ft

Initial Depth to Water: 11.27 ft

Pump Type: Non-Dedicated Bladder

Pump

Tubing Type: Poly

Pump Intake From TOC: 98 ft Estimated Total Volume Pumped:

12000 ml

Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 23.83 ft Instrument Used: Aqua TROLL 400

Serial Number: 883546

Test Notes: Sulfide: 0.0 mg/L

Weather Conditions:

Sunny 81 F

OW-FIOW R	cadings.								
Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.3	
8/8/2023 10:31 AM	00:00	7.20 pH	22.89 °C	1,222.5 μS/cm	3.38 mg/L	25.00 NTU	-73.5 mV	12.15 ft	100.00 ml/min
8/8/2023 10:36 AM	05:00	7.68 pH	20.91 °C	1,237.0 μS/cm	1.94 mg/L	62.10 NTU	-115.9 mV	12.70 ft	100.00 ml/min
8/8/2023 10:41 AM	10:00	7.89 pH	20.54 °C	1,228.3 μS/cm	1.96 mg/L	51.70 NTU	-116.3 mV	13.50 ft	100.00 ml/min
8/8/2023 10:46 AM	15:00	7.98 pH	20.21 °C	1,229.7 μS/cm	1.92 mg/L	47.40 NTU	-118.9 mV	14.25 ft	100.00 ml/min
8/8/2023 10:51 AM	20:00	8.04 pH	19.97 °C	1,240.9 μS/cm	3.33 mg/L	23.70 NTU	-125.0 mV	15.15 ft	100.00 ml/min
8/8/2023 10:56 AM	25:00	8.08 pH	19.85 °C	1,224.0 μS/cm	1.05 mg/L	9.47 NTU	-114.8 mV	16.10 ft	100.00 ml/min
8/8/2023 11:01 AM	30:00	8.11 pH	19.81 °C	1,240.5 μS/cm	1.56 mg/L	5.05 NTU	-159.9 mV	16.90 ft	100.00 ml/min
8/8/2023 11:06 AM	35:00	8.12 pH	19.83 °C	1,229.8 μS/cm	0.71 mg/L	5.06 NTU	-136.1 mV	17.80 ft	100.00 ml/min
8/8/2023 11:11 AM	40:00	8.14 pH	19.75 °C	1,243.7 μS/cm	1.95 mg/L	3.60 NTU	-131.0 mV	18.95 ft	100.00 ml/mir
8/8/2023 11:16 AM	45:00	8.15 pH	19.74 °C	1,219.0 μS/cm	2.86 mg/L	4.28 NTU	-130.4 mV	19.90 ft	100.00 ml/min
8/8/2023 11:21 AM	50:00	8.15 pH	19.70 °C	1,227.3 μS/cm	2.86 mg/L	4.67 NTU	-126.2 mV	20.70 ft	100.00 ml/min
8/8/2023 11:26 AM	55:00	8.15 pH	19.74 °C	1,209.5 μS/cm	0.53 mg/L	2.69 NTU	-111.6 mV	21.80 ft	100.00 ml/min
8/8/2023 11:31 AM	01:00:00	8.15 pH	19.64 °C	1,205.6 μS/cm	0.33 mg/L	3.23 NTU	-128.7 mV	22.85 ft	100.00 ml/min

8/8/2023	04.05.00	0.45 -11	40.04.00	1,203.6	0.00//	0.40 NTU	444.4>/	00.00.0	400.00 1/
11:36 AM	01:05:00	8.15 pH	19.61 °C	μS/cm	0.28 mg/L	3.49 NTU	-144.4 mV	23.90 ft	100.00 ml/min
8/8/2023	01:10:00	8.15 pH	19.66 °C	1,204.6	2.75 mg/L	3.92 NTU	-122.3 mV	24.90 ft	100.00 ml/min
11:41 AM	01.10.00	6.15 pm	19.00 C	μS/cm	2.75 Hig/L	3.92 NTO	-122.31110	24.90 II	100.00 m/min
8/8/2023	01:15:00	8.15 pH	19.61 °C	1,212.8	1.15 mg/L	4.34 NTU	-150.2 mV	25.90 ft	100.00 ml/min
11:46 AM	01.15.00	0.15 pm	15.01 0	μS/cm	1.15 mg/L	4.54 1410	130.2111	20.00 11	100.00 1111/111111
8/8/2023	01:20:00	8.14 pH	19.66 °C	1,204.4	0.31 mg/L	3.41 NTU	-118.8 mV	26.90 ft	100.00 ml/min
11:51 AM	01.20.00	0.14 pi i	10.00	μS/cm	0.01 mg/L	0.411410	110.0111	20.00 K	100.00 1111/111111
8/8/2023	01:25:00	8.15 pH	19.61 °C	1,206.2	0.69 mg/L	3.63 NTU	-123.0 mV	27.95 ft	100.00 ml/min
11:56 AM	01.20.00	0.10 p. 1	10.01	μS/cm	0.00 mg/2	0.001110	120.0 1117	27.00 10	100.00 1111/111111
8/8/2023	01:30:00	8.15 pH	19.66 °C	1,198.3	0.66 mg/L	4.09 NTU	-122.7 mV	29.05 ft	100.00 ml/min
12:01 PM	01.00.00	7.00 0.13 pm	10.00	μS/cm	0.00 mg/L	4.001110	122.7 1114	20.00 10	100.00 111/111111
8/8/2023	01:35:00	8.14 pH	19.69 °C	1,196.3	0.37 mg/L	4.26 NTU	-123.0 mV	30.05 ft	100.00 ml/min
12:06 PM	01.00.00	0.14 pi i	19.09 C	μS/cm	0.07 mg/L	4.201110	123.0 1110	30.03 11	100.00 111/111111
8/8/2023	01:40:00	8.14 pH	19.78 °C	1,202.2	0.17 mg/L	3.49 NTU	-121.7 mV	31.05 ft	100.00 ml/min
12:11 PM	01.40.00	0.14 pi i	10.70	μS/cm	0.17 mg/L	0.401410	121.7 1114	01.00 K	100.00 1111/111111
8/8/2023	01:45:00	8.13 pH	19.67 °C	1,200.1	0.75 mg/L	3.89 NTU	-119.4 mV	32.10 ft	100.00 ml/min
12:16 PM	01.40.00	0.10 pm	10.07	μS/cm	0.70 mg/L	0.001110	110.4111	02.1010	100.00 1111/111111
8/8/2023	01:50:00	8.14 pH	19.66 °C	1,201.8	0.20 mg/L	3.82 NTU	-115.6 mV	33.15 ft	100.00 ml/min
12:21 PM	01.30.00 0.14 pm	0.14 pr1	13.00 0	μS/cm	0.20 mg/L	3.02 1110	-113.0111	33.1310	100.00 1111/111111
8/8/2023	01:55:00	8.14 pH	19.74 °C	1,198.3	0.30 mg/L	4.90 NTU	-118.6 mV	34.15 ft	100.00 ml/min
12:26 PM	01.00.00	0.1-F p11	10.74 0	μS/cm	0.00 mg/L	4.00 1110	110.0111	04.10 It	100.00 1111/111111
8/8/2023	02:00:00	8.13 pH	19.81 °C	1,195.4	0.17 mg/L	3.95 NTU	-117.0 mV	35.10 ft	100.00 ml/min
12:31 PM	02.00.00	0.10 pi i	10.01	μS/cm	J.17 mg/L	0.00 1110	117.01110	33.1010	100.00 111/111111

Samples

Sample ID:	Description:
ARK-ARAMW-9	9 bottles collected at 1235

Test Date / Time: 8/8/2023 11:33:06 AM

Project: Arkwright (2)

Operator Name: Houston Lynn

Location Name: ARKWRIGHT

ARAMW-7

Latitude: 32.9217413089547 Longitude: -83.7028719484806

Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 40.4 ft Total Depth: 50.4 ft

Initial Depth to Water: 13.1 ft

Pump Type: Peristaltic Tubing Type: Poly

Pump Intake From TOC: 45.4 ft

Estimated Total Volume Pumped:

2400 ml

Flow Cell Volume: 90 ml Final Flow Rate: 160 ml/min Final Draw Down: 0.04 ft Instrument Used: Aqua TROLL 400

Serial Number: 966105

Test Notes:

Sulfide test results: 0.0

Weather Conditions:

Clear 81 F

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.3	
8/8/2023	00:00	0 5.44 pH 21.33 °C 1,713.4 μS/cm 0.29 mg/L 6	6.96 NTU	54.8 mV	13.10 ft	160.00 ml/min			
11:33 AM	00:00		21.33 C	μS/cm	0.29 Hig/L	0.90 1110	54.0 IIIV	13.1011	100.00 1111/111111
8/8/2023	05:00	5.44 pH	20.97 °C	1,765.7	0.21 mg/L	3.66 NTU	45.9 mV	13.12 ft	160.00 ml/min
11:38 AM	05.00	5.44 р⊓		μS/cm		3.00 NTO	45.9 1110	13.1211	160.00 1111/111111
8/8/2023	10:00	10:00 5.47 pH	20.95 °C	1,779.5	0.40 //	4.03 NTU	41.9 mV	13.14 ft	160.00 ml/min
11:43 AM	10.00			μS/cm	0.16 mg/L	4.03 1110	41.91110	13.1411	100.00 1111/111111
8/8/2023	15:00	F 47 pU	21.10 °C	1,769.6	0.16 mg/L	0.04 NITH	20.5\/	13.14 ft	160.00 ml/min
11:48 AM		15:00 5.47 pH	21.10 °C	μS/cm		3.31 NTU	38.5 mV		160.00 mi/min

Samples

Sample ID:	Description:
	9 bottles collected
Arkwright ARAMA-7	Sample time 1150
	7 bottles collected
Field Blank 20230808	
	Collection time: 1230

Test Date / Time: 8/8/2023 2:33:45 PM

Project: Arkwright (3)

Operator Name: Houston Lynn

Location Name: ARAMW-02 Latitude: 32.9214404540309 Longitude: -83.7021591514349

Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 15.2 ft Total Depth: 25.2 ft

Initial Depth to Water: 13.21 ft

Pump Type: Peristaltic Tubing Type: Poly

Pump Intake From TOC: 45.4 ft Estimated Total Volume Pumped:

4000 ml

Flow Cell Volume: 90 ml Final Flow Rate: 160 ml/min Final Draw Down: 0.2 ft Instrument Used: Aqua TROLL 400

Serial Number: 966105

Test Notes:

Sulfide test results: 0.0

Weather Conditions:

Sunny 90 F

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.3	
8/8/2023 2:33 PM	00:00	6.03 pH	28.10 °C	708.15 μS/cm	0.32 mg/L	57.50 NTU	44.6 mV	13.21 ft	160.00 ml/min
8/8/2023 2:38 PM	05:00	6.02 pH	24.88 °C	754.97 µS/cm	0.20 mg/L	18.30 NTU	42.6 mV	13.21 ft	160.00 ml/min
8/8/2023 2:43 PM	10:00	6.02 pH	24.37 °C	764.39 μS/cm	0.16 mg/L	12.70 NTU	35.4 mV	13.21 ft	160.00 ml/min
8/8/2023 2:48 PM	15:00	6.02 pH	24.15 °C	769.14 μS/cm	0.15 mg/L	4.62 NTU	31.1 mV	13.21 ft	160.00 ml/min
8/8/2023 2:53 PM	20:00	6.01 pH	24.33 °C	775.72 μS/cm	0.14 mg/L	4.86 NTU	28.8 mV	13.21 ft	160.00 ml/min
8/8/2023 2:58 PM	25:00	6.01 pH	24.01 °C	771.26 µS/cm	0.13 mg/L	4.46 NTU	28.2 mV	13.21 ft	160.00 ml/min

Samples

Sample ID:	Description:
ARK-ARAMW-2	9 bottles
ARK-ARAIVIVV-2	Sample time 15:05

Test Date / Time: 8/8/2023 3:29:57 PM

Project: Arkwright

Operator Name: John Myer

Location Name: AP2-ARAMW-1

Well Diameter: 2 in **Casing Type: PVC** Screen Length: 10 ft Top of Screen: 34.9 ft Total Depth: 47.4 ft

Initial Depth to Water: 13.2 ft

Pump Type: Peristaltic Pump

Tubing Type: Poly

Pump Intake From TOC: 42.4 ft **Estimated Total Volume Pumped:**

6250 ml

Flow Cell Volume: 90 ml Final Flow Rate: 250 ml/min Final Draw Down: 0.3 ft

Instrument Used: Aqua TROLL 400

Serial Number: 883546

Test Notes: Sulfide: 0.0 mg/L

Weather Conditions:

Partly Cloudy 91 F

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.3	
8/8/2023 3:29 PM	00:00	6.60 pH	22.26 °C	794.54 μS/cm	2.03 mg/L	3.90 NTU	62.9 mV	13.50 ft	250.00 ml/min
8/8/2023 3:34 PM	05:00	6.51 pH	22.16 °C	810.10 μS/cm	0.10 mg/L	2.98 NTU	65.1 mV	13.50 ft	250.00 ml/min
8/8/2023 3:39 PM	10:00	6.44 pH	21.59 °C	810.39 μS/cm	2.16 mg/L	1.81 NTU	61.6 mV	13.50 ft	250.00 ml/min
8/8/2023 3:44 PM	15:00	6.40 pH	21.58 °C	808.42 μS/cm	0.07 mg/L	2.24 NTU	62.1 mV	13.50 ft	250.00 ml/min
8/8/2023 3:49 PM	20:00	6.40 pH	21.27 °C	805.58 μS/cm	0.06 mg/L	1.50 NTU	60.6 mV	13.50 ft	250.00 ml/min
8/8/2023 3:54 PM	25:00	6.38 pH	21.26 °C	798.89 µS/cm	0.06 mg/L	1.38 NTU	59.7 mV	13.50 ft	250.00 ml/min

Samples

Sample ID:	Description:
ARK-ARAMW-1	9 bottles collected at 1600

Test Date / Time: 8/8/2023 4:33:18 PM

Project: Arkwright (5)

Operator Name: Houston Lynn

Location Name: Arkwright

ARGWC-23

Latitude: 32.9212786279941 Longitude: -83.7018627673388

Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 19.4 ft Total Depth: 28.4 ft

Initial Depth to Water: 13.21 ft

Pump Type: Peristaltic Tubing Type: Poly

Pump Intake From TOC: 23.4 ft Estimated Total Volume Pumped:

2900 ml

Flow Cell Volume: 90 ml Final Flow Rate: 140 ml/min Final Draw Down: 0.34 ft Instrument Used: Aqua TROLL 400

Serial Number: 966105

Test Notes:

Sulfide results: 0.0

Weather Conditions:

Cloudy 90 F

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.3	
8/8/2023 4:33 PM	00:00	6.35 pH	29.76 °C	447.95 μS/cm	0.70 mg/L	10.30 NTU	96.1 mV	13.40 ft	160.00 ml/min
8/8/2023 4:38 PM	05:00	6.33 pH	24.51 °C	477.84 μS/cm	0.23 mg/L	7.68 NTU	99.9 mV	13.55 ft	140.00 ml/min
8/8/2023 4:43 PM	10:00	6.33 pH	23.92 °C	479.87 μS/cm	0.17 mg/L	2.47 NTU	69.6 mV	13.55 ft	140.00 ml/min
8/8/2023 4:48 PM	15:00	6.33 pH	23.84 °C	481.33 μS/cm	0.14 mg/L	2.29 NTU	63.5 mV	13.55 ft	140.00 ml/min
8/8/2023 4:53 PM	20:00	6.33 pH	23.70 °C	480.84 μS/cm	0.13 mg/L	2.11 NTU	60.2 mV	13.55 ft	140.00 ml/min

Samples

Sample ID:	Description:
ARK-ARGWC-23	9 bottles
	1655 sample time

Test Date / Time: 8/9/2023 8:53:45 AM

Project: Arkwright

Operator Name: Dylan Ripley

Location Name: Arkwright

ARAMW-8

Latitude: 32.9213107117884 Longitude: -83.7019040063024

Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 39.54 ft Total Depth: 49.54 ft

Initial Depth to Water: 12.5 ft

Pump Type: Peristaltic Tubing Type: LDPE

Pump Intake From TOC: 44.5 ft Estimated Total Volume Pumped:

13765 ml

Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 14.25 ft Instrument Used: Aqua TROLL 400

Serial Number: 883561

Test Notes:

Sulfides = 0.0 mg/L

Weather Conditions:

Sunny and clear

Low-Flow Readings:

LOW-I IOW IX	3 -								
Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10	+/- 10	+/- 0.3	
8/9/2023 8:53 AM	00:00	6.80 pH	22.22 °C	590.44 μS/cm	3.96 mg/L	2.41 NTU	293.6 mV	14.71 ft	100.00 ml/min
8/9/2023 8:58 AM	05:00	7.04 pH	22.35 °C	604.36 μS/cm	2.78 mg/L	2.49 NTU	343.6 mV	16.54 ft	100.00 ml/min
8/9/2023 9:03 AM	10:00	7.07 pH	22.79 °C	560.82 μS/cm	2.31 mg/L	28.60 NTU	354.0 mV	16.62 ft	100.00 ml/min
8/9/2023 9:08 AM	15:00	7.07 pH	22.67 °C	556.63 μS/cm	2.54 mg/L	6.74 NTU	378.8 mV	18.12 ft	100.00 ml/min
8/9/2023 9:13 AM	20:00	7.17 pH	22.76 °C	533.78 μS/cm	2.06 mg/L	5.78 NTU	485.4 mV	18.34 ft	100.00 ml/min
8/9/2023 9:16 AM	22:39	7.22 pH	22.89 °C	527.01 μS/cm	1.85 mg/L	10.80 NTU	490.8 mV	19.24 ft	100.00 ml/min
8/9/2023 9:21 AM	27:39	7.32 pH	23.07 °C	516.06 μS/cm	2.92 mg/L	3.66 NTU	487.9 mV	19.60 ft	100.00 ml/min
8/9/2023 9:26 AM	32:39	7.30 pH	23.17 °C	525.71 μS/cm	2.48 mg/L	4.64 NTU	375.9 mV	20.23 ft	100.00 ml/min
8/9/2023 9:31 AM	37:39	7.36 pH	23.05 °C	520.83 μS/cm	1.66 mg/L	5.74 NTU	475.0 mV	20.83 ft	100.00 ml/min
8/9/2023 9:36 AM	42:39	7.48 pH	23.26 °C	525.55 μS/cm	3.34 mg/L	3.29 NTU	419.7 mV	21.36 ft	100.00 ml/min
8/9/2023 9:41 AM	47:39	7.57 pH	23.34 °C	524.87 μS/cm	1.75 mg/L	4.54 NTU	246.1 mV	21.92 ft	100.00 ml/min
8/9/2023 9:46 AM	52:39	7.63 pH	23.34 °C	529.48 μS/cm	1.87 mg/L	3.58 NTU	144.5 mV	22.53 ft	100.00 ml/min

8/9/2023 9:51									
AM	57:39	7.85 pH	23.48 °C	584.84 μS/cm	2.73 mg/L	4.74 NTU	93.9 mV	22.85 ft	100.00 ml/min
8/9/2023 9:56 AM	01:02:39	7.92 pH	23.38 °C	563.44 μS/cm	1.63 mg/L	2.61 NTU	77.9 mV	23.25 ft	100.00 ml/min
8/9/2023 10:01 AM	01:07:39	7.97 pH	23.47 °C	535.56 μS/cm	2.19 mg/L	2.64 NTU	67.3 mV	23.68 ft	100.00 ml/min
8/9/2023 10:06 AM	01:12:39	8.08 pH	23.66 °C	579.57 μS/cm	2.24 mg/L	3.13 NTU	49.3 mV	24.04 ft	100.00 ml/min
8/9/2023 10:11 AM	01:17:39	8.22 pH	23.66 °C	557.05 μS/cm	1.97 mg/L	3.91 NTU	30.0 mV	24.35 ft	100.00 ml/min
8/9/2023 10:16 AM	01:22:39	8.25 pH	23.61 °C	543.96 μS/cm	2.89 mg/L	2.29 NTU	23.5 mV	24.63 ft	100.00 ml/min
8/9/2023 10:21 AM	01:27:39	8.34 pH	23.57 °C	516.70 μS/cm	2.37 mg/L	1.85 NTU	14.4 mV	24.97 ft	100.00 ml/min
8/9/2023 10:26 AM	01:32:39	8.40 pH	23.70 °C	532.26 μS/cm	2.42 mg/L	1.56 NTU	3.4 mV	25.19 ft	100.00 ml/min
8/9/2023 10:31 AM	01:37:39	8.43 pH	23.75 °C	545.01 μS/cm	3.86 mg/L	1.35 NTU	18.7 mV	25.60 ft	100.00 ml/min
8/9/2023 10:36 AM	01:42:39	8.51 pH	23.52 °C	541.84 μS/cm	2.65 mg/L	1.28 NTU	-8.1 mV	25.68 ft	100.00 ml/min
8/9/2023 10:41 AM	01:47:39	8.58 pH	23.64 °C	557.58 μS/cm	2.71 mg/L	1.01 NTU	-19.5 mV	25.88 ft	100.00 ml/min
8/9/2023 10:46 AM	01:52:39	8.66 pH	23.59 °C	554.76 μS/cm	1.17 mg/L	2.49 NTU	-15.4 mV	26.10 ft	100.00 ml/min
8/9/2023 10:51 AM	01:57:39	8.70 pH	23.45 °C	543.14 μS/cm	2.52 mg/L	1.28 NTU	-25.9 mV	26.19 ft	100.00 ml/min
8/9/2023 10:56 AM	02:02:39	8.70 pH	23.22 °C	554.86 μS/cm	1.36 mg/L	1.47 NTU	-29.7 mV	26.36 ft	100.00 ml/min
8/9/2023 11:01 AM	02:07:39	8.66 pH	22.90 °C	555.29 μS/cm	1.71 mg/L	1.21 NTU	-11.9 mV	26.51 ft	100.00 ml/min
8/9/2023 11:06 AM	02:12:39	8.68 pH	22.89 °C	567.10 μS/cm	1.80 mg/L	1.80 NTU	-9.8 mV	26.63 ft	100.00 ml/min
8/9/2023 11:11 AM	02:17:39	8.71 pH	23.04 °C	554.68 μS/cm	1.65 mg/L	4.19 NTU	-37.6 mV	26.75 ft	100.00 ml/min

Samples

Sample ID:	Description:
ARK-ARAMW-8	9 bottles collected at 1115

Test Date / Time: 8/9/2023 10:13:02 AM

Project: Arkwright (2) **Operator Name:** John Myer

Location Name: AP2-ARGWC21

Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 17.4 ft Total Depth: 27.4 ft

Initial Depth to Water: 14.15 ft

Pump Type: Dedicated Bladder

Pump

Tubing Type: LDPE

Pump Intake From TOC: 22.4 ft Estimated Total Volume Pumped:

1500 ml

Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 0.43 ft Instrument Used: Aqua TROLL 400

Serial Number: 883546

Test Notes: Sulfide: 0.0 mg/L

Weather Conditions:

Sunny 77F

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.3	
8/9/2023	00:00	6.66 pH	21.58 °C	728.67 µS/cm	0.52 mg/L	4.52 NTU	64.6 mV	14.50 ft	100.00 ml/min
10:13 AM	00.00	.00 6.00 рп	21.36 C	720.07 μ3/0/11	0.52 mg/L	4.52 1110	04.0111	14.50 11	100.00 111/111111
8/9/2023	05:00	6.67 pH	20.41 °C	735.03 µS/cm	0.34 mg/L	3.78 NTU	58.4 mV	14.58 ft	100.00 ml/min
10:18 AM	05.00	0.07 pm		733.03 μ3/6/11	0.54 mg/L	3.76 1410			
8/9/2023	10:00	6 63 nH	20.28 °C	735.41 µS/cm	0.25 mg/L	3.84 NTU	56.2 mV	14.58 ft	100.00 ml/min
10:23 AM	10.00	10:00 6.63 pH 20.2	20.26 C	733.41 µ3/cm	0.25 mg/L	3.04 1110	30.2 1117	14.58 π	100.00 1111/111111
8/9/2023	15:00	15:00 6.60 pH	20.28 °C	735.67 µS/cm	0.10 mg/l	2.81 NTU	56.6 mV	14.58 ft	100.00 ml/min
10:28 AM	15.00			/ 33.07 μ3/011	0.19 mg/L	2.01 1010	30.0 1117	14.30 11	100.00 1111/111111

Samples

Sample ID:	Description:
ARK-ARGWC-21	9 bottles at 1035
ARK-AP2-EB-01	7 bottles collected at 1110

Test Date / Time: 8/8/2023 9:30:44 AM

Project: Arkwright

Operator Name: Dylan Quintal

Location Name: Arkwright, AP-2,

ARGWA-19

Latitude: 32.9237420103943 Longitude: -83.7009420990944

Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 43.1 ft Total Depth: 53.1 ft

Initial Depth to Water: 27.68 ft

Pump Type: Dedicated QED Bladder

Tubing Type: HDPE

Pump Intake From TOC: 47.74 ft Estimated Total Volume Pumped:

12893.333 ml

Flow Cell Volume: 90 ml Final Flow Rate: 400 ml/min Final Draw Down: 0.02 ft Instrument Used: Aqua TROLL 400

Serial Number: 843593

Test Notes:

Hydrogen Sulfide Test Result: 0.0 mg/L

Weather Conditions:

Sunny, 80F

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.33	
8/8/2023 9:30 AM	00:00	5.82 pH	20.97 °C	128.99 μS/cm	3.38 mg/L	1.30 NTU	130.7 mV	27.68 ft	400.00 ml/min
8/8/2023 9:35 AM	05:00	5.80 pH	20.92 °C	127.56 μS/cm	3.27 mg/L	1.21 NTU	152.8 mV	27.70 ft	400.00 ml/min
8/8/2023 9:39 AM	08:28	5.81 pH	20.88 °C	127.23 μS/cm	3.24 mg/L	1.06 NTU	149.9 mV	27.70 ft	400.00 ml/min
8/8/2023 9:44 AM	13:28	5.80 pH	20.88 °C	127.60 μS/cm	3.22 mg/L	1.03 NTU	117.3 mV	27.70 ft	400.00 ml/min
8/8/2023 9:49 AM	18:28	5.81 pH	20.93 °C	127.83 μS/cm	3.21 mg/L	0.81 NTU	116.7 mV	27.70 ft	400.00 ml/min
8/8/2023 9:50 AM	19:28	5.81 pH	20.93 °C	127.55 μS/cm	3.21 mg/L	0.71 NTU	139.8 mV	27.70 ft	400.00 ml/min
8/8/2023 9:50 AM	20:01	5.81 pH	20.97 °C	127.61 μS/cm	3.21 mg/L	0.73 NTU	143.1 mV	27.70 ft	400.00 ml/min
8/8/2023 9:55 AM	24:18	5.79 pH	21.02 °C	128.68 μS/cm	3.17 mg/L	0.66 NTU	108.0 mV	27.70 ft	400.00 ml/min
8/8/2023 10:00 AM	29:18	5.80 pH	20.94 °C	127.75 μS/cm	3.16 mg/L	0.65 NTU	117.4 mV	27.70 ft	400.00 ml/min
8/8/2023 10:02 AM	32:14	5.81 pH	20.93 °C	127.54 μS/cm	3.17 mg/L	0.69 NTU	149.0 mV	27.70 ft	400.00 ml/min

Samples

Sample ID:	Description:
ARK-ARGWA-19	Sample time: 1015
ARK-ARGWA-19	9 bottles
ARK ARS ED 03	Sample time: NA
ARK-AP2-FD-03	7 bottles

Test Date / Time: 8/8/2023 12:55:45 PM

Project: Arkwright

Operator Name: Dylan Quintal

Location Name: Arkwright, AP-2,

ARGWA-20

Latitude: 32.9236207144085 Longitude: -83.7023596465588

Well Diameter: 2 in **Casing Type: PVC** Screen Length: 10 ft Top of Screen: 27.7 ft Total Depth: 37.7 ft

Initial Depth to Water: 14.94 ft

Pump Type: Dedicated QED Bladder

Tubing Type: HDPE

Pump Intake From TOC: 32.7 ft **Estimated Total Volume Pumped:**

36000 ml

Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.16 ft

Instrument Used: Agua TROLL 400

Serial Number: 843593

Test Notes:

Hydrogen Sulfide Test Result: NA. Purging stopped without sampling due to high turbidity. This low-flow test report represents

part 1/4 for ARGWA-20.

Weather Conditions:

Partly cloudy, 89F

Low-Flow Re	eadings:								
Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.33	
8/8/2023 12:55 PM	00:00	5.50 pH	19.88 °C	148.89 μS/cm	5.30 mg/L	183.00 NTU	139.2 mV	14.94 ft	200.00 ml/min
8/8/2023 1:00 PM	05:00	5.49 pH	19.77 °C	149.85 μS/cm	5.31 mg/L	169.00 NTU	132.1 mV	14.94 ft	200.00 ml/min
8/8/2023 1:05 PM	10:00	5.47 pH	19.95 °C	150.60 μS/cm	5.31 mg/L	142.00 NTU	170.7 mV	14.94 ft	200.00 ml/min
8/8/2023 1:10 PM	15:00	5.46 pH	19.94 °C	150.63 μS/cm	5.28 mg/L	151.00 NTU	171.8 mV	14.94 ft	200.00 ml/min
8/8/2023 1:15 PM	20:00	5.46 pH	19.98 °C	151.24 μS/cm	5.25 mg/L	146.00 NTU	174.1 mV	14.94 ft	200.00 ml/min
8/8/2023 1:20 PM	25:00	5.46 pH	19.85 °C	152.51 μS/cm	5.25 mg/L	105.00 NTU	171.7 mV	14.94 ft	200.00 ml/min
8/8/2023 1:25 PM	30:00	5.46 pH	19.68 °C	152.65 μS/cm	5.27 mg/L	115.00 NTU	171.6 mV	14.94 ft	200.00 ml/min
8/8/2023 1:30 PM	35:00	5.47 pH	19.90 °C	152.20 μS/cm	5.22 mg/L	117.00 NTU	171.4 mV	14.94 ft	200.00 ml/min
8/8/2023 1:35 PM	40:00	5.48 pH	19.93 °C	152.71 μS/cm	5.21 mg/L	123.00 NTU	170.9 mV	14.94 ft	200.00 ml/min
8/8/2023 1:40 PM	45:00	5.49 pH	20.04 °C	151.92 μS/cm	5.17 mg/L	107.00 NTU	170.4 mV	14.94 ft	200.00 ml/min
8/8/2023 1:45 PM	50:00	5.50 pH	19.95 °C	152.23 μS/cm	5.17 mg/L	104.00 NTU	170.0 mV	14.94 ft	200.00 ml/min
8/8/2023 1:50 PM	55:00	5.52 pH	19.99 °C	152.96 μS/cm	5.19 mg/L	88.60 NTU	169.5 mV	14.94 ft	200.00 ml/min

8/8/2023 1:55									
PM	01:00:00	5.52 pH	20.01 °C	152.11 μS/cm	5.18 mg/L	93.00 NTU	169.1 mV	14.94 ft	200.00 ml/min
8/8/2023 2:00 PM	01:05:00	5.54 pH	20.08 °C	151.54 μS/cm	5.16 mg/L	88.30 NTU	168.5 mV	14.94 ft	200.00 ml/min
8/8/2023 2:05 PM	01:10:00	5.55 pH	20.19 °C	152.52 μS/cm	5.17 mg/L	87.90 NTU	168.4 mV	14.94 ft	200.00 ml/min
8/8/2023 2:10 PM	01:15:00	5.55 pH	20.11 °C	152.80 μS/cm	5.17 mg/L	89.50 NTU	129.0 mV	14.94 ft	200.00 ml/min
8/8/2023 2:15 PM	01:20:00	5.56 pH	20.10 °C	153.62 μS/cm	5.19 mg/L	74.40 NTU	127.9 mV	14.94 ft	200.00 ml/min
8/8/2023 2:20 PM	01:25:00	5.56 pH	19.91 °C	153.41 μS/cm	5.22 mg/L	71.60 NTU	127.5 mV	14.94 ft	200.00 ml/min
8/8/2023 2:25 PM	01:30:00	5.56 pH	19.86 °C	154.05 μS/cm	5.23 mg/L	78.60 NTU	168.6 mV	14.94 ft	200.00 ml/min
8/8/2023 2:30 PM	01:35:00	5.58 pH	20.09 °C	153.46 μS/cm	5.21 mg/L	74.00 NTU	128.3 mV	14.94 ft	200.00 ml/min
8/8/2023 2:35 PM	01:40:00	5.58 pH	19.99 °C	153.83 μS/cm	5.22 mg/L	76.00 NTU	127.1 mV	14.94 ft	200.00 ml/min
8/8/2023 2:40 PM	01:45:00	5.58 pH	20.03 °C	153.08 μS/cm	5.23 mg/L	64.70 NTU	126.8 mV	14.94 ft	200.00 ml/min
8/8/2023 2:45 PM	01:50:00	5.58 pH	19.95 °C	154.50 μS/cm	5.25 mg/L	60.00 NTU	126.6 mV	14.94 ft	200.00 ml/min
8/8/2023 2:50 PM	01:55:00	5.58 pH	20.04 °C	155.90 μS/cm	5.25 mg/L	59.50 NTU	167.3 mV	14.94 ft	200.00 ml/min
8/8/2023 2:55 PM	02:00:00	5.56 pH	19.91 °C	158.53 μS/cm	5.52 mg/L	53.90 NTU	166.1 mV	14.94 ft	200.00 ml/min
8/8/2023 3:00 PM	02:05:00	5.57 pH	19.98 °C	157.95 μS/cm	5.49 mg/L	55.50 NTU	166.0 mV	14.94 ft	200.00 ml/min
8/8/2023 3:05 PM	02:10:00	5.58 pH	19.95 °C	158.04 μS/cm	5.46 mg/L	53.70 NTU	165.7 mV	14.94 ft	200.00 ml/min
8/8/2023 3:10 PM	02:15:00	5.58 pH	19.81 °C	157.85 μS/cm	5.43 mg/L	61.90 NTU	126.4 mV	14.94 ft	200.00 ml/min
8/8/2023 3:15 PM	02:20:00	5.59 pH	19.81 °C	158.53 μS/cm	5.40 mg/L	62.40 NTU	124.9 mV	14.94 ft	200.00 ml/min
8/8/2023 3:20 PM	02:25:00	5.59 pH	19.73 °C	157.90 μS/cm	5.42 mg/L	61.90 NTU	123.8 mV	14.94 ft	200.00 ml/min
8/8/2023 3:25 PM	02:30:00	5.59 pH	19.86 °C	157.96 μS/cm	5.42 mg/L	57.30 NTU	162.1 mV	14.94 ft	200.00 ml/min
8/8/2023 3:30 PM	02:35:00	5.60 pH	19.77 °C	158.34 μS/cm	5.41 mg/L	63.40 NTU	124.9 mV	14.94 ft	200.00 ml/min
8/8/2023 3:35 PM	02:40:00	5.60 pH	19.86 °C	158.10 μS/cm	5.39 mg/L	59.80 NTU	161.6 mV	14.94 ft	200.00 ml/min
8/8/2023 3:40 PM	02:45:00	5.61 pH	20.06 °C	157.59 μS/cm	5.35 mg/L	58.40 NTU	163.1 mV	14.94 ft	200.00 ml/min
8/8/2023 3:45 PM	02:50:00	5.61 pH	19.92 °C	157.17 μS/cm	5.34 mg/L	51.10 NTU	163.3 mV	14.94 ft	200.00 ml/min
8/8/2023 3:50 PM	02:55:00	5.61 pH	19.82 °C	157.69 μS/cm	5.36 mg/L	44.30 NTU	162.9 mV	14.94 ft	200.00 ml/min
8/8/2023 3:55 PM	03:00:00	5.61 pH	19.72 °C	157.25 μS/cm	5.35 mg/L	47.50 NTU	162.5 mV	14.94 ft	200.00 ml/min

Samples

Sample ID:	Description:
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Test Date / Time: 8/8/2023 5:30:03 PM

Project: Arkwright

Operator Name: Dylan Quintal

Location Name: Arkwright, AP-2,

ARGWA-20

Latitude: 32.9236207144085 Longitude: -83.7023596465588

Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 27.7 ft Total Depth: 37.7 ft

Initial Depth to Water: 14.99 ft

Pump Type: Dedicated QED Bladder

Tubing Type: HDPE

Pump Intake From TOC: 32.7 ft Estimated Total Volume Pumped:

2500 ml

Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min

Final Draw Down: 0 ft

Instrument Used: Aqua TROLL 400

Serial Number: 843593

Test Notes:

Hydrogen Sulfide Test Result: NA. No samples collected due to high turbidity. This low-flow test report represents part 2/4 for ARGWA-20.

Weather Conditions:

Rainy, 91F

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.33	
8/8/2023 5:30 PM	00:00	5.71 pH	22.45 °C	160.86 μS/cm	5.61 mg/L	33.20 NTU	119.7 mV	14.99 ft	100.00 ml/min
8/8/2023 5:35 PM	05:00	5.68 pH	21.31 °C	159.24 μS/cm	5.53 mg/L	32.50 NTU	126.1 mV	14.99 ft	100.00 ml/min
8/8/2023 5:40 PM	10:00	5.67 pH	20.88 °C	158.46 μS/cm	5.49 mg/L	24.00 NTU	160.7 mV	14.99 ft	100.00 ml/min
8/8/2023 5:45 PM	15:00	5.67 pH	20.75 °C	158.38 μS/cm	5.42 mg/L	29.00 NTU	160.7 mV	14.99 ft	100.00 ml/min
8/8/2023 5:50 PM	20:00	5.63 pH	20.83 °C	160.33 μS/cm	5.38 mg/L	29.70 NTU	125.4 mV	14.99 ft	100.00 ml/min
8/8/2023 5:55 PM	25:00	5.63 pH	20.84 °C	160.00 μS/cm	5.34 mg/L	26.10 NTU	119.8 mV	14.99 ft	100.00 ml/min

Samples

Sample ID:	Description:
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Test Date / Time: 8/9/2023 10:03:04 AM

Project: Arkwright

Operator Name: Dylan Quintal

Location Name: Arkwright, AP-2,

ARGWA-20

Latitude: 32.9236207144085 Longitude: -83.7023596465588

Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 27.7 ft Total Depth: 37.7 ft

Initial Depth to Water: 15.01 ft

Pump Type: Dedicated QED Bladder

Tubing Type: LDPE

Pump Intake From TOC: 32.7 ft Estimated Total Volume Pumped:

7223.333 ml

Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min

Final Draw Down: 0 ft

Instrument Used: Aqua TROLL 400

Serial Number: 843593

Test Notes:

Hydrogen sulfide test result: NA. No samples taken due to high turbidity. This low-flow test report represents part 3/4 for ARGWA-20.

Weather Conditions:

Sunny, 80F

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.33	
8/9/2023 10:03 AM	00:00	5.60 pH	20.61 °C	159.87 μS/cm	5.48 mg/L	29.50 NTU	129.5 mV	15.01 ft	100.00 ml/min
8/9/2023 10:06 AM	03:00	5.58 pH	19.90 °C	159.21 μS/cm	5.47 mg/L	28.50 NTU	116.2 mV	15.01 ft	100.00 ml/min
8/9/2023 10:09 AM	06:00	5.56 pH	19.59 °C	159.21 μS/cm	5.52 mg/L	29.90 NTU	114.1 mV	15.01 ft	100.00 ml/min
8/9/2023 10:12 AM	09:00	5.56 pH	19.74 °C	159.84 μS/cm	5.54 mg/L	28.20 NTU	114.4 mV	15.01 ft	100.00 ml/min
8/9/2023 10:15 AM	12:00	5.56 pH	19.80 °C	159.62 μS/cm	5.53 mg/L	27.50 NTU	113.8 mV	15.01 ft	100.00 ml/min
8/9/2023 10:18 AM	15:00	5.56 pH	19.78 °C	158.93 μS/cm	5.52 mg/L	26.90 NTU	114.3 mV	15.01 ft	100.00 ml/min
8/9/2023 10:21 AM	18:00	5.55 pH	19.71 °C	159.13 μS/cm	5.51 mg/L	29.60 NTU	113.7 mV	15.01 ft	100.00 ml/min
8/9/2023 10:24 AM	21:00	5.56 pH	19.63 °C	158.49 μS/cm	5.49 mg/L	25.90 NTU	114.2 mV	15.01 ft	100.00 ml/min
8/9/2023 10:27 AM	24:00	5.56 pH	19.62 °C	159.16 μS/cm	5.52 mg/L	31.00 NTU	113.4 mV	15.01 ft	100.00 ml/min
8/9/2023 10:30 AM	27:00	5.58 pH	19.77 °C	159.83 μS/cm	5.50 mg/L	27.00 NTU	113.8 mV	15.01 ft	100.00 ml/min
8/9/2023 10:33 AM	30:00	5.58 pH	19.72 °C	160.11 μS/cm	5.52 mg/L	26.30 NTU	112.8 mV	15.01 ft	100.00 ml/min
8/9/2023 10:36 AM	33:00	5.59 pH	19.68 °C	159.24 µS/cm	5.49 mg/L	29.50 NTU	113.7 mV	15.01 ft	100.00 ml/min

8/9/2023									
10:39 AM	36:00	5.59 pH	19.70 °C	160.00 µS/cm	5.50 mg/L	29.00 NTU	112.6 mV	15.01 ft	100.00 ml/min
8/9/2023	27.44	5 50 -11	40.74.90	450.400/2	5 50 mm m/l	07.00 NTU	420.2\/	45.04.6	400 00 1/ :
10:40 AM	37:14	5.59 pH	19.71 °C	159.49 μS/cm	5.50 mg/L	27.80 NTU	139.3 mV	15.01 ft	100.00 ml/min
8/9/2023	42:14	5.59 pH	19.86 °C	159.85 µS/cm	5.53 mg/L	26.10 NTU	150.3 mV	15.01 ft	100.00 ml/min
10:45 AM	42.14	3.39 pm	19.00 C	139.03 µ3/сті	3.33 Hg/L	20.10 1110	150.51117	13.0111	100.00 111/111111
8/9/2023	47:14	5.59 pH	19.86 °C	160.52 µS/cm	5.52 mg/L	28.90 NTU	112.3 mV	15.01 ft	100.00 ml/min
10:50 AM	47.14	0.00 pm	13.00 0	100.02 μ0/0111	3.52 mg/L	20.50 1110	112.5 111	13.0111	100.00 1111/111111
8/9/2023	52:14	5.60 pH	19.81 °C	160.24 µS/cm	5.52 mg/L	28.00 NTU	114.9 mV	15.01 ft	100.00 ml/min
10:55 AM	02.14	0.00 pri	10.01	100.24 µ0/0111	0.02 mg/L	7.02g/ =		10.0111	100.00 111/111111
8/9/2023	57:14	5.60 pH	19.85 °C	159.51 µS/cm	5.50 mg/L	31.50 NTU	149.6 mV	15.01 ft	100.00 ml/min
11:00 AM	37.14	3.00 pm	13.03	100.01 до/ст	3.30 mg/L	31.501110	143.01110	10.0110	100.00 1111/111111
8/9/2023	01:02:14	5.60 pH	19.81 °C	160.15 µS/cm	5.53 mg/L	30.30 NTU	150.8 mV	15.01 ft	100.00 ml/min
11:05 AM	01.02.14	0.00 pri	10.01	100.10 µ0 /0111	0.00 mg/L	00.001110	100.0111	10.0111	100.00 111/111111
8/9/2023	01:07:14	5.61 pH	19.87 °C	160.10 µS/cm	5.52 mg/L	31.80 NTU	150.7 mV	15.01 ft	100.00 ml/min
11:10 AM	01.07.14	0.01 pm	10.07	100.10 до/оп	0.02 mg/L	01.001410	100.7 1117	10.0111	100.00 1111/111111
8/9/2023	01:12:14	5.61 pH	19.98 °C	160.12 µS/cm	5.52 mg/L	27.10 NTU	150.9 mV	15.01 ft	100.00 ml/min
11:15 AM	01.12.14	0.01 pm	13.36 6	100.12 μο/σπ	0.02 mg/L	27.10 1010	150.9 111	15.0111	100.00 1111/111111

Samples

Sample ID:	Description:
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Test Date / Time: 8/10/2023 9:00:14 AM

Project: Arkwright

Operator Name: Dylan Quintal

Location Name: Arkwright, AP-2,

ARGWA-20

Latitude: 32.9236207144085 Longitude: -83.7023596465588

Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 27.7 ft Total Depth: 37.7 ft

Initial Depth to Water: 14.97 ft

Pump Type: Dedicated QED Bladder

Tubing Type: LDPE

Pump Intake From TOC: 32.7 ft Estimated Total Volume Pumped:

1500 ml

Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min

Final Draw Down: 0 ft

Instrument Used: Aqua TROLL 400

Serial Number: 843593

Test Notes:

Hydrogen sulfide test result: 0.0 mg/L. This low-flow test report represents part 4/4 for ARGWA-20.

Weather Conditions:

Hydrogen sulfide test result:

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.33	
8/10/2023	00:00	5.53 pH	20.48 °C	156.11 µS/cm	5.43 mg/L	14.50 NTU	159.9 mV	14.97 ft	100.00 ml/min
9:00 AM	00.00	5.55 pri	20.46 C	130.11 μ3/cm	3.43 Hig/L	14.50 1410	139.9 1110	14.97 11	100.00 1111/111111
8/10/2023	05:00	5.53 pH	20.51 °C	153.93 µS/cm	5.48 mg/L	19.70 NTU	206.4 mV	14.97 ft	100.00 ml/min
9:05 AM	05.00	3.33 pri	20.51 0	133.93 μ3/6/11	3.40 Hig/L	19.70 1110	200.4 1117	14.57 10	100.00 1111/111111
8/10/2023	10:00	5.53 pH	20.44 °C	154.10 µS/cm	5.48 mg/L	18.60 NTU	207.2 mV	14.97 ft	100.00 ml/min
9:10 AM	10.00	3.33 pri	20.44 C	134.10 μ3/611	3.46 mg/L	18.00 1410	207.2 1110	14.97 11	100.00 1111/111111
8/10/2023	15:00	5.55 pH	20.39 °C	156.32 µS/cm	5.46 mg/L	21.50 NTU	205.3 mV	14.97 ft	100.00 ml/min
9:15 AM	15.00	5.55 μπ	20.39 C	130.32 μ3/011	3.40 Hig/L	21.30 NTO	203.3 1110	14.97 11	100.00 1111/111111

Samples

Sample ID:	Description:
ARK-ARGWA-20	10 bottles, Sample time: 0925

B.3 Calibration Data

Project Name: Arkwright Groundwater Sampling Plant Arkwright Plant Name: Date: 8/7/2023 5001 Arkwright Road, Macon, GA 31210 Plant Address: 175569434 Project Number: Page of Goal/Task: Groundwater Sampling Morning (AM) Calibration Calibrated By: Dylan Quintal Weather: Sunny, 95F Time (24hr) Start: 14:00 Time (24hr) Finish: 14:45 Acceptance Criteria Temperature (°C): Barometric Pressure (mbar): Local Weather Station: NIST Thermometer: 31.5 +/- 4°C Aqua TROLL 400: 1003.7 Agua TROLL 400: 31.8 Turbidity (NTUs): 20 NTU Standard 100 NTU Standard 800 NTU Standard 10 NTU Verification Acceptance Criteria 19.9 98.6 796 9.90 +/- 3 % **Calibration Value** Cal Sol Temp (°C) Post Calibration Acceptance Criteria Notes: +/- 1 % Specific Conductance 4,490 (µS/cm) 32.7 NA 4490 4490.3 pH 7 (SU) +/- .1 (SU) 33.3 7.00 6.97 NA pH 4 (SU) 4.00 4.02 +/- .1 (SU) 33.4 NA pH 10 (SU) 32.9 +/- .1 (SU) 10.00 9.92 NA D.O. (%) 95-105 % 32.7 N/A 100.8 NA ORP (mV) +/- 10 mV 32.8 228.0 228.3 NA Afternoon (PM) Calibration Verification Verification By: Dylan Quintal Weather: Partly cloudy, 94F Time (24hr) Start: 18:20 Time (24hr) Finish: 18:50 Acceptance Criteria Temperature (°C): Barometric Pressure (mbar): Local Weather Station: NIST Thermometer: 36.1 1012.5 +/- 4°C Aqua TROLL 400: Aqua TROLL 400: 35.5 1001.4 Turbidity (NTUs): 20 NTU Standard 100 NTU Standard 800 NTU Standard 10 NTU Verification Acceptance Criteria +/- 3 % 19.8 99 819 9.95 **Calibration Value** Verification Acceptance Criteria Cal Sol Temp (°C) Notes: Specific Conductance 4490 (µS/cm) +/- 1 % 4490 4491.7 35.3 NA pH 7 (SU) 7.00 6.95 +/- .1 (SU) 37.5 NA pH 4 (SU) +/- .1 (SU) 35.3 4.00 3.97 NA pH 10 (SU) +/- .1 (SU) 37.4 10.00 NA 9.90 D.O. (%) N/A 102.0 95-105 % 35.3 NA ORP (mV) 228.0 224.5 +/- 10 mV 37.3 NA Calibration Standards Information Standard (@ 25°C) Certified Value Lot Number **Expiration Date Brand** AM pH 4 (SU) 4.00 AIR 22250153 11/1/2023 AM pH 7 (SU) 7.00 AIR 2216893 11/1/2023 AM pH 10 (SU) 10.00 AIR 21320202 12/1/2023 РМ pH 4 (SU) 4.00 AIR 22250153 11/1/2023 PM pH 7 (SU) 7.00 AIR 2216893 11/1/2023 pH 10 (SU) PM 10.00 AIR 21320202 12/1/2023 Specific Conductance 4,490 (µS/cm) 4490 AIR 22250153 11/1/2023 ORP (mV) 228.0 AIR 21390144 11/1/2023 Turbidity - 20 NTU Hach A2231 Dec-23 Turbidity - 100 NTU 100 A2239 1-Dec Hach Turbidity - 800 NTU 800 Hach A2231 Dec-23 Turbidity - 10 NTU 10.0 Hach A2264 Instruments Calibrated Within Manufacturer Model Serial Number Acceptance Criteria Water Quality Meter AquaTroll 400 InSitu 843593 Yes Hach Turbidity Meter 2100Q 22090D000337 Yes NIST Thermometer Thomas Instruments NIST Thermometer 221620123 Expiration Date: 6/28/2024 **Explanations:** Noelia Gangi from GPC auditing calibration and sampling.

Prepared By:

Review By:

Dylan Quintal

Calli Provenza

Date:

Date:

8/7/2023

8/8/2023

Sianature:

Signature:

Dylan Quintal =

Project Name: Arkwright Groundwater Sampling Plant Arkwright Plant Name: Date: 8/7/2023 5001 Arkwright Road, Macon, GA 31210 Plant Address: 175569434 Project Number: Page of Goal/Task: Groundwater Sampling Morning (AM) Calibration Calibrated By: Zach Levy Weather: Partly Cloudy 98 F Time (24hr) Start: 13:46 14:38 Time (24hr) Finish: Acceptance Criteria Temperature (°C): Barometric Pressure (mBar): Local Weather Station: NIST Thermometer: 29.0 +/- 4°C Aqua TROLL 400: Agua TROLL 400: 28.9 1001.8 Turbidity (NTUs): 20 NTU Standard 100 NTU Standard 800 NTU Standard 10 NTU Verification Acceptance Criteria 20.0 99.3 784 10.2 +/- 3 % **Calibration Value** Cal Sol Temp (°C) Post Calibration Acceptance Criteria Notes: +/- 1 % Specific Conductance 4,490 (µS/cm) 29.0 NA 4492.6 4486.5 pH 7 (SU) +/- .1 (SU) 29.7 7.00 7.04 NA pH 4 (SU) 4.00 4.06 +/- .1 (SU) 30.9 NA pH 10 (SU) 29.4 +/- .1 (SU) 10.00 9.95 NA D.O. (%) 95-105 % 30.2 N/A 100.2 NA ORP (mV) +/- 10 mV 29.8 NA 228.0 227.8 Afternoon (PM) Calibration Verification Verification By: John Myer Weather: Mostly Cloudy 94 F Time (24hr) Finish: Time (24hr) Start: 18:26 18:45 Acceptance Criteria Temperature (°C): Barometric Pressure (mbar): Local Weather Station: NIST Thermometer: 33.0 1001.4 +/- 4°C Aqua TROLL 400: 34.5 999.7 Turbidity (NTUs): 20 NTU Standard 100 NTU Standard 800 NTU Standard 10 NTU Verification Acceptance Criteria +/- 3 % 20.5 101 817 10.2 **Calibration Value** Verification Acceptance Criteria Cal Sol Temp (°C) Notes: Specific Conductance 4490 (µS/cm) +/- 1 % 4490 4455 37.7 NA pH 7 (SU) 7.00 7.06 +/- .1 (SU) 35.2 NA pH 4 (SU) +/- .1 (SU) 36.6 4.00 4.02 NA pH 10 (SU) +/- .1 (SU) 34.3 10.00 9.97 NA D.O. (%) NA 100.4 95-105 % 40.7 NA ORP (mV) 228.0 218.8 +/- 10 mV 32.7 NA Calibration Standards Information Standard (@ 25°C) Certified Value Lot Number **Expiration Date Brand** AM pH 4 (SU) 4.00 AIR 22250153 11/30/2023 AM pH 7 (SU) 7.00 AIR 22140169 8/31/2023 AM pH 10 (SU) 10.00 AIR 22110130 8/31/2023 РМ pH 4 (SU) 4.00 AIR 22250153 11/30/2023 PM pH 7 (SU) 7.00 AIR 22140169 8/31/2023 PM pH 10 (SU) 22140169 10.00 AIR 8/31/2023 Specific Conductance 4,490 (µS/cm) 4490 AIR 22250153 11/30/2023 ORP (mV) 228.0 AIR 22200085 8/31/2023 Hach Turbidity - 20 NTU A3187 10/31/2024 Turbidity - 100 NTU 10/31/2024 100 Hach A3186 Turbidity - 800 NTU 800 Hach A3166 9/30/2024 Turbidity - 10 NTU 10.0 Hach A3173 9/30/2024 Instruments Calibrated Within Manufacturer Model **Serial Number** Acceptance Criteria Water Quality Meter AquaTroll 400 InSitu 728541 Turbidity Meter Hach 2100Q 2306D000342 NIST Thermometer Thomas Instruments NIST Thermometer 221620123 Expiration Date: 6/28/2024 **Explanations:** NA

Prepared By:

Review By:

Zach Levy/John Myer

Calli Provenza

Date:

Date:

8/7/2023

8/8/2023

20 WO Myon

Signature:

Signature:

Zwherz Lug

Project Name: Arkwright Groundwater Sampling Plant Arkwright Plant Name: Date: 8/7/2023 5001 Arkwright Road, Macon, GA 31210 Plant Address: Project Number: 175569434 Page of Goal/Task: Groundwater Sampling Morning (AM) Calibration Calibrated By: Dylan Ripley Weather: Sunny Partly Cloudy Time (24hr) Start: 13:50 Time (24hr) Finish: 14:40 Acceptance Criteria Temperature (°C): Barometric Pressure (mbar): Local Weather Station: NIST Thermometer: 30.1 +/- 4°C Aqua TROLL 400: 1003.0 Agua TROLL 400: 33.0 Turbidity (NTUs): 20 NTU Standard 100 NTU Standard 800 NTU Standard 10 NTU Verification Acceptance Criteria 20.0 99.7 793 9.83 +/- 3 % **Calibration Value** Cal Sol Temp (°C) Post Calibration Acceptance Criteria Notes: Specific Conductance 4,490 (µS/cm) +/- 1 % NA 4490 4476.2 pH 7 (SU) +/- .1 (SU) 32.7 7.00 6.98 NA pH 4 (SU) 4.00 4.02 +/- .1 (SU) 33.4 NA pH 10 (SU) 32.6 +/- .1 (SU) 10.00 9.91 NA D.O. (%) 95-105 % 33.0 N/A 102.8 NA ORP (mV) +/- 10 mV 34.3 NA 228.0 228.1 Afternoon (PM) Calibration Verification Verification By: Dylan Ripley Weather: Partly Cloudy/Scattered T-storms Time (24hr) Start: Time (24hr) Finish: 18:20 18:42 Acceptance Criteria Temperature (°C): Barometric Pressure (mbar): Local Weather Station: NIST Thermometer: 31.1 1012.9 +/- 4°C Aqua TROLL 400: Aqua TROLL 400: 30.8 1000.8 Turbidity (NTUs): 20 NTU Standard 100 NTU Standard 800 NTU Standard 10 NTU Verification Acceptance Criteria +/- 3 % 19.9 101 805 9.96 **Calibration Value** Verification Acceptance Criteria Cal Sol Temp (°C) Notes: Specific Conductance 4490 (µS/cm) +/- 1 % 4490 4489.6 27.6 NA pH 7 (SU) 7.00 7.05 +/- .1 (SU) 30.5 NA pH 4 (SU) +/- .1 (SU) 27.6 4.00 4.10 NA pH 10 (SU) +/- .1 (SU) 31.6 10.00 NA 10.01 D.O. (%) N/A 101.6 95-105 % 32.8 NA ORP (mV) 228.0 230.8 +/- 10 mV 32.1 NA Calibration Standards Information Standard (@ 25°C) Certified Value Lot Number **Expiration Date Brand** AM pH 4 (SU) 4.00 AIR 22250153 11/1/2023 AM pH 7 (SU) 7.00 AIR 2216893 11/1/2023 AM pH 10 (SU) 10.00 AIR 21320202 12/1/2023 РМ pH 4 (SU) 4.00 AIR 22250153 11/1/2023 PM pH 7 (SU) 11/1/2023 7.00 AIR 2216893 PM pH 10 (SU) 10.00 AIR 21320202 12/1/2023 Specific Conductance 4,490 (µS/cm) 4490 AIR 22250153 11/1/2023 ORP (mV) 228.0 AIR 21390144 11/1/2023 Hach Turbidity - 20 NTU A2231 23-Dec Turbidity - 100 NTU 23-Dec 100 A2239 Hach Turbidity - 800 NTU 800 Hach A2231 23-Dec Turbidity - 10 NTU 10.0 Hach A2264

Instruments

Serial Number

883561

22070D000463

221620123

Signature:

Signature:

NA

Model

AquaTroll 400

2100Q

NIST Thermometer

8/8/2023

8/7/2023

Manufacturer

InSitu

Hach

Thomas Instruments

Date:

Date:

Dylan Ripley

Calli Provenza

Water Quality Meter

NIST Thermometer

Explanations:

Prepared By:

Review By:

Turbidity Meter

Calibrated Within

Acceptance Criteria

Yes

Yes

6/28/2024

Expiration Date:

Project Name: Arkwright Groundwater Sampling Plant Arkwright Plant Name: Date: 8/7/2023 5001 Arkwright Road, Macon, GA 31210 Plant Address: 175569434 Project Number: Page of Goal/Task: Groundwater Sampling Morning (AM) Calibration Calibrated By: Houston Lynn Weather: Mostly Sunny 94 F Time (24hr) Start: 14:00 Time (24hr) Finish: 15:00 Acceptance Criteria Temperature (°C): Barometric Pressure (mbar): Local Weather Station: NIST Thermometer: 33.2 +/- 4°C Aqua TROLL 400: 1002.9 Agua TROLL 400: 33.1 Turbidity (NTUs): 20 NTU Standard 100 NTU Standard 800 NTU Standard 10 NTU Verification Acceptance Criteria 19.9 97 781 10.2 +/- 3 % **Calibration Value** Cal Sol Temp (°C) Post Calibration Acceptance Criteria Notes: Specific Conductance 4,490 (µS/cm) +/- 1 % NA 4490 4498.2 pH 7 (SU) +/- .1 (SU) 33.0 7.00 6.95 NA pH 4 (SU) 4.00 4.02 +/- .1 (SU) 32.0 NA pH 10 (SU) 33.0 +/- .1 (SU) 10.00 10.00 NA D.O. (%) 95-105 % 33.2 N/A 100.8 NA ORP (mV) +/- 10 mV 228.0 227.6 NA Afternoon (PM) Calibration Verification Verification By: Houston Lynn Weather: Partly cloudy 94 F Time (24hr) Start: 18:22 Time (24hr) Finish: 18:45 Acceptance Criteria Temperature (°C): Barometric Pressure (mbar): Local Weather Station: NIST Thermometer: 35.3 1001.4 +/- 4°C Aqua TROLL 400: 35.6 1001.0 Turbidity (NTUs): 20 NTU Standard 100 NTU Standard 800 NTU Standard 10 NTU Verification Acceptance Criteria +/- 3 % 20.1 98.7 788 10.1 **Calibration Value** Verification Acceptance Criteria Cal Sol Temp (°C) Notes: Specific Conductance 4490 (µS/cm) +/- 1 % 4578 4566.8 38.7 NA pH 7 (SU) 7.00 6.94 +/- .1 (SU) 37.0 NA pH 4 (SU) +/- .1 (SU) 38.6 4.00 4.03 NA pH 10 (SU) +/- .1 (SU) 37.5 10.00 NA 9.95 D.O. (%) N/A 97.1 95-105 % 34.8 NA ORP (mV) 228.0 220.8 +/- 10 mV 35.2 NA Calibration Standards Information Standard (@ 25°C) Certified Value Lot Number **Expiration Date Brand** AM pH 4 (SU) 4.00 AIR 22250153 11/1/2023 AM pH 7 (SU) AIR 2216893 11/1/2023 10.00 AIR 22110130 4/1/2024 AM pH 10 (SU) ΡМ pH 4 (SU) 4.00 AIR 22250153 11/1/2023 PM pH 7 (SU) 2216893 7.00 AIR 11/1/2023 PM pH 10 (SU) 10.00 AIR 22110130 4/1/2024 Specific Conductance 4,490 (µS/cm) 22250153 4490 AIR 11/1/2023 ORP (mV) 11/1/2023 228.0 AIR 21390144 Turbidity - 20 NTU 20.0 Hach A2231 23-Dec Turbidity - 100 NTU 100 Hach A2239 23-Dec Turbidity - 800 NTU 800 Hach A2231 31-Dec Turbidity - 10 NTU A2264 24-Jan 10.0 Hach Instruments Calibrated Within Manufacturer Serial Number Model Acceptance Criteria Water Quality Meter InSitu AquaTroll 400 SN:966105 2100Q S/N12050C017705 Turbidity Meter Hach NIST Thermometer NIST Thermometer Thomas Instruments 22160123 Expiration Date: 6.28.2024

Date:

Date:

Houston Lynn

Calli Provenza

8/7/2023

8/8/2023

Explanations:

Prepared By:

Review By:

NA

Signature:

Signature:

Project Name: Arkwright Groundwater Sampling Plant Arkwright Plant Name: Date: 8/8/2023 5001 Arkwright Road, Macon, GA 31210 Plant Address: 175569434 Project Number: Page of Goal/Task: Groundwater Sampling Morning (AM) Calibration Calibrated By: Houston Lynn Weather: Sunny 69 F Time (24hr) Start: 7:00 Time (24hr) Finish: 7:26 Acceptance Criteria Temperature (°C): Barometric Pressure (mbar): Local Weather Station: NIST Thermometer: 23.9 +/- 4°C Aqua TROLL 400: Agua TROLL 400: 23.6 1003.2 Turbidity (NTUs): 20 NTU Standard 100 NTU Standard 800 NTU Standard 10 NTU Verification Acceptance Criteria 20.5 101 801 10.3 +/- 3 % **Calibration Value** Cal Sol Temp (°C) Post Calibration Acceptance Criteria Notes: Specific Conductance 4,490 (µS/cm) +/- 1 % 24.8 NA 4490 4481.7 pH 7 (SU) +/- .1 (SU) 24.5 7.00 7.00 NA pH 4 (SU) 4.00 4.03 +/- .1 (SU) 24.8 NA pH 10 (SU) 24.3 +/- .1 (SU) 10.00 10.00 NA D.O. (%) 95-105 % 23.5 N/A 99.6 NA ORP (mV) +/- 10 mV 24.1 228.0 227.8 NA Afternoon (PM) Calibration Verification Houston Lynn Verification By: Weather: Cloudy 82 F Time (24hr) Start: 12:47 Time (24hr) Finish: 13:02 Acceptance Criteria Temperature (°C): Barometric Pressure (mbar): Local Weather Station: NIST Thermometer: 30.4 1003.6 +/- 4°C Aqua TROLL 400: 29.7 1002.7 Turbidity (NTUs): 20 NTU Standard 100 NTU Standard 800 NTU Standard 10 NTU Verification Acceptance Criteria +/- 3 % 20.1 99.5 789 10.2 **Calibration Value** Verification Acceptance Criteria Cal Sol Temp (°C) Notes: Specific Conductance 4490 (µS/cm) +/- 1 % 4490 4509.7 29.8 NA pH 7 (SU) 7.00 7.00 +/- .1 (SU) 29.0 NA pH 4 (SU) +/- .1 (SU) 29.8 4.00 4.05 NA pH 10 (SU) +/- .1 (SU) 28.4 10.00 NA 9.93 D.O. (%) N/A 103.4 95-105 % 27.7 NA ORP (mV) 228.0 229.6 +/- 10 mV 28.2 NA Calibration Standards Information Standard (@ 25°C) Certified Value Lot Number **Expiration Date Brand** AM pH 4 (SU) 4.00 AIR 22250153 11/1/2023 AM pH 7 (SU) 7.00 AIR 2216893 11/1/2023 10.00 AIR 22110130 4/1/2024 AM pH 10 (SU) ΡМ pH 4 (SU) 4.00 AIR 22250153 11/1/2023 PM pH 7 (SU) 2216893 11/1/2023 7.00 AIR PM pH 10 (SU) 10.00 AIR 22110130 4/1/2024 Specific Conductance 4,490 (µS/cm) 22250153 4490 AIR 11/1/2023 ORP (mV) 11/1/2023 228.0 AIR 21390144 Turbidity - 20 NTU 20.0 Hach A2231 23-Dec Turbidity - 100 NTU 100 Hach A2239 23-Dec Turbidity - 800 NTU 800 Hach A2231 31-Dec Turbidity - 10 NTU A2264 24-Jan 10.0 Hach Instruments Calibrated Within Manufacturer Serial Number Model Acceptance Criteria Water Quality Meter InSitu AquaTroll 400 SN:966105 2100Q S/N12050C017705 Turbidity Meter Hach

NIST Thermometer

8/10/2023

8/8/2023

22160123

Signature:

Signature:

N/A

Expiration Date: 6.28.2024

Houston Lynn

Thomas Instruments

Houston Lynn

Calli Provenza

Date:

Date:

NIST Thermometer

Explanations:

Prepared By:

Review By:

Project Name: Arkwright Groundwater Sampling Plant Arkwright Plant Name: Date: 8/8/2023 5001 Arkwright Road, Macon, GA 31210 Plant Address: 175569434 Project Number: Page of Goal/Task: Groundwater Sampling Morning (AM) Calibration Calibrated By: Zach Levy Weather: Clear Time (24hr) Start: 7:35 Time (24hr) Finish: 8:05 Acceptance Criteria Temperature (°C): Barometric Pressure (mbar): Local Weather Station: NIST Thermometer: 22.4 +/- 4°C Aqua TROLL 400: 1004.1 Agua TROLL 400: 23.2 Turbidity (NTUs): 20 NTU Standard 100 NTU Standard 800 NTU Standard 10 NTU Verification Acceptance Criteria 20.1 100 807 10.2 +/- 3 % **Calibration Value** Cal Sol Temp (°C) Post Calibration Acceptance Criteria Notes: Specific Conductance 4,490 (µS/cm) +/- 1 % 24.7 NA 4490 4494.9 pH 7 (SU) +/- .1 (SU) 25.0 7.00 6.99 NA pH 4 (SU) 4.00 4.09 +/- .1 (SU) 24.8 NA pH 10 (SU) 25.0 +/- .1 (SU) 10.00 10.03 NA D.O. (%) 95-105 % 24.2 N/A 100.0 NA ORP (mV) +/- 10 mV 24.8 NA 228.0 227.8 Afternoon (PM) Calibration Verification Verification By: John Myer Weather: Sunny 91 F Time (24hr) Finish: Time (24hr) Start: 13:55 14:20 Acceptance Criteria Temperature (°C): Barometric Pressure (mbar): Local Weather Station: NIST Thermometer: 34.2 1003.4 +/- 4°C Aqua TROLL 400: 35.5 1005.7 Turbidity (NTUs): 20 NTU Standard 100 NTU Standard 800 NTU Standard 10 NTU Verification Acceptance Criteria +/- 3 % 20.2 100 787 10.1 **Calibration Value** Verification Acceptance Criteria Cal Sol Temp (°C) Notes: Specific Conductance 4490 (µS/cm) +/- 1 % 4490 4495 30.5 NA pH 7 (SU) 7.00 6.99 +/- .1 (SU) 29.4 NA pH 4 (SU) +/- .1 (SU) 28.9 4.00 4.01 NA pH 10 (SU) +/- .1 (SU) 28.6 10.00 NA 9.95 D.O. (%) N/A 97.2 95-105 % 32.0 NA ORP (mV) 228.0 220.0 +/- 10 mV 28.4 NA Calibration Standards Information Standard (@ 25°C) Certified Value Lot Number **Expiration Date Brand** AM pH 4 (SU) 4.00 AIR 22250153 11/30/2023 AM pH 7 (SU) 7.00 AIR 2216893 11/30/2023 AM pH 10 (SU) 10.00 AIR 22110130 4/30/2024 РМ pH 4 (SU) 4.00 AIR 22250153 11/30/2023 PM pH 7 (SU) 7.00 AIR 2216893 11/30/2023 PM pH 10 (SU) 22110130 10.00 AIR 4/30/2024 Specific Conductance 4,490 (µS/cm) 4490 AIR 22250153 11/30/2023 ORP (mV) 228.0 AIR 21390144 11/30/2023 Hach Turbidity - 20 NTU A3187 10/31/2024 Turbidity - 100 NTU 10/31/2024 100 Hach A3186 Turbidity - 800 NTU 800 Hach A3166 9/30/2024 Turbidity - 10 NTU 10.0 Hach A3173 9/30/2024 Instruments Calibrated Within Serial Number Manufacturer Model Acceptance Criteria Water Quality Meter AquaTroll 400 InSitu 883546 Turbidity Meter Hach 2100Q 23060D000344 NIST Thermometer Thomas Instruments NIST Thermometer 221620123 Expiration Date: 6/28/2024 **Explanations:** NA

Prepared By:

Review By:

Zach Levy/John Myer

Calli Provenza

Date:

Date:

8/8/2023

8/9/2023

Signature: John Myon Zuhory Long

Signature:

Project Name: Arkwright Groundwater Sampling Plant Arkwright Plant Name: Date: 8/9/2023 5001 Arkwright Road, Macon, GA 31210 Plant Address: Project Number: 175569434 Page of Goal/Task: **Groundwater Sampling** Morning (AM) Calibration Calibrated By: Dylan Ripley Weather: Sunny and clear Time (24hr) Start: 6:55 Time (24hr) Finish: 7:46 Acceptance Criteria Temperature (°C): Barometric Pressure (mbar): NIST Thermometer: 25.5 Local Weather Station: +/- 4°C Aqua TROLL 400: Aqua TROLL 400: 1003.0 23.3 Turbidity (NTUs): Acceptance Criteria 20 NTU Standard 100 NTU Standard 800 NTU Standard 10 NTU Verification 20.1 102 805 9.81 +/- 3 % **Calibration Value** Post Calibration Acceptance Criteria Cal Sol Temp (°C) Notes: Specific Conductance 4,490 (µS/cm) +/- 1 % 23.3 4475.9 4490 NA pH 7 (SU) 7.00 7.10 +/- .1 (SU) 24.4 NA pH 4 (SU) 4.00 4.10 +/- .1 (SU) 24.4 NA pH 10 (SU) +/- .1 (SU) 24.6 NA 10.00 10.10 D.O. (%) 95-105 % 24.3 N/A 97.4 NA ORP (mV) 228.0 231.2 +/- 10 mV 24.3 NA

Afternoon (PM) Calibration Verification			Verification By:	Dylan Ripley	
Weather:			Sunny and Clear		
Time (24hr) Start:	13:20	Acceptance Criteria	Time (24hr) Finish:	14:45	
Temperature (°C)):	Acceptance Chiena	Baro	metric Pressure (mbar):	
NIST Thermometer:	28.9	+/- 4°C	Local Weather Station:	1014.6	
Aqua TROLL 400:	28.7	+/- 4 C	Aqua TROLL 400:	1002.1	
Turbidity (NTUs):	20 NTU Standard	100 NTU Standard	800 NTU Standard	10 NTU Verification	Acceptance Criteria
	19.4	98.8	802	10.1	+/- 3 %
	Calibration Value	Verification	Acceptance Criteria	Cal Sol Temp (°C)	Notes:
Specific Conductance 4490 (µS/cm)	4490	4486.2	+/- 1 %	26.7	NA
pH 7 (SU)	7.00	6.98	+/1 (SU)	29.0	NA
pH 4 (SU)	4.00	4.02	+/1 (SU)	28.7	NA
pH 10 (SU)	10.00	9.99	+/1 (SU)	29.4	NA
D.O. (%)	N/A	99.9	95-105 %	30.9	NA
ORP (mV)	228.0	227.7	+/- 10 mV	29.0	NA
		Calibratian Standarda Info	um atlan		

Calibration Standards Information						
Standard (@ 25°C)	Certified Value	Brand	Lot Number	Expiration Date		
AM pH 4 (SU)	4.00	AIR	22250153	11/1/2023		
AM pH 7 (SU)	7.00	AIR	2216893	11/1/2023		
AM pH 10 (SU)	10.00	AIR	21320202	12/1/2023		
PM pH 4 (SU)	4.00	AIR	22250153	11/1/2023		
PM pH 7 (SU)	7.00	AIR	2216893	11/1/2023		
PM pH 10 (SU)	10.00	AIR	21320202	12/1/2023		
Specific Conductance 4,490 (μS/cm)	4490	AIR	22250153	11/1/2023		
ORP (mV)	228.0	AIR	21390144	11/1/2023		
Turbidity - 20 NTU	20.0	Hach	A2231	23-Dec		
Turbidity - 100 NTU	100	Hach	A2239	23-Dec		
Turbidity - 800 NTU	800	Hach	A2231	23-Dec		
Turbidity - 10 NTU	10.0	Hach	A2264	24-Jan		

		Instruments		Calibrated Within
	Manufacturer	Model	Serial Number	Acceptance Criteria:
Water Quality Meter	InSitu	AquaTroll 400	883561	Yes
Turbidity Meter	Hach	2100Q	22070D000463	Yes
NIST Thermometer	Thomas Instruments	NIST Thermometer	221620193	Expiration Date: 6/28/2024
			-	

NA

Prepared By: _____ Dylan Ripley ____ Date: ____ 8/9/2023 ____ Signature: _____ Anglan Mightay ______ Review By: Calli Provenza _____ Date: ____ 8/10/2023 Signature:

Explanations:

Project Name: Arkwright Groundwater Sampling Plant Arkwright Plant Name: Date: 8/7/2023 5001 Arkwright Road, Macon, GA 31210 Plant Address: 175569434 Project Number: Page of Goal/Task: Groundwater Sampling Morning (AM) Calibration Calibrated By: Houston Lynn Weather: Mostly Sunny 75 F Time (24hr) Start: 7:00 Time (24hr) Finish: 7:36 Acceptance Criteria Temperature (°C): Barometric Pressure (mbar): Local Weather Station: NIST Thermometer: 25.9 +/- 4°C Aqua TROLL 400: 1003.0 Agua TROLL 400: 25.7 Turbidity (NTUs): 20 NTU Standard 100 NTU Standard 800 NTU Standard 10 NTU Verification Acceptance Criteria 19.7 102 794 10.1 +/- 3 % **Calibration Value** Cal Sol Temp (°C) Post Calibration Acceptance Criteria Notes: Specific Conductance 4,490 (µS/cm) +/- 1 % NA 4490 4495.1 pH 7 (SU) +/- .1 (SU) 26.0 7.00 7.03 NA pH 4 (SU) 4.00 4.00 +/- .1 (SU) 26.0 NA pH 10 (SU) 26.0 +/- .1 (SU) 10.00 10.01 NA D.O. (%) 95-105 % 24.7 N/A 100.8 NA ORP (mV) +/- 10 mV 228.0 227.6 NA Afternoon (PM) Calibration Verification Verification By: Houston Lynn Weather: Partly cloudy 90 F Time (24hr) Start: Time (24hr) Finish: 13:16 13:32 Acceptance Criteria Temperature (°C): Barometric Pressure (mbar): Local Weather Station: NIST Thermometer: 32.6 +/- 4°C Aqua TROLL 400: 32.3 1005.3 Turbidity (NTUs): 20 NTU Standard 100 NTU Standard 800 NTU Standard 10 NTU Verification Acceptance Criteria +/- 3 % 19.6 97.6 789 10.2 **Calibration Value** Verification Acceptance Criteria Cal Sol Temp (°C) Notes: Specific Conductance 4490 (µS/cm) +/- 1 % 4490 4466.9 32.2 NA pH 7 (SU) 7.00 7.01 +/- .1 (SU) 30.3 NA pH 4 (SU) +/- .1 (SU) 32 2 4.00 4.05 NA pH 10 (SU) +/- .1 (SU) 30.6 10.00 9.95 NA D.O. (%) N/A 104.9 95-105 % 30.8 NA ORP (mV) 228.0 220.8 +/- 10 mV 30.5 NA Calibration Standards Information Standard (@ 25°C) Certified Value Lot Number **Expiration Date Brand** AM pH 4 (SU) 4.00 AIR 22250153 11/1/2023 AM pH 7 (SU) AIR 2216893 11/1/2023 10.00 AIR 22110130 4/1/2024 AM pH 10 (SU) ΡМ pH 4 (SU) 4.00 AIR 22250153 11/1/2023 PM pH 7 (SU) 2216893 11/1/2023 7.00 AIR PM pH 10 (SU) 10.00 AIR 22110130 4/1/2024 Specific Conductance 4,490 (µS/cm) 22250153 4490 AIR 11/1/2023 ORP (mV) 11/1/2023 228.0 AIR 21390144 Turbidity - 20 NTU 20.0 Hach A2231 23-Dec Turbidity - 100 NTU 100 Hach A2239 23-Dec Turbidity - 800 NTU 800 Hach A2231 31-Dec Turbidity - 10 NTU A2264 24-Jan 10.0 Hach Instruments Calibrated Within Manufacturer Serial Number Model Acceptance Criteria Water Quality Meter InSitu AquaTroll 400 SN:966105 2100Q S/N12050C017705 Turbidity Meter Hach NIST Thermometer NIST Thermometer Thomas Instruments 22160123 Expiration Date: 6.28.2024

Date:

Date:

Houston Lynn

Calli Provenza

8/9/2023

8/9/2023

Explanations:

Prepared By:

Review By:

None

Signature:

Signature:

Project Name: Arkwright Groundwater Sampling Plant Arkwright Plant Name: Date: 8/9/2023 5001 Arkwright Road, Macon, GA 31210 Plant Address: Project Number: 175569434 Page of Goal/Task: Groundwater Sampling Morning (AM) Calibration Calibrated By: Zach Levy Weather: Clear Time (24hr) Start: 7:20 Time (24hr) Finish: 7:55 Acceptance Criteria Temperature (°C): Barometric Pressure (mbar): Local Weather Station: NIST Thermometer: 23.6 +/- 4°C Aqua TROLL 400: 1004.2 Agua TROLL 400: 22 5 Turbidity (NTUs): 20 NTU Standard 100 NTU Standard 800 NTU Standard 10 NTU Verification Acceptance Criteria 20.0 99.9 793 10.2 +/- 3 % **Calibration Value** Cal Sol Temp (°C) Post Calibration Acceptance Criteria Notes: Specific Conductance 4,490 (µS/cm) +/- 1 % 23.0 NA 4490 4490.9 pH 7 (SU) +/- .1 (SU) 23.3 7.00 7.03 NA pH 4 (SU) 4.00 4.05 +/- .1 (SU) 23.1 NA pH 10 (SU) 23.3 +/- .1 (SU) 10.00 10.01 NA D.O. (%) 95-105 % 22.9 N/A 100.0 NA ORP (mV) +/- 10 mV 23.2 NA 228.0 227.8 Afternoon (PM) Calibration Verification Verification By: John Myer Weather: Sunny 91 F Time (24hr) Finish: Time (24hr) Start: 15:45 16:15 Acceptance Criteria Temperature (°C): Barometric Pressure (mbar): Local Weather Station: NIST Thermometer: 34.7 1001.6 +/- 4°C Aqua TROLL 400: 34.2 1001.7 Turbidity (NTUs): 20 NTU Standard 100 NTU Standard 800 NTU Standard 10 NTU Verification Acceptance Criteria +/- 3 % 20.0 103 803 10.2 **Calibration Value** Verification Acceptance Criteria Cal Sol Temp (°C) Notes: Specific Conductance 4490 (µS/cm) +/- 1 % 4490 34.1 4454 NA pH 7 (SU) 7.00 6.99 +/- .1 (SU) 31.4 NA pH 4 (SU) +/- .1 (SU) 31 1 4.00 4.01 NA pH 10 (SU) +/- .1 (SU) 31.2 10.00 NA 9.95 D.O. (%) N/A 99.0 95-105 % 35.4 NA ORP (mV) 228.0 220.5 +/- 10 mV 31.9 NA Calibration Standards Information Standard (@ 25°C) Certified Value Lot Number **Expiration Date Brand** AM pH 4 (SU) 4.00 AIR 22250153 11/30/2023 AM pH 7 (SU) 7.00 AIR 2216893 11/30/2023 AM pH 10 (SU) 10.00 AIR 22110130 4/30/2024 РМ pH 4 (SU) 4.00 AIR 22250153 11/30/2023 PM pH 7 (SU) 7.00 AIR 2216893 11/30/2023 PM pH 10 (SU) 22110130 10.00 AIR 4/30/2024 Specific Conductance 4,490 (µS/cm) 4490 AIR 22250153 11/30/2023 ORP (mV) 228.0 AIR 21390144 11/30/2023 Hach Turbidity - 20 NTU A3187 10/31/2024 Turbidity - 100 NTU 10/31/2024 100 Hach A3186 Turbidity - 800 NTU 800 Hach A3166 9/30/2024 Turbidity - 10 NTU 10.0 Hach A3173 9/30/2024 Instruments Calibrated Within Serial Number Manufacturer Model Acceptance Criteria

AquaTroll 400

2100Q

NIST Thermometer

8/10/2023

8/9/2023

883546

23060D000344

Signature:

Signature:

Expiration Date:

John Myon Zahary Luy

6/28/2024

221620123

NA

InSitu

Hach

Thomas Instruments

Date:

Date:

John Myer

Calli Provenza

Water Quality Meter

NIST Thermometer

Explanations:

Prepared By:

Review By:

Turbidity Meter

 Project Name:
 Arkwright Groundwater Sampling
 Date:
 8/9/2023

 Plant Address:
 5001 Arkwright Road, Macon, GA 31210
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 of
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 Goal/Task:
 Groundwater Sampling
 Groundwater Sampling
 Arkwright Road, Macon, GA 31210
 Page
 1
 of
 1

	Goal/Task:	Groundwater Sampling		<u> </u>	
Morning (AM) Calibration			Calibrated By:	Dylan Quinta	
Weather:			Clear, 70F		
Time (24hr) Start:	7:20	Annantonna Critaria	Time (24hr) Finish:	8:00	
Temperature (°C	5):	Acceptance Criteria	Baro	ometric Pressure (mbar):	
NIST Thermometer:	23.5	+/- 4°C	Local Weather Station:	1015.2	2
Aqua TROLL 400:	22.3	+//- 4 €	Aqua TROLL 400:	1004.3	3
Turbidity (NTUs):	20 NTU Standard	100 NTU Standard	800 NTU Standard	10 NTU Verification	Acceptance Criteria
	20.1	100	809	10.2	+/- 3 %
	Calibration Value	Post Calibration	Acceptance Criteria	Cal Sol Temp (°C)	Notes:
Specific Conductance 4,490 (μS/cm)	4490	4491	+/- 1 %	23.2	NA
pH 7 (SU)	7.00	7.01	+/1 (SU)	22.8	NA
pH 4 (SU)	4.00	3.97	+/1 (SU)	23.1	NA
pH 10 (SU)	10.00	9.99	+/1 (SU)	23.0	NA
D.O. (%)	N/A	99.9	95-105 %	22.5	NA
ORP (mV)	228.0	227.8	+/- 10 mV	23.1	NA NA
fternoon (PM) Calibration Verification			Verification By:		
· , ,				Dylan Quinta	
Weather:	44.55		Partly cloudy, 84F	40.45	
Time (24hr) Start:	11:55	Acceptance Criteria	Time (24hr) Finish:	12:15	
Temperature (°C			Local Weather Station:	ometric Pressure (mbar):	`
NIST Thermometer:	24.7 24.7	+/- 4°C		1015.2 1005.3	
Turbidity (NTUs):	24.7 20 NTU Standard	100 NTU Standard	Aqua TROLL 400: 800 NTU Standard	10 NTU Verification	Acceptance Criteria
rurbialty (NTOS):	20 N 10 Standard	100 N 10 Standard	800	9.96	+/- 3 %
	Calibration Value	Verification	Acceptance Criteria	Cal Sol Temp (°C)	Notes:
Specific Conductance 4490 (µS/cm)	4490	4487.5	+/- 1 %	24.6	NA
pH 7 (SU)			+/1 (SU)	24.6	
- , ,	7.00	6.99			NA
pH 4 (SU)	4.00	3.98	+/1 (SU)	24.7	NA
pH 10 (SU)	10.00	9.99	+/1 (SU)	24.6	NA
D.O. (%)	N/A	99.4	95-105 %	25.1	NA
ORP (mV)	228.0	225.7	+/- 10 mV	24.6	NA
		Calibration Standards Info			
Standard (@ 25°C)	Certified Value	Brand	Lot Number	Expiration	
AM pH 4 (SU)	4.00	AIR	22250153	11/1/20	
AM pH 7 (SU)	7.00	AIR	2216893	11/1/20	
AM pH 10 (SU)	10.00	AIR	21320202	12/1/20	
PM pH 4 (SU)	4.00	AIR	22250153	11/1/20	
PM pH 7 (SU)	7.00	AIR	2216893	11/1/20	
PM pH 10 (SU)	10.00	AIR	21320202	12/1/20	
Specific Conductance 4,490 (µS/cm)	4490	AIR	22250153	11/1/20	
ORP (mV)	228.0	AIR	21390144	11/1/20	
Turbidity - 20 NTU	20.0	Hach	A2231	Dec-2	
Turbidity - 100 NTU	100	Hach	A2239	Dec-2	
Turbidity - 800 NTU Turbidity - 10 NTU	800 10.0	Hach Hach	A2231 A2264	Dec-2 Jan-2	
Turblaity - 10 NTO	10.0		AZZ04		
	Manufacturer	Instruments Model	Serial Number	Calibrated \ Acceptance C	
Vater Quality Meter	InSitu	AquaTroll 400	843593	Yes	
urbidity Meter	Hach	2100Q	22090D000337	Yes	
IIST Thermometer	Thomas Instruments	NIST Thermometer	221620123	Expiration Date: 6/28/2024	
Explanations:		Hach recalibrated a	at noon due to readings slightly	out of criteria.	
Prepared By:D	ylan Quintal Date:	8/9/2023	Signature: Dub	lan Quintal.	
	ylan Quintal Date: Date:		Signature: Dyl	lan Quintal	

Project Name: Arkwright Groundwater Sampling Plant Arkwright Plant Name: Date: 8/10/2023 5001 Arkwright Road, Macon, GA 31210 Plant Address: 175569434 Project Number: of Page Goal/Task: Groundwater Sampling Morning (AM) Calibration Calibrated By: John Myer Weather: Overcast 74 F Time (24hr) Start: 6:40 Time (24hr) Finish: 7:10 Acceptance Criteria Temperature (°C): Barometric Pressure (mbar): Local Weather Station: NIST Thermometer: 29.1 +/- 4°C Aqua TROLL 400: Agua TROLL 400: 28.4 999.7 Turbidity (NTUs): 20 NTU Standard 100 NTU Standard 800 NTU Standard 10 NTU Verification Acceptance Criteria 20.0 98.6 801 10.1 +/- 3 % **Calibration Value** Cal Sol Temp (°C) Post Calibration Acceptance Criteria Notes: Specific Conductance 4,490 (µS/cm) +/- 1 % 26.4 4470.5 NA 4490 pH 7 (SU) +/- .1 (SU) 26.8 7.00 7.00 NA pH 4 (SU) 4.00 4.00 +/- .1 (SU) 27.0 NA pH 10 (SU) 27.5 +/- .1 (SU) 10.00 10.01 NA D.O. (%) 95-105 % 25.6 N/A 100.1 NA ORP (mV) +/- 10 mV 26.4 NA 228.0 227.2 Afternoon (PM) Calibration Verification Verification By: John Myer Weather: Sunny 86 F Time (24hr) Start: 13:10 Time (24hr) Finish: 13:45 Acceptance Criteria Temperature (°C): Barometric Pressure (mbar): Local Weather Station: NIST Thermometer: 34.1 1000.6 +/- 4°C Aqua TROLL 400: 34.4 1000.9 Turbidity (NTUs): 20 NTU Standard 100 NTU Standard 800 NTU Standard 10 NTU Verification Acceptance Criteria +/- 3 % 20.0 101 790 10.3 **Calibration Value** Verification Acceptance Criteria Cal Sol Temp (°C) Notes: Specific Conductance 4490 (µS/cm) +/- 1 % 4490 31.9 4446 NA pH 7 (SU) 7.00 6.99 +/- .1 (SU) 29.7 NA pH 4 (SU) +/- .1 (SU) 29.7 4.00 4.01 NA pH 10 (SU) +/- .1 (SU) 30.3 10.00 NA 9.95 D.O. (%) N/A 98.7 95-105 % 30.4 NA ORP (mV) 228.0 223.5 +/- 10 mV 30.1 NA Calibration Standards Information Standard (@ 25°C) Certified Value Lot Number **Expiration Date Brand** AM pH 4 (SU) 4.00 AIR 22250153 11/30/2023 AM pH 7 (SU) 7.00 AIR 2216893 11/30/2023 AM pH 10 (SU) 10.00 AIR 22110130 4/30/2024 РМ pH 4 (SU) 4.00 AIR 22250153 11/30/2023 PM pH 7 (SU) 7.00 AIR 2216893 11/30/2023 PM pH 10 (SU) 22110130 10.00 AIR 4/30/2024 Specific Conductance 4,490 (µS/cm) 4490 AIR 22250153 11/30/2023 ORP (mV) 228.0 AIR 21390144 11/30/2023 Hach Turbidity - 20 NTU A3187 10/31/2024 Turbidity - 100 NTU 10/31/2024 100 Hach A3186 Turbidity - 800 NTU 800 Hach A3166 9/30/2024 Turbidity - 10 NTU 10.0 Hach A3173 9/30/2024 Instruments Calibrated Within Manufacturer Model Serial Number Acceptance Criteria Water Quality Meter AquaTroll 400 InSitu 883546 Turbidity Meter Hach 2100Q 23060D000344 NIST Thermometer Thomas Instruments NIST Thermometer 221620123 Expiration Date: 6/28/2024 **Explanations:** NA

Prepared By:

Review By:

John Myer

Calli Provenza

Date:

Date:

8/10/2023

8/15/2023

20hromyon

Signature:

Signature:

Project Name: Arkwright Groundwater Sampling Plant Arkwright Plant Name: Date: 8/10/2023 5001 Arkwright Road, Macon, GA 31210 Plant Address: Project Number: 175569434 Page of Goal/Task: Groundwater Sampling Morning (AM) Calibration Calibrated By: Dylan Ripley Weather: sunny partly cloudy Time (24hr) Start: 7:08 Time (24hr) Finish: 8:13 Acceptance Criteria Temperature (°C): Barometric Pressure (mbar): Local Weather Station: NIST Thermometer: 26.0 +/- 4°C Aqua TROLL 400: 998.8 Agua TROLL 400: 25.8 Turbidity (NTUs): 20 NTU Standard 100 NTU Standard 800 NTU Standard 10 NTU Verification Acceptance Criteria 20.1 100 799 9.77 +/- 3 % **Calibration Value** Cal Sol Temp (°C) Post Calibration Acceptance Criteria Notes: Specific Conductance 4,490 (µS/cm) +/- 1 % NA 4490 4483.8 pH 7 (SU) +/- .1 (SU) 25.7 7.00 7.02 NA pH 4 (SU) 4.00 4.02 +/- .1 (SU) 25.8 NA pH 10 (SU) 25.9 +/- .1 (SU) 10.00 10.01 NA D.O. (%) 95-105 % 26.0 N/A 99 9 NA ORP (mV) +/- 10 mV 25.9 NA 228.0 227.6 Afternoon (PM) Calibration Verification Verification By: Dylan Ripley Weather: Sunny partly cloudy Time (24hr) Start: !4:45 Time (24hr) Finish: 1502 Acceptance Criteria Temperature (°C): Barometric Pressure (mbar): Local Weather Station: NIST Thermometer: 24.5 1011.5 +/- 4°C Aqua TROLL 400: Aqua TROLL 400: 26.4 998.3 Turbidity (NTUs): 20 NTU Standard 100 NTU Standard 800 NTU Standard 10 NTU Verification Acceptance Criteria +/- 3 % 20.0 99.8 791 9.77 **Calibration Value** Verification Acceptance Criteria Cal Sol Temp (°C) Notes: Specific Conductance 4490 (µS/cm) +/- 1 % 4490 4481.5 26.4 NA pH 7 (SU) 7.00 7.08 +/- .1 (SU) 27.0 NA pH 4 (SU) +/- .1 (SU) 26.4 4.00 4.10 NA pH 10 (SU) +/- .1 (SU) 27.1 10.00 NA 10.02 D.O. (%) N/A 99.8 95-105 % 27.3 NA ORP (mV) 228.0 226.5 +/- 10 mV 27.2 NA Calibration Standards Information Standard (@ 25°C) Certified Value Lot Number **Expiration Date Brand** AM pH 4 (SU) 4.00 AIR 22250153 11/1/2023 AM pH 7 (SU) 7.00 AIR 2216893 11/1/2023 AM pH 10 (SU) 10.00 AIR 21320202 12/1/2023 РМ pH 4 (SU) 4.00 AIR 22250153 11/1/2023 PM pH 7 (SU) 11/1/2023 7.00 AIR 2216893 PM pH 10 (SU) 10.00 AIR 21320202 12/1/2023 Specific Conductance 4,490 (µS/cm) 4490 AIR 22250153 11/1/2023 ORP (mV) 228.0 AIR 21390144 11/1/2023 Hach Turbidity - 20 NTU A2231 23-Dec Turbidity - 100 NTU 23-Dec 100 A2239 Hach

Hach

Hach

Instruments

Model

AquaTroll 400

2100Q

NIST Thermometer

8/14/2023

8/10/2023

A2231

A2264

Serial Number

728541

22070D000463

221620193

Signature:

Signature:

NA

23-Dec

Calibrated Within

Acceptance Criteria

Yes

Yes

6/28/2024

Expiration Date:

Turbidity - 800 NTU

Water Quality Meter

NIST Thermometer

Explanations:

Prepared By:

Review By:

Turbidity Meter

Turbidity - 10 NTU

800

10.0

Manufacturer

InSitu

Hach

Thomas Instruments

Date:

Date:

Dylan Ripley

Calli Provenza

Project Name: Arkwright Groundwater Sampling Plant Arkwright Date: 8/10/2023 **Plant Name:** 5001 Arkwright Road, Macon, GA 31210 Plant Address: 175569434 Project Number: Page of Goal/Task: Groundwater Sampling Morning (AM) Calibration Calibrated By: Dylan Quintal Weather: Partly cloudy, 75F Time (24hr) Start: 7:00 Time (24hr) Finish: 7:40 Acceptance Criteria Temperature (°C): Barometric Pressure (mbar): Local Weather Station: NIST Thermometer: 26.1 +/- 4°C Aqua TROLL 400: 1000.9 Agua TROLL 400: 25.6 Turbidity (NTUs): 20 NTU Standard 100 NTU Standard 800 NTU Standard 10 NTU Verification Acceptance Criteria 97.9 785 10.2 +/- 3 % 20.5 **Calibration Value** Cal Sol Temp (°C) Post Calibration Acceptance Criteria Notes: Specific Conductance 4,490 (µS/cm) +/- 1 % 26.6 4490 4482.5 NA pH 7 (SU) +/- .1 (SU) 26.0 7.00 7.00 NA pH 4 (SU) 4.00 3.99 +/- .1 (SU) 26.6 NA pH 10 (SU) 26.3 +/- .1 (SU) 10.00 9.98 NA D.O. (%) 95-105 % 25.7 N/A 100.0 NA ORP (mV) +/- 10 mV 228.0 227.9 NA Afternoon (PM) Calibration Verification Verification By: Dylan Quintal Weather: Partly cloudy, 87F Time (24hr) Finish: Time (24hr) Start: 14:00 14:20 Acceptance Criteria Temperature (°C): Barometric Pressure (mbar): Local Weather Station: NIST Thermometer: 30.1 1012.2 +/- 4°C Aqua TROLL 400: 30.6 999.9 Turbidity (NTUs): 20 NTU Standard 100 NTU Standard 800 NTU Standard 10 NTU Verification Acceptance Criteria +/- 3 % 20.3 101 789 9.89 **Calibration Value** Verification Acceptance Criteria Cal Sol Temp (°C) Notes: Specific Conductance 4490 (µS/cm) 4490 4516.7 +/- 1 % 32.3 NA pH 7 (SU) 7.00 7.03 +/- .1 (SU) 31.9 NA pH 4 (SU) 32 4 4.00 4.07 +/- .1 (SU) NA pH 10 (SU) +/- .1 (SU) 31.4 9.91 10.00 NA D.O. (%) N/A 101.6 95-105 % 33.6 NA ORP (mV) 228.0 218.5 +/- 10 mV 31.2 NΑ Calibration Standards Information Standard (@ 25°C) Certified Value Lot Number **Expiration Date Brand** AM pH 4 (SU) 4.00 AIR 22250153 11/1/2023 AM pH 7 (SU) 7.00 AIR 2216893 11/1/2023 10.00 AIR 21320202 12/1/2023 AM pH 10 (SU) ΡМ pH 4 (SU) 4.00 AIR 22250153 11/1/2023 PM pH 7 (SU) 2216893 11/1/2023 7.00 AIR PM pH 10 (SU) 10.00 AIR 21320202 12/1/2023 Specific Conductance 4,490 (µS/cm) 11/1/2023 4490 AIR 22250153 ORP (mV) 228.0 AIR 21390144 11/1/2023 Turbidity - 20 NTU 20.0 Hach A2231 Dec-23 Turbidity - 100 NTU A2239 100 Hach Dec-23 Turbidity - 800 NTU 800 Hach A2231 Dec-23 Turbidity - 10 NTU 10.0 Hach A2264 Jan-23 Instruments Calibrated Within Manufacturer Model Serial Number Acceptance Criteria: Water Quality Meter InSitu AquaTroll 400 843593 Yes Turbidity Meter Hach 2100Q 22090D000337 Yes Expiration Date: 6/28/2024 NIST Thermometer Thomas Instruments NIST Thermometer 221620123 **Explanations:** Midday calibration performed after sampling first two wells and before third.

Prepared By:

Review By:

Dylan Quintal

Calli Provenza

Date:

Date:

8/10/2023

8/14/2023

Signature:

Signature:

Dylan Quintal

B.4 Groundwater and Surface Water Laboratory Analytical Reports



September 06, 2023

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

Re: Arkwright CCR Groundwater Compliance AP2

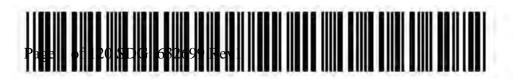
Work Orders: 632699 and 633126

Dear Joju Abraham:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on August 09, 2023 and August 11, 2023. This revised data report has been prepared and reviewed in accordance with GEL's standard operating procedures. The data package is being revised to report Total and Dissolved metals for the applicable samples. The data package is being revised to report Total and Dissolved metals for the applicable samples.

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):

<u>Laboratory ID</u>	Client ID	<u>Matrix</u>	Date Collected	Date Recieved
632699001	ARK-ARGWA-19	Ground Water	08/08/23 10:15	09/08/23 12:45
632699002	ARK-AP2-FD-01	Water	08/08/23 12:00	09/08/23 12:45
632699003	ARK-ARGWC-22	Ground Water	08/08/23 09:55	09/08/23 12:45
632699004	ARK-ARAMW-7	Ground Water	08/08/23 11:50	09/08/23 12:45
632699005	ARK-AP2-FB-01	Water	08/08/23 12:30	09/08/23 12:45
632699006	ARK-ARAMW-9	Ground Water	08/08/23 12:35	09/08/23 12:45
632699007	ARK-ARAMW-2	Ground Water	08/08/23 15:05	09/08/23 12:45
632699008	ARK-ARAMW-1	Ground Water	08/08/23 16:00	09/08/23 12:45
632699009	ARK-ARGWC-23	Ground Water	08/08/23 16:55	09/08/23 12:45
632699010	ARK-ARGWA-19	Ground Water	08/08/23 10:15	09/08/23 12:45
632699011	ARK-ARGWC-22	Ground Water	08/08/23 09:55	09/08/23 12:45
632699012	ARK-ARAMW-7	Ground Water	08/08/23 11:50	09/08/23 12:45
632699013	ARK-ARAMW-9	Ground Water	08/08/23 12:35	09/08/23 12:45
632699014	ARK-ARAMW-2	Ground Water	08/08/23 15:05	09/08/23 12:45



632699015	ARK-ARAMW-1	Ground Water	08/08/23 16:00	09/08/23 12:45
632699016	ARK-ARGWC-23	Ground Water	08/08/23 16:55	09/08/23 12:45
633126001	ARK-ARGWC-21	Ground Water	09/08/23 10:35	11/08/23 14:00
633126002	ARK-AP2-EB-01	Water	09/08/23 11:10	11/08/23 14:00
633126003	ARK-ARAMW-8	Ground Water	09/08/23 11:15	11/08/23 14:00
633126004	ARK-ARGWA-20	Ground Water	10/08/23 09:25	11/08/23 14:00
633126005	ARK-STN-TW22	Ground Water	10/08/23 12:55	11/08/23 14:00
633126006	ARK-ARGWC-21	Ground Water	09/08/23 10:35	11/08/23 14:00
633126007	ARK-AP2-EB-01	Water	09/08/23 11:10	11/08/23 14:00
633126007 633126008	ARK-AP2-EB-01 ARK-ARAMW-8	Water Ground Water	09/08/23 11:10 09/08/23 11:15	11/08/23 14:00 11/08/23 14:00
	7.1.1.1		03,00,20 11.10	11,00,20100
633126008	ARK-ARAMW-8	Ground Water	09/08/23 11:15	11/08/23 14:00
633126008 633126009	ARK-ARAMW-8 ARK-ARGWA-20	Ground Water Ground Water	09/08/23 11:15 10/08/23 09:25	11/08/23 14:00 11/08/23 14:00
633126008 633126009 633126010	ARK-ARAMW-8 ARK-ARGWA-20 ARK-STN-TW22	Ground Water Ground Water Ground Water	09/08/23 11:15 10/08/23 09:25 10/08/23 12:55	11/08/23 14:00 11/08/23 14:00 11/08/23 14:00
633126008 633126009 633126010 633126011	ARK-ARAMW-8 ARK-ARGWA-20 ARK-STN-TW22 ARK-ARGWC-21	Ground Water Ground Water Ground Water Ground Water	09/08/23 11:15 10/08/23 09:25 10/08/23 12:55 09/08/23 10:35	11/08/23 14:00 11/08/23 14:00 11/08/23 14:00 11/08/23 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	10-AUG-2023
SW846 3005A	14-AUG-2023
SW846 3005A	30-AUG-2023
SW846 7470A Prep	10-AUG-2023
SW846 7470A Prep	14-AUG-2023
SW846 7470A Prep	30-AUG-2023

Analysis Methods and Analysis Dates

Method	Run Date ID
EPA 300.0	09-AUG-2023
EPA 300.0	10-AUG-2023
EPA 300.0	12-AUG-2023
EPA 300.0	13-AUG-2023
EPA 300.0	14-AUG-2023

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EPA 300.0	15-AUG-2023
EPA 353.2 Low Level	11-AUG-2023
EPA 353.2 Low Level	14-AUG-2023
SM 2320B	11-AUG-2023
SM 2320B	14-AUG-2023
SM 2540C	10-AUG-2023
SM 2540C	16-AUG-2023
SW846 3005A/6020B	01-SEP-2023
SW846 3005A/6020B	17-AUG-2023
SW846 3005A/6020B	18-AUG-2023
SW846 3005A/6020B	19-AUG-2023
SW846 3005A/6020B	31-AUG-2023
SW846 7470A	11-AUG-2023
SW846 7470A	15-AUG-2023
SW846 7470A	31-AUG-2023

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. 4504.

Erin S. Tuent

Erin Trent

Project Manager

Purchase Order: GPC82177-0005

Enclosures

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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: 632699 GEL Work Order: 632699

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, Erin Trent.

Reviewed by Erm S. Trent

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

Certificate of Analysis Report for

GPCC001 Georgia Power Company Client SDG: 633126 GEL Work Order: 633126

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, Erin Trent.

Reviewed by Erin S. Juent

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

Certificate of Analysis

Report Date: September 6, 2023

GPCC00100

GPCC001

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

Atlanta, Georgia 30308

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceAP2

Client Sample ID: ARK-ARGWA-19

Sample ID: 632699001

Matrix: WG

Collect Date: 08-AUG-23 10:15 Receive Date: 09-AUG-23

Collector: Client

Project:

Client ID:

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analy	st Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Lic	quid "As Recei	ived"										
Chloride	-	6.37	0.0670	0.200	mg/L		1	LXA2	08/09/23	2255	2473965	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate		8.29	0.133	0.400	mg/L		1					
Mercury Analysis-CV	AA											
7470 Cold Vapor Mer	cury, Liquid ".	As Received"										
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/11/23	1025	2474015	2
Metals Analysis-ICP-I	MS				C							
SW846 3005A/6020B		"										
Aluminum	U	ND	0.0193	0.0500	mg/L	1.00	1	PRB	08/19/23	0313	2474005	3
Antimony	Ü	ND	0.00100	0.00300	mg/L	1.00	1					
Arsenic	Ü	ND	0.00200	0.00500	mg/L	1.00						
Barium		0.0337	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron		0.0199	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		8.51	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	J	0.00382	0.00300	0.0100	mg/L	1.00	1					
Magnesium		3.36	0.0100	0.0300	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000421	0.000200	0.00100	mg/L	1.00	1					
Potassium		2.08	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		9.51	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, N	Nitrate/Nitrite	"As Received"										
Nitrogen, Nitrate/Nitrite		1.83	0.0350	0.100	mg/L		5	AXH3	08/11/23	1135	2473982	4
Solids Analysis												
SM2540C Dissolved S	Colida "Aa Daa	airead"										

SM2540C Dissolved Solids "As Received"

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

Certificate of Analysis

Report Date: September 6, 2023

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

Atlanta, Georgia 30308

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceAP2

Client Sample ID: ARK-ARGWA-19 Project: GPCC00100 Sample ID: 632699001 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF Analy	yst Date	Time Batch	Method
Solids Analysis										
SM2540C Dissolved So	olids "As Rec	eived"								
Total Dissolved Solids		62.0	2.38	10.0	mg/L		CH6	08/10/23	1435 247411:	5 5
Titration and Ion Analy	sis									
SM 2320B Total Alkali	nity "As Rec	eived"								
Alkalinity, Total as CaCO3		37.0	0.725	2.00	mg/L		HH2	08/11/23	0956 247413	7 6
Bicarbonate alkalinity (CaCC	3)	37.0	0.725	2.00	mg/L					
Carbonate alkalinity (CaCO3) U	ND	0.725	2.00	mg/L					
The following Prep Me	thods were p	erformed:								
Method	Description	n		Analyst	Date		Time Pr	rep Batch		_
SW846 7470A Prep	EPA 7470A I	Mercury Prep Liquid		EK1	08/10/23		1245 24	74012		
SW846 3005A	ICP-MS 3005	5A PREP		JD2	08/10/23		0815 24	74004		

The following Analytical Methods were performed:

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

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, 2023

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

Atlanta, Georgia 30308

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceAP2

Client Sample ID: ARK-AP2-FD-01

Sample ID: 632699002

Matrix: WG

Collect Date: 08-AUG-23 12:00
Receive Date: 09-AUG-23
Collector: Client

Project: GPCC00100 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analy	st Date	Time Batch	Method
Ion Chromatography											
EPA 300.0 Anions L	iquid "As Recei	ived"									
Chloride	1	6.27	0.0670	0.200	mg/L		1	LXA2	08/09/23	2326 247396	5 1
Fluoride	U	ND	0.0330	0.100	mg/L		1				
Sulfate		8.34	0.133	0.400	mg/L		1				
Mercury Analysis-CV	VAA										
7470 Cold Vapor Me	ercury, Liquid ".	As Received"									
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/11/23	1026 247401	5 2
Metals Analysis-ICP	-MS										
SW846 3005A/60201	B "As Received	<u>.</u> "									
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	08/19/23	0338 247400	5 3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1				
Barium		0.0334	0.000670	0.00400	mg/L	1.00	1				
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1				
Boron		0.0183	0.00520	0.0150	mg/L	1.00	1				
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1				
Calcium		8.36	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	J	0.00368	0.00300	0.0100	mg/L	1.00	1				
Molybdenum	J	0.000361	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		1.89	0.0350	0.100	mg/L		5	AXH3	08/11/23	1138 247398	2 4
Solids Analysis											
SM2540C Dissolved	Solids "As Rec	eived"									
Total Dissolved Solids		67.0	2.38	10.0	mg/L			CH6	08/10/23	1435 247411	5 5
The following Prep N	Methods were p	erformed:									
Method	Description			Analyst	Date	,	Time	e Pro	ep Batch		
SW846 3005A	ICP-MS 3005			JD2	08/10/23		0815		74004		
SW846 7470A Prep	EPA 7470A I	Mercury Prep Liquid		EK1	08/10/23		1245		74012		

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

Certificate of Analysis

Report Date: September 6, 2023

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

Atlanta, Georgia 30308

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceAP2

Client Sample ID: ARK-AP2-FD-01 Project: GPCC00100 Sample ID: 632699002 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF Analyst Date	Time Batch	Method
The following Analytic	cal Methods v	were performed:							
Method	Description	1				Analys	st Comments		
1	EPA 300.0								
2	SW846 7470A	A							
3	SW846 3005A	A/6020B							
4	EPA 353.2 Lo	ow Level							
5	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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2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Project:

Client ID:

Report Date: September 6, 2023

GPCC00100

GPCC001

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

Atlanta, Georgia 30308

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceAP2

Client Sample ID: ARK-ARGWC-22

Sample ID: 632699003

Matrix: WG

Collect Date: 08-AUG-23 09:55
Receive Date: 09-AUG-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analy	st Date	Time	e Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liqu	id "As Recei	ived"										
Sulfate		719	13.3	40.0	mg/L		100	LXA2	08/09/23	2357	2473965	1
Fluoride	U	ND	0.0660	0.200	mg/L		2	LXA2	08/15/23	1906	2473965	2
Chloride		6.79	0.670	2.00	mg/L		10	LXA2	08/10/23	1241	2473965	3
Mercury Analysis-CVA	A											
7470 Cold Vapor Mercu	ıry, Liquid "A	As Received"										
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/11/23	1028	2474015	4
Metals Analysis-ICP-M	S											
SW846 3005A/6020B I	Dissolved Fe	& Mn "As Receive	d"									
Manganese		13.1	0.0200	0.100	mg/L	1.00	20	PRB	08/19/23	0810	2474005	5
Iron		3.67	0.0330	0.100	mg/L	1.00	1	PRB	08/19/23	0341	2474005	6
Nutrient Analysis												
EPA 353.2 Nitrogen, Ni	itrate/Nitrite	"As Received"										
Nitrogen, Nitrate/Nitrite	U	ND	0.00700	0.0200	mg/L		1	AXH3	08/11/23	1139	2473982	7
Solids Analysis												
SM2540C Dissolved So	olids "As Rec	eived"										
Total Dissolved Solids		1220	4.76	20.0	mg/L			CH6	08/10/23	1435	2474115	8
Titration and Ion Analys	sis				C							
SM 2320B Total Alkalin		eived"										
Alkalinity, Total as CaCO3	110) 110 1100	117	0.725	2.00	mg/L			HH2	08/11/23	1001	2474137	9
Bicarbonate alkalinity (CaCO	3)	117	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	*	ND	0.725	2.00	mg/L							
The following Prep Met	thods were pe	erformed:										
Method	Description			Analyst	Date	-	Гim	e Pr	ep Batch			
SW846 7470A Prep		Mercury Prep Liquid		EK1	08/10/23	1	1245		74012			
SW846 3005A	ICP-MS 3005	5A PREP		JD2	08/10/23	(0815	24	74004			

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

Certificate of Analysis

Report Date: September 6, 2023

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

Atlanta, Georgia 30308

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceAP2

Client Sample ID: ARK-ARGWC-22 Project: GPCC00100 Sample ID: 632699003 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF Analyst Date Time Batch M	1ethod
The following Analytic	al Methods w	vere performed:						
Method	Description					Analys	t Comments	
1	EPA 300.0							
2	EPA 300.0							
3	EPA 300.0							
4	SW846 7470A	Λ						
5	SW846 3005A	A/6020B						
6	SW846 3005A	A/6020B						
7	EPA 353.2 Lo	w Level						
8	SM 2540C							
9	SM 2320B							

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, 2023

GPCC00100

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

Atlanta, Georgia 30308

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceAP2

Client Sample ID: ARK-ARAMW-7

Sample ID: 632699004

Matrix: WG

Collect Date: 08-AUG-23 11:50
Receive Date: 09-AUG-23
Collector: Client

99004 Client ID: GPCC001

Project:

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analy	st Date	Time Batch	Method
Ion Chromatography											
EPA 300.0 Anions Lie	quid "As Recei	ived"									
Chloride	-	5.50	0.0670	0.200	mg/L		1	LXA2	08/10/23	0028 2473965	1
Fluoride	U	ND	0.0330	0.100	mg/L		1				
Sulfate		1060	13.3	40.0	mg/L		100	LXA2	08/10/23	1311 2473965	2
Mercury Analysis-CV	'AA										
7470 Cold Vapor Mer	cury, Liquid "	As Received"									
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/11/23	1029 2474015	3
Metals Analysis-ICP-l	MS										
SW846 3005A/6020B	"As Received	"									
Aluminum	J	0.0265	0.0193	0.0500	mg/L	1.00	1	PRB	08/19/23	0345 2474005	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		0.0244	0.000670	0.00400	mg/L	1.00	1				
Beryllium	J	0.000272	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		0.0605	0.000300	0.00100	mg/L	1.00	1				
Iron		4.04	0.0330	0.100	mg/L	1.00	1				
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1				
Lithium		0.0577	0.00300	0.0100	mg/L	1.00	1				
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1				
Potassium		8.74	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		26.1	0.0800	0.250	mg/L	1.00	1				
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1	DD D	00/40/22		_
Boron		2.25	0.104	0.300	mg/L	1.00	20	PRB	08/19/23	0814 2474005	5
Calcium		279	1.60	4.00	mg/L	1.00	20				
Magnesium		73.8	0.200	0.600	mg/L	1.00					
Manganese		14.3	0.0200	0.100	mg/L	1.00	20				
Nutrient Analysis											
EPA 353.2 Nitrogen, l	Nitrate/Nitrite	"As Received"									
Nitrogen, Nitrate/Nitrite	U	ND	0.00700	0.0200	mg/L		1	AXH3	08/11/23	1141 2473982	6
Solids Analysis											
SM2540C Dissolved S	Solids "As Rec	eived"									

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

Certificate of Analysis

Report Date: September 6, 2023

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

Atlanta, Georgia 30308

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceAP2

Client Sample ID: ARK-ARAMW-7 Project: GPCC00100 Sample ID: 632699004 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF Analy	yst Date	Time Batch	Method
Solids Analysis										
SM2540C Dissolved So	olids "As Rec	eived"								
Total Dissolved Solids		1620	4.76	20.0	mg/L		CH6	08/10/23	1435 2474115	7
Titration and Ion Analy	sis									
SM 2320B Total Alkali	nity "As Rec	eived"								
Alkalinity, Total as CaCO3		55.3	0.725	2.00	mg/L		HH2	08/11/23	1004 2474137	8
Bicarbonate alkalinity (CaCO	(3)	55.3	0.725	2.00	mg/L					
Carbonate alkalinity (CaCO3)) U	ND	0.725	2.00	mg/L					
The following Prep Me	thods were pe	erformed:								
Method	Description	n		Analyst	Date	7	Гime Рі	rep Batch		_
SW846 3005A	ICP-MS 3005	SA PREP		JD2	08/10/23	(0815 24	74004		
SW846 7470A Prep	EPA 7470A N	Mercury Prep Liquid		EK1	08/10/23	1	1245 24	74012		

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 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

Project:

Client ID:

Report Date: September 6, 2023

GPCC00100

GPCC001

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

Atlanta, Georgia 30308

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceAP2

Client Sample ID: ARK-AP2-FB-01

Sample ID: 632699005

Matrix: WQ

Collect Date: 08-AUG-23 12:30 Receive Date: 09-AUG-23

Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analy	st Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Lic	quid "As Recei	ived"										
Chloride	U	ND	0.0670	0.200	mg/L		1	LXA2	08/10/23	0059	2473965	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CV	AA											
7470 Cold Vapor Mer	cury, Liquid "	As Received"										
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/11/23	1031	2474015	2
Metals Analysis-ICP-I	MS											
SW846 3005A/6020B		"										
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	08/19/23	0349	2474005	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					
Boron		0.0397	0.00520	0.0150	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, I	Nitrate/Nitrite	"As Received"										
Nitrogen, Nitrate/Nitrite	U	ND	0.00700	0.0200	mg/L		1	AXH3	08/11/23	1142	2473982	4
Solids Analysis												
SM2540C Dissolved S	Solids "As Rec	eived"										
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			CH6	08/10/23	1435	2474115	5
The following Prep M	ethods were p	erformed:										
Method	Description	n		Analyst	Date	-	Time	e Pr	ep Batch			
SW846 3005A	ICP-MS 3005			JD2	08/10/23	(0815		74004			
SW846 7470A Prep	EPA 7470A I	Mercury Prep Liquid		EK1	08/10/23	1	1245		74012			

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Certificate of Analysis

Report Date: September 6, 2023

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

Atlanta, Georgia 30308

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceAP2

Client Sample ID: ARK-AP2-FB-01 Project: GPCC00100 Sample ID: 632699005 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF Analyst Date	Time Batch	Method
The following Analytic	cal Methods v	were performed:							
Method	Description	1				Analys	st Comments		
1	EPA 300.0								
2	SW846 7470A	A							
3	SW846 3005A	A/6020B							
4	EPA 353.2 Lo	ow Level							
5	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

Project:

Client ID:

Report Date: September 6, 2023

GPCC00100

GPCC001

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

Atlanta, Georgia 30308

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceAP2

Client Sample ID: ARK-ARAMW-9

Sample ID: 632699006

Matrix: WG

Collect Date: 08-AUG-23 12:35 Receive Date: 09-AUG-23

Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst Date	Time Batch	Method
Ion Chromatography										
EPA 300.0 Anions Liqu	id "As Recei	ved"								
Chloride		36.1	3.35	10.0	mg/L		50	LXA2 08/10/2	3 1342 2473965	1
Sulfate		477	6.65	20.0	mg/L		50			
Fluoride		0.837	0.0330	0.100	mg/L		1	LXA2 08/10/2	3 0130 2473965	2
Mercury Analysis-CVA	.A									
7470 Cold Vapor Mercu	ıry, Liquid "ا	As Received"								
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2 08/11/2	3 1036 2474015	3
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5 08/31/2	3 1151 2484083	4
Metals Analysis-ICP-M	S									
SW846 3005A/6020B I	Dissolved Fe	& Mn "As Received	l"							
Iron		0.412	0.0330	0.100	mg/L	1.00	1	PRB 08/19/2	3 0352 2474005	6
Manganese		0.159	0.00100	0.00500	mg/L	1.00	1			
Nutrient Analysis										
EPA 353.2 Nitrogen, Ni	itrate/Nitrite	"As Received"								
Nitrogen, Nitrate/Nitrite	U	ND	0.00700	0.0200	mg/L		1	AXH3 08/11/2	3 1143 2473982	7
Solids Analysis										
SM2540C Dissolved So	olids "As Rec	eived"								
Total Dissolved Solids		852	4.76	20.0	mg/L			CH6 08/10/2	3 1435 2474115	8
Titration and Ion Analys	sis				S					
SM 2320B Total Alkali		eived"								
Alkalinity, Total as CaCO3	3	91.1	0.725	2.00	mg/L			HH2 08/11/2	3 1007 2474137	9
Bicarbonate alkalinity (CaCO	3)	91.1	0.725	2.00	mg/L					
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L					
The following Prep Met	thods were pe	erformed:								
Method	Description	n		Analyst	Date	7	Гіте	e Prep Batc	h	
SW846 7470A Prep	EPA 7470A N	Mercury Prep Liquid		EK1	08/30/23	1	115	2484082		
SW846 3005A	ICP-MS 3005			JD2	08/10/23		0815	2474004		
SW846 7470A Prep	EPA 7470A N	Mercury Prep Liquid		EK1	08/10/23	1	245	2474012		

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Certificate of Analysis

Report Date: September 6, 2023

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

Atlanta, Georgia 30308

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceAP2

Client Sample ID: ARK-ARAMW-9 Project: GPCC00100
Sample ID: 632699006 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF Analyst Date Time Ba	tch Method
The following Analytic	al Methods w	vere performed:						
Method	Description					Analys	t Comments	
1	EPA 300.0							
2	EPA 300.0							
3	SW846 7470A	<u>.</u>						
4	SW846 7470A	<u>.</u>						
5	SW846 3005A	/6020B						
6	SW846 3005A	/6020B						
7	EPA 353.2 Lo	w Level						
8	SM 2540C							
9	SM 2320B							

Notes:

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

MDA: Minimum Detectable Activity

Lc/LC: Critical Level

PF: Prep Factor

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, 2023

GPCC00100

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

Atlanta, Georgia 30308

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceAP2

Client Sample ID: ARK-ARAMW-2

Sample ID: 632699007

Matrix: WG

Collect Date: 08-AUG-23 15:05
Receive Date: 09-AUG-23
Collector: Client

99007 Client ID: GPCC001

Project:

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analys	st Date	Time Batch	Method
Ion Chromatography											
EPA 300.0 Anions Liqu	iid "As Recei	ived"									
Sulfate		243	6.65	20.0	mg/L		50	LXA2	08/10/23	1413 2473965	1
Chloride		3.35	0.0670	0.200	mg/L		1	LXA2	08/10/23	0200 2473965	2
Fluoride	J	0.0571	0.0330	0.100	mg/L		1				
Mercury Analysis-CVA	A										
7470 Cold Vapor Merci	ary, Liquid "A	As Received"									
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/31/23	1207 2484083	3
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/11/23	1038 2474015	4
Metals Analysis-ICP-M	S										
SW846 3005A/6020B "	As Received	"									
Boron		1.07	0.104	0.300	mg/L	1.00	20	PRB	08/19/23	0825 2474005	5
Calcium		87.1	1.60	4.00	mg/L	1.00	20				
Aluminum		0.0505	0.0193	0.0500	mg/L	1.00	1	PRB	08/19/23	0356 2474005	6
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1				
Arsenic		0.0120	0.00200	0.00500	mg/L	1.00	1				
Barium		0.0753	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					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00					
Cobalt		0.00223	0.000300	0.00100	mg/L	1.00					
Iron		6.78	0.0330	0.100	mg/L	1.00					
Lead	U	ND	0.000500	0.00200	mg/L	1.00					
Lithium		0.0193	0.00300	0.0100	mg/L	1.00					
Magnesium		35.7	0.0100	0.0300	mg/L	1.00					
Manganese		0.943	0.00100	0.00500	mg/L	1.00					
Molybdenum		0.00110	0.000200	0.00100	mg/L	1.00					
Potassium		7.58	0.0800	0.300	mg/L	1.00					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00					
Silver	U	ND	0.000300	0.00100	mg/L	1.00					
Sodium		18.8	0.0800	0.250	mg/L	1.00					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1				
Nutrient Analysis											
EPA 353.2 Nitrogen, N	itrate/Nitrite	"As Received"									
Nitrogen, Nitrate/Nitrite	U	ND	0.00700	0.0200	mg/L		1	AXH3	08/11/23	1144 2473982	7
Solids Analysis											

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

Certificate of Analysis

Report Date: September 6, 2023

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

Atlanta, Georgia 30308

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceAP2

Client Sample ID: ARK-ARAMW-2 Project: GPCC00100 Sample ID: 632699007 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF DF A	Analyst Date	Time Batch	Method
Solids Analysis									
SM2540C Dissolved S	Solids "As Rec	eived"							
Total Dissolved Solids		548	2.38	10.0	mg/L	(CH6 08/10/23	1435 2474115	8
Titration and Ion Anal	ysis								
SM 2320B Total Alka	linity "As Rec	eived"							
Alkalinity, Total as CaCO3	•	180	0.725	2.00	mg/L	I	HH2 08/11/23	1009 2474137	9
Bicarbonate alkalinity (CaC	O3)	180	0.725	2.00	mg/L				
Carbonate alkalinity (CaCC	(3) U	ND	0.725	2.00	mg/L				
The following Prep M	ethods were p	erformed:							
Method	Description	n		Analyst	Date	Time	Prep Batch		
SW846 7470A Prep	EPA 7470A	Mercury Prep Liquid		EK1	08/10/23	1245	2474012		
SW846 3005A	ICP-MS 3005	5A PREP		JD2	08/10/23	0815	2474004		
SW846 7470A Prep	EPA 7470A	Mercury Prep Liquid		EK1	08/30/23	1115	2484082		
The following Analyt	ical Methods v	were performed:							

Analyst Comments

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

Description

Notes:

Method

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, 2023

GPCC00100

GPCC001

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

Atlanta, Georgia 30308

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceAP2

Client Sample ID: ARK-ARAMW-1

Sample ID: 632699008

Matrix: WG

Collect Date: 08-AUG-23 16:00
Receive Date: 09-AUG-23
Collector: Client

Project:

Client ID:

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analy	st Date	Time Batch	Method
Ion Chromatography											
EPA 300.0 Anions Lic	quid "As Recei	ived"									
Sulfate	-	223	6.65	20.0	mg/L		50	LXA2	08/10/23	1444 2473965	5 1
Chloride		3.61	0.0670	0.200	mg/L		1	LXA2	08/10/23	0231 2473965	5 2
Fluoride		0.118	0.0330	0.100	mg/L		1				
Mercury Analysis-CV	AA										
7470 Cold Vapor Mer	curv. Liquid "	As Received"									
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/11/23	1039 2474015	5 3
Metals Analysis-ICP-N	MS				8						
SW846 3005A/6020B		"									
Aluminum	J S Received	0.0342	0.0193	0.0500	mg/L	1.00	1	PRB	08/19/23	0359 2474005	5 4
Antimony	U U	ND	0.00100	0.00300	mg/L mg/L	1.00	1	TKD	00/17/23	0337 2474000	, -
Arsenic	U	ND	0.00200	0.00500	mg/L mg/L	1.00					
Barium	C	0.0510	0.000670	0.00400	mg/L	1.00					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1				
Chromium	Ü	ND	0.00300	0.0100	mg/L	1.00	1				
Cobalt	J	0.000350	0.000300	0.00100	mg/L	1.00	1				
Iron		0.239	0.0330	0.100	mg/L	1.00	1				
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1				
Lithium	J	0.00909	0.00300	0.0100	mg/L	1.00	1				
Magnesium		35.7	0.0100	0.0300	mg/L	1.00	1				
Manganese		0.145	0.00100	0.00500	mg/L	1.00	1				
Molybdenum		0.00667	0.000200	0.00100	mg/L	1.00	1				
Potassium		5.37	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		19.3	0.0800	0.250	mg/L	1.00	1				
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1				
Boron		1.13	0.104	0.300	mg/L	1.00	20	PRB	08/19/23	0828 2474005	5 5
Calcium		83.4	1.60	4.00	mg/L	1.00	20				
Nutrient Analysis											
EPA 353.2 Nitrogen, N	Nitrate/Nitrite	"As Received"									
Nitrogen, Nitrate/Nitrite	U	ND	0.00700	0.0200	mg/L		1	AXH3	08/11/23	1207 2473982	2 6
Solids Analysis					Ü						
CM2540CD: 1 16	1 1 1 1 1 A D	. 10									

SM2540C Dissolved Solids "As Received"

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

Certificate of Analysis

Report Date: September 6, 2023

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

Atlanta, Georgia 30308

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceAP2

Client Sample ID: ARK-ARAMW-1 Project: GPCC00100 Sample ID: 632699008 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF Analy	yst Date	Time Batch	Method
Solids Analysis										
SM2540C Dissolved So	lids "As Rec	eived"								
Total Dissolved Solids		524	2.38	10.0	mg/L		CH6	08/10/23	1435 2474115	7
Titration and Ion Analys	sis									
SM 2320B Total Alkalin	nity "As Rec	eived"								
Alkalinity, Total as CaCO3		184	0.725	2.00	mg/L		HH2	08/11/23	1011 2474137	8
Bicarbonate alkalinity (CaCO	3)	184	0.725	2.00	mg/L					
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L					
The following Prep Met	hods were pe	erformed:								
Method	Description	n		Analyst	Date		Time Pi	rep Batch		
SW846 7470A Prep	EPA 7470A N	Mercury Prep Liquid		EK1	08/10/23		1245 24	74012		
SW846 3005A	ICP-MS 3005	SA PREP		JD2	08/10/23		0815 24	74004		

The following Analytical Methods were performed:

marytical Methods were performed.		
Description	Analyst Comments	
EPA 300.0	•	
EPA 300.0		
SW846 7470A		
SW846 3005A/6020B		
SW846 3005A/6020B		
EPA 353.2 Low Level		
SM 2540C		
SM 2320B		
	Description EPA 300.0 EPA 300.0 SW846 7470A SW846 3005A/6020B SW846 3005A/6020B EPA 353.2 Low Level SM 2540C	Description Analyst Comments EPA 300.0 EPA 300.0 SW846 7470A SW846 3005A/6020B SW846 3005A/6020B EPA 353.2 Low Level 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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2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Project:

Client ID:

Report Date: September 6, 2023

GPCC00100

GPCC001

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

Atlanta, Georgia 30308

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceAP2

Client Sample ID: ARK-ARGWC-23

Sample ID: 632699009

Matrix: WG

Collect Date: 08-AUG-23 16:55
Receive Date: 09-AUG-23
Collector: Client

Parameter **Oualifier** DL RL Units PF DF Analyst Date Time Batch Method Result Ion Chromatography EPA 300.0 Anions Liquid "As Received" Sulfate 69.8 0.665 2.00 mg/L 5 LXA2 08/10/23 1515 2473965 1 0.200 Chloride 3.60 0.0670 mg/L 1 LXA2 08/10/23 0302 2473965 2 Fluoride 0.283 0.0330 0.100 mg/L Mercury Analysis-CVAA 7470 Cold Vapor Mercury, Liquid "As Received" Mercury ND 0.0000670 0.000200 mg/L 1.00 1 JP2 08/11/23 1041 2474015 3 Metals Analysis-ICP-MS SW846 3005A/6020B "As Received" ND 0.0193 0.0500 PRB 08/19/23 0403 2474005 Aluminum U mg/L 1.00 1 Antimony U ND 0.00100 0.00300 mg/L 1.00 1 Arsenic U ND 0.002000.00500mg/L 1.00 1 0.000670 0.00400 1.00 Barium 0.0936 mg/L 1 Beryllium U ND 0.000200 0.000500 mg/L1.00 1 Cadmium U ND 0.000300 0.00100 mg/L1.00 1 mg/L Chromium U ND 0.00300 0.0100 1.00 1 Cobalt 0.000440 0.00100 1.00 0.000300 mg/L J 0.0491 0.0330 0.100 mg/L 1.00 1 Iron U 0.00200 Lead ND 0.000500mg/L 1.00 1 Lithium 0.0517 0.0100 1.00 0.00300 mg/L 1 1.00 10.5 0.0300 mg/LMagnesium 0.0100 1 Manganese 0.278 0.00100 0.00500 mg/L 1.00 1 Molybdenum 0.06180.0002000.00100mg/L 1.00 1 Potassium 0.0800 0.300 1.00 1.68 mg/L 1 Selenium U ND 0.001500.00500mg/L1.00 1 0.00100 U ND Silver 0.000300 mg/L 1.00 1 Sodium 13.3 0.0800 0.250 mg/L 1.00 1 Thallium U ND 0.000600 0.00200 1.00 mg/L 1 0.379 mg/LBoron 0.0520 0.150 1.00 10 PRB 08/19/23 0832 2474005 Calcium 66.6 0.800 2.00 10 mg/L 1.00 **Nutrient Analysis** EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received" Nitrogen, Nitrate/Nitrite 1.33 0.0350 0.100 mg/LAXH3 08/11/23 1208 2473982

SM2540C Dissolved Solids "As Received"

Solids Analysis

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Certificate of Analysis

Report Date: September 6, 2023

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

Atlanta, Georgia 30308

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceAP2

Client Sample ID: ARK-ARGWC-23 GPCC00100 Project: Sample ID: 632699009 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF Anal	yst Date	Time Batch	Method
Solids Analysis										
SM2540C Dissolved	l Solids "As Rec	eived"								
Total Dissolved Solids		294	2.38	10.0	mg/L		CH6	08/10/23	1435 2474115	7
Titration and Ion An	alysis									
SM 2320B Total All	kalinity "As Rece	eived"								
Alkalinity, Total as CaCC	03	175	0.725	2.00	mg/L		HH2	08/11/23	1013 2474137	8
Bicarbonate alkalinity (Ca	aCO3)	175	0.725	2.00	mg/L					
Carbonate alkalinity (CaC	CO3) U	ND	0.725	2.00	mg/L					
The following Prep l	Methods were pe	erformed:								
Method	Description	n		Analyst	Date	,	Time P	rep Batch		
SW846 3005A	ICP-MS 3005	SA PREP		JD2	08/10/23		0815 2	474004		
SW846 7470A Prep	EPA 7470A N	Mercury Prep Liquid		EK1	08/10/23		1245 2	474012		

Analyst Comments

The following Analytical Methods were performed:

Method	Description
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 Lc/LC: Critical Level PF: Prep Factor DL: Detection Limit RL: Reporting Limit MDA: Minimum Detectable Activity

SQL: Sample Quantitation Limit MDC: Minimum Detectable Concentration

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Certificate of Analysis

Project:

Client ID:

Report Date: September 6, 2023

GPCC00100

GPCC001

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

Atlanta, Georgia 30308

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceAP2

ARK-ARGWA-19 Client Sample ID:

Sample ID: 632699010

Matrix: WG

Collect Date: 08-AUG-23 10:15 Receive Date: 09-AUG-23 Collector: Client

DL RL Units Parameter **Oualifier** PF DF Analyst Date Time Batch Method Result Metals Analysis-ICP-MS

SW846 3005A/6020B Dissolved Fe & Mn "As Received"

0.0330 mg/L Iron U ND 0.100 1.00 1 PRB 08/31/23 1328 2484159 0.00100 0.00100 0.00500 Manganese mg/L 1.00

The following Prep Methods were performed:

Method Description Date Prep Batch Analyst Time SW846 3005A ICP-MS 3005A PREP 08/30/23 2484158 JD2 0750

The following Analytical Methods were performed:

Method Description **Analyst Comments**

SW846 3005A/6020B

Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level DL: Detection Limit PF: Prep Factor **RL**: Reporting Limit MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 6, 2023

GPCC00100

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

Atlanta, Georgia 30308

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceAP2

Client Sample ID: ARK-ARGWC-22

Sample ID: 632699011

Matrix: WG

Collect Date: 08-AUG-23 09:55 Receive Date: 09-AUG-23 Collector: Client

Project: Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analy	st Date	Time	Batch	Method
Mercury Analysis-C	CVAA											
7470 Cold Vapor Me	ercury, Liquid "A	As Received"										
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/31/23	1209	2484083	1
Metals Analysis-ICF	P-MS											
SW846 3005A/6020	B "As Received	."										
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	08/31/23	0149	2484159	2
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Aluminum		0.0513	0.0193	0.0500	mg/L	1.00	1	PRB	08/31/23	1332	2484159	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0255	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		0.00184	0.000300	0.00100	mg/L	1.00	1					
Iron		2.73	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0280	0.00300	0.0100	mg/L	1.00						
Potassium		5.10	0.0800	0.300	mg/L	1.00						
Selenium	U	ND	0.00150	0.00500	mg/L	1.00						
Silver	U	ND	0.000300	0.00100	mg/L	1.00						
Sodium		29.2	0.0800	0.250	mg/L	1.00						
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Molybdenum	J	0.000514	0.000200	0.00100	mg/L	1.00	1	PRB	09/01/23		2484159	4
Boron		3.06	0.130	0.375	mg/L	1.00	25	PRB	08/31/23	1336	2484159	5
Calcium		196	2.00	5.00	mg/L	1.00	25					
Magnesium		85.0	0.250	0.750	mg/L	1.00						
Manganese		12.4	0.0250	0.125	mg/L	1.00	25					
The following Prep	Methods were po	erformed:										
Method	Description	n		Analyst	Date	,	Time	e Pr	ep Batch			
SW846 3005A	ICP-MS 3005	5A PREP		JD2	08/30/23		0750	24	84158			
SW846 7470A Prep	EPA 7470A N	Mercury Prep Liquid		EK1	08/30/23		1115	24	84082			

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Certificate of Analysis

Report Date: September 6, 2023

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

Atlanta, Georgia 30308

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceAP2

Client Sample ID: ARK-ARGWC-22 Project: GPCC00100 Sample ID: 632699011 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF Analyst Date	Time Batch	Method	
The following Analytic	al Methods v	were performed:								
Method	Description					Analys	st Comments			
1	SW846 7470A	846 7470A								
2	SW846 3005A	A/6020B								
3	SW846 3005A	A/6020B								
4	SW846 3005A	A/6020B								
5	SW846 3005A	A/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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Certificate of Analysis

Report Date: September 6, 2023

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

Atlanta, Georgia 30308

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceAP2

Client Sample ID: ARK-ARAMW-7

Sample ID: 632699012 Matrix: WG

Collect Date: 08-AUG-23 11:50 Receive Date: 09-AUG-23 Collector: Client

Project: Client ID: GPCC001

GPCC00100

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Anal	yst Date	Time	e Batch	Method
Metals Analysis-IC	CP-MS											
SW846 3005A/602	20B Dissolved Fe	& Mn "As Received	!"									
Manganese		14.9	0.0500	0.250	mg/L	1.00	50	PRB	08/31/23	1343	2484159	1
Iron		4.46	0.0330	0.100	mg/L	1.00	1	PRB	08/31/23	1339	2484159	2
The following Prep	p Methods were p	erformed:										
Method	Description	n		Analyst	Date		Tim	e P	rep Batch			
SW846 3005A	ICP-MS 3005	5A PREP		JD2	08/30/23		0750	2.	484158			

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:

Lc/LC: Critical Level DF: Dilution Factor 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, 2023

GPCC00100

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

Atlanta, Georgia 30308

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceAP2

Client Sample ID: ARK-ARAMW-9

Sample ID: 632699013

Matrix: WG

Collect Date: 08-AUG-23 12:35
Receive Date: 09-AUG-23
Collector: Client

O9013 Client ID: GPCC001

Project:

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Ana	lyst Date	Time	Batch	Method
Metals Analysis-ICP-M	1S											
SW846 3005A/6020B	"As Received"	'										
Aluminum	J	0.0354	0.0193	0.0500	mg/L	1.00	1	PRB	08/31/23	1347	2484159	1
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0207	0.000670	0.00400	mg/L	1.00	1					
Boron		0.0666	0.00520	0.0150	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		0.580	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00907	0.00300	0.0100	mg/L	1.00	1					
Magnesium		10.5	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.172	0.00100	0.00500	mg/L	1.00	1					
Potassium		7.85	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					
Antimony	J	0.00158	0.00100	0.00300	mg/L	1.00	1	PRB	08/31/23	0157	2484159	2
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Calcium		146	0.800	2.00	mg/L	1.00	10	PRB	08/31/23	1350	2484159	3
Sodium		107	0.800	2.50	mg/L	1.00	10					
Molybdenum		0.0109	0.000200	0.00100	mg/L	1.00	1	PRB	09/01/23	1138	2484159	4
The following Prep Me	thods were pe	rformed:										
Method	Description	1		Analyst	Date	,	Time	e I	Prep Batch	-		_
SW846 3005A	ICP-MS 3005	A PREP		JD2	08/30/23		0750	2	484158			

The following Analytical Methods were performed:

	. J	
Method	Description	Analyst Comments
1	SW846 3005A/6020B	•
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	

Notes:

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Certificate of Analysis

Report Date: September 6, 2023

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

Atlanta, Georgia 30308

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceAP2

Client Sample ID: ARK-ARAMW-9 Project: GPCC00100 Sample ID: 632699013 Client ID: GPCC001

Parameter Qualifier Result DL RL Units PF DF Analyst Date Time Batch Method

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

MDA: Minimum Detectable Activity

Lc/LC: Critical Level

PF: Prep Factor

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, 2023

GPCC00100

GPCC001

Project:

Client ID:

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

Atlanta, Georgia 30308

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceAP2

Client Sample ID: ARK-ARAMW-2

Sample ID: 632699014

Matrix: WG

Collect Date: 08-AUG-23 15:05 Receive Date: 09-AUG-23

Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Anal	yst Date	Time Ba	itch	Method
Metals Analysis-IC	P-MS											
SW846 3005A/602	0B Dissolved Fe	& Mn "As Receive	ed"									
Iron		7.20	0.0330	0.100	mg/L	1.00	1	PRB	08/31/23	1401 248	4159	1
Manganese		1.08	0.0100	0.0500	mg/L	1.00	10	PRB	08/31/23	1405 248	4159	2
The following Prep	Methods were pe	erformed:										
Method	Description	n		Analyst	Date		Tim	e P	rep Batch			
SW846 3005A	ICP-MS 3005	5A PREP		JD2	08/30/23		0750	2	484158			

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

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

Certificate of Analysis

Report Date: September 6, 2023

GPCC00100

GPCC001

Project:

Client ID:

Company: Georgia Power Company, Southern Company

Address: 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceAP2

Client Sample ID: ARK-ARAMW-1

Sample ID: 632699015

Matrix: WG

Collect Date: 08-AUG-23 16:00 Receive Date: 09-AUG-23

Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst Date	Time Batch	Method
Metals Analysis-IC	P-MS									
SW846 3005A/602	0B Dissolved Fe	& Mn "As Recei	ved"							
Iron		0.167	0.0330	0.100	mg/L	1.00) 1	PRB 08/31/23	3 1408 2484159	1
Manganese		0.144	0.00100	0.00500	mg/L	1.00) 1			
The following Prep	Methods were pe	erformed:								
Method	Description	n		Analyst	Date		Tim	e Prep Batcl	h	
SW846 3005A	ICP-MS 3005	5A PREP		JD2	08/30/23		0750	2484158		
The following Ana	alytical Methods v	were performed:								

Method Description **Analyst Comments**

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, 2023

GPCC00100

GPCC001

Project:

Client ID:

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

Atlanta, Georgia 30308

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceAP2

Client Sample ID: ARK-ARGWC-23

Sample ID: 632699016

Matrix: WG

Collect Date: 08-AUG-23 16:55 Receive Date: 09-AUG-23

Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	An	alyst Date	Time Batch	Method
Metals Analysis-IC	P-MS										
SW846 3005A/602	0B Dissolved Fe	& Mn "As Received	"								
Iron	U	ND	0.0330	0.100	mg/L	1.00	1	PRE	8 08/31/23	1412 2484159	1
Manganese		0.273	0.00100	0.00500	mg/L	1.00	1				
The following Prep	Methods were pe	erformed:									
Method	Description	1		Analyst	Date		Tim	e	Prep Batch	l	
SW846 3005A	ICP-MS 3005	A PREP		JD2	08/30/23		0750		2484158		
The following Ana	alytical Methods w	vere performed:									

Method Description **Analyst Comments**

SW846 3005A/6020B

Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level PF: Prep Factor DL: Detection Limit 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, 2023

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

Atlanta, Georgia 30308

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceAP2

Client Sample ID: ARK-ARGWC-21

Sample ID: 633126001

Matrix: WG

Collect Date: 09-AUG-23 10:35
Receive Date: 11-AUG-23
Collector: Client

Project: GPCC00100 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF D	F A	nalyst Date	Time Batch	Method
Ion Chromatography										
EPA 300.0 Anions Li	quid "As Recei	ved"								
Sulfate		214	3.33	10.0	mg/L	2	5 JI	LD1 08/14/23	1308 2475685	1
Chloride		3.35	0.0670	0.200	mg/L		1 JI	LD1 08/12/23	3 2354 2475685	2
Fluoride		0.203	0.0330	0.100	mg/L		1			
Mercury Analysis-CV	/AA									
7470 Cold Vapor Mer	rcury, Liquid "A	As Received"								
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1 JF	P2 08/15/23	1258 2475854	3
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1 A	XS5 08/31/23	3 1210 2484083	4
Metals Analysis-ICP-	·MS									
SW846 3005A/6020E	B Dissolved Fe	& Mn "As Receiv	red"							
Iron		0.808	0.0330	0.100	mg/L	1.00	1 PI	RB 08/17/23	1309 2475579	6
Manganese		0.351	0.00100	0.00500	mg/L	1.00	1 PI	RB 08/18/23	3 1231 2475579	7
Solids Analysis										
SM2540C Dissolved	Solids "As Rec	eived"								
Total Dissolved Solids		520	2.38	10.0	mg/L		C	H6 08/16/23	1558 2477178	9
Titration and Ion Ana	lysis									
SM 2320B Total Alka	alinity "As Rec	eived"								
Alkalinity, Total as CaCO3	3	162	0.725	2.00	mg/L		JV	W2 08/14/23	1656 2476209	10
Bicarbonate alkalinity (Ca	CO3)	162	0.725	2.00	mg/L					
Carbonate alkalinity (CaCo	O3) U	ND	0.725	2.00	mg/L					
The following Prep M	lethods were pe	erformed:								
Method	Description	1		Analyst	Date	Tiı	me	Prep Batcl	1	
SW846 7470A Prep		Mercury Prep Liquid		EK1	08/14/23	120	00	2475853		
SW846 3005A	ICP-MS 3005	SA PREP		EM2	08/14/23	152	25	2475578		
SW846 7470A Prep	EPA 7470A N	Mercury Prep Liquid		EK1	08/30/23	111	15	2484082		

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Certificate of Analysis

Report Date: September 6, 2023

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

Atlanta, Georgia 30308

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceAP2

Client Sample ID: ARK-ARGWC-21 Project: GPCC00100 Sample ID: 633126001 Client ID: GPCC001

Parameter	Qualifier Result	DL	RL	Units	PF	DF Analyst Date	Time Batch	Method
The following Ar	nalytical Methods were performed:							
Method	Description			1	Analys	st Comments		
1	EPA 300.0				-			
2	EPA 300.0							
3	SW846 7470A							
4	SW846 7470A							
5	SW846 3005A/6020B							
6	SW846 3005A/6020B							
7	SW846 3005A/6020B							
8	SW846 3005A/6020B							
9	SM 2540C							
10	SM 2320B							

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

Project:

Client ID:

Report Date: September 6, 2023

GPCC00100

GPCC001

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

Atlanta, Georgia 30308

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceAP2

Client Sample ID: ARK-AP2-EB-01

Sample ID: 633126002

Matrix: WQ

Collect Date: 09-AUG-23 11:10 Receive Date: 11-AUG-23

Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analy	yst Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liqu	uid "As Recei	ived"										
Chloride	J	0.165	0.0670	0.200	mg/L		1	JLD1	08/13/23	0026	2475685	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVA	λA											
7470 Cold Vapor Mercu	ury, Liquid "/	As Received"										
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/15/23	1300	2475854	2
Metals Analysis-ICP-M	IS				C							
SW846 3005A/6020B "	'As Received	"										
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1	PRB	08/17/23	1357	2475579	3
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						
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	08/18/23	1306	2475579	4
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved So	olids "As Rec	eived"										
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			CH6	08/16/23	1558	2477178	5
The following Prep Met	thods were pe	erformed:										
Method	Description	n		Analyst	Date	,	Tim	e Pı	rep Batch			_
SW846 7470A Prep	EPA 7470A N	Mercury Prep Liquid		EK1	08/14/23		1200	24	75853			

EM2

08/14/23

1525

2475578

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ICP-MS 3005A PREP

SW846 3005A

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Certificate of Analysis

Report Date: September 6, 2023

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

Atlanta, Georgia 30308

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceAP2

Client Sample ID: ARK-AP2-EB-01 Project: GPCC00100 Sample ID: 633126002 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF Analyst Date	Time Batch	Method
The following Analytic	cal Methods v	were performed:							
Method	Description	l				Analys	st Comments		
1	EPA 300.0								
2	SW846 7470A	A							
3	SW846 3005A	A/6020B							
4	SW846 3005A	A/6020B							
5	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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2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Project:

Client ID:

Report Date: September 6, 2023

GPCC00100

GPCC001

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

Atlanta, Georgia 30308

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceAP2

Client Sample ID: ARK-ARAMW-8

Sample ID: 633126003

Matrix: WG

Collect Date: 09-AUG-23 11:15 Receive Date: 11-AUG-23

Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analy	st Date	Time Batch	Method
Ion Chromatography											
EPA 300.0 Anions Lie	quid "As Recei	ved"									
Sulfate	•	114	1.33	4.00	mg/L		10	JLD1	08/14/23	1339 2475685	1
Chloride		5.13	0.0670	0.200	mg/L		1	JLD1	08/13/23	0057 2475685	2
Fluoride		0.261	0.0330	0.100	mg/L		1				
Mercury Analysis-CV	'AA										
7470 Cold Vapor Mer	cury, Liquid "A	As Received"									
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/31/23	1212 2484083	3
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/15/23	1301 2475854	4
Metals Analysis-ICP-	MS				Ü						
SW846 3005A/6020B		"									
Antimony	J	0.00134	0.00100	0.00300	mg/L	1.00	1	PRB	08/18/23	1318 2475579	5
Manganese	-	0.279	0.00100	0.00500	mg/L	1.00	1				
Aluminum	U	ND	0.0193	0.0500	mg/L	1.00	1	PRB	08/17/23	1404 2475579	6
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1				
Barium		0.122	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		0.00364	0.000300	0.00100	mg/L	1.00	1				
Iron		0.515	0.0330	0.100	mg/L	1.00	1				
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1				
Lithium	J	0.00637	0.00300	0.0100	mg/L	1.00	1				
Magnesium		32.1	0.0100	0.0300	mg/L	1.00	1				
Molybdenum		0.203	0.000200	0.00100	mg/L	1.00	1				
Potassium		7.34	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		18.1	0.0800	0.250	mg/L	1.00	1				
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1				_
Calcium		78.6	0.800	2.00	mg/L	1.00	10	PRB	08/17/23	1408 2475579	7
Boron		0.770	0.0520	0.150	mg/L	1.00	10	PRB	08/18/23	1321 2475579	8
Solids Analysis											
SM2540C Dissolved S	Solids "As Rec	eived"									
Total Dissolved Solids		436	2.38	10.0	mg/L			CH6	08/16/23	1558 2477178	9
Titration and Ion Anal	lveie				-						

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

Certificate of Analysis

Report Date: September 6, 2023

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

Atlanta, Georgia 30308

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceAP2

Client Sample ID: ARK-ARAMW-8 GPCC00100 Project: Sample ID: 633126003 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF A	nalyst Date	Time Batch	Method
Titration and Ion Analy	/sis									
SM 2320B Total Alkal	inity "As Rec	eived"								
Alkalinity, Total as CaCO3		245	0.725	2.00	mg/L		JV	V2 08/14/23	1702 2476209	10
Bicarbonate alkalinity (CaCO	03)	245	0.725	2.00	mg/L					
Carbonate alkalinity (CaCO3	3) U	ND	0.725	2.00	mg/L					
The following Prep Me	thods were pe	erformed:								
Method	Description	n	I	Analyst	Date		Time	Prep Batch		
SW846 3005A	ICP-MS 3005	5A PREP	I	EM2	08/14/23		1525	2475578		
SW846 7470A Prep	EPA 7470A N	Mercury Prep Liquid	I	EK1	08/14/23		1200	2475853		
SW846 7470A Prep	EPA 7470A N	Mercury Prep Liquid	F	EK1	08/30/23		1115	2484082		
The following Analytical Methods were performed:										

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

Notes:

Column headers are defined as follows:

Lc/LC: Critical Level DF: Dilution Factor 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

Project:

Client ID:

Report Date: September 6, 2023

GPCC00100

GPCC001

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

Atlanta, Georgia 30308

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceAP2

Client Sample ID: ARK-ARGWA-20

Sample ID: 633126004

Matrix: WG

Collect Date: 10-AUG-23 09:25 Receive Date: 11-AUG-23 Collector: Client

Parameter **Oualifier** DL RL Units PF DF Analyst Date Time Batch Method Result Ion Chromatography EPA 300.0 Anions Liquid "As Received" Chloride 6.50 0.0670 0.200 mg/L JLD1 08/13/23 0128 2475685 1 Fluoride 0.0330 U ND 0.100 mg/L Sulfate 18.5 0.133 0.400 mg/L Mercury Analysis-CVAA 7470 Cold Vapor Mercury, Liquid "As Received" Mercury U ND 0.0000670 0.000200 mg/L 1.00 JP2 08/15/23 1303 2475854 2 U ND Mercury 0.0000670 0.000200 mg/L1.00 1 AXS5 08/31/23 1214 2484083 3 Metals Analysis-ICP-MS SW846 3005A/6020B Dissolved Fe & Mn "As Received" Iron 0.0509 0.0330 0.100 mg/L 1.00 1 PRB 08/17/23 1411 2475579 4 Manganese J 0.00319 0.001000.00500mg/L 1.00 1 PRB 08/18/23 1324 2475579 5 Solids Analysis SM2540C Dissolved Solids "As Received" Total Dissolved Solids 2.38 10.0 CH6 105 mg/L 08/16/23 1558 2477178 6 Titration and Ion Analysis SM 2320B Total Alkalinity "As Received" Alkalinity, Total as CaCO3 43.8 0.725 2.00 mg/L JW2 08/14/23 1705 2476209 Bicarbonate alkalinity (CaCO3) 43.8 0.725 2.00 mg/L Carbonate alkalinity (CaCO3) U ND 0.725 2.00 mg/L The following Prep Methods were performed:

Method Date Prep Batch Description Time Analyst SW846 7470A Prep EPA 7470A Mercury Prep Liquid EK1 08/14/23 1200 2475853 SW846 3005A ICP-MS 3005A PREP EM2 08/14/23 1525 2475578 SW846 7470A Prep EPA 7470A Mercury Prep Liquid EK1 08/30/23 1115 2484082

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

Certificate of Analysis

Report Date: September 6, 2023

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

Atlanta, Georgia 30308

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceAP2

Client Sample ID: ARK-ARGWA-20 Project: GPCC00100 Sample ID: 633126004 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF Analyst Date Time Batch Method
The following Analytic	cal Methods v	were performed:					
Method	Description Analyst Comments			st Comments			
1	EPA 300.0						
2	SW846 7470A						
3	SW846 7470A	A					
4	SW846 3005A	A/6020B					
5	SW846 3005A	A/6020B					
6	SM 2540C						
7	SM 2320B						

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, 2023

GPCC00100

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

Atlanta, Georgia 30308

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceAP2

Client Sample ID: ARK-STN-TW22

Sample ID: 633126005

Matrix: WG

Collect Date: 10-AUG-23 12:55
Receive Date: 11-AUG-23
Collector: Client

26005 Client ID: GPCC001

Project:

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analy	yst Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liqu	id "As Recei	ived"										
Chloride		4.92	0.0670	0.200	mg/L		1	JLD1	08/13/23	0200	2475685	1
Fluoride		0.123	0.0330	0.100	mg/L		1					
Sulfate		1040	13.3	40.0	mg/L		100	JLD1	08/14/23	1410	2475685	2
Mercury Analysis-CVA	Α											
7470 Cold Vapor Mercu	ıry, Liquid "	As Received"										
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/15/23	1305	2475854	3
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/31/23	1215	2484083	4
Metals Analysis-ICP-M	S				C							
SW846 3005A/6020B -	4 metals "As	s Received"										
Calcium		374	0.800	2.00	mg/L	1.00	10	PRB	08/17/23	1422	2475579	5
Boron		5.65	0.520	1.50	mg/L	1.00	100	PRB	08/18/23	1335	2475579	6
Manganese		11.5	0.100	0.500	mg/L	1.00	100					
Aluminum		0.591	0.0193	0.0500	mg/L	1.00	1	PRB	08/17/23	1419	2475579	7
Arsenic		0.172	0.00200	0.00500	mg/L	1.00	1					
Cobalt		0.0238	0.000300	0.00100	mg/L	1.00	1					
Iron		38.2	0.0330	0.100	mg/L	1.00	1					
Lithium		0.247	0.00300	0.0100	mg/L	1.00	1					
Magnesium		33.5	0.0100	0.0300	mg/L	1.00	1					
Molybdenum		0.00367	0.000200	0.00100	mg/L	1.00	1					
Potassium		48.6	0.0800	0.300	mg/L	1.00	1					
Sodium		19.8	0.0800	0.250	mg/L	1.00	1					
Titration and Ion Analys	sis											
SM 2320B Total Alkalii	nity "As Rec	eived"										
Alkalinity, Total as CaCO3		170	0.725	2.00	mg/L			JW2	08/14/23	1707	2476209	8
Bicarbonate alkalinity (CaCO	3)	170	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							
The following Prep Met	thods were pe	erformed:										
Method	Description	n		Analyst	Date	,	Гіте	e Pi	rep Batch			
SW846 7470A Prep		Mercury Prep Liquid		EK1	08/30/23		1115	24	84082			
SW846 7470A Prep		Mercury Prep Liquid		EK1	08/14/23		1200	24	75853			
SW846 3005A	ICP-MS 3005	5A PREP		EM2	08/14/23		1525	24	75578			

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

Certificate of Analysis

Report Date: September 6, 2023

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

Atlanta, Georgia 30308

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceAP2

Client Sample ID: ARK-STN-TW22 Project: GPCC00100 Sample ID: 633126005 Client ID: GPCC001

Parameter	Qualifier Result	DL	RL	Units	PF	DF Analyst Date	Time Batch	Method
The following A	nalytical Methods were performed:							
Method	Description			Aı	nalys	st Comments		
1	EPA 300.0				-			
2	EPA 300.0							
3	SW846 7470A							
4	SW846 7470A							
5	SW846 3005A/6020B							
6	SW846 3005A/6020B							
7	SW846 3005A/6020B							
8	SM 2320B							

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, 2023

GPCC00100

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

Atlanta, Georgia 30308

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceAP2

Client Sample ID: ARK-ARGWC-21 Sample ID: 633126006

Matrix: WG

Collect Date: 09-AUG-23 10:35
Receive Date: 11-AUG-23
Collector: Client

Client ID: GPCC001

Project:

Parameter	Qualifier	Result	DL	RL	Units	PF	DF Analyst Date	Time Batch	Method
Nutrient Analysis									
EPA 353.2 Nitrogen,	Nitrate/Nitrite	"As Received"							
Nitrogen, Nitrate/Nitrite	U	ND	0.00700	0.0200	mg/L		1 AXH3 08/14/23	0754 2475768	1
The following Analy	tical Methods v	vere performed:							
Method	Description	ļ			1	Analys	st Comments		
	ED 1 050 0 7					_			

EPA 353.2 Low Level

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

Project:

Client ID:

Report Date: September 6, 2023

GPCC00100

GPCC001

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

Atlanta, Georgia 30308

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceAP2

Client Sample ID: ARK-AP2-EB-01 Sample ID: 633126007

Matrix: WQ

Collect Date: 09-AUG-23 11:10
Receive Date: 11-AUG-23
Collector: Client

Parameter Qualifier Result DL RL Units PF DF Analyst Date Time Batch Method

Nutrient Analysis

EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"

Nitrogen, Nitrate/Nitrite U ND 0.00700 0.0200 mg/L 1 AXH3 08/14/23 0755 2475768 1

The following Analytical Methods were performed:

Method Description Analyst Comments

EPA 353.2 Low Level

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, 2023

GPCC00100

GPCC001

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

Atlanta, Georgia 30308

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceAP2

Client Sample ID: ARK-ARAMW-8

Sample ID: 633126008

Matrix: WG

Collect Date: 09-AUG-23 11:15 Receive Date: 11-AUG-23

Collector: Client

Parameter Qualifier	Result	DL	RL	Units	PF	DF Analyst Date	Time Batch	Method
---------------------	--------	----	----	-------	----	-----------------	------------	--------

Project:

Client ID:

Nutrient Analysis

EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"

Nitrogen, Nitrate/Nitrite 0.00700 mg/L U ND 0.0200 AXH3 08/14/23 0757 2475768

The following Analytical Methods were performed:

Method Description **Analyst Comments**

EPA 353.2 Low Level

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, 2023

GPCC00100

GPCC001

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

Atlanta, Georgia 30308

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceAP2

Client Sample ID: ARK-ARGWA-20

Sample ID: 633126009

Matrix: WG

Collect Date: 10-AUG-23 09:25 Receive Date: 11-AUG-23 Collector: Client

Parameter DL RL Units PF Qualifier DF Analyst Date Time Batch Method Result

Project:

Client ID:

Nutrient Analysis

EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"

Nitrogen, Nitrate/Nitrite 0.00700 mg/L 0.0200 AXH3 08/14/23 0758 2475768

The following Analytical Methods were performed:

Method Description **Analyst Comments**

EPA 353.2 Low Level

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, 2023

GPCC00100

GPCC001

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

Atlanta, Georgia 30308

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceAP2

Client Sample ID: ARK-STN-TW22

633126010

Sample ID: 6331 Matrix: WG

Collect Date: 10-AUG-23 12:55
Receive Date: 11-AUG-23
Collector: Client

Parameter Qualifier Result DL RL Units PF DF Analyst Date Time Batch Method

Project:

Client ID:

Nutrient Analysis

EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"

Nitrogen, Nitrate/Nitrite 0.0715 0.00700 0.0200 mg/L 1 AXH3 08/14/23 0759 2475768 1

The following Analytical Methods were performed:

Method Description Analyst Comments

EPA 353.2 Low Level

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, 2023

GPCC00100

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

Atlanta, Georgia 30308

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceAP2

Client Sample ID: ARK-ARGWC-21

Sample ID: 633126011

Matrix: WG

Collect Date: 09-AUG-23 10:35 Receive Date: 11-AUG-23 Collector: Client

Project: Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analy	st Date	Time Batch	Method
Mercury Analysis-CV	AA										
7470 Cold Vapor Merc	ury, Liquid "A	As Received"									
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/31/23	1217 2484083	1
Metals Analysis-ICP-M	4S										
SW846 3005A/6020B	"As Received	"									
Boron		1.12	0.0520	0.150	mg/L	1.00	10	PRB	08/31/23	1445 2484159	2
Calcium		82.9	0.800	2.00	mg/L	1.00	10				
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	08/31/23	0218 2484159	3
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1				
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1	PRB	09/01/23	1140 2484159	4
Aluminum	J	0.0254	0.0193	0.0500	mg/L	1.00	1	PRB	08/31/23	1427 2484159	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1				
Barium		0.0474	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	J	0.000813	0.000300	0.00100	mg/L	1.00	1				
Iron		0.719	0.0330	0.100	mg/L	1.00	1				
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1				
Lithium		0.0131	0.00300	0.0100	mg/L	1.00	1				
Magnesium		41.8	0.0100	0.0300	mg/L	1.00	1				
Manganese		0.348	0.00100	0.00500	mg/L	1.00	1				
Potassium		6.43	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		21.0	0.0800	0.250	mg/L	1.00	1				
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1				
The following Prep Me	ethods were pe	erformed:									

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	JD2	08/30/23	0750	2484158
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/30/23	1115	2484082

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Certificate of Analysis

Report Date: September 6, 2023

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

Atlanta, Georgia 30308

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceAP2

Client Sample ID: ARK-ARGWC-21 Project: GPCC00100 Sample ID: 633126011 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF Analyst Date	Time Batch	Method
The following Analytic	al Methods v	were performed:							
Method	Description					Analys	st Comments		
1	SW846 7470A	A							
2	SW846 3005A	A/6020B							
3	SW846 3005A	A/6020B							
4	SW846 3005A	A/6020B							
5	SW846 3005A	A/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

Project:

Client ID:

Report Date: September 6, 2023

GPCC00100

GPCC001

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

Atlanta, Georgia 30308

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceAP2

Client Sample ID: ARK-ARAMW-8

Sample ID: 633126012

Matrix: WG

Collect Date: 09-AUG-23 11:15
Receive Date: 11-AUG-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Anal	yst Date	Time Batch	Method
Metals Analysis-ICP	P-MS										
SW846 3005A/6020	B Dissolved Fe	& Mn "As Received"									
Iron		0.511	0.0330	0.100	mg/L	1.00	1	PRB	08/31/23	1510 2484159	1
Manganese		0.277	0.00100	0.00500	mg/L	1.00	1				
The following Prep N	Methods were po	erformed:									
Method	Description			Analyst	Date		Tim	e P	rep Batch		

MethodDescriptionAnalystDateTimePrep BatchSW846 3005AICP-MS 3005A PREPJD208/30/2307502484158

The following Analytical Methods were performed:

Method Description Analyst Comments

SW846 3005A/6020B

Notes:

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

MDA: Minimum Detectable Activity

Lc/LC: Critical Level

PF: Prep Factor

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, 2023

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

Atlanta, Georgia 30308

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceAP2

Client Sample ID: ARK-ARGWA-20

Sample ID: 633126013

Matrix: WG

Collect Date: 10-AUG-23 09:25
Receive Date: 11-AUG-23
Collector: Client

Project: GPCC00100 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analy	st Date	Time	Batch	Method
Mercury Analysis	-CVAA											
7470 Cold Vapor	Mercury, Liquid "A	As Received"										
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/31/23	1218	2484083	1
Metals Analysis-I	CP-MS				_							
•	20B "As Received	."										
Aluminum		1.52	0.0193	0.0500	mg/L	1.00	1	PRB	08/31/23	1514	2484159	2
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.107	0.000670	0.00400	mg/L	1.00	1					
Boron		0.0714	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		11.0	0.0800	0.200	mg/L	1.00	1					
Chromium	J	0.00684	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000814	0.000300	0.00100	mg/L	1.00	1					
Iron		1.90	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		6.28	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.0285	0.00100	0.00500	mg/L	1.00	1					
Potassium		1.86	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		11.5	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1	PRB	09/01/23	1150	2484159	3
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	08/31/23	0240	2484159	4
Beryllium	J	0.000275	0.000200	0.000500	mg/L	1.00	1					
The following Pre	ep Methods were pe	erformed:										
Method	Description	n		Analyst	Data	,	Tim	, Dr	on Ratch			

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/30/23	1115	2484082
SW846 3005A	ICP-MS 3005A PREP	JD2	08/30/23	0750	2484158

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	•
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	

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Certificate of Analysis

Report Date: September 6, 2023

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

Atlanta, Georgia 30308

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceAP2

Client Sample ID: ARK-ARGWA-20 Project: GPCC00100 Sample ID: 633126013 Client ID: GPCC001

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, 2023

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

Atlanta, Georgia 30308

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceAP2

Client Sample ID: ARK-STN-TW22

Sample ID: 633126014

Matrix: WG

Collect Date: 10-AUG-23 12:55 Receive Date: 11-AUG-23 Collector: Client

Project: Client ID: GPCC001

GPCC00100

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Anal	yst Date	Time	e Batch	Method
Metals Analysis-IC	CP-MS											
SW846 3005A/602	20B Dissolved Fe	& Mn "As Receive	ed"									
Manganese		10.6	0.0500	0.250	mg/L	1.00	50	PRB	08/31/23	1521	2484159	1
Iron		16.6	0.0330	0.100	mg/L	1.00	1	PRB	08/31/23	1517	2484159	2
The following Prep	Methods were pe	erformed:										
Method	Description	n		Analyst	Date		Tim	e P	rep Batch			
SW846 3005A	ICP-MS 3005	5A PREP		JD2	08/30/23		0750	2	484158			

The following Analytical Methods were performed:

Method Description **Analyst Comments** SW846 3005A/6020B

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

QC Summary

Report Date: September 6, 2023

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

Atlanta, Georgia Joju Abraham

Workorder: 632699

Contact:

Parmname	NOM	Sample Qual	QC	Units	RPD% F	REC%	Range Anlst	Date Time
Ion Chromatography								
Batch 2473965 ———								
QC1205483950 632604002 DUP Chloride		1.97	1.96	mg/L	0.311		(0%-20%) LXA2	08/10/23 03:33
Fluoride		0.229	0.229	mg/L	0.0437 ^		(+/-0.100)	
Sulfate		2.17	2.16	mg/L	0.481		(0%-20%)	
QC1205483949 LCS Chloride	5.00		4.87	mg/L		97.5	(90%-110%)	08/09/23 16:34
Fluoride	2.50		2.62	mg/L		105	(90%-110%)	
Sulfate	10.0		9.91	mg/L		99.1	(90%-110%)	
QC1205483948 MB Chloride		U	ND	mg/L				08/09/23 16:04
Fluoride		U	ND	mg/L				
Sulfate		U	ND	mg/L				
QC1205483951 632604002 PS Chloride	5.00	1.97	7.21	mg/L		105	(90%-110%)	08/10/23 05:06
Fluoride	2.50	0.229	2.95	mg/L		109	(90%-110%)	
Sulfate	10.0	2.17	12.3	mg/L		102	(90%-110%)	

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QC Summary

Workorder: 632699 Page 2 of 19

Parmname	NOM	Sample Qual QC	Units	RPD% REC%	Range Anlst	Date Time
Metals Analysis - ICPMS Batch 2474005						
QC1205484018 LCS Aluminum	2.00	1.92	mg/L	95.8	(80%-120%) PRB	08/19/23 03:09
Antimony	0.0500	0.0466	mg/L	93.1	(80%-120%)	
Arsenic	0.0500	0.0482	mg/L	96.4	(80%-120%)	
Barium	0.0500	0.0542	mg/L	108	(80%-120%)	
Beryllium	0.0500	0.0493	mg/L	98.6	(80%-120%)	
Boron	0.100	0.0965	mg/L	96.5	(80%-120%)	
Cadmium	0.0500	0.0488	mg/L	97.6	(80%-120%)	
Calcium	2.00	2.08	mg/L	104	(80%-120%)	
Chromium	0.0500	0.0472	mg/L	94.4	(80%-120%)	
Cobalt	0.0500	0.0471	mg/L	94.3	(80%-120%)	
Iron	2.00	1.83	mg/L	91.7	(80%-120%)	
Lead	0.0500	0.0492	mg/L	98.4	(80%-120%)	
Lithium	0.0500	0.0464	mg/L	92.8	(80%-120%)	
Magnesium	2.00	1.94	mg/L	97	(80%-120%)	
Manganese	0.0500	0.0468	mg/L	93.6	(80%-120%)	

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QC Summary

Workorder: 632699 Page 3 of 19 QC RPD% REC% Range Parmname NOM Sample Qual Units Anlst Date Time Metals Analysis - ICPMS 2474005 Batch Molybdenum 0.0500 0.0495 mg/L 99 (80%-120%) PRB 08/19/23 03:09 Potassium 2.00 2.00 mg/L 99.8 (80%-120%) Selenium 0.0500 0.0488 mg/L97.6 (80%-120%) Silver 0.0500 0.0494 98.8 mg/L(80%-120%) Sodium 2.00 1.93 mg/L 96.3 (80%-120%) 0.0485 Thallium 0.0500 mg/L96.9 (80%-120%) QC1205484017 MB U 08/19/23 03:05 Aluminum ND mg/LND U mg/L Antimony U ND Arsenic mg/LU Barium ND mg/L Beryllium U ND mg/LU ND Boron mg/LCadmium U ND mg/LU ND Calcium mg/LChromium U ND mg/L

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QC Summary

Page 4 of 19 QC RPD% REC% P<u>armname</u> **NOM** Sample Qual Units Range Anlst Date Time Metals Analysis - ICPMS 2474005 Batch Cobalt U ND mg/LPRB 08/19/23 03:05 Iron U ND mg/L U Lead ND mg/LLithium U ND mg/LMagnesium U ND mg/L U ND mg/LManganese U ND Molybdenum mg/LU ND Potassium mg/LU ND Selenium mg/L Silver U ND mg/LU ND Sodium mg/L Thallium U ND mg/L QC1205484019 632699001 MS Aluminum 2.00 U ND 1.90 mg/L94.8 (75%-125%) 08/19/23 03:16 0.0500 U ND 0.0485 97 (75%-125%) Antimony mg/L Arsenic 0.0500 U ND 0.0483 mg/L94.6 (75% - 125%)

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Workorder:

632699

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QC Summary

Workorder: 632699 Page 5 of 19 Parmname **NOM** Sample Qual QC Units RPD% REC% Range Anlst Date Time Metals Analysis - ICPMS 2474005 Batch Barium 0.0500 0.0337 0.0860 mg/L105 (75%-125%) PRB 08/19/23 03:16 Beryllium 0.0500 U ND 0.0503 101 (75%-125%) mg/L Boron 0.100 0.0199 0.115 mg/L95.4 (75%-125%) 0.0500 U ND 0.0494 Cadmium mg/L 98.7 (75%-125%) Calcium 2.00 8.51 10.4 mg/L N/A (75%-125%) ND 0.0500 U 0.0491 Chromium mg/L95.6 (75%-125%)0.0500 U ND 0.0473 Cobalt mg/L 94.5 (75%-125%) Iron 2.00 U ND 1.84 91.8 (75% - 125%)mg/L ND 0.0500 U 0.0489 97.9 Lead mg/L (75%-125%) Lithium 0.0500 J 0.00382 0.0508 93.9 mg/L(75% - 125%)2.00 3.36 5.23 93.4 (75%-125%) Magnesium mg/L 0.0500 U ND 0.0478 95.6 Manganese mg/L (75%-125%) 0.0511 Molybdenum 0.0500 J 0.000421 mg/L 101 (75%-125%) Potassium 2.00 2.08 4.03 97.4 (75% - 125%)mg/L 0.0500 U ND 0.0495 98.3 Selenium mg/L (75%-125%)

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QC Summary

Workorder: 632699 Page 6 of 19 **Parmname NOM** Sample Qual QC Units RPD% REC% Range Anlst Date Time Metals Analysis - ICPMS 2474005 Batch Silver 0.0500 U ND 0.0497 mg/L99.3 (75% - 125%)PRB 08/19/23 03:16 Sodium 2.00 9.51 11.3 N/A (75%-125%) mg/L Thallium 0.0500 U ND 0.0474 mg/L 94.7 (75% - 125%)QC1205484020 632699001 MSD Aluminum 2.00 U ND 1.88 mg/L 0.976 93.9 (0%-20%)08/19/23 03:20 0.0500 U ND 0.0482 0.707 Antimony mg/L 96.3 (0%-20%)Arsenic 0.0500 U ND 0.0490 mg/L 1.39 96 (0%-20%)Barium 0.0500 0.0337 0.0864 0.392 105 (0%-20%)mg/L ND 0.0510 Beryllium 0.0500 U mg/L 1.31 102 (0%-20%)0.100 0.0199 97.2 Boron 0.117 1.5 (0%-20%)mg/L 0.0500 U ND 0.0481 (0%-20%)Cadmium mg/L 2.66 96.1 8.51 10.3 Calcium 2.00 mg/L 0.681 N/A(0%-20%)ND Chromium 0.0500 U 0.0485 mg/L (0%-20%)1.1 94.6 Cobalt 0.0500 U ND 0.0479 95.6 (0%-20%)mg/L 1.16 ND U 1.85 92.3 2.00 mg/L 0.502 (0%-20%)Iron Lead 0.0500 U ND 0.0486 mg/L 0.749 97.1 (0%-20%)

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

QC Summary

632699 Page 7 of 19 **Parmname NOM** Sample Qual QC Units RPD% REC% Range Anlst Date Time Metals Analysis - ICPMS 2474005 Batch Lithium 0.0500 0.00382 0.0510 mg/L0.45 94.4 (0%-20%)PRB 08/19/23 03:20 2.00 3.36 5.17 90.4 (0%-20%)Magnesium mg/L 1.16 Manganese 0.0500 ND 0.0475 mg/L 0.646 95 (0%-20%)0.0512 102 Molybdenum 0.0500 J 0.000421 mg/L 0.186 (0%-20%)mg/L Potassium 2.00 2.08 3.99 0.917 95.6 (0%-20%)0.0500 U ND 0.0505 mg/L 100 (0%-20%)Selenium 1.95 0.0500 U ND 0.0495 Silver mg/L 0.347 99 (0%-20%)Sodium 2.00 9.51 0.99 N/A (0%-20%)11.2 mg/L ND 0.0500 U 0.0478Thallium mg/L 0.879 95.5 (0%-20%)QC1205484021 632699001 SDILT U ND U ND (0%-20%)08/19/23 03:27 Aluminum ug/L N/A U ND U ND N/A ug/L (0%-20%)Antimony U ND U ND ug/L (0%-20%)Arsenic N/A Barium 33.7 6.29 6.57 (0% - 20%)ug/L U U ND ND Beryllium ug/L N/A (0%-20%)Boron 19.9 U ND ug/L N/A (0%-20%)

Workorder:

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QC Summary

Workorder: 632699 Page 8 of 19 QC REC% **Parmname** NOM Sample Qual Units RPD% Range Anlst Date Time Metals Analysis - ICPMS 2474005 Batch U Cadmium ND U ND ug/L N/A (0%-20%)PRB 08/19/23 03:27 Calcium 8510 1720 ug/L .997 (0%-20%)U Chromium ND U ND ug/L N/A (0%-20%)U ND U ND Cobalt ug/L N/A (0%-20%)U Iron ND U ND ug/L N/A (0%-20%)U ND ug/L ND U N/A (0%-20%)Lead J 3.82 U ND (0%-20%) Lithium ug/L N/A 3360 663 1.22 (0%-20%)Magnesium ug/L U U ND ND ug/L (0%-20%) Manganese N/A J 0.421 U ND N/A (0%-20%)Molybdenum ug/L 2080 395 Potassium 5.08 (0%-20%)ug/L Selenium U ND U ND ug/L N/A (0%-20%) U Silver ND ND U ug/L N/A (0%-20%)Sodium 9510 1890 ug/L .846 (0%-20%)U U (0%-20%) Thallium ND ND ug/L N/A

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QC Summary

Workorder: 632699 Page 9 of 19 Sample Qual **Parmname** NOM QC Units RPD% REC% Range Anlst Date Time Metals Analysis - ICPMS 2484159 Batch QC1205501936 LCS 108 2.00 2.15 mg/L (80%-120%) PRB 08/31/23 13:25 Aluminum Antimony 0.0500 0.0493 mg/L 98.6 (80%-120%) 08/31/23 01:42 0.0500 0.0493 98.5 08/31/23 13:25 Arsenic mg/L (80%-120%) 0.0538 Barium 0.0500 mg/L 108 (80%-120%) Beryllium 0.0500 0.0584 08/31/23 01:42 mg/L 117 (80%-120%) Boron 0.100 0.112 mg/L 112 (80% - 120%)08/31/23 13:25 0.0516 Cadmium 0.0500 mg/L 103 (80%-120%) Calcium 2.00 2.12 mg/L 106 (80%-120%) Chromium 0.0500 0.0499 99.8 (80%-120%) mg/L 0.0492 Cobalt 0.0500 mg/L 98.3 (80%-120%) 1.99 99.5 Iron 2.00 mg/L (80%-120%) 0.0500 0.0520 104 Lead mg/L (80%-120%) Lithium 0.0500 0.0542 mg/L 108 (80%-120%) 2.00 2.22 111 Magnesium (80%-120%) mg/L Manganese 0.0500 0.0498 mg/L 99.7 (80%-120%)

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QC Summary

		QC D	umma	y					
Workorder: 632699									Page 10 of 19
Parmname Metals Analysis - ICPMS	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Batch 2484159									
Molybdenum	0.0500		0.0502	mg/L		100	(80%-120%)	PRB	09/01/23 11:34
Potassium	2.00		2.16	mg/L		108	(80%-120%)		08/31/23 13:25
Selenium	0.0500		0.0479	mg/L		95.9	(80%-120%)		
Silver	0.0500		0.0532	mg/L		106	(80%-120%)		
Sodium	2.00		2.21	mg/L		111	(80%-120%)		
Thallium	0.0500		0.0509	mg/L		102	(80%-120%)		
QC1205501935 MB Aluminum		J	0.0210	mg/L					08/31/23 13:21
Aidillillilli		J	0.0210	IIIg/L					06/31/23 13.21
Antimony		U	ND	mg/L					08/31/23 01:39
Anumony		C	ND	mg/L					00/31/23 01.37
Arsenic		U	ND	mg/L					08/31/23 13:21
				8					
Barium		U	ND	mg/L					
				8					
Beryllium		U	ND	mg/L					08/31/23 01:39
·									
Boron		U	ND	mg/L					08/31/23 13:21
Cadmium		U	ND	mg/L					
Calcium		U	ND	mg/L					
				-					
Chromium		U	ND	mg/L					
				J					

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QC Summary

Workorder: 632699 Page 11 of 19 QC RPD% REC% Range P<u>armname</u> NOM Sample Qual Units Anlst Date Time Metals Analysis - ICPMS Batch 2484159 Cobalt U ND mg/LPRB 08/31/23 13:21 Iron U ND mg/L Lead U ND mg/LU ND Lithium mg/L Magnesium U ND mg/L U ND Manganese mg/LU ND 09/01/23 11:32 Molybdenum mg/LU ND 08/31/23 13:21 Potassium mg/LU ND Selenium mg/L Silver U ND mg/LU ND Sodium mg/L Thallium U ND mg/L QC1205501937 633126011 MS Aluminum 2.00 J 0.0254 2.19 mg/L 108 (75%-125%) 08/31/23 14:30 0.0500 U ND 0.0521 104 08/31/23 02:22 Antimony mg/L (75%-125%) Arsenic 0.0500 U ND 0.0535 mg/L105 (75% - 125%)08/31/23 14:30

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QC Summary

		QC B	ummi.			ļ	
Workorder: 632699							Page 12 of 19
Parmname	NOM	Sample Qual	QC	Units	RPD% REC%	Range Anlst	Date Time
Metals Analysis - ICPMS Batch 2484159							
Barium	0.0500	0.0474	0.105	mg/L	115	(75%-125%) PRB	08/31/23 14:30
Beryllium	0.0500 U	ND	0.0583	mg/L	116	(75%-125%)	08/31/23 02:22
Boron	0.100	1.12	1.23	mg/L	N/A	(75%-125%)	08/31/23 14:48
Cadmium	0.0500 U	ND	0.0527	mg/L	105	(75%-125%)	08/31/23 14:30
Calcium	2.00	82.9	85.7	mg/L	N/A	(75%-125%)	08/31/23 14:48
Chromium	0.0500 U	ND	0.0515	mg/L	103	(75%-125%)	08/31/23 14:30
Cobalt	0.0500 J	0.000813	0.0499	mg/L	98.2	(75%-125%)	
Iron	2.00	0.719	2.76	mg/L	102	(75%-125%)	
Lead	0.0500 U	ND	0.0534	mg/L	107	(75%-125%)	
Lithium	0.0500	0.0131	0.0679	mg/L	110	(75%-125%)	
Magnesium	2.00	41.8	44.1	mg/L	N/A	(75%-125%)	
Manganese	0.0500	0.348	0.395	mg/L	N/A	(75%-125%)	
Molybdenum	0.0500 U	ND	0.0530	mg/L	106	(75%-125%)	09/01/23 11:42
Potassium	2.00	6.43	8.64	mg/L	110	(75%-125%)	08/31/23 14:30
Selenium	0.0500 U	ND	0.0509	mg/L	101	(75%-125%)	

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QC Summary

Workorder: 632699 Page 13 of 19 **Parmname NOM** Sample Qual QC Units RPD% REC% Range Anlst Date Time Metals Analysis - ICPMS 2484159 Batch Silver 0.0500 U ND 0.0531 mg/L106 (75% - 125%)PRB 08/31/23 14:30 Sodium 2.00 21.0 23.1 N/A (75%-125%) mg/L Thallium 0.0500 U ND 0.0521 mg/L 104 (75% - 125%)QC1205501938 633126011 MSD Aluminum 2.00 J 0.0254 2.20 mg/L 0.569 109 (0% - 20%)08/31/23 14:34 0.0500 U ND 0.0517 103 08/31/23 02:25 Antimony mg/L 0.72 (0%-20%)Arsenic 0.0500 U ND 0.0533 mg/L 0.384 105 (0%-20%)08/31/23 14:34 Barium 0.0500 0.0474 0.106 0.7 117 (0%-20%)mg/L ND 0.0577 Beryllium 0.0500 U mg/L 0.926 115 (0%-20%)08/31/23 02:25 mg/L0.100 1.12 1.22 0.643 N/A (0%-20%)08/31/23 14:52 Boron 0.0500 U ND 0.0523 0.743 105 08/31/23 14:34 Cadmium mg/L (0%-20%)82.9 86.8 Calcium 2.00 mg/L 1.29 N/A(0%-20%)08/31/23 14:52 ND 0.0507 Chromium 0.0500 U mg/L 101 (0%-20%)08/31/23 14:34 1.53 Cobalt 0.0500 0.000813 0.0509 2.03 100 (0%-20%)mg/L 2.00 0.719 2.72 100 mg/L 1.43 (0%-20%)Iron Lead 0.0500 U ND 0.0519 mg/L 2.76 104 (0%-20%)

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QC Summary

Workorder: 632699 Page 14 of 19 **Parmname** NOM Sample Qual QC Units RPD% REC% Range Anlst Date Time Metals Analysis - ICPMS 2484159 Batch Lithium 0.0500 0.0131 0.0673 mg/L 0.9 108 (0%-20%)PRB 08/31/23 14:34 2.00 41.8 44.2 0.204 N/A(0%-20%)Magnesium mg/L Manganese 0.0500 0.348 0.400 mg/L 1.2 N/A (0%-20%)0.0500 U ND 0.0529 106 Molybdenum mg/L 0.157 (0%-20%)09/01/23 11:44 mg/L Potassium 2.00 6.43 8.86 2.54 122 (0%-20%)08/31/23 14:34 0.0500 U ND 0.0511 mg/L 102 Selenium 0.292 (0%-20%)0.0500 U ND 0.0523 Silver mg/L 1.45 105 (0%-20%)Sodium 2.00 21.0 23.5 1.93 N/A mg/L (0%-20%)ND 0.0500 U 0.0516 103 Thallium mg/L 0.922 (0%-20%)QC1205501939 633126011 SDILT J 25.4 U ND (0%-20%)08/31/23 14:41 Aluminum ug/L N/A U ND U ND ug/L N/A (0%-20%)08/31/23 02:33 Antimony 08/31/23 14:41 U ND U ND ug/L (0%-20%)Arsenic N/A Barium 47.4 9.66 1.79 (0% - 20%)ug/L U ND U ND 08/31/23 02:33 Beryllium ug/L N/A (0%-20%)Boron 112 24.6 ug/L 9.94 (0%-20%)08/31/23 14:59

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QC Summary

Page 15 of 19 QC REC% **Parmname** NOM Sample Qual Units RPD% Range Anlst Date Time Metals Analysis - ICPMS 2484159 Batch U Cadmium ND U ND ug/L N/A (0%-20%)PRB 08/31/23 14:41 Calcium 8290 1690 ug/L 2.04 (0%-20%)08/31/23 14:59 U Chromium ND U ND ug/L N/A (0%-20%)08/31/23 14:41 J 0.813 U ND Cobalt ug/L N/A (0%-20%)Iron 719 147 ug/L 2.29 (0%-20%)U ND ug/L ND U N/A (0%-20%)Lead U ND (0%-20%)Lithium 13.1 ug/L N/A 7980 41800 4.56 (0%-20%)Magnesium ug/L ug/L 348 71.4 (0%-20%) Manganese 2.63 U ND U ND N/A (0%-20%)09/01/23 11:48 Molybdenum ug/L Potassium 6430 1270 1.12 (0%-20%)08/31/23 14:41 ug/L Selenium U ND U ND ug/L N/A (0%-20%) Silver U ND ND U ug/L N/A (0%-20%)Sodium 21000 3960 ug/L 5.91 (0%-20%)U U (0%-20%) Thallium ND ND ug/L N/A

Workorder:

632699

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QC Summary

632699 Page 16 of 19 **Parmname** NOM Sample Qual QC Units RPD% REC% Range Anlst Date Time Metals Analysis-Mercury 2474015 Batch QC1205484047 632582001 DUP U ND U ND mg/L N/A JP2 08/11/23 09:58 Mercury QC1205484046 LCS 0.00200 0.00199 Mercury mg/L 99.6 (80%-120%) 08/11/23 09:52 QC1205484045 MB U ND 08/11/23 09:50 Mercury mg/L QC1205484048 632582001 MS 0.00200 U ND 0.00195 97.3 (75%-125%) 08/11/23 10:00 Mercury mg/LQC1205484049 632582001 SDILT U ND U ND ug/L N/A (0%-10%)08/11/23 10:02 Mercury 2484083 Batch QC1205501815 632699006 DUP U mg/L AXS5 08/31/23 11:52 Mercury ND U ND N/A QC1205501814 LCS 0.00200 0.00202 mg/L 101 (80%-120%) 08/31/23 11:49 Mercury QC1205501813 MB U Mercury ND mg/L 08/31/23 11:47 QC1205501816 632699006 MS Mercury 0.00200 U ND 0.00202 mg/L 101 (75% - 125%)08/31/23 11:54 QC1205501817 632699006 SDILT U ND U ND 08/31/23 11:55 Mercury ug/L N/A (0%-10%)

Workorder:

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QC Summary

Workorder: 632699 Page 17 of 19 Parmname NOM Sample Qual QC Units RPD% REC% Range Anlst Date Time **Nutrient Analysis** 2473982 Batch QC1205485196 632699001 DUP 1.83 1.79 mg/L (0%-20%) AXH3 08/11/23 11:36 Nitrogen, Nitrate/Nitrite 1.94 QC1205483979 LCS Nitrogen, Nitrate/Nitrite 103 1.00 1.03 mg/L (90%-110%) 08/11/23 11:23 QC1205483978 MB U ND 08/11/23 11:22 Nitrogen, Nitrate/Nitrite mg/L QC1205485195 632699001 PS Nitrogen, Nitrate/Nitrite 1.00 0.365 1.34 97.5 (90%-110%) 08/11/23 11:37 mg/L**Solids Analysis** Batch 2474115 QC1205484191 632609002 DUP 266 263 **Total Dissolved Solids** mg/L 1.13 (0%-5%)CH6 08/10/23 14:35 LCS QC1205484188 **Total Dissolved Solids** 300 303 mg/L 101 (95%-105%) 08/10/23 14:35 QC1205484187 U ND **Total Dissolved Solids** mg/L 08/10/23 14:35 **Titration and Ion Analysis** Batch 2474137 QC1205484237 632699001 DUP Alkalinity, Total as CaCO3 37.0 36.8 mg/L 0.542 (0%-20%)HH2 08/11/23 09:58 Bicarbonate alkalinity (CaCO3) 37.0 36.8 mg/L 0.542 (0%-20%)U ND Carbonate alkalinity (CaCO3) ND U mg/L N/A QC1205484236 LCS Alkalinity, Total as CaCO3 50.0 52.4 mg/L 105 (90%-110%) 08/11/23 09:54

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QC Summary

Workorder: 632699 Page 18 of 19 **Parmname NOM** Sample Qual \mathbf{OC} Units RPD% REC% Range Anlst Date Time **Titration and Ion Analysis** Batch 2474137 QC1205484238 632699001 MS 37.0 87.6 mg/L 101 Alkalinity, Total as CaCO3 50.0 (80%-120%) HH2 08/11/23 10:00

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
- J See case narrative for an explanation

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QC Summary

Page 19 of 19 Parmname NOM Sample Qual QC Units RPD% REC% Range Anlst Date Time

Workorder:

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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.

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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.

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QC Summary

Report Date: September 6, 2023

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

Atlanta, Georgia Joju Abraham

Workorder:

Contact:

633126

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range Anlst	Date Time
Ion Chromatography Batch 2475685								
QC1205486797 632744003 DUP Chloride		50.6	50.7	mg/L	0.111		(0%-20%) JLD1	08/14/23 12:05
Fluoride		1.06	1.04	mg/L	2.03		(0%-20%)	08/12/23 19:12
Sulfate		53.6	53.8	mg/L	0.277		(0%-20%)	08/14/23 12:05
QC1205486796 LCS Chloride	5.00		4.86	mg/L		97.2	(90%-110%)	08/12/23 18:10
Fluoride	2.50		2.59	mg/L		104	(90%-110%)	
Sulfate	10.0		9.93	mg/L		99.3	(90%-110%)	
QC1205486795 MB Chloride		U	ND	mg/L				08/12/23 17:37
Fluoride		U	ND	mg/L				
Sulfate		U	ND	mg/L				
QC1205486798 632744003 PS Chloride	5.00	5.06	10.5	mg/L		109	(90%-110%)	08/14/23 12:36
Fluoride	2.50	1.06	3.62	mg/L		102	(90%-110%)	08/12/23 19:43
Sulfate	10.0	5.36	15.6	mg/L		102	(90%-110%)	08/14/23 12:36

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QC Summary

Page 2 of 19 Sample Qual **Parmname** NOM QC Units RPD% REC% Range Anlst Date Time Metals Analysis - ICPMS 2475579 Batch QC1205486562 LCS 2.04 2.00 mg/L 102 (80%-120%) PRB 08/17/23 13:04 Aluminum Antimony 0.0500 0.0506 mg/L 101 (80%-120%) 08/18/23 12:28 0.0500 0.0495 99 08/17/23 13:04 Arsenic mg/L (80%-120%) 0.0510 Barium 0.0500 mg/L 102 (80%-120%) Beryllium 0.0500 0.0545 109 mg/L (80%-120%) Boron 0.100 0.112 mg/L 112 (80%-120%) 08/18/23 12:28 0.0510 Cadmium 0.0500 mg/L 102 (80%-120%) 08/17/23 13:04 Calcium 2.00 2.08 mg/L 104 (80%-120%) Chromium 0.0500 0.0505 101 (80%-120%) mg/L 0.0502 Cobalt 0.0500 mg/L 100 (80%-120%) 1.99 99.4 Iron 2.00 mg/L (80%-120%) 0.0500 0.0509 102 Lead mg/L (80%-120%) Lithium 0.0500 0.0509 mg/L 102 (80%-120%) 2.00 2.09 104 Magnesium (80%-120%) mg/L Manganese 0.0500 0.0513 mg/L 103 (80%-120%) 08/18/23 12:28

Workorder:

633126

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QC Summary

Workorder: 633126 Page 3 of 19 QC RPD% REC% Parmname NOM Sample Qual Units Range Anlst Date Time Metals Analysis - ICPMS 2475579 Batch Molybdenum 0.0500 0.0529 mg/L106 (80%-120%) PRB 08/17/23 13:04 Potassium 2.00 2.07 mg/L 103 (80%-120%) Selenium 0.0500 0.0487 mg/L97.4 (80%-120%) Silver 0.0500 0.0519 104 mg/L(80%-120%) Sodium 2.00 2.22 mg/L 111 (80%-120%) 0.0495 Thallium 0.0500 98.9 mg/L(80%-120%) QC1205486561 MB U Aluminum ND mg/L08/17/23 13:00 ND U 08/18/23 12:26 Antimony mg/L U ND 08/17/23 13:00 Arsenic mg/LU Barium ND mg/L Beryllium U ND mg/LU ND 08/18/23 12:26 Boron mg/LCadmium U ND mg/L08/17/23 13:00 U ND Calcium mg/L Chromium U ND mg/L

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QC Summary

Workorder: 633126 Page 4 of 19 QC RPD% REC% Range P<u>armname</u> NOM Sample Qual Units Anlst Date Time Metals Analysis - ICPMS Batch 2475579 Cobalt U ND mg/LPRB 08/17/23 13:00 Iron U ND mg/L Lead U ND mg/LU ND Lithium mg/L Magnesium U ND mg/L U ND 08/18/23 12:26 Manganese mg/LU ND 08/17/23 13:00 Molybdenum mg/LU ND Potassium mg/LU ND Selenium mg/L Silver U ND mg/LU ND Sodium mg/L Thallium U ND mg/L QC1205486563 633126001 MS Aluminum 2.00 U ND 2.04 102 (75%-125%) 08/17/23 13:12 mg/L0.0500 U ND 0.0524 104 08/18/23 12:34 Antimony mg/L (75%-125%) Arsenic 0.0500 U ND 0.0520 mg/L101 (75% - 125%)08/17/23 13:12

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QC Summary

Workorder: 633126 Page 5 of 19 Sample Qual **Parmname** NOM QC Units RPD% REC% Range Anlst Date Time Metals Analysis - ICPMS 2475579 Batch Barium 0.0500 0.0444 0.0929 mg/L96.9 (75%-125%) PRB 08/17/23 13:12 Beryllium 0.0500 U ND 0.0552 110 (75%-125%) mg/L Boron 0.100 1.18 1.23 mg/L N/A (75%-125%) 08/18/23 12:55 0.0500 U ND 0.0518 Cadmium mg/L 104 (75%-125%) 08/17/23 13:12 Calcium 2.00 80.2 81.5 mg/L N/A (75%-125%) 08/17/23 13:39 0.0500 U ND 0.0501 99.8 Chromium mg/L(75%-125%) 08/17/23 13:12 0.0500 J 0.000889 0.0495 97.3 Cobalt mg/L (75% - 125%)Iron 2.00 0.808 2.77 98 (75% - 125%)mg/L ND 0.0500 U 0.0490 Lead mg/L 98.1 (75%-125%) Lithium 0.0500 0.0121 0.0638 103 mg/L(75% - 125%)2.00 36.0 39.4 N/A (75%-125%) Magnesium mg/L 0.0500 0.351 0.408 N/A 08/18/23 12:34 Manganese mg/L (75% - 125%)ND 0.0552 Molybdenum 0.0500 U mg/L 110 (75%-125%) 08/17/23 13:12 Potassium 2.00 5.91 7.87 98.2 (75% - 125%)mg/L 0.0500 U ND 0.0506 100 Selenium mg/L (75%-125%)

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QC Summary

Workorder: 633126 Page 6 of 19 **Parmname NOM** Sample Qual QC Units RPD% REC% Range Anlst Date Time Metals Analysis - ICPMS 2475579 Batch Silver 0.0500 U ND 0.0515 mg/L 103 (75% - 125%)PRB 08/17/23 13:12 Sodium 2.00 19.3 21.8 N/A (75%-125%) mg/L Thallium 0.0500 U ND 0.0483 mg/L 96.6 (75% - 125%)QC1205486564 633126001 MSD Aluminum 2.00 U ND 2.03 mg/L 0.793 101 (0%-20%)08/17/23 13:16 0.0500 U ND 0.0530 1.03 105 08/18/23 12:37 mg/L (0%-20%)Antimony Arsenic 0.0500 ND 0.0520 mg/L 0.0384 101 (0%-20%)08/17/23 13:16 Barium 0.0500 0.0444 0.0939 mg/L 1.06 98.9 (0%-20%)ND 0.0548 Beryllium 0.0500 U mg/L 0.695 110 (0%-20%)0.100 1.18 1.21 1.71 N/A (0%-20%)08/18/23 12:58 Boron mg/L 0.0500 U ND 0.0521 104 08/17/23 13:16 Cadmium mg/L 0.408(0%-20%)80.2 79.9 Calcium 2.00 mg/L 2.03 N/A (0%-20%)08/17/23 13:42 ND Chromium 0.0500 U 0.0492 mg/L (0%-20%)08/17/23 13:16 1.79 98 Cobalt 0.0500 0.000889 0.0485 95.1 (0%-20%)mg/L 2.17 0.808 2.00 2.69 94.2 mg/L 2.84 (0%-20%)Iron Lead 0.0500 U ND 0.0495 mg/L 1.02 99.1 (0% - 20%)

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QC Summary

Workorder: 633126 Page 7 of 19 **Parmname** NOM Sample Qual QC Units RPD% REC% Range Anlst Date Time Metals Analysis - ICPMS 2475579 Batch Lithium 0.0500 0.0121 0.0623 mg/L2.34 100 (0%-20%)PRB 08/17/23 13:16 2.00 36.0 37.8 N/A(0%-20%)Magnesium mg/L 4.16 Manganese 0.0500 0.351 0.397 mg/L 2.92 N/A (0%-20%)08/18/23 12:37 U ND 0.0548 109 Molybdenum 0.0500 mg/L 0.849 (0%-20%)08/17/23 13:16 mg/L Potassium 2.00 5.91 7.81 0.806 95.1 (0%-20%)0.0500 U ND 0.0489 mg/L (0%-20%)3.33 97 Selenium 0.0500 U ND 0.0518 Silver mg/L 0.589 103 (0%-20%)Sodium 2.00 19.3 21.0 N/A mg/L 3.46 (0%-20%)ND 0.0500 U 0.0486 97.3 Thallium mg/L 0.679 (0%-20%)QC1205486565 633126001 SDILT U ND U ND (0%-20%)08/17/23 13:24 Aluminum ug/L N/A U ND U ND ug/L N/A (0%-20%)08/18/23 12:43 Antimony U ND U ND ug/L (0%-20%)08/17/23 13:24 Arsenic N/A Barium 44.4 8.42 5.22 (0% - 20%)ug/L U ND U ND Beryllium ug/L N/A (0%-20%)Boron 118 24.8 ug/L 4.96 (0%-20%)08/18/23 13:01

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QC Summary

Page 8 of 19 QC REC% **Parmname** NOM Sample Qual Units RPD% Range Anlst Date Time Metals Analysis - ICPMS 2475579 Batch U Cadmium ND U ND ug/L N/A (0%-20%)PRB 08/17/23 13:24 Calcium 8020 1650 ug/L 2.53 (0%-20%)08/17/23 13:46 U Chromium ND U ND ug/L N/A (0%-20%)08/17/23 13:24 J 0.889 U ND Cobalt ug/L N/A (0%-20%)Iron 808 165 ug/L 1.85 (0%-20%)U U ND ND ug/L N/A (0%-20%)Lead U ND (0%-20%)Lithium 12.1 ug/L N/A 36000 7510 4.38 (0%-20%)Magnesium ug/L ug/L 351 71.9 (0%-20%)08/18/23 12:43 Manganese 2.48 U ND U ND N/A (0%-20%)08/17/23 13:24 Molybdenum ug/L 5910 Potassium 1150 2.42 (0%-20%)ug/L Selenium U ND U ND ug/L N/A (0%-20%) Silver U ND ND U ug/L N/A (0%-20%)Sodium 19300 3960 ug/L 2.69 (0%-20%)U U (0%-20%) Thallium ND ND ug/L N/A

Workorder:

633126

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QC Summary

Workorder: 633126 Page 9 of 19 Sample Qual **Parmname** NOM QC Units RPD% REC% Range Anlst Date Time Metals Analysis - ICPMS 2484159 Batch QC1205501936 LCS 108 2.00 2.15 mg/L (80%-120%) PRB 08/31/23 13:25 Aluminum Antimony 0.0500 0.0493 mg/L 98.6 (80%-120%) 08/31/23 01:42 0.0500 0.0493 98.5 08/31/23 13:25 Arsenic mg/L (80%-120%) 0.0538 Barium 0.0500 mg/L 108 (80%-120%) Beryllium 0.0500 0.0584 08/31/23 01:42 mg/L 117 (80%-120%) Boron 0.100 0.112 mg/L 112 (80% - 120%)08/31/23 13:25 0.0516 Cadmium 0.0500 mg/L 103 (80%-120%) Calcium 2.00 2.12 mg/L 106 (80%-120%) Chromium 0.0500 0.0499 99.8 (80%-120%) mg/L 0.0492 Cobalt 0.0500 mg/L 98.3 (80%-120%) 1.99 99.5 Iron 2.00 mg/L (80%-120%) 0.0500 0.0520 104 Lead mg/L (80%-120%) Lithium 0.0500 0.0542 mg/L 108 (80%-120%) 2.00 2.22 111 Magnesium (80%-120%) mg/L Manganese 0.0500 0.0498 mg/L 99.7 (80%-120%)

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QC Summary

Workorder: 633126 Page 10 of 19 QC RPD% REC% Parmname NOM Sample Qual Units Range Anlst Date Time Metals Analysis - ICPMS 2484159 Batch Molybdenum 0.0500 0.0502 mg/L100 (80%-120%) PRB 09/01/23 11:34 Potassium 2.00 2.16 mg/L 108 (80%-120%) 08/31/23 13:25 Selenium 0.0500 0.0479 mg/L95.9 (80%-120%) Silver 0.0500 0.0532 mg/L106 (80%-120%) Sodium 2.00 2.21 mg/L 111 (80%-120%) 0.0509 Thallium 0.0500 102 mg/L(80%-120%) QC1205501935 MB 0.0210 Aluminum mg/L08/31/23 13:21 ND U 08/31/23 01:39 Antimony mg/L U ND 08/31/23 13:21 Arsenic mg/LU Barium ND mg/L Beryllium U ND mg/L08/31/23 01:39 08/31/23 13:21 U ND Boron mg/LCadmium U ND mg/LU ND Calcium mg/L Chromium U ND mg/L

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QC Summary

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Workorder: 633126											Page 11	of 19
Parmname	NO	M	Sample (Qual	QC	Units	RPD%	REC%	Range	Anlst	Date T	lime
Metals Analysis - ICPMS Batch 2484159												
Cobalt				U	ND	mg/L				PRB	08/31/23	13:21
												ļ
Iron				U	ND	mg/L						
Lead				U	ND	mg/L						
												l
Lithium				U	ND	mg/L						
						٥						ļ
Magnesium				U	ND	mg/L						ļ
Magnesium				Č	112	1115, -						
Manganese				U	ND	mg/L						
Manganese				C	П	IIIg/L						
Molybdenum				U	ND	ma/I					09/01/23	11.22
Moryodenum				U	ND	mg/L					09/01/23	11:52
The state of the s				TT	ND	/I					00/21/02	12.01
Potassium				U	ND	mg/L					08/31/23	13:21
				••	N.D.	7						
Selenium				U	ND	mg/L						
Silver				U	ND	mg/L						
Sodium				U	ND	mg/L						
Thallium				U	ND	mg/L						
QC1205501937 633126011 MS		ī	0.0254		2.10	ma/I		100	(750/ 1250/	`	00/21/22	14.20
Aluminum	2.00	J	0.0254		2.19	mg/L		108	(75%-125%)	08/31/23	14:50
	2.0500	• •	ND		2.2521	7.		101	1050/		(21/22	
Antimony	0.0500	U	ND		0.0521	mg/L		104	(75%-125%)	08/31/23	02:22
Arsenic	0.0500	U	ND		0.0535	mg/L		105	(75%-125%)	08/31/23	14:30
												ı

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QC Summary

			ge summa	y				
Workorder: 633126								Page 12 of 19
Parmname Metals Analysis - ICPMS	NOM	Sample	Qual QC	Units	RPD% REC%	Range	Anlst	Date Time
Batch 2484159								
Barium	0.0500	0.0474	0.105	mg/L	115	(75%-125%)	PRB	08/31/23 14:30
Beryllium	0.0500 U	J ND	0.0583	mg/L	116	(75%-125%)		08/31/23 02:22
Boron	0.100	1.12	1.23	mg/L	N/A	(75%-125%)		08/31/23 14:48
	0.0500	ı ND	0.0527	/1	105	(750/ 1050/)		00/21/22 14 20
Cadmium	0.0500 U	J ND	0.0527	mg/L	105	(75%-125%)		08/31/23 14:30
Calcium	2.00	82.9	85.7	mg/L	N/A	(75%-125%)		08/31/23 14:48
Catelum	2.00	02.7	03.7	mg/L	14/71	(7370-12370)		00/31/23 14.40
Chromium	0.0500 U	J ND	0.0515	mg/L	103	(75%-125%)		08/31/23 14:30
						,		
Cobalt	0.0500 J	0.000813	0.0499	mg/L	98.2	(75%-125%)		
Iron	2.00	0.719	2.76	mg/L	102	(75%-125%)		
Lead	0.0500 U	J ND	0.0534	mg/L	107	(75%-125%)		
Lithium	0.0500	0.0131	0.0679	mg/L	110	(75%-125%)		
	• • •	44.0			27/1			
Magnesium	2.00	41.8	44.1	mg/L	N/A	(75%-125%)		
Manganese	0.0500	0.348	0.395	mg/L	N/A	(75%-125%)		
Manganese	0.0300	0.540	0.373	mg/L	IV/A	(7370-12370)		
Molybdenum	0.0500 U	J ND	0.0530	mg/L	106	(75%-125%)		09/01/23 11:42
. ,				8		(,		
Potassium	2.00	6.43	8.64	mg/L	110	(75%-125%)		08/31/23 14:30
				-				
Selenium	0.0500 U	J ND	0.0509	mg/L	101	(75%-125%)		

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QC Summary

Workorder: 633126 Page 13 of 19 **Parmname NOM** Sample Qual QC Units RPD% REC% Range Anlst Date Time Metals Analysis - ICPMS 2484159 Batch Silver 0.0500 U ND 0.0531 mg/L 106 (75% - 125%)PRB 08/31/23 14:30 Sodium 2.00 21.0 23.1 N/A (75%-125%) mg/L Thallium 0.0500 U ND 0.0521 mg/L 104 (75% - 125%)QC1205501938 633126011 MSD Aluminum 2.00 J 0.0254 2.20 mg/L 0.569 109 (0% - 20%)08/31/23 14:34 0.0500 U ND 0.0517 103 08/31/23 02:25 Antimony mg/L 0.72 (0%-20%)Arsenic 0.0500 U ND 0.0533 mg/L 0.384 105 (0%-20%)08/31/23 14:34 Barium 0.0500 0.0474 0.106 0.7 117 (0%-20%)mg/L ND 0.0577 Beryllium 0.0500 U mg/L 0.926 115 (0%-20%)08/31/23 02:25 mg/L0.100 1.12 1.22 0.643 N/A (0%-20%)08/31/23 14:52 Boron 0.0500 U ND 0.0523 0.743 105 08/31/23 14:34 Cadmium mg/L (0%-20%)82.9 86.8 Calcium 2.00 mg/L 1.29 N/A(0%-20%)08/31/23 14:52 ND 0.0507 Chromium 0.0500 U mg/L 101 (0%-20%)08/31/23 14:34 1.53 Cobalt 0.0500 0.000813 0.0509 2.03 100 (0%-20%)mg/L 2.00 0.719 2.72 100 mg/L 1.43 (0%-20%)Iron Lead 0.0500 U ND 0.0519 mg/L 2.76 104 (0%-20%)

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QC Summary

Workorder: 633126 Page 14 of 19 **Parmname** NOM Sample Qual QC Units RPD% REC% Range Anlst Date Time Metals Analysis - ICPMS 2484159 Batch Lithium 0.0500 0.0131 0.0673 mg/L 0.9 108 (0%-20%)PRB 08/31/23 14:34 2.00 41.8 44.2 0.204 N/A(0%-20%)Magnesium mg/L Manganese 0.0500 0.348 0.400 mg/L 1.2 N/A (0%-20%)0.0500 U ND 0.0529 106 Molybdenum mg/L 0.157 (0%-20%)09/01/23 11:44 mg/L Potassium 2.00 6.43 8.86 2.54 122 (0%-20%)08/31/23 14:34 0.0500 U ND 0.0511 mg/L 102 0.292 Selenium (0%-20%)0.0500 U ND 0.0523 Silver mg/L 1.45 105 (0%-20%)Sodium 2.00 21.0 23.5 1.93 N/A mg/L (0%-20%)ND 0.0500 U 0.0516 Thallium mg/L 0.922 103 (0%-20%)QC1205501939 633126011 SDILT J 25.4 U ND (0%-20%)08/31/23 14:41 Aluminum ug/L N/A U ND U ND ug/L N/A (0%-20%)08/31/23 02:33 Antimony 08/31/23 14:41 U ND U ND ug/L (0%-20%)Arsenic N/A Barium 47.4 9.66 1.79 (0% - 20%)ug/L U ND U ND 08/31/23 02:33 Beryllium ug/L N/A (0%-20%)Boron 112 24.6 ug/L 9.94 (0%-20%)08/31/23 14:59

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QC Summary

Page 15 of 19 QC REC% **Parmname** NOM Sample Qual Units RPD% Range Anlst Date Time Metals Analysis - ICPMS 2484159 Batch U Cadmium ND U ND ug/L N/A (0%-20%)PRB 08/31/23 14:41 Calcium 8290 1690 ug/L 2.04 (0%-20%)08/31/23 14:59 U Chromium ND U ND ug/L N/A (0%-20%)08/31/23 14:41 J 0.813 U ND Cobalt ug/L N/A (0%-20%)Iron 719 147 ug/L 2.29 (0%-20%)U ND ND U ug/L N/A (0%-20%)Lead U ND (0%-20%)Lithium 13.1 ug/L N/A 7980 41800 4.56 (0%-20%)Magnesium ug/L ug/L 348 71.4 (0%-20%) Manganese 2.63 U ND U ND N/A (0%-20%)09/01/23 11:48 Molybdenum ug/L Potassium 6430 1270 1.12 (0%-20%)08/31/23 14:41 ug/L Selenium U ND U ND ug/L N/A (0%-20%) Silver U ND ND U ug/L N/A (0%-20%)Sodium 21000 3960 ug/L 5.91 (0%-20%)U U (0%-20%) Thallium ND ND ug/L N/A

Workorder:

633126

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QC Summary

633126 Page 16 of 19 **Parmname** NOM Sample Qual QC Units RPD% REC% Range Anlst Date Time Metals Analysis-Mercury 2475854 Batch QC1205487211 632954001 DUP U ND U ND mg/L N/A JP2 08/15/23 12:27 Mercury QC1205487204 LCS 0.00200 0.00199 08/15/23 12:02 Mercury mg/L 99.6 (80%-120%) QC1205487203 MB U ND 08/15/23 12:01 Mercury mg/L QC1205487212 632954001 MS 0.00200 U ND 0.00200 100 (75%-125%) 08/15/23 12:29 Mercury mg/LQC1205487213 632954001 SDILT U ND U ND ug/L N/A (0%-10%)08/15/23 12:30 Mercury 2484083 Batch QC1205501815 632699006 DUP U mg/L Mercury ND U ND N/A AXS5 08/31/23 11:52 QC1205501814 LCS 0.00200 0.00202 mg/L 101 (80%-120%) 08/31/23 11:49 Mercury QC1205501813 MB U Mercury ND mg/L 08/31/23 11:47 QC1205501816 632699006 MS Mercury 0.00200 U ND 0.00202 mg/L 101 (75% - 125%)08/31/23 11:54 QC1205501817 632699006 SDILT U ND U ND 08/31/23 11:55 Mercury ug/L N/A (0%-10%)

Workorder:

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QC Summary

Workorder: 633126 Page 17 of 19 Parmname NOM Sample Qual QC Units RPD% REC% Range Anlst Date Time **Nutrient Analysis** 2475768 Batch QC1205487034 633126010 DUP 0.0715 0.0710 mg/L 0.702 ^ (+/-0.0200) AXH3 08/14/23 08:00 Nitrogen, Nitrate/Nitrite QC1205487031 LCS Nitrogen, Nitrate/Nitrite 1.01 1.00 mg/L 101 (90%-110%) 08/14/23 07:39 QC1205487030 MB U ND 08/14/23 07:38 Nitrogen, Nitrate/Nitrite mg/L QC1205487035 633126010 PS Nitrogen, Nitrate/Nitrite 1.00 0.0715 0.855 78.4* (90%-110%) 08/14/23 08:01 mg/L **Solids Analysis** Batch 2477178 QC1205489455 633255002 DUP 136 137 **Total Dissolved Solids** mg/L 0.733 (0%-5%)CH6 08/16/23 15:58 QC1205489454 LCS **Total Dissolved Solids** 300 301 mg/L 100 (95%-105%) 08/16/23 15:58 QC1205489453 U ND **Total Dissolved Solids** mg/L 08/16/23 15:58 **Titration and Ion Analysis** Batch 2476209 QC1205487866 633099001 DUP Alkalinity, Total as CaCO3 52.6 52.7 mg/L 0.19 (0%-20%)JW2 08/14/23 15:56 Bicarbonate alkalinity (CaCO3) 52.6 52.7 mg/L 0.19 (0%-20%)U ND Carbonate alkalinity (CaCO3) ND U mg/L N/A QC1205487868 633099016 DUP Alkalinity, Total as CaCO3 259 259 mg/L 0.154 (0%-20%)08/14/23 16:35

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QC Summary

Workorder: 633126 Page 18 of 19 **Parmname** NOM Sample Qual \mathbf{OC} Units RPD% REC% Range Anlst Date Time **Titration and Ion Analysis** Batch 2476209 Bicarbonate alkalinity (CaCO3) 259 259 mg/L 0.154 (0%-20%)JW2 08/14/23 16:35 U ND U ND Carbonate alkalinity (CaCO3) mg/L N/A QC1205487865 LCS 50.0 50.6 101 Alkalinity, Total as CaCO3 (90%-110%) 08/14/23 15:48 mg/L QC1205487867 633099001 MS 52.6 104 103 Alkalinity, Total as CaCO3 50.0 mg/L (80% - 120%)08/14/23 15:57 QC1205487869 633099016 MS 259 50.0 311 08/14/23 16:38 Alkalinity, Total as CaCO3 mg/L N/A (80%-120%)

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.

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QC Summary

Workorder: 633126

Parmname

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

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. $^{\circ}$ 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.

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Technical Case Narrative Georgia Power Company SDG #: 632699

Metals

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

Analytical Batch: 2474005

Preparation Method: SW846 3005A

Preparation Procedure: GL-MA-E-006 REV# 14

Preparation Batch: 2474004

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

GEL Sample ID#	Client Sample Identification
632699001	ARK-ARGWA-19
632699002	ARK-AP2-FD-01
632699003	ARK-ARGWC-22
632699004	ARK-ARAMW-7
632699005	ARK-AP2-FB-01
632699006	ARK-ARAMW-9
632699007	ARK-ARAMW-2
632699008	ARK-ARAMW-1
632699009	ARK-ARGWC-23
1205484017	Method Blank (MB) ICP-MS
1205484018	Laboratory Control Sample (LCS)
1205484021	632699001(ARK-ARGWA-19L) Serial Dilution (SD)
1205484019	632699001(ARK-ARGWA-19S) Matrix Spike (MS)
1205484020	632699001(ARK-ARGWA-19SD) 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

CRDL/PQL Requirements

The CRDL standard recoveries for SW846 6020B met the advisory control limits with the exception of magnesium and calcium. Client sample concentrations were less than the MDL or greater than two times the CRDL; therefore the data were not adversely affected.

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

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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 632699003 (ARK-ARGWC-22), 632699004 (ARK-ARAMW-7), 632699006 (ARK-ARAMW-9), 632699007 (ARK-ARAMW-2), 632699008 (ARK-ARAMW-1) and 632699009 (ARK-ARGWC-23) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument.

	632699								
Analyte	003	004	006	007	008	009			
Boron	20X	20X		20X	20X	10X			
Calcium	20X	20X	10X	20X	20X	10X			
Magnesium	20X	20X		1X	1X	1X			
Manganese	20X	20X	1X	1X	1X	1X			
Sodium		1X	10X	1X	1X	1X			

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

Analytical Batch: 2484159

Preparation Method: SW846 3005A

Preparation Procedure: GL-MA-E-006 REV# 14

Preparation Batch: 2484158

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

GEL Sample ID#	Client Sample Identification
632699010	ARK-ARGWA-19
632699011	ARK-ARGWC-22
632699012	ARK-ARAMW-7
632699013	ARK-ARAMW-9
632699014	ARK-ARAMW-2
632699015	ARK-ARAMW-1
632699016	ARK-ARGWC-23
1205501935	Method Blank (MB)ICP-MS
1205501936	Laboratory Control Sample (LCS)
1205501939	633126011(ARK-ARGWC-21L) Serial Dilution (SD)
1205501937	633126011(ARK-ARGWC-21S) Matrix Spike (MS)
1205501938	633126011(ARK-ARGWC-21SD) 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

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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 632699011 (ARK-ARGWC-22), 632699012 (ARK-ARAMW-7), 632699013 (ARK-ARAMW-9) and 632699014 (ARK-ARAMW-2) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument.

Amalasta	632699							
Analyte	011	012	013	014				
Boron	25X		1X					
Calcium	25X		10X					
Magnesium	25X		1X					
Manganese	25X	50X	1X	10X				
Sodium	1X		10X					

Product: Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer

Analytical Method: SW846 7470A

Analytical Procedure: GL-MA-E-010 REV# 39

Analytical Batch: 2474015

Preparation Method: SW846 7470A Prep

Preparation Procedure: GL-MA-E-010 REV# 39

Preparation Batch: 2474012

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

GEL Sample ID#	Client Sample Identification
632699001	ARK-ARGWA-19
632699002	ARK-AP2-FD-01
632699003	ARK-ARGWC-22
632699004	ARK-ARAMW-7
632699005	ARK-AP2-FB-01
632699006	ARK-ARAMW-9
632699007	ARK-ARAMW-2
632699008	ARK-ARAMW-1
632699009	ARK-ARGWC-23
1205484045	Method Blank (MB)CVAA
1205484046	Laboratory Control Sample (LCS)
1205484049	632582001(NonSDGL) Serial Dilution (SD)
1205484047	632582001(NonSDGD) Sample Duplicate (DUP)
1205484048	632582001(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.

Product: Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer

Analytical Method: SW846 7470A

Analytical Procedure: GL-MA-E-010 REV# 40

Analytical Batch: 2484083

Preparation Method: SW846 7470A Prep

Preparation Procedure: GL-MA-E-010 REV# 40

Preparation Batch: 2484082

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

GEL Sample ID#	Client Sample Identification
632699006	ARK-ARAMW-9
632699007	ARK-ARAMW-2
632699011	ARK-ARGWC-22
1205501813	Method Blank (MB)CVAA
1205501814	Laboratory Control Sample (LCS)
1205501817	632699006(ARK-ARAMW-9L) Serial Dilution (SD)
1205501815	632699006(ARK-ARAMW-9D) Sample Duplicate (DUP)
1205501816	632699006(ARK-ARAMW-9S) 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# 32

Analytical Batch: 2473965

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

Client Sample Identification
ARK-ARGWA-19
ARK-AP2-FD-01
ARK-ARGWC-22
ARK-ARAMW-7
ARK-AP2-FB-01
ARK-ARAMW-9

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632699007	ARK-ARAMW-2
632699008	ARK-ARAMW-1
632699009	ARK-ARGWC-23
1205483948	Method Blank (MB)
1205483949	Laboratory Control Sample (LCS)
1205483950	632604002(NonSDG) Sample Duplicate (DUP)
1205483951	632604002(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 632699003 (ARK-ARGWC-22), 632699004 (ARK-ARAMW-7), 632699006 (ARK-ARAMW-9), 632699007 (ARK-ARAMW-2), 632699008 (ARK-ARAMW-1) and 632699009 (ARK-ARGWC-23) were diluted because target analyte concentrations exceeded the calibration range. Sample 632699003 (ARK-ARGWC-22) was diluted to minimize matrix effects on instrument performance. Sample 632699003 (ARK-ARGWC-22) was diluted based on historical data. 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	632699							
	003	004	006	007	008	009		
Chloride	10X	1X	50X	1X	1X	1X		
Fluoride	2X	1X	1X	1X	1X	1X		
Sulfate	100X	100X	50X	50X	50X	5X		

<u>Product:</u> Nitrate/Nitrite Cad Redux Low Level <u>Analytical Method:</u> EPA 353.2 Low Level <u>Analytical Procedure:</u> GL-GC-E-128 REV# 14

Analytical Batch: 2473982

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

GEL Sample ID#	Client Sample Identification
632699001	ARK-ARGWA-19
632699002	ARK-AP2-FD-01
632699003	ARK-ARGWC-22
632699004	ARK-ARAMW-7
632699005	ARK-AP2-FB-01
632699006	ARK-ARAMW-9
632699007	ARK-ARAMW-2
632699008	ARK-ARAMW-1
632699009	ARK-ARGWC-23
1205483978	Method Blank (MB)

1205483979	Laboratory Control Sample (LCS)
1205485195	632699001(ARK-ARGWA-19) Post Spike (PS)
1205485196	632699001(ARK-ARGWA-19) 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.

Technical Information

Sample Dilutions

The following samples 1205485195 (ARK-ARGWA-19PS), 1205485196 (ARK-ARGWA-19DUP), 632699001 (ARK-ARGWA-19), 632699002 (ARK-AP2-FD-01) and 632699009 (ARK-ARGWC-23) 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.

Analota	632699		
Analyte	001	002	009
Nitrogen, Nitrate/Nitrite	5X	5X	5X

Sample Re-analysis

Samples 632699008 (ARK-ARAMW-1) and 632699009 (ARK-ARGWC-23) were re-analyzed due to instrument failure. The results from the reanalysis are reported.

Product: Solids, Total Dissolved Analytical Method: SM 2540C

Analytical Procedure: GL-GC-E-001 REV# 21

Analytical Batch: 2474115

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

GEL Sample ID#	Client Sample Identification
632699001	ARK-ARGWA-19
632699002	ARK-AP2-FD-01
632699003	ARK-ARGWC-22
632699004	ARK-ARAMW-7
632699005	ARK-AP2-FB-01
632699006	ARK-ARAMW-9
632699007	ARK-ARAMW-2
632699008	ARK-ARAMW-1
632699009	ARK-ARGWC-23
1205484187	Method Blank (MB)
1205484188	Laboratory Control Sample (LCS)
1205484191	632609002(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 matrix interference. 632699003 (ARK-ARGWC-22), 632699004 (ARK-ARAMW-7) and 632699006 (ARK-ARAMW-9).

Product: Alkalinity

Analytical Method: SM 2320B

Analytical Procedure: GL-GC-E-033 REV# 15

Analytical Batch: 2474137

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

GEL Sample ID#	Client Sample Identification
632699001	ARK-ARGWA-19
632699003	ARK-ARGWC-22
632699004	ARK-ARAMW-7
632699006	ARK-ARAMW-9
632699007	ARK-ARAMW-2
632699008	ARK-ARAMW-1
632699009	ARK-ARGWC-23
1205484236	Laboratory Control Sample (LCS)
1205484237	632699001(ARK-ARGWA-19) Sample Duplicate (DUP)
1205484238	632699001(ARK-ARGWA-19) 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.

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.

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Technical Case Narrative Georgia Power Company SDG #: 633126

Metals

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

Analytical Batch: 2475579

Preparation Method: SW846 3005A

Preparation Procedure: GL-MA-E-006 REV# 14

Preparation Batch: 2475578

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

GEL Sample ID#	Client Sample Identification
633126001	ARK-ARGWC-21
633126002	ARK-AP2-EB-01
633126003	ARK-ARAMW-8
633126004	ARK-ARGWA-20
633126005	ARK-STN-TW22
1205486561	Method Blank (MB)ICP-MS
1205486562	Laboratory Control Sample (LCS)
1205486565	633126001(ARK-ARGWC-21L) Serial Dilution (SD)
1205486563	633126001(ARK-ARGWC-21S) Matrix Spike (MS)
1205486564	633126001(ARK-ARGWC-21SD) 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

CRDL/PQL Requirements

The CRDL standard recoveries for SW846 6020B met the advisory control limits with the exception of calcium. Client sample concentrations were less than the MDL or greater than two times the CRDL; therefore the data were not adversely affected.

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 633126001 (ARK-ARGWC-21),

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633126003 (ARK-ARAMW-8) and 633126005 (ARK-STN-TW22) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument.

Analyte	633126		
	001	003	005
Boron	10X	10X	100X
Calcium	10X	10X	10X
Manganese	1X	1X	100X

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

Analytical Batch: 2484159

Preparation Method: SW846 3005A

Preparation Procedure: GL-MA-E-006 REV# 14

Preparation Batch: 2484158

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

GEL Sample ID#	Client Sample Identification
633126011	ARK-ARGWC-21
633126012	ARK-ARAMW-8
633126013	ARK-ARGWA-20
633126014	ARK-STN-TW22
1205501935	Method Blank (MB)ICP-MS
1205501936	Laboratory Control Sample (LCS)
1205501939	633126011(ARK-ARGWC-21L) Serial Dilution (SD)
1205501937	633126011(ARK-ARGWC-21S) Matrix Spike (MS)
1205501938	633126011(ARK-ARGWC-21SD) 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 633126011 (ARK-ARGWC-21) and

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633126014 (ARK-STN-TW22) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument.

Analyte	633126	
	011	014
Boron	10X	
Calcium	10X	
Manganese	1X	50X

Product: Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer

Analytical Method: SW846 7470A

Analytical Procedure: GL-MA-E-010 REV# 39

Analytical Batch: 2475854

Preparation Method: SW846 7470A Prep

Preparation Procedure: GL-MA-E-010 REV# 39

Preparation Batch: 2475853

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

GEL Sample ID#	Client Sample Identification
633126001	ARK-ARGWC-21
633126002	ARK-AP2-EB-01
633126003	ARK-ARAMW-8
633126004	ARK-ARGWA-20
633126005	ARK-STN-TW22
1205487203	Method Blank (MB)CVAA
1205487204	Laboratory Control Sample (LCS)
1205487213	632954001(NonSDGL) Serial Dilution (SD)
1205487211	632954001(NonSDGD) Sample Duplicate (DUP)
1205487212	632954001(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.

Product: Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer

Analytical Method: SW846 7470A

Analytical Procedure: GL-MA-E-010 REV# 40

Analytical Batch: 2484083

Preparation Method: SW846 7470A Prep

Preparation Procedure: GL-MA-E-010 REV# 40

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Preparation Batch: 2484082

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

GEL Sample ID#	Client Sample Identification
633126001	ARK-ARGWC-21
633126003	ARK-ARAMW-8
633126004	ARK-ARGWA-20
633126005	ARK-STN-TW22
633126011	ARK-ARGWC-21
633126013	ARK-ARGWA-20
1205501813	Method Blank (MB)CVAA
1205501814	Laboratory Control Sample (LCS)
1205501817	632699006(ARK-ARAMW-9L) Serial Dilution (SD)
1205501815	632699006(ARK-ARAMW-9D) Sample Duplicate (DUP)
1205501816	632699006(ARK-ARAMW-9S) 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# 32

Analytical Batch: 2475685

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

GEL Sample ID#	Client Sample Identification
633126001	ARK-ARGWC-21
633126002	ARK-AP2-EB-01
633126003	ARK-ARAMW-8
633126004	ARK-ARGWA-20
633126005	ARK-STN-TW22
1205486795	Method Blank (MB)
1205486796	Laboratory Control Sample (LCS)
1205486797	632744003(NonSDG) Sample Duplicate (DUP)
1205486798	632744003(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

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Sample Dilutions

The following samples 1205486797 (Non SDG 632744003DUP), 1205486798 (Non SDG 632744003PS), 633126001 (ARK-ARGWC-21), 633126003 (ARK-ARAMW-8) and 633126005 (ARK-STN-TW22) 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.

Analysta		63312	26
Analyte	001	003	005
Sulfate	25X	10X	100X

<u>Product:</u> Nitrate/Nitrite Cad Redux Low Level <u>Analytical Method:</u> EPA 353.2 Low Level <u>Analytical Procedure:</u> GL-GC-E-128 REV# 14

Analytical Batch: 2475768

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

GEL Sample ID#	Client Sample Identification
633126006	ARK-ARGWC-21
633126007	ARK-AP2-EB-01
633126008	ARK-ARAMW-8
633126009	ARK-ARGWA-20
633126010	ARK-STN-TW22
1205487030	Method Blank (MB)
1205487031	Laboratory Control Sample (LCS)
1205487034	633126010(ARK-STN-TW22) Sample Duplicate (DUP)
1205487035	633126010(ARK-STN-TW22) 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
Nitrogen, Nitrate/Nitrite	1205487035 (ARK-STN-TW22PS)	78.4* (90%-110%)

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Product: Solids, Total Dissolved **Analytical Method:** SM 2540C

Analytical Procedure: GL-GC-E-001 REV# 21

Analytical Batch: 2477178

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

GEL Sample ID#	Client Sample Identification
633126001	ARK-ARGWC-21
633126002	ARK-AP2-EB-01
633126003	ARK-ARAMW-8
633126004	ARK-ARGWA-20
1205489453	Method Blank (MB)
1205489454	Laboratory Control Sample (LCS)
1205489455	633255002(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: Alkalinity

Analytical Method: SM 2320B

Analytical Procedure: GL-GC-E-033 REV# 15

Analytical Batch: 2476209

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

GEL Sample ID#	Client Sample Identification
633126001	ARK-ARGWC-21
633126003	ARK-ARAMW-8
633126004	ARK-ARGWA-20
633126005	ARK-STN-TW22
1205487865	Laboratory Control Sample (LCS)
1205487866	633099001(ARK-ARGWA-24) Sample Duplicate (DUP)
1205487867	633099001(ARK-ARGWA-24) Matrix Spike (MS)
1205487868	633099016(ARK-ARGWA-14) Sample Duplicate (DUP)
1205487869	633099016(ARK-ARGWA-14) 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.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the

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requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

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Cli © t Name: Georgia Power		Phone	Phone # (937-344-6533)	44-6533					Sam	ple A	Sample Analysis Requested	s Req	ueste	(5)	ill in th	(Fill in the number	of	ontair	containers for each test)	r each	test)	
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Collected By: John Myer; Dylan Quintal, Hoeston Lynn	Send Results To: jabraham@southerneo.com EDD@stantec.com edgar.smith@stantec.com	@southernco.	com EDD	@stantec.	com	н)			Z09) (I	709) III	ty (300 1.)	OC) (Meth	61 17 7	(B02)	LO TO	oreti	s N (EP				Comments	CB.
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ARK-AP2-FD-01	08-08-23	3 NA	A FD	Z	WQ		N.	7		×		×	×	X			X	- 7				
ARK-ARGWC-22	08-08-23	3 0955	N SS	¥	MG			6	×	×	×	×	×	×	×		×	×				
ARK-ARAMW-7	08-08-23	1150	N 08	Y	MG			6	×	×	×	×	×	×	×		×	×				
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ARK-ARAMW-9	08-08-23	3 1235	Z SS	Y	WG	3.5		6	×	×	×	×	×	×	×		×	×				
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ARK-ARAMW-1	08-08-23	3 1600	Z 00	Y	WG			6	×	×	×	×	×	X	×		×	×				
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> For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)	Sample Receipt & Review	form (SRR.				San	Sample Collection Time Zone: [X] Eastern	tion Ti	me Zo	ne: []	X] Eas	tem	[] Pacific	-	[] Central] Mor	ıntain	[] Mountain [] Other:)ther:		1
1.) Chain of Custody Number = Client Determined						:	:			(
 QC Codes: N = Normal Sample, TB = Trip Blank, FD = Fried Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD Frield Filtered: For limid matrices, indicate with a - Y - for ves the sample was field filtered or - N - for sample was not field filtered. 	Field Duplicate, EB = Equipment	slank, MS = M or - N - for samp	latrix Spike le was not	Sample, IV. field filtered	SD = Matr	x spike D	= Mathx Spike Duplicate Sample, G = Grao, C = Composite	ie, G = O	uao, cu	Compo	SILC											
4.) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Water, W=Water, WL=Misc Liquid, SO=Soil, SD=Sediment, SL=Sludge, SS=Soild Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=Nasal	SW=Surface Water, WW=Waste	Water, W=Wate	ar, ML=Mi	sc Liquid, 5	SO=Soil, SI	>=Sedimer	t, SL=Sludge	s, SS=Soli	id Waste	, 0=0il,	F=Filter	r, P=Wi	oe, U=U	ine, F=F	scal, N=N	asal						
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).	l (i.e. 8260B, 6010B/7470A) and n	umber of contain	ners provid	ed for each	(i.e. 8260B	-3,6010	(1 - F02+1/8															
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	Acid, SH = Sodium Hydroxide, SA	= Sulfuric Acid	i, AA = As	corbic Acid	, HX = He	cane, ST =	Sodium Thio	sulfate, If	no prese	ervative	is added	= leave	field bla	¥								
7.) KNOWN OR POSSIBLE HAZARDS	Characteristic Hazards		Listed Waste	ste		٦	Other	Tr.	1,111									P	ease pr	rovide	Please provide any additional details	S
RCRA Metals As = Arsenic Hg= Mercury Do = Borium See Solonium	FL = Flammable/Ignitable CO = Corrosive RE = Reactive		LW= Listed Waste (F.K.P and U-listed wastes.) Waste code(s):	d waste U-listed (s):	wastes.)		(i.e.: misc.	OI = Other / Otknown fie.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.) Descrintim:	onkin ow pH, hazard	asbes, ds, etc.	tos, bei	rylliun	ı, irrita	ints, ot	ier			9 2 9	concerns. of site col	S. (i.e.:	verow regarding nanating armor tasposate concerns. (i.e., Origin of sample(s), type of site collected from, odd matrices, etc.)	type etc.)
	TSCA Regulated	П													1							
Pb = Lead	biphenyls												П		11							
																				3		

632702

GEL Laboratories LLC			SAMPLE RECEIPT & REVIEW FORM 632699
-11 00			SDG/AR/COC/Work Order: 652-699 (32-702
Received By: EG		-	Date Received: 8 9 2 1245
Carrier and Tracking Number			Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other
Suspected Hazard Information	Yes	»N	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation
A)Shipped as a DOT Hazardous?		1	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?		1	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): CP1/mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?		1	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		V	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:
Sample Receipt Criteria	Yes	NA	Ž Comments/Qualifiers (Required for Non-Conforming Items)
Shipping containers received intact and sealed?	1		Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
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:
Daily check performed and passed on IR temperature gun?			Temperature Device Serial #: <u>185-23</u> Secondary Temperature Device Serial # (If Applicable):
5 Sample containers intact and sealed?	1		Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
Samples requiring chemical preservation at proper pH?			Sample ID's and Containers Affected: nitrate containers preserved with sull If Preservation added, Lot#: 3858525-A
7 Do any samples require Volatile Analysis?			If Yes, are Encores or Soil Kits present for solids? YesNoNA(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? YesNoNA(If unknown, select No) Are liquid VOA vials free of headspace? YesNoNA_ Sample ID's and containers affected:
Samples received within holding time?			ID's and tests affected:
Sample ID's on COC match ID's on bottles?	1		ID's and containers affected:
Date & time on COC match date & time on bottles?	1		Circle Applicable: No dates on containers No times on containers CCC missing info Other (describe)
Number of containers received match number indicated on COC?			Circle Applicable: No container count on COC Other (describe)
Are sample containers identifiable as GEL provided by use of GEL labels?			
COC form is properly signed in relinquished/received sections?			Circle Applicable: Not relinquished Other (describe)

Page: 1 of 2 Protect # 175569434		GEL		abo	rate	ries	0		0	13	(133/34	2		GEL Lab 2040 Sav	GEL Laboratories, LLC 2040 Savage Road	CLC		COOKE	CL	
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	GEL Work Order Number:			GEL	Project	GEL Project Manager: Erin Tren	: Erin 1	rent						Fax: (843	Fax: (843) 766-1178	. 8)	1
Clent Name: Georgia Power		Phone # (937-344-6533)	37-344-((2233)				0.1	Sample Analysis Requested	Ana	ysis R	ednes	ted (5)		the num	oer of c	contain	(Fill in the number of containers for each test)	ch test)	
Project/Site Name: Plant Arkwright Ash Pond 2		Fax:				Should this	1 this	IN s	IN	IN			IN	IN	IN	IN	IN		Pre	< Preservative Type (6)
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Conjected By: John Myer, Dylan Quintal, Dylan Ripley, Houston Lynn	Send Results To: jabraham@southernco.com EDD@stantec.com edgar.smith@stantec.com	outhernco.com	EDD@st	antec.com		Aldq			1371		[Meth	FI, Sulf				10272)	I'K' N	700) II		Comments
Sample ID * For composites - indicate start and stop date/time	*Date Collected *Ide/time (mm-dd-5y)	*Time Collected (Military) (hhmm)	QC Code (3)	Field Filtered (3)	Sample Matrix (4)	Radioactive yes, please su isotopic info.	o nwonΧ (۲) san H oldizeog	Softal number	Ag (App. I	Alkalinit SA	TDS (SM	Anions (Cl, (300.0 Rev	A etataM 200)	E62+ / Mr	Method 602	Mercury	A slateM	Na, Fe, Mi	(Task_C	(Task_code: AKK-CCK-ASSMT-2023S1)
ARK-ARGWC-21	08-09-23	1035	Z	Y	WG			X 6	×	×	×	×	×	×		×	×		See Nitr	See Nitrate/Nitrite COC
ARK-AP2-EB-01	08-09-23	1110	FB	Z	WQ	1	100	7	×		×	×	×	×		×			for their times	times
ARK-ARAMW-8	08-09-23	1115	z	Y	WG			X 6	×	×	×	×	×	×		×	×			
ARK-ARGWA-20	08-10-23	0925	z	Y	WG	Ames 17		10 X	×	×	×	×	×	×		×	×			
ARK-STNTW-22	08-10-23	1255	z	Y	MG			X 9	×	×		×	×			×	×		Add. anion o	Add. anion collected at 0825 8/11/23
	Chain of Custody Signatures	es							TAT Requested:	queste		Normal:		Rush:	Spe	Specify:	-	- (Subje	(Subject to Surcharge)	arge)
Relinquished By (Signed) Print Name	Date Received by (signed)		Print Name		Date		Fax Results:	lts: [] Yes	Yes	XINo	0									
1 Stransmer John Myer	8/11/23 10mella	or Ant	Anthon	ward	11/8	123	Select Deliverable: [] C of A	liverabl	e: [] C		[] QC Summary	Summ		[] level]	[X] Level 2		[] Level 3	el 3 [] Level	evel 4	
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3	3						For Lab Receiving Use Only: Custody Seal Intact? [] Yes	Receivin	g Use	Only:	Custoa	y Seal	Intact	[] Yes	[] No	Coole	T	<i>S</i> ₀ ::		
> For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)	Sample Receipt & Review forn	n (SRR.)				Sample Collection Time Zone: [X] Eastern	ollection	Time Z	me:	X]Ea	stern	[] Pacific	cific	[] Central		[] Mountain		[] Other:		
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5.) Freig Triesed, For riquu manites, indicate what a * 1 * 10 yes the sampte was not not an intered. 4.) Matrix Codes, DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, MI=Mise Liquid, SO=Soil, SD=Sediment, SI=Studge, 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).	to yes ure sample was redu interection; SW=Surface Water, WW=Waste Water (i.e. 8260B, 6010B/7470A) and num	ter, W=Water, M	L=Misc L provided	quid, SO=	Soil, SD=S	.r. D=Soil, SD=Sediment, SL=Sludge, (i.e. 8260B - 3, 6010B/7470A - 1).	=Sludge, SS 70.4 - 1).	s=Solid W	aste, O=0	Oil, F=F	ilter, P=	Wipe, U	-Urine,	F=Fecal, N	=Nasal					
6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid,	Acid, SH = Sodium Hydroxide, SA =	Sulfuric Acid, A.	A = Ascorb		K = Hexan	$\mathbf{H}\mathbf{X} = \mathbf{H}\mathbf{e}$ xane, $\mathbf{S}\mathbf{T} = \mathbf{Sodium}$ Thiosulfate, If no preservative is added = leave field blank	um Thiosul	fate, If no	oreservat	ive is ad	ded = lea	ive field	blank							
7) KNOWN OR POSSIBLE HAZARDS	Characteristic Hazards FL = Flammable/Ignitable	Listed LW=1	Listed Waste LW=Listed Waste	ıste			Other OT= Other / Unknown	er / Unk	nwon					7			Plea	se provide rding ham	any additio	Please provide any additional details below regarding handling and/or disposal concerns.
As = Arsenic Hg= Mercury Ba = Barium Se= Selenium	RE = Reactive	Waste	Vaste code(s):	(r,x,r' and U-tisted wastes.) Waste code(s):	es.)		(1.e.: riggwiow pri, aspesios, beryulum, trruanis, other misc. health hazards, etc.) Description:	th haza	ds, etc	os, pe	ryanum	, <i>irrita</i>	nts, or	ner			from from	(1.e.: Origin of sample(s, from, odd matrices, etc.)	sample(s), ices, etc.)	(1.e.: Origin oj sampie(s), type of site conected from, odd matrices, etc.)
Cd = Cadmium Ag= Silver Cr = Chromium MR= Misc. RCRA metals Pb = Lead	TSCA Regulated PCB = Polychlorinated biphenyls													111			pres	Orignially collected i served Nitr	Nitrate by I n unpreserv ate/Nitrite I	Originally Nitrate by N were originally collected in unpreserved bottles; Later preserved Nitrate/Nitrite bottles were sent and
						9												collected	from wells	collected from wells on 8/10/2023

Page: 1 of 2 Project # 175569434				apo	ato	Laboratories	0			2000	1	1	50	2040 Savage Road	ad ad			(00 ler	
COC Number (1): 2 Coolers	100 lar 201	2 cha	in of C	mistry R	and A	gencom Chemistry Radiochemistry Radiobloassay Specialty Analytics (1933 28 Chain of Custody and Analytical Request	Requi	pecially, est	Analytics	63	3	89	P G	Charleston, SC 29407 Phone: (843) 556-8171	5-8171			2 00	~
	GEL Work Order Number:			GEL I	roject l	GEL Project Manager: Erin Trem	Erin Tr	ent					Fa	Fax: (843) 766-1178	178				9
Clent Name: Georgia Power		Phone # (937-344-6533)	37-344-6	533)				S	Sample Analysis Requested	Analy	sis Re	queste) (s) p	(5) (Fill in the number	mber of	contai	of containers for each test)	ach test)	
Project/Site Name: Plant Arkwright Ash Pond 2		Fax:				Should this		IN s.	IN	IN			IN IN	IN		IN	IN	< Preser	< Preservative Type (6)
A Gess: 241 Ralph McGill Blvd SE, Atlanta, GA 30308	A 30308					sample be considered			-	0.0	poi	€66		∀d					,
Concred By: John Myer, Dylan Quintal, Dylan Ripley, Houston Lynn	Send Results To; jabraham@southernco.com EDD@stantec.com edgar.smith@stantec.com	thernco.com	EDD@sta	ntec.com		() Ajddr	sp.res			ty (300	10C) V Meth	V. 2.1 19	(B02	In2+ (E				Cor (task cod	Comments (task code: ARK-CCR-
Sample ID **For commostive - indicate store and ston date: time	*Date Collected	*Time Collected (Military)	QC Code (3)	Field Filtered (3)	Sample Matrix (4)	Radioactive yes, please su isotopic info.	o Known (7) possible Haz	Total numbi	Metals App	Alkalini R2	TDS (SN	IO) anoinA (300.0 Re Metals		Fe2+ / M Method 60		Mercury Metals	Иа, Fe, М	ASSM	ASMT-2023S1)
ARK-ARGWC-21		1035	z	7	WG			X 6	×	×	×	×	×	×	×	×		See Nitrate	See Nitrate/Nitrite COC
AA ARK-AP2-EB-01	08-09-23	1110	FB	z	WQ			7	×		×	X	X		×			for their times	les
ARK-ARAMW-8	08-09-23	1115	Z	Y	DM			X 6	×	×	×	X	×	×	×	×			
ARK-ARGWA-20	08-10-23	0925	Z	Y	WG			10 X	×	×	×	×	×	×	×	×			
ARK-STNTW-22	08-10-23	1255	Z	Y	WG			× 9	×	×		×			×	×		Add. anion colle	anion collected at 0825 8/11/23
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OSIMUM SONDINGS	6 8/11/2 Marty	t V	1 Mthoin	huo	Waso	811)	Select Deliverable: [] C of A [] QC Summary	iverable	e: [] C	of A	[]0c	Summe		[] level 1 [X]	[X] Level 2		[]Level3 [[] Level 4	
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m	3		2.			F	For Lab Receiving Use Only: Custody Seal Intact? [] Yes	Receivin	ig Use	Onty:	Custod	Seal In	tact?	[] Yes [] No		Cooler Temp:	:du	J ₀ .	
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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 Inmid matrices indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.	= Field Duplicate, $\mathbf{E}\mathbf{B}$ = Equipment Blan for ves the sample was field filtered or -	k, MS = Matrii N - for sample v	k Spike Sar	nple, MSD d filtered.	= Matrix S	pike Duplicat	Sample, (G = Grab,	, C = Cor	nposite									
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6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid,	ic Acid, SH = Sodium Hydroxide, SA = S	ulfuric Acid, A	A = Ascor		(= Hexand	s, SI = Sodiur	n I hiosulf	ate, ir no	preservat	ive is ad	ned – rea	ne nein	Idilly			-		A. am addition	I dotaile halom
7.) KNOWN OR POSSIBLE HAZARDS RCRA Metals	Characteristic Hazards FL = Flammable/Ignitable CO = Corrosive	Listed LW= I (F,K,P	Listed Waste LW= Listed Waste (F,K,P and U-listed	Listed Waste LW= Listed Waste (F,K,P and U-listed wastes.)	es.)	00 €	Other OT= Other / Unknown (i.e.: High low pH, asbestos, benyllium, irritants, other	r / Unk	nown 7, asbes	_ stos, be	ryllium	irritan	its, oth	25		2 2 2	ease pro garding e.e.: Origin	rieuse provine any autitional actius verov- regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected	rease provue any avantona aeans berow regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected
As = Arsenic Hg= Mercury Ba = Barium Se= Selenium	RE = Reactive	Waste	Waste code(s):			" I	misc. health hazards, etc.) Description:	ih haza m:	ırds, etc							#	om, odd n	from, odd matrices, etc.)	
H H	TSCA Regulated PCB = Polychlorinated biphenyls					111					111			LII		1	Origni collect preserved	Originally Nitrate by N were originally collected in unpreserved bottles, Later served Nitrate/Nitrite bottles were sent	Originally Nitrate by N were originally collected in unpreserved bottles; Later preserved Nitrater Nitrite bottles were sent and
				I	ı							1			h		COILE	conected from Wells on 8/10/2023	10/10/2023

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1/3369434				100r	Oratories	S					2040	2040 Savage Road	paq		00/	721007	
GEL Quote #:		gel,co		nistry I Rad	iochemistry }	Chemistry Radiochemistry Radiobioassay Specialty Analytics	Specialty A	inalytics			Char	Charleston, SC 29407	29407			(-
COC Number (1): 2 Coolers		Chai	n of Cu	stody :	and Analy	Chain of Custody and Analytical Request	lest				Phon	Phone: (843) 556-8171	6-8171		VI-	7 06 7	-
	GEL Work Order Number:			GEL P	oject Man	GEL Project Manager: Erin Trent	rent				Fax:	Fax: (843) 766-1178	1178				
Client Name: Georgia Power		Phone # (937-344-6533)	7-344-65	33)			200	mple A	nalysis	Sample Analysis Requested	(E)	ll in the n	mber of	(Fill in the number of containers for each test)	for each to	est)	
4. Project/Site Name: Plant Arkwright Ash Pond 2 Nitrate/Nitrite COC O	Nitrate/Nitrite COC	Fax:			-S	Should this	S.						AS			< Preservative Type (6)	9
Actoress: 241 Ralph McGill Blvd SE, Atlanta, GA 30308	A 30308				88 C01	sample be considered:	rənistı										
Corrected By: John Myer, Dylan Quintal, Dylan Ripley, Houston Lynn	Send Results To: jabraham@southernco.com EDD@stantec.com edgar.smith@stantec.com	uthernco.com E	DD@stan.	tec.com		. (ı, ol con									Comments	F
Sample ID * For composites - indicate start and stop date/time	*Date Collected	*Time Collected (Military) (hhmm)	QC Code (3) Fi	Field S Filtered (3) M	Sample Matrix (3)	isotopic info.) (7) Known oi possible Haz	odmun lstoT						Nitrate/Nit			ASSMT-2023S1)	<u>.</u>
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A ARK-AP2-EB-01	08-10-23	1925	FB	Z	WQ		1						×		1		
ARK-ARAMW-8	08-10-23	1936	Z	Z	WG		1						×				
ARK-ARGWA-20	08-10-23	1953	Z	N	M.G.		1						×				
ARK-STNTW-22	08-10-23	1935	Z	Z	9W		1						×				
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3	Chain of Custody Signatures						TA	TAT Requested:	100	Normal:	Rush:		Specify:		(Subject to	(Subject to Surcharge)	
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0 0	2 CWW TH	SHUDOW C	8	123	480	Addition	Additional Remarks.	S:				ΙI					
	3.					For Lab	For Lab Receiving Use Only: Custody Seal Intact? [] Yes	Use On	y: Custo	dy Seal In	tact? []	Yes [] No		Cooler Temp:	00		
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1) Matrix Codes; DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, WW=Water, ML=Misc Liquid, SO=Soil, SD=Soil, SD=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=Nasal 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). 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).	SW=Surface Water, WW=Waste Wate I (i.e. 82608, 6010B/7470A) and numb Acid, SH = Sodium Hydroxide, SA = Si	r, W=Water, ML er of containers p ulfuric Acid, AA	=Misc Liqu rovided for = Ascorbic	iid, SO=Soi each (i.e. 8 Acid, HX =	D=Soil, SD=Sediment, SL=Sludge (i.e. 8260B - 3, 6010B/7470A - 1) HX = Hexane, ST = Sodium Thio	D=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urin (i.e. 8260B - 3, 6010B/7470A - 1). HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank	S=Solid Was	ite, 0=0il,	F=Filter, P	=Wipe, U=L	Jrine, F=Fe	al, N=Nasal					
() KNOWN OR POSSIBLE HAZARDS	Characteristic Hazards	Listed Waste	Vaste			Other								Please 1	provide an	Please provide any additional details below	4
RCRA Metals As = Arsenic Hg= Mercury Ba = Barium Se= Selenium	FL = Flammable/Ignitable CO = Corrosive RE = Reactive	LW= Listed W (F,K,P and U-I Waste code(s):	LW= Listed Waste (F,K,P and U-listec Waste code(s):	LW= Listed Waste (F,K,P and U-listed wastes.) Waste code(s):		OT= Other / (i.e.: High/lo misc. health Description:	OT=Other / Unknown fi.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.) Description:	own asbestos, ts, etc.)	, berylliu.	m, irritan.	s, other			regardii (i.e.: Or from, oc	regarding handling and (i.e.: Origin of sample(s) from, odd matrices, etc.)	regarding handing and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)	rns.
E E	TSCA Regulated PCB = Polychlorinated biphenyls													Ori col preserv	ignially Nit llected in ur	Originially Nitrate by N were originally collected in unpreserved bottles, Later preserved Nitrate/Nitrite bottles were sent and	pur
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Page: 2 of 2 Project # 175569434		日 日 日	to-ora	abol	ator	Laboratories	0					<u> </u>	GEL Laboratories, 2040 Savage Road	GEL Laboratories, LLC 2040 Savage Road	CC	U	20010	5	
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PQ-Number:	GEL Work Order Number:			GEL P	roject M	GEL Project Manager: Erin Trem	rin Trem					Fa	x: (843)	Fax: (843) 766-1178			J	/	
Client Name: Georgia Power		Phone # (937-344-6533)	7-344-6	333)				100	ple An	alysis	Sample Analysis Requested	<u>©</u>	Fill in t	he numb	er of con	(Fill in the number of containers for each test)	each test)		
프 전쟁ect/Site Name: Plant Arkwright Ash Pond 2 Nitrate/Nitrite COC	Nitrate/Nitrite COC	Fax:				Should this								AS			J	< Preservative Type (6)	(9
Adress: 241 Ralph McGill Blvd SE, Atlanta, C	3A 30308					sample be considered:													
Rected By: John Myer, Dylan Quintal, Dylan Send Papiley, Houston Lynn edgar	Send Results To: jabraham@southernco.com EDD@stantec.com edgar.smith@stantec.com	линетсо.сот Е	DD@sta	rtec.com	317	Viqq									(7.555			Comments	1
Sample ID * For composites - indicate start and stop date/time	*Date Collected	*Time Collected (Military) (hhmm)	QC Code (3)	Field Filtered (3)	Sample Matrix (4)	Radioactive yes, please sur isotopic info.)	possible Haza							Nitrate/Nit	Method		(tas)	(task_code: ARK-CCR- ASSMT-2023S1)	- K-
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ARK-AP2-EB-01	08-10-23	1925	FB	Z	WQ		1							×					
ARK-ARAMW-8	08-10-23	1936	Z	N	WG		1							×					
ARK-ARGWA-20	08-10-23	1953	z	Z	WG		1					1		×					
ARK-STNTW-22	08-10-23	1935	Z	Z	MG		1							×					
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Relinquished By (Signed) Print Name	Date Received by (signed)		Print Name		Date	Fax	Fax Results: [1 Yes	1 Yes	[X]No	o _N									
1 CHUNNIMU JOHN M	Amon DIII 2 mal m	- Ant	4nthony	PSOM	11/8	123 Sele	Select Deliverable: [] C of A [] QC Summary	able: []C of A	[] 0	C Summ		[] level 1	[X] Level 2	-	Level 3 []	Level 4		
2	2 ONLOTH	MUDDENC	7	8/11/23	3 7	Add.	Additional Remarks.	marks:		+									
3	3			-	至	D For	For Lab Receiving Use Only: Custody Seal Intact? [] Yes	iving U	se Only	: Custo	dy Seal.	ntact?] Yes	[] No	Cooler Temp:		200		
> For sample shipping and delivery details, see Sample Receipt & Review form (SRR.) 1.) Chain of Custody Number = Client Determined	: Sample Receipt & Review form	(SRR.)			Sa	Sample Collection Time Zone: [X] Eastern [] Pacific [] Central	tion Tim	e Zone	[X]E	astern	[] Pac	iffic [] Centra		ountain	[] Mountain [] Other:	//	e H	
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=Water, W=Water, ML=Misc Liquid, SO=Soil, SD=Sediment, SL=Sludge, SS=Soild Waste, O=Oil, F= 5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B77470A) and number of containers provided for each (i.e. 8260B - 3, 6010B77470A - 1).	Field Duplicate, EB = Equipment Blanl for yes the sample was field filtered or - I SW=Surface Water, WW=Waste Water ed (i.e. 8260B, 6010B/7470A) and numb	, MS = Matrix: N - for sample we , W=Water, ML	Spike Sami s not field =Misc Liq rovided fo	filtered. nid, SO=So r each (i.e. &	Matrix Spik II, SD= Sedii 260B - 3, 6	D = Matrix Spike Duplicate Sample, G = Grab, C = Composite Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=Nasal.e, 8260B - 3, 6010B74704 - 1).	mple, G = C ge, SS=Soli	orab, C=	Composii 0=0il, F	e =Filter, P	=Wipe, U=	Urine, F	Fecal, N=1	Vasal					
6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid,	c Acid, SH = Sodium Hydroxide, SA = Si	Ifuric Acid, AA	= Ascorbic		HX = Hexane, ST	= Sod	iosulfate, If	no prese	rvative is	l = pappa	save field	olank							
OR I	Characteristic Hazards FL = Flammable/Ignitable CO = Corrosive RE = Reactive	Listed Waste LW=Listed Waste (F,K,P and U-listed Waste code(s):	Vaste sted Was nd U-liss ode(s):	Listed Waste LW= Listed Waste (F,K,P and U-listed wastes.) Waste code(s):	7 ,	OT=C (i.e.: F. misc. h	Other OT= Other / Unknown (i.e.: High low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)	Jnknow ' pH, as azards,	n bestos, etc.)	berylliu	m, irrita	tts, othe				Please provide any addi regarding handling and (i.e.: Origin of sample(s) from, odd matrices, etc.)	de any ada mdling an of sample(, trrices, etc.	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.)	rms.
Ba = Barium Se= Selenium Cd = Cadmium Ag= Silver Cr = Chromium MR= Misc. RCRA metals Ph = 1 and	TSCA Regulated PCB = Polychlorinated			W.	П	Desc	Description:						1.1			Origniall	ly Nitrate l	Originally Nitrate by N were originally collected in unpreserved bottles; Later	
Today.	orphicity is					1		Н				П				collect	ed from w	preserved nutrate/nutrite bottles were sent and collected from wells on 8/10/2023	and

	GEL Laboratories LLC			1	SAMPLE RECEIPT & REVIEW FORM
CI	ient: G			SI	DG/AR/COC/Work Order: 633099, 633107, 633126, 633128
Re	ceived By: Anna Johnso	N			ate Received: 8/11/23
	Carrier and Tracking Number				FedEx Express FedEx Ground UPS Field Services Courier Other Cooler 1 -0.6°C Cooler 3 - 2.6°C Cooler 2 - 1.9°C C60 eV A - 1.6°C
Sus	pected Hazard Information	Yes	No	*11	f Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)S	hipped as a DOT Hazardous?		1	Ha	uzard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes No
	Did the client designate the samples are to be ived as radioactive?		1	· B C M	C notation of indirective suckers on containers equal client designation.
	Oid the RSO classify the samples as oactive?		1		aximum Net Counts Observed* (Observed Counts - Area Background Counts):CPM / mR/Hr Classified as: Rad 1 Rad 2 Rad 3
	Did the client designate samples are hazardous?		/	79945	C notation of hazard labels on containers equal client designation. D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:
E) I	Did the RSO identify possible hazards?	1 50	-	10	Actor Assessed Belymun Oner.
1	Sample Receipt Criteria Shipping containers received intact and sealed?	Yes	NA	No.	Comments/Qualifiers (Required for Non-Conforming Items) 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?	V			Temperature Device Serial #: IR2-21 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?	1			Sample ID's and Containers Affected: If Preservation added, Lott:
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:
	Sample ID's on COC match ID's on bottles?	1			ID's and containers affected:
	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)
13	Are sample containers identifiable as GEL provided by use of GEL labels? COC form is properly signed in relinquished/received sections?	/			Circle Applicable: Not relinquished Other (describe)
omi	Cooler $5-3$				cooler 7-2.5°C cooler 8-3.4°C
	000101 (1-15)	. U			cooler 10-0.9°C
				-	
	PM (or PMA	A) rev	iew:	Initia	als_ 8 15 23 Page 1 of 1

Image - 1			1							-			-		-		-				
Toject #	ooler of 3	gel.oc Cha	in of C	emistry I i	Radlochem y and A	TIES Istry I Radio Analytic	al Rec	I Spec	lafty An	nalytics					2040 Char Phon	Laboratori Savage Rolleston, SC: e: (843) 55 (843) 766-	oad 29407 56-817				
Client Name: Georgia Power		Phone # (9	37-344-4		rojecii	Turinger	. 2		Sami	nle A	nalvs	is Re	quest			in the num		f con	tainer	s for e	each test)
Project/Site Name: Plant Arkwright Ash Pond 2		Fax:				Shoule	d this		ž	Z			-	Z	Z	Z		Z	Z		< Preservative Type (6)
Address: 241 Ralph McGill Blvd SE, Atlanta, GA 3030 Collected By: John Myer; Dylan Quintal, Sens	8 I Results To: jabraham@sou	thernco.com	FDD@st	antec com		consid		ontainer	020B)	S020B)	0.00	thod	(a) (a) (a) (b) (b) (b) (b) (b) (b) (b) (b) (b) (b	2	Cmbd	(EPA 0B)	EPA	70B)	Al, K, Mg,		Comments
Collected By: John Myer; Dylan Quintal, Send Edga Houston Lynn Sample ID *For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	"Time Collected (Military) (hhmm)	QC Code (2)	Field	Sample	Radioactive (if yes, please supply isotopic info.)	(7) Known or possible Hazards	Total number of c	Ag (App. I) (6020B)	Metals App. III (6020B)	Alkalinity (300.0 R2.1)	TDS (SM Method	Anions (Cl, Fl, Sulfate) (300.0 Rev. 2.1 1993	Metals App (6020B)	RAD 226-228	Fe2+/Mn2+(EPA Method 6020B) (Field Filtered)	Nitrate as N (EPA Method 353.2)	Mercury (7470B)	Metals Al, K, Mg,		(task_code: ARK-CCR ASSMT-2023Sk) A.S. 8/15/23
ARK-ARGWA-19	08-08-23	1015	N	Y	WG			9	x	х	x	x	х	х	x	x	X	X	x		
ARK-AP2-FD-01	08-08-23	NA	FD	N	WQ		1	7		x		x	x	x	x		x	x			
ARK-ARGWC-22	08-08-23	0955	N	Y	WG			9	х	x	х	x	x	х	x	x	х	х	x		
ARK-ARAMW-7	08-08-23	1150	N	Y	WG		事。	9	x	x	x	x	x	х	x	x	x	x	x		
ARK-AP2-FB-01	08-08-23	1230	FB	N	WQ			7		x		Х	x	x	x		x	х			
ARK-ARAMW-9	08-08-23	1235	N	Y	WG		10 2	9	x	x	x	x	x	x	x	x	х	x	x		
ARK-ARAMW-2	08-08-23	1505	N .	Y	WG			9	x	x	x	x	x	x	x	x	x	x	x		
ARK-ARAMW-1	08-08-23	1600	N	Y	WG			9	x	x	x	x	x	X	x	x	x	x	x		
ARK-ARGWC-23	08-08-23	1655	N	Y	WG			9	х	х	х	х	x	х	x	х	х	x	x		
Chain	of Custody Signature	<u> </u>	_	1	-				TAT	Reque	ested:	Nor	mal:		Rush	:Sp	ecify:			(Su	bject to Surcharge)
Relinquished By (Signed) Print Name Dat	e Received by (si	gned)	Print Nar	ne	Date		Fax Re	sults:	[]Y	es [XIN	ю									
1 Zachary by Eachary Levy 8/9	172 2	Mar	8	1/4/2	3	827	Select I				of A	[]0	C Sun	nmary	L	level 1 [X	[] Lev	el 2	[][evel 3	[] Level 4
3	3						_			_	Only:	Custo	dv Se	al Inta	ct? [] Yes []	No	Cool	or To	mn.	°C
> For sample shipping and delivery details, see Samp	le Receipt & Review for	n (SRR.)				Sample	Collection	on Tir	ne Zor	ne: []	X]E	stern	[]	Pacific	2 [] Central	[]N	founts	er 1er	1 Ott	her:
1.) Chain of Custody Number = Client Determined 2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field De 3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the 4.) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Su 5.) Sample Analysis Requested: Analytical method requested (i.e. 82)	splicate, EB = Equipment Blank sample was field filtered or - N rface Water, WW=Waste Wate 50B, 6010B/7470A) and numbe	MS = Matrix - for sample w W=Water, M of containers	vas not field IL=Mise L provided f	d filtered. .iquid, SO= or each (i.e	Soil, SD=S	ediment, SL	=Sludge, S	S=Soli	d Waste	, 0= 0il	L F=Fih				F=Feca	i, N=Nasal					
7.) KNOWN OR POSSIBLE HAZARDS Characteristics	FL = Flammable/Ignitable CO = Corrosive RE = Reactive FL = Flammable/Ignitable (F, K, P and U-listed wastes. Waste code(s): TSCA Regulated PCB = Polychlorinated					J	Other OT= C (i.e.: H misc. h Descri	other / ligh/lo nealth	Unknow pH,	own asbe:	stos, b				, othe	r			con	w regi	ovide any additional details arding handling and/or disposa (i.e.: Origin of sample(s), type alected from, odd matrices, etc.)
Pb = Lead	biphenyls								-												

Tage.	Cooler 2 of GEL Work Order Number	- 0110	om 1 Ch	remistry i i Custod	Radiochen y and	Ories Istry I Radi Analytic Manager	obloassay cal Rec	ues	t	nalytics	9				2040 Char Phor	DEL Laboratories, LLC 2040 Savage Road Charleston, SC 29407 Phone: (843) 556-8171 Fax: (843) 766-1178 Fill in the number of containers for each test)								
Client Name: Georgia Power	GEE WORK Graef Islamber	Phone # (9	37-344-		Project	Manager	: Enn	reni	_	ple A	nalys	sis Re	quest	ted (5)				f con	tainer	s for e	ach test)			
Poject/Site Name: Plant Arkwright Ash Pond 2		Fax:				Shoul	d this		Z	Z				Z	Z	Z		ī	Z		<- Preservative Type (6)			
Address: 241 Ralph McGill Blvd SE, Atlanta, GA	30308					samp consid		Piner) B	e e	0	D.	<u> </u>		2	4 0	4	1	<u>a</u> 6					
Collected By: John Myer; Dylan Quintal,	Send Results To: jabraham@sou edgar.smith@stantec.com	therneo.com	EDD@st	antec,com		(If		er of cont	1) (602(. III (602)	ity (300	(SM Metho	I, FI, Sulfi	lals App. IV	-228 Cm	fn2+ (EP d 6020B) Filtered	as N (EP.	Mercury (7470B)	41, K, N		Comments (task_code: ARK-CCR-			
Sample ID For composites - indicate start and stop date/	*Date Collected	*Time Collected (Military) (hhmm)	QC Code (7)	Field Filtered	Sample Matrix	Radioactive yes, please sup (sotopic info.)	(7) Known or possible Hazards	Total number	Ag (App. I) (6020B)	Metals App. III (6020B)	Alkalinity (300.0	TDS (SM Method	Anions (Cl, Fl, Sulfate) (300.0 Rev. 2.1 1993	Metals (60	RAD 226-228 Cmbd	Fe2+/Mn2+(EPA Method 6020B) (Field Filtered)	Nitrate as N (EPA Method 353.2)	Метсиг	Metals Al, K, Mg,	1 57 501	ASSMT-2023SX)2 A-S-8/15/23			
O ARK-ARGWA-19	08-08-23	1015	N	Y	WG			9	х	х	х	х	x	х	x	х	х	х	х					
ARK-AP2-FD-01	08-08-23	NA	FD	N	WQ		大城	7		х		x	x	x	x		х	х						
ARK-ARGWC-22	08-08-23	0955	N	Y	WG			9	х	х	х	х	X	x	x	х	x	x	x					
ARK-ARAMW-7	08-08-23	1150	N	Y	WG			9	х	x	х	x	x	х	x	Х	x	X	х					
ARK-AP2-FB-01	08-08-23	1230	FB	N	WQ			7		х		x	x	х	x		х	x						
ARK-ARAMW-9	08-08-23	1235	N	Y	WG			9	x	x	x	x	x	x	х	Х	х	x	х					
ARK-ARAMW-2	08-08-23	1505	N	Y	WG			9	х	x	X	x	x	X	x	x	х	x	х					
ARK-ARAMW-1	08-08-23	1600	N	Y	WG			9	x	Х	Х	х	х	x	x	X	Х	x	x					
ARK-ARGWC-23	08-08-23	1655	N	Y	WG		EN TO	9	х	x	х	х	х	X	х	х	х	х	X					
Ch	ain of Custody Signatures		1	1	-			-	TAT I	Reque	sted:	Nor	mal:		Rush	:Sp	ecify:			(Sub	ject to Surcharge)			
Relinquished By (Signed) Print Name	Date Received by (sig	gned) I	Print Nan		Date		Fax Res	ults:	[]Ye	es [X]N	o												
17 schory bory Each Lary 8/	9/23			8/9/8	38	28	Select I		-	-	of A		C Sun	nmary	[]]	evel 1 [X	[] Leve	el 2	[][evel 3	[]Level 4			
3	3								_	_	_	_] Yes []	_				°℃			
> For sample shipping and delivery details, see S	ample Receipt & Review form	(SRR.)				Sample (Collectio	n Tim	e Zon	e: []	X] Ea	stem	[]]	Pacific	[]	Central	[]M	lounta	in	Oth	er;			
 Chain of Custody Number = Client Determined QC Codes: N = Normal Sample, TB = Trip Blank, FD = Fie Field Filtered: For liquid matrices, indicate with a - Y - for y Matrix Codes: DW=Drinking Water, GW=Groundwater, SV Sample Analysis Requested: Analytical method requested (i.e.) 	es the sample was field filtered or - N V=Surface Water, WW=Waste Water, e. 8260B, 6010B/7470A) and number	for sample wa W=Water, M of containers p	is not field L=Misc L rovided fo	filtered iquid, SO=: or each (i.e.	Soil, SD=So 8260B - 3,	6010B/7470	=Sludge, SS 0A - 1).	⊱Solid	Waste,	0=0il,	, F=Filte				?≃Fecal,	N=Nasal								
7.) KNOWN OR POSSIBLE HAZARDS RCRA Metals As = Arsenic Hg= Mercury Ba = Barium Se= Selenium	FL = Flammable/Ignitable CO = Corrosive RE = Reactive Waste code(s): TSCA Regulated LW= Listed Waste (F, K, P and U-listed wastes.) Waste code(s):							her / gh/lo	Unkno w pH,	own	itos, b			olank ritants,	other				belo cond	w regar erns. (ide any additional details rding handling and/or disposal (i.e.: Origin of sample(s), type cted from, odd matrices, etc.)			
	PCB = Polychlorinated biphenyls						_																	

Project #175569434 GEL Quote #:		Charleston, SC 29407												*							
COC Number (1): 3 Coolers	Cooler 3 of 3	gel.s								Malytk	×				4						
PO Number:	GEL Work Order Number	Olic	ain or u			Analyti Manage				-	_	_	_	_	-	ne: (843) 55 (843) 766-		/1			
Client Name: Georgia Power	1022 Work Order Mandel	Phone # (9	37-344-		TOJECE	Manage	. LIII	17611		ple A	naly	sis Re	quest	ted (5)		in the num		of con	taine	s for	each test)
Project/Site Name: Plant Arkwright Ash Pond 2		Fax:				Shou	ld this		Z	Z		T		Ę	Z	Z		ž	Z		< Preservative Type (6)
Address: 241 Ralph McGill Blvd SE, Atlanta, GA	30308						ole be lered:	tai oc.	(B)	9	0	, g	9 5		2	4 . 5	4	12	ا فو	3	
Collected By: John Myer; Dylan Quintal, Houston Lynn	Send Results To: jabraham@sou edgar.smith@stantec.com	thernco.com	EDD@st	antec.com		aply GE	Ę.	902 50	1) (6020	App. III (6020B)	ty (300.	1 Metho	FI, Sulfa	App. IV	-228 Cm	e2+ / Mn2+ (EP/ Method 6020B) (Field Filtered)	4 353.2)	Mercury (7470B)	Al, K, Mg,		Comments (task_code: ARK-CCR-
Sample ID * For composites - Indicate start and stop date	*Date Collected 'time (mm-dd-yy)	Time Collected (Military) (hheam)	QC Code (7)	Field Filtered [©]	Sample Matrix (6)	Radioactive yes, please sup isotopic info.)	(7) Known or possible Haz	Total number	Ag (App. I) (6020B)	Metals App.	Alkalinity (300.0	TDS (SM Method	Anions (Cl. Fl, Sulfate) (300.0 Rev. 2.1 1993	Metals App. IV	RAD 226-228 Cmbd	Fe2+/Mu2+(EPA Method 6020B) (Field Filtered)	Nitrate as N (EPA Method 353,2)	Mercun	Metals /		ASSMT-2023S1) ₂ A.S. 8/15/23
ARK-ARGWA-19	08-08-23	1015	N	Y	wg			9	х	х	х	x	x	x	x	x	x	x	x		
ARK-AP2-FD-01	08-08-23											x									
ARK-ARGWC-22	08-08-23								x	x	x	х	x	х	х	x	x	х	x		
ARK-ARAMW-7	08-08-23	1150	N	Y	WG		j:~	9	х	x	х	x	x	х	x	x	x	x_	x		
ARK-AP2-FB-01	08-08-23	1230	FB	N	wQ			7		x		x	x	x	x		x	x			
ARK-ARAMW-9	08-08-23	1235	N	Y	WG			9	x	x	x	x	x	x	x	x	x	х	х		
ARK-ARAMW-2	08-08-23	1505	N	Y	WG			9	x	x	x	x	x	x	х	x	х	x	х		
ARK-ARAMW-1	08-08-23	1600	N	Y	WG			9	x	х	x	x	х	x	x	x	x	x	x		
ARK-ARGWC-23	08-08-23	1655	N	Y	WG			9	x	х	x	X	х	x	х	x	x	x	x		
	ain of Custody Signatures							7	FAT R	leque	sted:	Non	mal:_		Rusb:	Spe	cify:			(Sab	ject to Surcharge)
Relinquished By (Signed) Print Name	Date Received by (sign	ned) P	riot Nam	D	ate	1.00	Fax Res	ults:	[] Ye	s []	X]No	0									
1 Zochen Lay Foch Lavy 8	19/23	1		8/9/	23	1:20	Select D	eliver	able: [100	fA !	[]00	Sum	mary	[] le	vel 1 [X]	Leve	12 [] Le	/el 3	[] Level 4
2	2						Addition		_		_	_		_	-				_		
3	3	40.D. \														Yes [] A					<u>°C</u>
> For sample shipping and delivery details, see Sa 1.) Chain of Custody Number = Client Determined	mple Receipt & Review form	(SRR.)	_	_		Sample C	oueciioi	1 1470	e Zone	:. [A) Las	itern	[] P	acinc	[]	Central [] M	ountal	n [JOUNG	it:
2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field i.) Field Filtered: For Equid matrices, indicate with a - Y - for yes ii.) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW .) Sample Analysis Requested: Analytical method requested (i.e. i) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid,	s the sample was field filtered or - N - i =Surface Water, WW=Waste Water, V 8260B, 6010B/7470A) and number of	or sample was V=Water, ML	not field a	iltered. uid, SO=So each (i.e. 82	il, SD=Sec 260B - 3, €	liment, SL=5	iludge, SS	=Solid '	Waste, C	D≔Oil, 1	F=Filter				=Fecal, I	V=Nasai					
KNOWN OR POSSIBLE HAZARDS	Characteristic Hazards	Listed \	Vaste				Other														ide any additional detalls
CRA Metals Grade s = Arsenic Hg= Mercury a = Barium Se= Selenium d = Cadmium Ag= Silver	FL = Flammable/Ignitable CO = Corrosive RE = Reactive SCA Regulated	ive (F,K,P and U-listed wastes.) e Waste code(s):						h/low	Inknov pH, a azards,	sbesto		rylliun	ı, irrite	ants, a	other			- 1	conce	rns. (i	ding handling and/or disposal e.e.: Origin of sample(s), type sted from, odd matrices, etc.)
r = Chromium MR= Misc. RCRA metals F o ≐ Lead	CB = Polychlorinated biphenyls					-					4				=						

ole =:		G	EL	110	har	oto.										-	Laborator		C		500	10-	THE REAL PROPERTY.
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mber 2 Coolers	Cooler 1		Chain	of Cu	stodu:	iochemis and A	nalytica	I Dog	Speci	alty Are	tytica				- 1		eston, SC				r	Of	2
Name: Georgia Power	GEL Work Ord	er Number:		0.00	GEL P	roiea l	lanager	Frin	Trent	-	-						e: (843) 55		1		1	VT	2
		F	Phone = (937	-344-65	33)	T			7,04	_	anle :	Analy	rie D	*****		_	843) 766- in the nu	_	~6~	wien.	es for es	ch tect)	THE RESERVE TO SERVE THE PARTY.
USite Name, Plant Arkwright Ash Pond 2			Fax							34.	pie /	Tues,	אמב	tque:	icu	(FIII	шшеш	T	01 40	T	T	ur tost)	100
			7200			- 1	Shoold	this		ž	ž	ž			Z	Z	Ī		Z	Z		<-Pre>←Pres	ervative Type (6)
ess: 241 Ralph McGill Blvd SE, Atlanta, G	A 30308						sampl	le be	Pe 1	<u>~</u>	2			_		_	7				-		
cted By: John Myer, Dylan Quintal, Dylan y, Houston Lynn	Send Results To edgar smith@star	pprayan Geom	berneo.com E	DD@star	ntec.com		consid	ered:	of conta	1) (602013)	III (6020L	(3000)	Method C)	7, Sulfate 2 1 1993	71 dd (817	28 Cmb	2+ (EPA 09) (Fiel ed)		747013)	K. Mg.			omments
Sample ID • For composites - indicate start and stop	1	Date Collected	"Time Collected (Military) (Mann)	QC Code as	Field Filtered ^{OX}	Sample Marra	Radioactive yes, plosse suj syciopic info.)	(7) Known or possible Hara	Total number of containers	Ag(App I	Metals App 111 (6020U)	Alkalıniry (300.0 R2.1)	TIDS (SM 2540	Antons (Cl. Fl, Sulfate) (300 0 Ray 2 1 1993	Metals App. (6020H)	KAD 226-228 Cmbd	Fo2+ / Mn2+ (FPA Method 6020B) (Flebd Filtered)		Mercury (747013)	Metals Al. K. Mg.		ASSM	ME: ARK-CCR- MT-202351) 8/15/23
ARK-ARGWC-21		08-09-23	1035	N	Y	WG				Х	x	x	х	х	x	x	x		х	x			te/Nitrite COC
ARK-AP2-EB-01		08-09-23	1110	FB	N	wQ				7	x		x	x		x			x		10 19	for their ti	
ARK-ARAMW-8		08-09-23	1115	N	Y	WG				9 X	x	x	x	x		x	x		x	x			
ARK-ARGWA-20		08-10-23	0925	N	Y	WG		100		0 x	x	x	x	x		x	Y		x	x			
ARK-STNTW-22		08-10-23	1255	N	Y	WG	İ			6 X	x	x	1	x	Y		^	\vdash	Y	Y		Add anion col	llected at 0825 8/11/23
										1	1	+		1			-		1	1			
					1	1				+	+	1	1							+			
AND THE PROPERTY.			1	1		+	+			+	+	+	+	+	\vdash			\vdash		+			
			1	+		+	1	+		+	+	+	+	+	+			\vdash	1	+		1	
				+	+	+	+			+	+	+	+	+				+	\vdash	+			
	Chain of Cus	tody Signatu	Ires				_		_	T	AT R	equest	ted:	Norm	al;	R	sh:	Speci	fv:	_	(Subi	ect to Sarchi	arge)
Relinquished By (Signed) Print Nam		Received b		Print !	ame	Date		Eav	Result	_		_		CO., E.T.									
1 Kindlow Fornik	1ex 8/11/23	idnel	er Ar	Thur	Lucir	a 3	111/2							DC Sur	חמת	1.11	evel 1 D	() Leve	12 [lle	el 3 1	evel 4	
2 0		2	-	•	,			-	anona:														
3		3						For	Lab A	eceivis	ng Use	e Only	: Cus	ody Se	al Inta	ct? [Yes [No	Coole	r Ton	p;	C	
> For sample shipping and delivery deta	ils, see Sample Rece	dpi & Review	form (SRR.)				Samp	Le Colle	rion i	Tone Z	one:	[X]E	astern		Pacific	: []	Central	[]M	ountai	in [Other:		
1) Chain of Custody Number = Client Determines 2) QC Codes N=Normal Sample, TB = Trip B 3) Field Filtered For liquid maintees, indicate w 4) Matrix Codes DW=Drinking Water, GW=Gr 5.) Sample Analysis Requested Analytical meth	ank, FD * Field Duplicate th a - Y - for yes the samp oundwater, SW=Surface 1 od requested (i.e. 8260B.	ple was field filter Water, WW=Wast 6010B/7470A) an	ed or - N - for sac te Water, W#Wa d number of con	nple was n ner, ML+); cuicess pro	on field filie fine Liquid, vided for ea	50=501, ch (i e 82	SD-Sedimon 608 - 3, 607	08 7 17 O	uoge, SS I - 1)	-Solid N	Nasz, (D-O-L F	F=Filter				Focal, N=Nas	al					
6.) Preservance Type HA = Hydrochlone Acid. NI = Nitric Acid. SH = Sodium Hydroxide, SA = Sulfunc Acid. AA = Ascorbic Acid. ED 7.) KNOWN OR POSSIBLE HAZARDS [Characteristic Hazards] [Listed Waste] [LW= Listed Waste]							House ST	0	tber T= Oth	o / Ud	know	n .					9.7			rq	garding k	andling and/o	onal details below or disposal concern
5.) Sample Analysis Requested Analytical method requested (10 Scotts). South Provide, SA = Sulfance Acid. AA = Ascorbic Acid. 6.) Preservance Type HA = Hydrochloric Acid. NI = Nitric Acid. SH = Sodium Hydrocide, SA = Sulfance Acid. AA = Ascorbic Acid. 7.) KNOWN OR POSSIBLE HAZARDS [Characteristic Hazards] FL = Flammable/Ignitable. CO = Corrosive RE = Reactive [F.K.P and U-listed w. Waste code(s): Ba = Barium Cd = Cadmium Cd = Cadmium Cd = Cadmium Cr = Chromium MR = Misc. RCRA metals PCB = Polychlorinated biphenyls								m.	e.: Hig isc. hea coup	dih ha			, beryl	lium, i	miant	s, othe	r					of sample(s), atrices, etc.)	type of site collected
Cd = Cadmium Ag= Silver Cr = Chromium MR= Misc. RCRA		TSCA Regulated PCB - Polychlormated bipheoyls											2	collection and l	d in works	N were originally wed bottles; Later bottles were sent an							
Pb = Lead									-		-			-	-			-			colle	and from wel	ls on \$/10/2023

Page: 2 of 2 Project # 175569434 GEL Quote #: 2 Coolers	GEL Laboratories LLC Chemistry Radiochemistry Radiobiosssey Specialty Analytica Charleston, So Chain of Custody and Analytical Request GEL Work Order Number: GEL Project Manager: Erin Trent Phone # (937-344-6533) Sample Analysis Requested (5) (Fill in their											Road 29407 56-817			4	00 ler 0 F 2				
PO Number:	GEL Work Order Number	er:		GEL	Projec	Manage	r: Erin	Trent						Fax: (8	43) 766-	1178	of conte	iners	for eac	th test)
Client Name: Georgia Power		Phone # (9	37-344-	5533)					San	ple An	alys	is Requ	ested	(Fill	in the n	umber	OI COUL	Jucas	ior car	
Project/Site Name: Plant Arkwright Ash Pond 2 f	Sitrate/Nitrite COC	Fax					ld this					-				SA		4		<- Preservative Type (6)
Address: 241 Ralph McGill Blvd SE, Atlanta, GA	30308						le be	containers								VA:				4
Collected By: John Myer, Dylan Quintal, Dylan Ripley, Houston Lynn	Send Results To: jabraham@so edgar.smith@stantec.com	utherneo.com	EDD@#	antec.com	,	E Apple	P	5								Nitrate/Nitrite (EPA Method 353.2)			1	Comments (task_code: ARK-CCR-
Sample ID • For composites - tradicate start and stop da	*Date Collected te/time (mm-66-yy)	"Time Collected (Military) (hhmm)	QC Code ⁽³⁾	Field Filtered [©]	Sample Matrix (*		(7) Known or possible stass	Total sumber								Nibrato		1		ASSMT-2023Sk) A.S. 8/15/23
ARK-ARGWC-21	08-10-23	1947	N	N	WG			1								х		1		
ARK-AP2-EB-01	08-10-23	1925	FB	N	WQ		D. C	1					1/		116	x	-			
ARK-ARAMW-8	08-10-23	1936	N	N	WG		-	1								x				
ARK-ARGWA-20	08-10-23	1953	N	N	WG			1								x				
ARK-STNTW-22	08-10-23	1935	N	N	WG			1								x				
1,000,011,111,122	00.10.20	1											9 (2)		5300		-			
							11-													
									7		1		W		100					
		1							1	1	1							1		
		1					500					0	110					19		
	Chain of Custody Signature	4	-	_	1	_			TAT	Reques	ted:	Norm	al:	Rush:		Specify	,		(Subjec	et to Surcharge)
Relinquished By (Signed) Print Name	Date Received by (s		Print Nan	ac	Date		Cay Day	rube f	_	[X]	_									
1 Somman John Myer	- 8/11/23 John 4	un Av	Hany	Ward	8/1	1/23						OC Sun	mary	[]]eve	11 00	Level 2	() []	vel 3	[]Le	vel 4
2	2	7.10	1				Additio			100	11	QC U.		[]	(2.1)				1120	
3	3									se Only.	Си	nody Sei	al Intac	2 [] Ye	3 []/	Vo Co	oler Ten	np:	~°C	
> For sample shipping and delivery details, see	Sample Receipt & Review form	(SRR.)		1000		Sample	Collectio	n Time	Zone:	[X]E	aster	n []]	Pacific	[]Ca	ntral [1 Mou	ntaio []00	her:	
1) Chain of Custody Number - Client Determined															-	8-1-				
2) QC Codes N = Normal Sample, TB = Trip Blank, FD =	Field Duplicate, EB = Equipment Bla	nk, MS = Maan	x Spike Su	mple, MSI	D = Mazna	Spike Dupli	tate Sampl	ic, G = G	nab, C =	Сопром	e									
3.) Field Filtered For liquid matrices, indicate with a - Y -	for yes the sample was field filtered or	N - for sample	was not be	ld filtered																,
4.) Matrix Codes: DW=Drinking Water, GW=Groundwater	SW=Surface Water, WW=Waste Wat	er, W=Wster, M	IL=Misc L	iquid, SO-	Soil, SD-	Sediment, SI	-Sinder.	SS~Solid	Waste,	0-0d, F	File	P=Wipe,	U=Unne	F=Fecal,	N=Nasal					
5.) Sample Analysis Requerted: Analytical method requests	d (i e 8260B, 6010B/7470A) and num	ber of container	s provided	for mech (i	e. 8260B	3,601087	(704 - 1)													
6.) Preservative Type HA = Hydrochlone Acid, NI = Nitric				bic Acid, E	IX = Hexa	ne, ST = Soc		olfste, lf	no prose	rvative is a	dded	= losve fie	sid blank							
7.) KNOWN OR POSSIBLE HAZARDS	Characteristic Hazards FL = Flammable/Ignitable		Waste Listed W	este			Other OT= O	ther / [nknou				-							any additional details below
RCRA Metals	CO = Corrosive	(F,K,P	and U-l	isted was	stes.)		(Le.: H				beryl	lum, irr	uaris, c	ther			G.	gardi e · O	ing hand	dling and/or disposal concerns. sample(s), type of site collected t
As = Arsenic Hg= Mercury Ba = Barium Se= Selenium	RE = Reactive	Waste	code(s):				misc. he Descrip	ealth h												ices, etc.)
Cd = Cadmium Ag = Silver Cr = Chromium MR = Misc. RCRA metals	TSCA Regulated PCB = Polychlorinated						—	nuon;						_				Ot	rignially	Nitrate by N were originally
Pb = Lead	biphenyls													_				CO	ollected i	in unpreserved bottles; Later
and the second					9															rate/Nitrite bottles were sent and

Page Pro GE CX PC ICI Pro I A ICI E

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	C	bain of Cust	ody Signatures			TAT Requested: Normal: Rush: Specify: (Subject to Surcharge)
Relinquished By (Signed)	Print Name	Date	Received by (signed) Pr	rate Name	Date	Fax Results Yes X No
KIMMINSI	Forthler	8/11/23	Idneller Arts	ing here		Select Deliverable 1C of A 10C Summan Nevel DELevel 2 1 Level 3 1 Level 4
0	1 1 1 1 1 1		2	,		Additional Remures
			3			For Lab Receiving Use Only: Clustody Seal Inace? Yes No Cooler Tomp: °C
For sample shipping an	d delivery details, see	Sample Recei	pi & Review form (SRR.)		Sample	Collection Tone Zone [X] Eastern [] Pacific [] Central [] Mountain [] Other

1) Chain of Custody Number = Client Determined

Pb = Lead

- 21 QC Codes N + Normal Sample, TB + Trip Black, FD + Field Duplicate, EB + Equipment Black, MS + Macra Spike Sample, MSD + Macra Spike Duplicate Sample, G + Geat, C + Composite
- 3) Field Filtered. For liquid magness, indicate with a + Y for yes the surple was field filtered or N for sample was not field filtered.
- 4] Mainx Codes: DW=Dnoking Water, GW=Groundwater, SW=Surface Water, WW=Water Water, Water, W-Water, MC-Mise Liquid, SO-Soid, 3D-Sectional, SL-Sturge, SS-Soid Winze, D=Oil, F=Eiter, P=Wipe, U=Urine, F=Feed, N=Nead
- 5) Sample Analysis Requested. Analytical method requested (i.e. \$750B, 6010B/1470A) and number of conquery provided for each (i.e. \$260B 3, 6010B 7470A 1)

bipheoyls

KNOWN OR	POSSIBLE HAZARDS	Characteristic Hazards	Listed Waste	Other	
		FL = Flammable/Ignitable	LW= Listed Waste	OT- Other / Unknown	and the same and an
RCRA Metals		CO = Corrosive RE = Reactive	(F,K,P and U-listed wastes.) Waste code(s):	(i.e.: High low pH, asbestos, b misc, health hazards, etc.)	eryanum, irrawas, oaner
As = Arsenic	Hg= Mercury	RE = REactive	waste code(s).	Description:	
Ba = Banum	Se= Selenium	(======================================			
Cd = Cadmium	Ag Silver MR = Misc. RCRA metals	PCB = Polychlorusaed			

regarding handling and/or disposal concerns (i.e.: Origin of sample(s), type of site collected from odd marnes, etc.) Originally Nitrate by N were originally

Please provide any additional details below

collected in unpreserved bottles; Later preserved Nitrate Nimite bottles were sent and collected from wells on \$10/2023

8/15/23

List of current GEL Certifications as of 06 September 2023

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
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	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122023-4
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2022-160
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	T104704235-22-20
Utah NELAP	SC000122022-37
Vermont	VT87156
Virginia NELAP	460202
Washington	C780



September 08, 2023

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

Re: Arkwright CCR Groundwater Compliance AP2-R

Work Orders: 632702 and 633128

Dear Joju Abraham:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on August 09, 2023 and August 11, 2023. 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	<u>Matrix</u>	Date Collected	Date Recieved
632702001	ARK-ARGWA-19	Ground Water	08/08/23 10:15	09/08/23 12:45
632702002	ARK-AP2-FD-01	Water	08/08/23 12:00	09/08/23 12:45
632702003	ARK-ARGWC-22	Ground Water	08/08/23 09:55	09/08/23 12:45
632702004	ARK-ARAMW-7	Ground Water	08/08/23 11:50	09/08/23 12:45
632702005	ARK-AP2-FB-01	Water	08/08/23 12:30	09/08/23 12:45
632702006	ARK-ARAMW-9	Ground Water	08/08/23 12:35	09/08/23 12:45
632702007	ARK-ARAMW-2	Ground Water	08/08/23 15:05	09/08/23 12:45
632702008	ARK-ARAMW-1	Ground Water	08/08/23 16:00	09/08/23 12:45
632702009	ARK-ARGWC-23	Ground Water	08/08/23 16:55	09/08/23 12:45
633128001	ARK-ARGWC-21	Ground Water	09/08/23 10:35	11/08/23 14:00
633128002	ARK-AP2-EB-01	Water	09/08/23 11:10	11/08/23 14:00
633128003	ARK-ARAMW-8	Ground Water	09/08/23 11:15	11/08/23 14:00
633128004	ARK-ARGWA-20	Ground Water	10/08/23 09:25	11/08/23 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	06-SEP-2023
Calculation	08-SEP-2023
EPA 903.1 Modified	05-SEP-2023
EPA 903.1 Modified	08-SEP-2023
EPA 904.0/SW846 9320 Modified	23-AUG-2023
EPA 904.0/SW846 9320 Modified	29-AUG-2023

Page 2 of 40 SDG: 632702

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. 4504.

Erin S. Leent

Erin Trent

Project Manager

Purchase Order: GPC82177-0005

Enclosures

Page 3 of 40 SDG: 632702

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

Certificate of Analysis Report for

GPCC001 Georgia Power Company Client SDG: 632702 GEL Work Order: 632702

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, Erin Trent.

Reviewed by Erin & Trent

Page 4 of 40 SDG: 632702

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

Certificate of Analysis Report for

GPCC001 Georgia Power Company Client SDG: 633128 GEL Work Order: 633128

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, Erin Trent.

Reviewed by Erin S. Tuent

Page 5 of 40 SDG: 632702

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 8, 2023

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceAP2-R

GPCC00100 GPCC001 Client Sample ID: ARK-ARGWA-19 Project: Client ID:

Sample ID: Matrix: 632702001 WG

Collect Date: 08-AUG-23 Receive Date: 09-AUG-23 Collector: Client

Parameter	Qualifier	Result U	ncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proporti GFPC Ra228, Liquid		_												
Radium-228	U	0.700	+/-0.734	1.21	+/-0.755	3.00	pCi/L			JE1	08/29/23	1024	2474962	1
Radium-226+Radium	-228 Calculat	tion "See Pa	rent Product	s"										
Radium-226+228 Sum		1.80	+/-0.894	1.21	+/-0.931		pCi/L			NXL1	09/08/23	1226	2475371	. 2
Rad Radium-226 Lucas Cell, Ra226, Li	quid "As Rece	eived"												
Radium-226		1.10	+/-0.511	0.609	+/-0.543	1.00	pCi/L			LXP1	09/08/23	1035	2474958	3

The following Analytical Methods were performed Description

1 EPA 904.0/SW846 9320 Modified Calculation

EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2474962	80.3	(15%-125%)

Notes:

Method

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 Mtd.: Method DL: Detection Limit PF: Prep Factor **RL**: Reporting Limit Lc/LC: Critical Level

MDA: Minimum Detectable Activity TPU: Total Propagated Uncertainty

MDC: Minimum Detectable Concentration

Page 6 of 40 SDG: 632702

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 8, 2023

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceAP2-R

Client Sample ID: ARK-AP2-FD-01 Project: GPCC00100 Sample ID: GPCC001 Client ID: 632702002

Matrix: WG

Collect Date: 08-AUG-23 Receive Date: 09-AUG-23 Client Collector:

Parameter	Qualifier	Result U	ncertainty	MDC_	TPU	RL	Units	PF	DF Analys	t Date Time	Batch	Mtd.
Rad Gas Flow Proportion GFPC Ra228, Liquid		0										
Radium-228	U	-1.78	+/-1.01	2.19	+/-1.01	3.00	pCi/L		JE1	08/29/23 1024	2474962	1
Radium-226+Radium-	228 Calculo	ation "See Pa	rent Product	s"								
Radium-226+228 Sum	U	0.0513	+/-1.06	2.19	+/-1.06		pCi/L		NXL1	09/08/23 1226	2475371	2
Rad Radium-226 Lucas Cell, Ra226, Lic	quid "As Rec	ceived"										
Radium-226	U	0.0513	+/-0.334	0.688	+/-0.334	1.00	pCi/L		LXP1	09/08/23 1035	2474958	3

The following Analytical Methods were performed 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"	2474962	78.8	(15%-125%)

Notes:

Method

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 Mtd.: Method DL: Detection Limit PF: Prep Factor Lc/LC: Critical Level **RL**: Reporting Limit

MDA: Minimum Detectable Activity TPU: Total Propagated Uncertainty

MDC: Minimum Detectable Concentration

Page 7 of 40 SDG: 632702

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 8, 2023

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceAP2-R

Client Sample ID: ARK-ARGWC-22 Project: GPCC00100 Sample ID: GPCC001 Client ID: 632702003

Matrix: WG

Collect Date: 08-AUG-23 Receive Date: 09-AUG-23 Client Collector:

Parameter	Qualifier	Result U	ncertainty	MDC_	TPU	RL	Units	PF	DF Analys	t Date Time	Batch	Mtd.
Rad Gas Flow Proportion GFPC Ra228, Liquid		0										
Radium-228	U	1.13	+/-1.04	1.69	+/-1.08	3.00	pCi/L		JE1	08/29/23 1024	2474962	1
Radium-226+Radium-	228 Calculo	ation "See Pa	rent Produc	ts"								
Radium-226+228 Sum	U	1.22	+/-1.08	1.69	+/-1.12		pCi/L		NXL1	09/08/23 1226	2475371	2
Rad Radium-226 Lucas Cell, Ra226, Lic	quid "As Red	ceived"										
Radium-226	U	0.0892	+/-0.303	0.598	+/-0.304	1.00	pCi/L		LXP1	09/08/23 1035	2474958	3

The following Analytical Methods were performed **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"	2474962	76.5	(15%-125%)

Method

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 Mtd.: Method DL: Detection Limit PF: Prep Factor Lc/LC: Critical Level **RL**: Reporting Limit

MDA: Minimum Detectable Activity TPU: Total Propagated Uncertainty

MDC: Minimum Detectable Concentration

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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 8, 2023

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceAP2-R

Client Sample ID: ARK-ARAMW-7 Project: GPCC00100 Sample ID: GPCC001 Client ID: 632702004

Matrix: WG

Collect Date: 08-AUG-23 Receive Date: 09-AUG-23 Collector: Client

Parameter	Qualifier	Result U	ncertainty	MDC	TPU	RL	Units	PF	DF Analys	st Date Ti	ne Batc	h Mtd.
Rad Gas Flow Proporti GFPC Ra228, Liquid		0										
Radium-228		4.31	+/-1.46	1.85	+/-1.82	3.00	pCi/L		JE1	08/29/23 102	24 24749	62 1
Radium-226+Radium-	-228 Calcular	tion "See Pa	rent Product	's"								
Radium-226+228 Sum		4.83	+/-1.50	1.85	+/-1.86		pCi/L		NXL1	09/08/23 12:	26 24753	71 2
Rad Radium-226 Lucas Cell, Ra226, Lid	quid "As Rece	eived"										
Radium-226		0.520	+/-0.353	0.398	+/-0.362	1.00	pCi/L		LXP1	09/08/23 10:	35 24749	58 3

The following Analytical Methods were performed **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"	2474962	74.8	(15%-125%)

Notes:

Method

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 Mtd.: Method DL: Detection Limit PF: Prep Factor Lc/LC: Critical Level **RL**: Reporting Limit

MDA: Minimum Detectable Activity TPU: Total Propagated Uncertainty

MDC: Minimum Detectable Concentration

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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 8, 2023

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceAP2-R

Client Sample ID: ARK-AP2-FB-01 Project: GPCC00100 GPCC001 Sample ID: Client ID: 632702005

Matrix: WQ

08-AUG-23 Collect Date: Receive Date: 09-AUG-23 Client Collector:

Parameter	Qualifier	Result U	ncertainty	MDC	TPU	RL	Units	PF	DF Analys	t Date Tim	e Batch	Mtd.
Rad Gas Flow Proportion GFPC Ra228, Liquid		0										
Radium-228	U	1.02	+/-0.927	1.50	+/-0.963	3.00	pCi/L		JE1	08/29/23 1024	2474962	1
Radium-226+Radium-	228 Calculat	ion "See Pa	arent Products	s"								
Radium-226+228 Sum		1.76	+/-0.991	1.50	+/-1.04		pCi/L		NXL1	09/08/23 1226	2475371	2
Rad Radium-226 Lucas Cell, Ra226, Liq	uid "As Rece	rived"										
Radium-226		0.743	+/-0.351	0.299	+/-0.387	1.00	pCi/L		LXP1	09/08/23 1035	2474958	3

The following Analytical Methods were performed **Description**

	<u> </u>
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"	2474962	76.8	(15%-125%)

Method

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 Mtd.: Method DL: Detection Limit PF: Prep Factor Lc/LC: Critical Level **RL**: Reporting Limit

MDA: Minimum Detectable Activity TPU: Total Propagated Uncertainty

MDC: Minimum Detectable Concentration

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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 8, 2023

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceAP2-R

Client Sample ID: ARK-ARAMW-9 Project: GPCC00100 Sample ID: GPCC001 Client ID: 632702006

Matrix: WG

Collect Date: 08-AUG-23 Receive Date: 09-AUG-23 Collector: Client

Parameter	Qualifier	Result U	ncertainty	MDC	TPU	RL	Units	PF	DF Analys	t Date Tin	e Batch	Mtd.
Rad Gas Flow Proporti GFPC Ra228, Liquid		U										
Radium-228		3.39	+/-1.15	1.38	+/-1.43	3.00	pCi/L		JE1	08/29/23 1024	2474962	. 1
Radium-226+Radium	-228 Calculo	ation "See Pa	rent Produc	ts"								
Radium-226+228 Sum		3.92	+/-1.21	1.38	+/-1.49		pCi/L		NXL1	09/08/23 1220	2475371	2
Rad Radium-226 Lucas Cell, Ra226, Li	quid "As Red	ceived"										
Radium-226	U	0.533	+/-0.402	0.590	+/-0.415	1.00	pCi/L		LXP1	09/08/23 103:	2474958	3

The following Analytical Methods were performed 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"	2474962	81.3	(15%-125%)

Notes:

Method

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 Mtd.: Method DL: Detection Limit PF: Prep Factor Lc/LC: Critical Level **RL**: Reporting Limit

MDA: Minimum Detectable Activity TPU: Total Propagated Uncertainty

MDC: Minimum Detectable Concentration

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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 8, 2023

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceAP2-R

Client Sample ID: ARK-ARAMW-2 Project: GPCC00100 Sample ID: GPCC001 Client ID: 632702007

Matrix: WG

Collect Date: 08-AUG-23 Receive Date: 09-AUG-23 Client Collector:

Parameter	Qualifier	Result U	ncertainty	MDC	TPU	RL	Units	PF	DF Analys	t Date Tin	ne Batch	Mtd.
Rad Gas Flow Proportion GFPC Ra228, Liquid		0										
Radium-228	U	1.11	+/-0.957	1.55	+/-0.998	3.00	pCi/L		JE1	08/29/23 102	4 2474962	. 1
Radium-226+Radium-	228 Calculat	ion "See Pa	rent Products	s"								
Radium-226+228 Sum		1.86	+/-1.08	1.55	+/-1.13		pCi/L		NXL1	09/08/23 122	5 2475371	. 2
Rad Radium-226 Lucas Cell, Ra226, Lid	quid "As Rece	eived"										
Radium-226		0.747	+/-0.501	0.715	+/-0.529	1.00	pCi/L		LXP1	09/08/23 103	5 2474958	3

The following Analytical Methods were performed **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"	2474962	90	(15%-125%)

Notes:

Method

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 Mtd.: Method DL: Detection Limit PF: Prep Factor Lc/LC: Critical Level **RL**: Reporting Limit

MDA: Minimum Detectable Activity TPU: Total Propagated Uncertainty

MDC: Minimum Detectable Concentration

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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 8, 2023

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceAP2-R

Client Sample ID: ARK-ARAMW-1 Project: GPCC00100 Sample ID: GPCC001 Client ID: 632702008

Matrix: WG

Collect Date: 08-AUG-23 Receive Date: 09-AUG-23 Collector: Client

Parameter	Qualifier	Result Ui	ncertainty	MDC_	TPU	RL	Units	PF	DF Analys	t Date Time	Batch I	Mtd.
Rad Gas Flow Proportion GFPC Ra228, Liquid		0										
Radium-228	U	0.725	+/-1.06	1.82	+/-1.08	3.00	pCi/L		JE1	08/29/23 1021	2474962	1
Radium-226+Radium-	228 Calculo	ation "See Pa	rent Product	's"								
Radium-226+228 Sum	U	1.16	+/-1.13	1.82	+/-1.15		pCi/L		NXL1	09/08/23 1226	2475371	2
Rad Radium-226 Lucas Cell, Ra226, Lia	quid "As Rec	ceived"										
Radium-226	U	0.434	+/-0.398	0.601	+/-0.404	1.00	pCi/L		LXP1	09/08/23 1035	2474958	3

The following Analytical Methods were performed **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"	2474962	90.1	(15%-125%)

Notes:

Method

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 Mtd.: Method DL: Detection Limit PF: Prep Factor Lc/LC: Critical Level **RL**: Reporting Limit

MDA: Minimum Detectable Activity TPU: Total Propagated Uncertainty

MDC: Minimum Detectable Concentration

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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 8, 2023

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceAP2-R

Client Sample ID: ARK-ARGWC-23 Project: GPCC00100 Sample ID: GPCC001 Client ID: 632702009

Matrix: WG

Collect Date: 08-AUG-23 Receive Date: 09-AUG-23 Collector: Client

Parameter	Qualifier	Result U	ncertainty	MDC	TPU	RL	Units	PF	DF Analys	t Date Time	Batch	Mtd.
Rad Gas Flow Proportion		0										
Radium-228	U	-0.0472	+/-0.745	1.44	+/-0.745	3.00	pCi/L		JE1	08/29/23 1021	2474962	1
Radium-226+Radium-	228 Calculat	ion "See Pa	rent Product	s"								
Radium-226+228 Sum	U	0.363	+/-0.842	1.44	+/-0.844		pCi/L		NXL1	09/08/23 1226	2475371	2
Rad Radium-226 Lucas Cell, Ra226, Lid	quid "As Rece	eived"										
Radium-226	U	0.363	+/-0.394	0.639	+/-0.398	1.00	pCi/L		LXP1	09/08/23 1107	2474958	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
2	EDA 002 1 Modified

EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2474962	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 Mtd.: Method DL: Detection Limit PF: Prep Factor Lc/LC: Critical Level **RL**: Reporting Limit

MDA: Minimum Detectable Activity TPU: Total Propagated Uncertainty

MDC: Minimum Detectable Concentration

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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 6, 2023

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceAP2-R

GPCC00100 GPCC001 Client Sample ID: ARK-ARGWC-21 Project: Client ID:

Sample ID: Matrix: 633128001 WG

Collect Date: 09-AUG-23 Receive Date: 11-AUG-23 Collector: Client

Parameter	Qualifier	Result U	ncertainty	MDC	TPU	RL	Units	PF	DF	Analys	t Date T	ime	Batch	Mtd.
Rad Gas Flow Propor GFPC Ra228, Liquid		U												
Radium-228		2.34	+/-1.09	1.47	+/-1.24	3.00	pCi/L			JE1	08/23/23 0	928	2477579	1
Radium-226+Radiur	n-228 Calcula	tion "See Pa	rent Produci	ts"										
Radium-226+228 Sum		2.69	+/-1.17	1.47	+/-1.32		pCi/L		1	LXB3	09/06/23 1	109	2476923	2
Rad Radium-226 Lucas Cell, Ra226, I	Liquid "As Rece	eived"												
Radium-226	U	0.352	+/-0.440	0.733	+/-0.443	1.00	pCi/L			LXP1	09/05/23 0	804	2477571	3

The following Analytical Methods were performed Description

	<u>-</u>
1	EPA 904.0/SW846 9320 Modified
2	Calculation

EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2477579	82.3	(15%-125%)

Notes:

Method

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 Mtd.: Method DL: Detection Limit PF: Prep Factor **RL**: Reporting Limit Lc/LC: Critical Level

MDA: Minimum Detectable Activity TPU: Total Propagated Uncertainty

MDC: Minimum Detectable Concentration

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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 6, 2023

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceAP2-R

ARK-AP2-EB-01 Client Sample ID: Project: GPCC00100 Sample ID: GPCC001 Client ID: 633128002

Matrix: WQ Collect Date:

09-AUG-23 Receive Date: 11-AUG-23 Collector: Client

Parameter	Qualifier	Result U	ncertainty	MDC	TPU	RL	Units	PF	DF Analys	t Date Time	Batch	Mtd.
Rad Gas Flow Proporti GFPC Ra228, Liquid		0										
Radium-228	U	0.774	+/-0.989	1.68	+/-1.01	3.00	pCi/L		JE1	08/23/23 0928	2477579	1
Radium-226+Radium	-228 Calcula	tion "See Pa	rent Produc	ts"								
Radium-226+228 Sum	U	1.14	+/-1.05	1.68	+/-1.08		pCi/L		1 LXB3	09/06/23 1109	2476923	. 2
Rad Radium-226 Lucas Cell, Ra226, Li	quid "As Rec	eived"										
Radium-226	U	0.365	+/-0.365	0.514	+/-0.373	1.00	pCi/L		LXP1	09/05/23 0804	2477571	3

The following Analytical Methods were performed 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"	2477579	78.2	(15%-125%)

Notes:

Method

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 Mtd.: Method DL: Detection Limit PF: Prep Factor Lc/LC: Critical Level **RL**: Reporting Limit

MDA: Minimum Detectable Activity TPU: Total Propagated Uncertainty

MDC: Minimum Detectable Concentration

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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 6, 2023

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceAP2-R

Client Sample ID: ARK-ARAMW-8 Project: GPCC00100 GPCC001 Sample ID: Client ID: 633128003

Matrix: WG

Collect Date: 09-AUG-23 Receive Date: 11-AUG-23 Collector: Client

Parameter	Qualifier	Result U	ncertainty	MDC	TPU	RL	Units	PF	DF Analys	st Date Time	Batch	Mtd.
Rad Gas Flow Proporti GFPC Ra228, Liquid		0										
Radium-228	U	0.193	+/-0.595	1.11	+/-0.597	3.00	pCi/L		JE1	08/23/23 0928	2477579	1
Radium-226+Radium-	-228 Calculo	ation "See Pa	arent Produc	ts"								
Radium-226+228 Sum	U	0.193	+/-0.662	1.11	+/-0.664		pCi/L		1 LXB3	09/06/23 1109	2476923	2
Rad Radium-226 Lucas Cell, Ra226, Lia	quid "As Rec	ceived"										
Radium-226	U	-0.0413	+/-0.292	0.773	+/-0.292	1.00	pCi/L		LXP1	09/05/23 0804	2477571	3

The following Analytical Methods were performed 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"	2477579	85.8	(15%-125%)

Notes:

Method

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 Mtd.: Method DL: Detection Limit PF: Prep Factor Lc/LC: Critical Level **RL**: Reporting Limit

MDA: Minimum Detectable Activity TPU: Total Propagated Uncertainty

MDC: Minimum Detectable Concentration

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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 6, 2023

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceAP2-R

Client Sample ID: ARK-ARGWA-20 Project: GPCC00100 Sample ID: GPCC001 Client ID: 633128004

Matrix: WG

Collect Date: 10-AUG-23 Receive Date: 11-AUG-23 Collector: Client

Parameter	Qualifier	Result U	ncertainty	MDC	TPU	RL	Units	PF	DF	Analys	t Date Time	Batch	Mtd.
Rad Gas Flow Proportion GFPC Ra228, Liquid		0											
Radium-228	U	1.12	+/-0.916	1.46	+/-0.961	3.00	pCi/L			JE1	08/23/23 0928	2477579	1
Radium-226+Radium-	Radium-226+Radium-228 Calculation "See Parent Products"												
Radium-226+228 Sum		1.80	+/-1.03	1.46	+/-1.08		pCi/L		1	LXB3	09/06/23 1109	2476923	2
Rad Radium-226 Lucas Cell, Ra226, Lic	quid "As Rece	eived"											
Radium-226		0.675	+/-0.477	0.587	+/-0.497	1.00	pCi/L			LXP1	09/05/23 0804	2477571	3

The following Analytical Methods were performed **Description**

1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	FPA 903 1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2477579	84.2	(15%-125%)

Notes:

Method

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 Mtd.: Method DL: Detection Limit PF: Prep Factor Lc/LC: Critical Level **RL**: Reporting Limit

MDA: Minimum Detectable Activity TPU: Total Propagated Uncertainty

MDC: Minimum Detectable Concentration

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

QC Summary

Client: Georgia Power Company, Southern Company

241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia

Contact: Joju Abraham

Workorder: 632702

Report Date: September 8, 2023 Page 1 of 2

Parmname	NOM	Sample (Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gas Flow										
Batch 2474962 —										
QC1205485681 632629005 DUP										
Radium-228	U	0.769	U	1.06	pCi/L	0		N/A	A JE1	08/29/2310:23
	Uncert:	+/-0.800		+/-0.926						
	TPU:	+/-0.823		+/-0.964						
QC1205485682 LCS										
Radium-228	78.5			74.0	pCi/L		94.3	(75%-125%)	JE1	08/29/2310:21
	Uncert:			+/-4.13						
	TPU:			+/-19.3						
QC1205485680 MB										
Radium-228			U	1.14	pCi/L				JE1	08/29/2310:23
	Uncert:			+/-0.949						
	TPU:			+/-0.992						
Rad Ra-226										
Batch 2474958 —										
QC1205485669 632629005 DUP										
Radium-226		0.529		1.71	pCi/L	105*	¢	(0% - 100%)	LXP1	09/08/2311:07
	Uncert:	+/-0.365		+/-0.662						
	TPU:	+/-0.375		+/-0.732						
QC1205485671 LCS										
Radium-226	26.2			25.2	pCi/L		96	(75%-125%)	LXP1	09/08/2311:07
	Uncert:			+/-1.98						
	TPU:			+/-5.66						
QC1205485668 MB										
Radium-226			U	0.302	pCi/L				LXP1	09/08/2311:07
	Uncert:			+/-0.349						
	TPU:			+/-0.355						
QC1205485670 632629005 MS										
Radium-226	133	0.529		150	pCi/L		112	(75%-125%)	LXP1	09/08/2311:07
	Uncert:	+/-0.365		+/-11.4						
	TPU:	+/-0.375		+/-34.4						

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

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

QC Summary

Workorder: 632702 Page 2 of 2 **Parmname** NOM Sample Qual QC Units RPD% REC% Range Anlst Date Time UI Gamma Spectroscopy--Uncertain identification BDResults are either below the MDC or tracer recovery is low Preparation or preservation holding time was exceeded h 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. Analyte concentration is not detected above the detection limit ND M if above MDC and less than LLD M

FA Failed analysis.

NJ

- UJ Gamma Spectroscopy--Uncertain identification
- Q One or more quality control criteria have not been met. Refer to the applicable narrative or DER.

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

- 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.

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

QC Summary

Client: Georgia Power Company, Southern Company

241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia

Contact: Joju Abraham

Workorder: 633128

Report Date: September 6, 2023 Page 1 of 2

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range A	nlst	Date Time
Rad Gas Flow									
Batch 2477579 —									
QC1205490061 633107021 DUP									
Radium-228	U	-2.75	1.33	pCi/L	56.5		(0% - 100%)	JE1	08/23/2309:27
	Uncert:	+/-1.01	+/-0.836						
	TPU:	+/-1.01	+/-0.903						
QC1205490062 LCS									
Radium-228	74.3		74.9	pCi/L		101	(75%-125%)	JE1	08/23/2309:27
	Uncert:		+/-4.28						
	TPU:		+/-19.5						
QC1205490060 MB									
Radium-228			2.75	pCi/L				JE1	08/23/2309:27
	Uncert:		+/-1.14						
	TPU:		+/-1.34						
Rad Ra-226 Batch 2477571									
Batch 2477571 —									
QC1205490047 633189001 DUP									
Radium-226		0.622	0.706	pCi/L	12.5		(0% - 100%)	LXP1	09/05/2309:12
	Uncert:	+/-0.467	+/-0.498						
	TPU:	+/-0.483	+/-0.525						
QC1205490049 LCS				a		40-	.==		00/07/0000
Radium-226	26.2		27.7	pCi/L		106	(75%-125%)	LXPI	09/05/2309:12
	Uncert:		+/-2.77						
OC1205400046 NP	TPU:		+/-5.70						
QC1205490046 MB		T.T.	0.220	С:/Т				I VD1	00/05/2200.12
Radium-226	Uncert:	U	0.220 +/-0.394	pCi/L				LXP1	09/05/2309:12
	TPU:		+/-0.394						
QC1205490048 633189001 MS	IPU:		+/-0.397						
Radium-226	119	0.622	109	pCi/L		01.6	(75%-125%)	I VD1	09/05/2309:12
Radium-220	Uncert:	+/-0.467	+/-12.8	pCI/L		71.0	(13/0-123/0)	LAII	07/03/2309.12
	TPU:	+/-0.483	+/-12.8						
	110.	T/ -0.403	±/-∠J.0						

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

Page 21 of 40 SDG: 632702

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

QC Summary

Workorder: 633128 Page 2 of 2 **Parmname** NOM Sample Qual QC Units RPD% REC% Range Anlst Date Time UI Gamma Spectroscopy--Uncertain identification BDResults are either below the MDC or tracer recovery is low Preparation or preservation holding time was exceeded h 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. Analyte concentration is not detected above the detection limit ND M M if above MDC and less than LLD Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier NJ

- 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 22 of 40 SDG: 632702

Radiochemistry Technical Case Narrative Georgia Power Company SDG #: 632702

Product: Radium-226+Radium-228 Calculation

Analytical Method: Calculation

Analytical Procedure: GL-RAD-D-003 REV# 45

Analytical Batch: 2475371

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

GEL Sample ID#	Client Sample Identification
632702001	ARK-ARGWA-19
632702002	ARK-AP2-FD-01
632702003	ARK-ARGWC-22
632702004	ARK-ARAMW-7
632702005	ARK-AP2-FB-01
632702006	ARK-ARAMW-9
632702007	ARK-ARAMW-2
632702008	ARK-ARAMW-1
632702009	ARK-ARGWC-23

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: GFPC Ra228, Liquid

Analytical Method: EPA 904.0/SW846 9320 Modified **Analytical Procedure:** GL-RAD-A-063 REV# 5

Analytical Batch: 2474962

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

GEL Sample ID#	Client Sample Identification
632702001	ARK-ARGWA-19
632702002	ARK-AP2-FD-01
632702003	ARK-ARGWC-22
632702004	ARK-ARAMW-7
632702005	ARK-AP2-FB-01
632702006	ARK-ARAMW-9
632702007	ARK-ARAMW-2
632702008	ARK-ARAMW-1
632702009	ARK-ARGWC-23
1205485680	Method Blank (MB)

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1205485681 632629005(NonSDG) Sample Duplicate (DUP) 1205485682 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

Negative > 3 sigma TPU

Sample result was more negative than the three sigma TPU. The background control chart was examined and the detector was determined to be fully functional.

Sample	Analyte	Value
632702002 (ARK-AP2-FD-01)	Radium-228	Negative Result > 3 sigma value

<u>Product:</u> Lucas Cell, Ra226, Liquid <u>Analytical Method:</u> EPA 903.1 Modified

Analytical Procedure: GL-RAD-A-008 REV# 15

Analytical Batch: 2474958

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

GEL Sample ID# Client Sample Identification	
632702001 ARK-ARGWA-19	
632702002 ARK-AP2-FD-01	
632702003 ARK-ARGWC-22	
632702004 ARK-ARAMW-7	
632702005 ARK-AP2-FB-01	
632702006 ARK-ARAMW-9	
632702007 ARK-ARAMW-2	
632702008 ARK-ARAMW-1	
632702009 ARK-ARGWC-23	
1205485668 Method Blank (MB)	
1205485669 632629005(NonSDG) Sample Duplicate (DU	P)
1205485670 632629005(NonSDG) Matrix Spike (MS)	
1205485671 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.

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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
1205485669 (Non SDG 632629005DUP)	Radium-226	RPD 105* (0.0%-100.0%) RER 2.8 (0-3)

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.

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Radiochemistry Technical Case Narrative Georgia Power Company SDG #: 633128

Product: Radium-226+Radium-228 Calculation

Analytical Method: Calculation

Analytical Procedure: GL-RAD-D-003 REV# 45

Analytical Batch: 2476923

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

GEL Sample ID#	Client Sample Identification
633128001	ARK-ARGWC-21
633128002	ARK-AP2-EB-01
633128003	ARK-ARAMW-8
633128004	ARK-ARGWA-20

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: GFPC Ra228, Liquid

<u>Analytical Method:</u> EPA 904.0/SW846 9320 Modified <u>Analytical Procedure:</u> GL-RAD-A-063 REV# 5

Analytical Batch: 2477579

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

GEL Sample ID#	Client Sample Identification
633128001	ARK-ARGWC-21
633128002	ARK-AP2-EB-01
633128003	ARK-ARAMW-8
633128004	ARK-ARGWA-20
1205490060	Method Blank (MB)
1205490061	633107021(ARK-ARGWC-16) Sample Duplicate (DUP)
1205490062	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.

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Quality Control (QC) Information

Method Blank Criteria

The blank result (See Below) is greater than the MDC but less than the required detection limit.

Sample	Analyte	Value
1205490060 (MB)	Radium-228	Result: 2.75 pCi/L > MDA: 1.51 pCi/L <= RDL: 3.00 pCi/L

<u>Product:</u> Lucas Cell, Ra226, Liquid <u>Analytical Method:</u> EPA 903.1 Modified

Analytical Procedure: GL-RAD-A-008 REV# 15

Analytical Batch: 2477571

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

GEL Sample ID#	Client Sample Identification
633128001	ARK-ARGWC-21
633128002	ARK-AP2-EB-01
633128003	ARK-ARAMW-8
633128004	ARK-ARGWA-20
1205490046	Method Blank (MB)
1205490047	633189001(NonSDG) Sample Duplicate (DUP)
1205490048	633189001(NonSDG) Matrix Spike (MS)
1205490049	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, 1205490048 (Non SDG 633189001MS), 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.

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Profeet # 175569434		<u>e</u>	GEL		apo	rate	Laboratories	C	9	02022	e					40 Sav	2040 Savage Road	d LLC					
Gina Quote #:	Cooler 30f3	30f3	Cha	I E	Sustoc	Radiocher V and	Ghain of Custody and Analytical Request	iobioassa cal Re	y I Spec	sialty An	alytics	33	7	70		narlesto	Charleston, SC 29407 Phone: (843) 556-8171	9407					
PO99umber:	GEL Work Order Number:	r Number:			GEL	Project	GEL Project Manager: Erin Trent	r: Erin	Trent		1					x: (843	Fax: (843) 766-1178	178					
Client Name: Georgia Power		Ь	Phone # (937-344-6533)	37-344-	5533)					1000	le Ar	Sample Analysis Requested	Requ	ested	(2)	III in th	(Fill in the number of	ber of	contain	containers for each test)	. each	est)	
Project/Site Name: Plant Arkwright Ash Pond 2		F	Fax;				Shou	Should this	5	IN	IN				IN	IN	IN		IN	IN		< Preservative Type (6)	(9)
rd	GA 30308						consi	sample be considered:	nanis:	(B0	(B0			€6			1			1000			
Codected By: John Myer; Dylan Quintal, Holdston Lynn	Send Results To: jabraham@southernco.com EDD@stantec.com edgar.smith@stantec.com	aham@southe	гисо.сош	EDD@st	antec.con) Apply		r of con	Z09) (1	209) III	(1.	(D0	561 177	(B0)				V. 7. 7.			Comments	5
Sample ID * For composites - indicate start and stop date time		ected yy)	*Time Collected (Military) (hhmm)	OC Code (3)	Field	Sample (3) Matrix (4)	Radioactive yes, please suj isotopic info.)	o nwonN (7) san saldized	odmun latoT	I .qqA) gA	Metals App.	Alkalinit R2	TDS (SM	Anions (CI, (300.0 Rev Metals	709)	E-62+ / Mr	Method Field F	Nitrate as bortoM	Mercury Metals A	Na, Fe, Mı		ASSMT-2023S1)	-X-CK-
ARK-ARGWA-19			1015	z	Y	MG			6	×	×	×	×	×	×	×		×	×				
ARK-AP2-FD-01	80	08-08-23	NA	FD	z	WQ			7		×												
ARK-ARGWC-22	80	08-08-23	0955	Z	Y	WG			6	×	×	×	×	×	×	×		×	×				
ARK-ARAMW-7	80	08-08-23	1150	Z	Y	WG			6	X	X	×	×	X	×	×		×	X				
ARK-AP2-FB-01	80	08-08-23	1230	FB	z	WQ			7		X		X	X	×			X	-	2			
ARK-ARAMW-9	80	08-08-23	1235	z	Y	WG			6	X	X	X	X	x x	×	×		X X	×	5			
ARK-ARAMW-2	80	08-08-23	1505	Z	Y	MG			6	X	X	×	X 3	X	×	×		X X	X				
ARK-ARAMW-1	80	08-08-23	1600	z	Y	WG			6	X	X	×	X	X X	×	×		X	×				
ARK-ARGWC-23	80	08-08-23	1655	z	Ϋ́	MG			6	×	×	×	×	×	×	×		×	×				
5	Chain of Custody Signatures	gnatures								TAT Requested:	Sednes	ted:	Normal:	al:	Ru	Rush:	Spe	Specify:		(S)	ubject	(Subject to Surcharge)	
Relinquished By (Signed) Print Name	Date Rece	Received by (signed)		Print Name		Date		Fax Results: [] Yes	sults:	[] Ye		[X]No											
1) Teachers hay Each Lavey	819/13 1	100	19	1.	7/4	5813	8.33	_	Delive	rable: []C		10c	[] QC Summary		[] level 1		[X] Level	2 []	[] Level 3	3 []	[] Level 4	
2	125	1- An	a Kui	X	Sile	CIL	DUC	Additional Remarks	onal Re	emarks													
3	3	7	2000		W	(+1.	2	For Lab Receiving Use Only: Custody Seal Intact?	ib Rece	eiving	Use O	nly: C	ustody	Seal 1	ntact?	[] Yes	[] No	157	Cooler Temp:	emp:		<i>2</i> °	
> For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)	Sample Receipt & Re	view form (SRR.)				Sample Collection Time Zone: [X] Eastern	Collection	on Tin	re Zon	g: [X] East		[] Pacific		[] Central		[] Mountain	mtain	[] Other:	ther:		
Chain of Custody Number = Client Determined OC Codes: N = Normal Sample TRB = Trin Blank: FD = Field Duplicate EB = Equipment Blank: MS = Matrix Spike Sample. MSD	Field Duplicate, EB = Equip	ment Blank. M	S = Matrix	opike Sam		- Matrix Sı	= Matrix Soike Duplicate Sample, G = Grab, C = Composite	te Sample,	G = Gr	ab, C = (Composi	9											
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.	r yes the sample was field filt	ered or - N - fo	r sample wa	s not field																			
4.) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Water, WL=Misc Liquid, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=Nasal	SW=Surface Water, WW=\	Vaste Water, W	=Water, M	L=Misc Li	quid, SO=	soil, SD=S	ediment, SL	=Sludge, S	S=Solid	Waste,	0=0il, 1	=Filter,	P=Wipe	, U=Uri	ne, F=Fe	cal, N=N	asal						
5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/1470A) and number of containers provided for each (i.e. 8260B - 5, 6010B/1470A - 1).	(i.e. 8260B, 6010B/7470A) Acid SH = Sodium Hydroxi	and number of	containers p	rovided fo	r each (i.e.	= Hexane	ST = Sodin	od - 1). m Thiosul	fate. If n	o preser	vative is	added =	leave fi	eld blan									
7) KNOWN OR POSSIBLE HAZARDS	Characteristic Hazards	zards	Listed Waste	Waste				Other										1	P	ease pr	ovide	Please provide any additional details	S
RCRA Metals As = Arsenic Hg= Mercury Ro = Reginn See Salanium	FL = Flammable/Ignitable CO = Corrosive RE = Reactive	ınitable	LW= I (F,K,P Waste	LW= Listed Waste (F.K.P and U-listed wastes.) Waste code(s):	aste isted wa	ites.)		OT= Other / Unknown f.e.: Highlow pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)	igh/lor ealth h	Unkno w pH, c	wn isbesta i, etc.)	ss, bery	Hium,	irrita	its, oth	er			of Ce	low reg ncerns. site col	arding (i.e.:	below regarding handling and/or disposal concerns. (i.e., Origin of sample(s), type of site collected from, odd matrices, etc.)	sposal type etc.)
E !	TSCA Regulated	ated						linear l						1		1							
	biphenyls															H							

632702

Client: GPCC				S	SAMPLE RECEIPT & REVIEW FORM C 32699 SDG/AR/COC/Work Order: 65) 499 (32-702) Date Received: S 9 2 12 12 Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other)		
I	Received By: EG Carrier and Tracking Number						
S	uspected Hazard Information	Yes	Z	*1	f Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.		
A)Shipped as a DOT Hazardous?		1	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes No				
3) Did the client designate the samples are to be ceived as radioactive?		/	CO	OC notation or radioactive stickers on containers equal client designation.		
7	Did the RSO classify the samples as dioactive?		1	M	aximum Net Counts Observed* (Observed Counts - Area Background Counts): CP1/mR/Hr Classified as: Rad 1 Rad 2 Rad 3		
)	Did the client designate samples are hazardous	?	/	11533	OC notation or hazard labels on containers equal client designation.		
()	Did the RSO identify possible hazards?		1	If	D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:		
	Sample Receipt Criteria	Yes	N.	l or			
1	Shipping containers received intact and sealed?	1	2		Comments/Qualifiers (Required for Non-Conforming Items) Circle Applicable: Seals broken Damagedicontainer 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 $(0 \le 6 \text{ deg. C})$?*	/			Preservation Method: Wet Ice Ice Packs Dry ice None Other: *all temperatures are-recorded in Celsius TEMP:		
1	Daily check performed and passed on IR temperature gun?	1			Temperature Device Serial #: IR5-23 Secondary Temperature Device Serial # (If Applicable):		
5	Sample containers intact and sealed?	1			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)		
	Samples requiring chemical preservation at proper pH?			1	Isample ID's and Containers Affected: Affected: Affected Containers Preserved with Sulfu If Preservation added, Lota: 3858525-A		
,	Do any samples require Volatile Analysis?			1	If Yes, are Encores or Soil Kits present for solids? YesNoNA(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? YesNoNA(If unknown, select No) Are liquid VOA vials free of headspace? YesNoNA Sample ID's and containers affected:		
	Samples received within holding time?				ID's and tests affected:		
	Sample ID's on COC match ID's on bottles?	1			ID's and containers affected:		
	Date & time on COC match date & time on bottles?	/			Circle Applicable: No dates on containers No times on containers CCC missing into Other (describe)		
-	Number of containers received match number indicated on COC?				Circle Applicable: No container count on COC Other (describe)		
	Are sample containers identifiable as GEL provided by use of GEL labels?	$\sqrt{}$	Ĭ				
	COC form is properly signed in relinquished/received sections?				Circle Applicable: Not relinquished Other (describe)		
	nents (Use Continuation Form if needed):						

tories, LLC COOICC	107	9	(Fill in the number of containers for each test)	Z Z < Preservative Type (6)	"2	(6020) 'K' W [§]	Metals Al. ASSMT-2023S1)	X X See Nitrate/Nitrite COC		×	X	X Add. anion collected at 0825 8/11/23		Specity: (Subject to Surcharge)		[X] Level 2 [] Level 3 [] Level 4		[] No Cooler Temp: °C		las		Please provide any additional details below	regarding handling and/or disposal concerns.	regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)	regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)	regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.) Originally Nittate by N were originally collected in universerved bottles. I ster
GEL Laboratories, LLC 2040 Savage Road	Charleston, SC 29407 Phone: (843) 556-8171	Fax: (843) 766-1178	(Fill in the	IN	V	7+ (EP	RAD 226-2 Method 6020	×		×	×		Ruch.	Kush:		[] level 1		7		=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=Nasal t.e. 8260B - 3, 6010B7470A - 1).				12	42	ar.
7	U A	II.	(3)				A zlateM 0208)	×		×	×	×						For Lab Receiving Use Only: Custody Seal Intact? [] Yes	2112	=Urine, F	blank			Other OT= Other / Unknown (i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)	mts, oth	ints, oth
2	K		Sample Analysis Requested			Fl, Sulfat	2540 Anions (Cl, I (300.0 Rev.	×		×	×	×	Jormal	Normal:		[] QC Summary		dy Seal	21 7	=Wipe, U	save field			m, irritc	m, irritc	m, irrite
433136	33		alysis	IN		1) Metho	TDS (SM	×	×	×	×				9			Custo	asicilii asicilii	Filter, P.	idded = 16			serylliu	verylliw	rerylliu
43	ytics (ole An	IN			Metals App.	×		×	×	×	Remies	1A1 Requested:	[X]No	CofA		se Only.	Composite)=Oil, F=	vative is a	-	h_	l nestos, l etc.)	nestos, l	restos, l
	alty Anal		Sam	IN	(B)	0709) (I .qqA) gA	×	×	×	×	×	TAT	IAI] Yes	ble: []	iarks:	ving Us	ab, C = C	Waste, C	no presen		nknowr	nknown pH, ast zards, e	ıknown pH, asb zards, e	ıknown pH, asb zards, e
	y I Speci	Trent		5	ainer	nuos jo .	Total number	6	7	X 6	10 X	9			Fax Results: [] Yes	Select Deliverable: [] C of A	Additional Remarks.	b Recei	e, G = Gr	SS=Solid	ulfate, If 1		ther / U	Other OT= Other / Unknown (i.e.: High/low pH, asbest misc. health hazards, etc.)	ther / Ungh/low,	ther / Ungh/low, salth ha.
3110	diobioassa ical Re	er: Erin		Should this	sample be	sp.n	(7) Known or				(Vo.)						Additio	For La	icate Sampl	L=Sludge,	dium Thios		Other OT=Ot	Other OT= O (i.e.: Hi misc. hi	Other OT=Other/ (i.e.: High/lc misc. health Description:	Other OT=Oi (i.e.: Hi misc. he Descrip
Ories	gatoon Chemistry Radiochemistry Radiobloassay Speciatry Analytics 633 38 Chain of Custody and Analytical Request	GEL Project Manager: Erin Trent		Shor	Sam	JI)	Radioactive yes, please sur isotopic info.)									11/25	8	County	Jointput Contention Time Forms ($\Gamma \times \Gamma$) is $D = Matrix Spike Duplicate Sample, G = Grab, C = Composite$	Sediment, S	ne, ST = Soo					
rati	Radioche.	Projec				-	Sample (3) Matrix (4)	WG	WQ	WG	MG	WG			Date	200	S		= Matrix	Soil, SD=	X = Hexar			tes.)	tes.)	tes.)
apc	Justod	GEL	5533)			antec.com	Field	Y	z	Y	Y	Y				ward.	11/2		nple, MSD	d filtered. quid, SO= or each (i.e	ic Acid, H		aste	Listed Waste LW=Listed Waste (F, K, P and U-listed wastes.) Waste code(s):	iste sted was	iste sted was
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GEL	Cha		Phone # (937-344-6533)	Fax:		етсо.сот	*Time Collected (Military) (hhmm)	1035	1110	1115	0925	1255			00	Anthony	THE PROPERTY		MS = Matrix	for sample w V=Water, MI of containers	uric Acid, A		Listed Waste	Listed LW=L (F,K,P Waste (Listed LW=L (F,K,P.) Waste c	Listed LW=L (F,K,P,
	Cooler 1 of 2	GEL Work Order Number:		I		Send Results To: jabraham@southernco.com EDD@stantec.com edgar.smith@stantec.com	*Date Collected (mm-dd-yy)	08-09-23	08-09-23	08-09-23	08-10-23	08-10-23	Chain of Custody Signatures	touy Signatures	Keceived by (signed)	3	SWE L	3	pt & Keytew Jorna (s. 5.B = Equipment Blank,	was field filtered or - N - ier, WW=Waste Water, V OB/7470A) and number of	m Hydroxide, SA = Sulfi		Characteristic Hazards FL = Flammable/Ignitable	Characteristic Hazards FL = Flammable/Ignitable CO = Corrosive RE = Reactive	stic Hazards nable/Ignitable ssive tive	stic Hazards nable/Ignitable ssive tive ulated
	Coole	GEL WO		2	GA 30308	n Send Result	ate/t						Chain of Cus	Chain of Cus		6/11/23			e Sumpte Nece,	- for yes the sample er, SW=Surface Wat ted (i.e. 8260B, 601	ic Acid, SH = Sodiu		Characteri FL = Flam	Characteristic I FL = Flammable CO = Corrosive RE = Reactive	Characteri FL = Flam CO = Corr RE = Reac	Characteristic Hazard FL = Flammable/Ignita CO = Corrosive RE = Reactive TSCA Regulated PCB = Polychlorinated
Page: 1 of 2	GEL Quote #: COC Number (I): 2 Coolers	PONumber:	Cent Name: Georgia Power	PercySite Name: Plant Arkwright Ash Pond 2	Arress: 241 Ralph McGill Blvd SE, Atlanta, GA 30308	Collected By: John Myer, Dylan Quintal, Dylan Roey, Houston Lynn	Sample ID * For composites - indicate start and stop date time	ARK-ARGWC-21	ARK-AP2-EB-01	ARK-ARAMW-8	ARK-ARGWA-20	ARK-STNTW-22			(pa	My down Myer	5		A For sumple supping unit aetivery usuatis, see Sample Accept or Activery John (SAK). 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, MS.	 Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered. Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, W=Water, ML=Misc Liquid, SO=Soit, SD=Sediment, SL=Sludge, Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A). 	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		KNOWN OR POSSIBLE HAZARDS	KNOWN OR POSSIBLE HAZARDS CRA Metals = Arsenic Hg= Mercury	KNOWN OR POSSIBLE HAZARDS CRA Metals = Arsenic Hg= Mercury 1 = Barium Se= Selenium	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

Control 199200243 Control Co	Page: 1 of 2										60	2	200		GEL LE	GEL Laboratories, LLC	S. LLC			0		
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A 30308 Standard Control of C		GEL Work Order Numbe			GEL	roject A	fanager: 1	Erin Tr	ent				li (Fax: (8-	43) 766-	178				2	-
Strong to the color of the co	CHent Name: Georgia Power		Phone # (93	7-344-6	(33)				S	ample	Ana	ysis R	ednes	ted (5)	(Fill	in the nu	mber	of cont	ainers fo	r each tes	t)	
Stand Results To judicidate Countries Contribution Contribut	Project/Site Name: Plant Arkwright Ash Pond 2		Fax:				Should th				IN			IN	IN	IN		IN	IN		< Preservative Type (6)	-
Stand Reads 10, julnahum Goutherness com EDD@stantes.com City	Appess: 241 Ralph McGill Blvd SE, Atlanta, Go	A 30308					sample b			1225	0.0	po		٨	pqu							
The Collected	Cellected By. John Myer, Dylan Quintal, Dylan Reley, Houston Lynn	Send Results To: jabraham@soredgar.smith@stantec.com	линетисо.сот Е	DD@sta	itec.com			sp.rez				Meth	FI, Sulf		.228 Cn	70B) (F				+	Comments (task code: ARK-CCR-	
X X X X X X X X X X X X X X X X X X X	Sample ID * For composities - indicate start and stop da		*Time Collected (Military)	QC Code (2)	6		yes, please su isotopic info.)	zaH əldizzoq				TDS (SN	Anions (Cl,		KAD 226-	Method 603				3	ASSMT-2023S1)	
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Specify: No Cooler 1 Mountain	ARK-AP2-EB-01	08-09-23	1110	FB	z	WQ			7	×		×	X	X	×			×		for	their times	
X X X X X X X X X X X X X X X X X X X	ARK-ARAMW-8	08-09-23	1115	Z	Y	MG				×	×	×	×	×					×			Т
Specify: No Cooler 1] Mountain	ARK-ARGWA-20	08-10-23	0925	Z	Y	WG			10 X	×	×	×	×	×	-	>			×			-
Specify: Level 2 [] No Cooler 1] Mountain	ARK-STNTW-22	08-10-23	1255	Z	Y	MG				×	×		×	×					×	Add.	Add. anion collected at 0825 8/11/23	
Specify: Level 2 [] No Cooler 1] Mountain									4-1-1													TIT
Level 2 [] No Cooler 1] Mountain		Chain of Custody Signature							1	AT Re	equest		ormal		Rust		Specify			Subject to	Surcharge)	
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No Cooler 7	4/	111/8	A (v)	F	200	1000	811	lect Del	iverable	2. []C	of A	100	Sumi	1	[] lev		Level		Level 3	[] Level	4	
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	> For sample shipping and delivery details, see	Sample Receipt & Review forn	(SRR.)			<i>S</i> ₂	Sample Col	lection 3	Time Zo	ne: [X]Ea	stern	[]Pa	cific	[]0	ral] Mou		[] Oth	ii.		1
	Chain of Custody Number = Client Determined QC Codes: N = Normal Sample, TB = Trip Blank, FD = 3 Field Eilered. For liquid marrices, indicate with a - Y - :	Field Duplicate, $\mathbf{E}\mathbf{B}=\mathbf{E}$ quipment Blar for ves the sample was field filtered or -	ık, MS = Matrix N - for sample w	Spike Sam	ple, MSD	= Matrix Sp	oike Duplicate	Sample, C	= Grab,	C = Cor	mposite											
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FL = Flammable/Ignitable LW= Listed Waste OT= Other / Unknown CO = Corrosive (F.K.P and U-listed wastes.) (i.e.: High/low pH, asbestos, beryllium, irritants, other RE = Reactive (F.K.P and U-listed wastes.) misc. health hazards, etc.) Description: Description:	6.) Preservative type: HA = Hydrochlone Acid, M = Mills 7.) KNOWN OR POSSIBLE HAZARDS	Characteristic Hazards	Listed	Waste			0	ther			-							Ī	Please p	ovide any	additional details below	100
Ag= Silver TSCA Regulated MR= Misc. RCRA metals PCB = Polychlorinated	RCRA Metals As = Rarium See Selenium	FL = Flammable/Ignitable CO = Corrosive RE = Reactive	LW=L (F,K,P) Waste o	isted Wa and U-lii ode(s):	2	es.)	Ď I Š Č	T= Othe e.: High isc. heal	r / Unkr Iow pH ih hazar n:	nown I, asber rds, etc	stos, b	erylliu	n, irrit	ants, c	ther				regardin (i.e.: Ori, from, od	g handling gin of sam l matrices,	; and/or disposal concern ole(s), type of site collecte etc.)	* 7
	m m	TSCA Regulated PCB = Polychlorinated													11				Orig	nially Nitra	ate by N were originally preserved bottles; Later	
Pb = Lead biphenyls collected from wells on 8/10/2023	Pb = Lead	biphenyls					1												preserve	d Nitrate/N	n wells on 8/10/2023	77

Design # 1755,0000		1		2	20+0-	0	(GEL La	GEL Laboratories, LLC	TTC		(00 100)	00	
(#1 Onote #:				abo	Laboratories	200	٥					2040 Sa	2040 Savage Road	t		2		
COC Number (1): 2 Coolers		Cha	n of C	ustody	ger.com Chemistry I Radiochemistry I Radioploassay I Spect Chain of Custody and Analytical Request	Ivtical R	Seay Spec	ciany Ana	lyrics			Charles Phone: (Charleston, SC 29407 Phone: (843) 556-8171	171		90 H	(30	
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Agnt Name: Georgia Power		Phone # (937-344-6533)	7-344-6	533)				307	ple Ans	Sample Analysis Requested	nested ((5) (Fill i	the num	ber of cor	(Fill in the number of containers for each test)	r each te	st)	
Peect/Site Name: Plant Arkwright Ash Pond 2 Nitrate/Nitrite COC	: Nitrate/Nitrite COC	Fax:				Should this								VS			< Preservative Type (6)	(9) ad.
Agress: 241 Ralph McGill Blvd SE, Atlanta, GA 30308	3A 30308					sample be considered:							Ve					
Collected By: John Myer, Dylan Quintal, Dylan Rolley, Houston Lynn	Send Results To: jabraham@southernco.com EDD@stantec.com edgar.smith@stantec.com	outhernco.com I	:DD@sta	ntec.com	11)								(H) siir				Comments	6
Sample ID * For composites - indicate start and stop date/time	*Date Collected	*Time Collected (Military) (hhmm)	OC Code (3)	Field Filtered (3)	Sample Matrix (4)	yes, please su isotopic info.)	possible Haza Total numbe						liV/ətstiV	Method			(Task_code: AKK-CCK-ASSMT-2023S1)	S1)
ARK-ARGWC-21			Z	Z	WG		1						×					
ARK-AP2-EB-01	08-10-23	1925	FB	Z	WQ								×					
ARK-ARAMW-8	08-10-23	1936	Z	Z	WG								×					
ARK-ARGWA-20	08-10-23	1953	Z	Z	9M		1						X					
ARK-STNTW-22	08-10-23	1935	Z	z	MG		1						×					
									(a)									
	Chain of Custody Signatures							TAT	TAT Requested:		Normal:	Rush:	Spe	Specify:	8	ubject to	(Subject to Surcharge)	
Relinquished By (Signed) Print Name	Date Received by (signed)	(peu	Print Name	1	Date	Fax	Fax Results: [1 Ves	1 Ves	ONIX	J.								
Charles Con a vist	11/12 10hm-11/	in Ant	Anthony	Ward	3/11/8	38 Selec	Select Deliverable: [1 C of A	able.	CofA	[10C Summary	ummarv	[] level]	1 [X] Level 2		[]I evel 3	I li evel 4	4	
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 For sample shipping and delivery details, see Sample Receipt & Review form (SRR.). Chain of Custody Number = Client Determined 	e Sample Receipt & Review form	(SRR.)			Sar	Sample Collection Time Zone: [X] Eastern	tion Tim	e Zone	[X]E		[] Pacific	[] Central		[] Mountain	[] Other:			T
Cy 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 Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered. Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Water, ML=Misc, M=Solid, SD=Solid, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=Nasal	= Field Duplicate, EB = Equipment Blan for yes the sample was field filtered or -1 ; SW=Surface Water, WW=Waste Water	ik, MS = Matrix N - for sample w r, W=Water, ML	Spike Sam is not field =Misc Liq	ple, MSD = filtered. uid, SO=Sc	Matrix Spike	Duplicate Sar ent, SL=Sludg	mple, G = (Grab, C =	Composite	; Filter, P=Wi	pe, U=Urine	, F=Fecal,	v=Nasal					
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() KNOWN OR POSSIBLE HAZARDS	Characteristic Hazards	Listed Waste	Vaste			Other	T								Please pro	wide any	Please provide any additional details below	voled
ACRA Metals As = Arsenic Hg= Mercury Ba = Barium Se= Selenium	FL = Flammable/Ignitable CO = Corrosive RE = Reactive	LW= Listed W (F,K,P and U-l Waste code(s):	LW= Listed Waste (F,K,P and U-listed Waste code(s):	LW= Listed Waste (F.K.P and U-listed wastes.) Waste code(s):	6.8	OT= (i.e.: misc. Descr	OT= Other / Unknown (i.e.: High low pH, asbest misc. health hazards, etc.) Description:	Jnknow ' pH, ası azards, e	n bestos, b etc.)	OT=Other/Unknown (i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.) Description:	rritants, c	ther			regarding handling and (i.e.: Origin of sample(s, from, odd matrices, etc.)	handling in of samp matrices,	regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)	oncerns.
Sd = Cadmium Ag= Silver Sr = Chromium MR= Misc. RCRA metals St. = 1 and	TSCA Regulated PCB = Polychlorinated											11			Origni	ially Nitra	Originally Nitrate by N were originally collected in unpreserved bottles; Later	ater
ם - דיכמת	orphenyis														colli	ected fror	collected from wells on 8/10/2023	23 23

Prage: 2 of 2 Predect # 175569434		GEL		abor	ator	Laboratories	()					GEI 204	GEL Laboratories, LLC 2040 Savage Road	ries, LLC toad		U	COPIES	5	
(A) Number (1).		gel.c	in of Che	mistry I Ra	diochemistr	gel.com Chemistry Radiochemistry Radiobioassay Speci	say Speci	alty Analy	rtics			Cha	Charleston, SC 29407	2 29407			30 C	()(
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(Pent Name: Georgia Power		Phone # (937-344-6533)	37-344-6	33)				Sami	ole Ana	lysis R	Sample Analysis Requested	0	Il in the	number	of contai	(Fill in the number of containers for each test)	ach test)		
PercySite Name: Plant Arkwright Ash Pond 2 Nitrate/Nitrite COC	Nitrate/Nitrite COC	Fax:				Should this								VS			J	< Preservative Type (6)	1
Arress: 241 Ralph McGill Blvd SE, Atlanta, GA 30308	A 30308					sample be considered:	tainer										L		
Collected By: John Myer, Dylan Quintal, Dylan Rengey, Houston Lynn	Send Results To; jabraham@southernco.com EDD@stantec.com edgar.smith@stantec.com	uthernco.com]	EDD@sta	ntec.com	11)	Kjdd			_									Comments	
Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military)	QC Code (3)	Field (3)	Sample Matrix (4)	yes, please sur isotopic info.)	szaH əldizzoq Total number							Nitrate/Nitr Method			(tasl	(task_code: ARK-CCR- ASSMT-2023S1)	۵
ARK-ARGWC-21	08-10-23	1947	Z	Z	MG		1							×					
ARK-AP2-EB-01	08-10-23	1925	FB	Z	WQ		1	1						×					
ARK-ARAMW-8	08-10-23	1936	Z	z	WG		1							×					
ARK-ARGWA-20	. 08-10-23	1953	N	Z	WG		1							×					
ARK-STNTW-22	08-10-23	1935	z	Z	9M		1							×					
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Relinquished By (Signed) Print Name	Date Received by (signed)	(peu	Print Name		Date	Fax	Fax Results: [1 Yes	1 Yes	[X]No										
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2	2 CANQ TAIN	DAM)	8/11/12	D I	Addi:	Additional Remarks.	narks:							1 1				
3	3				多	For	For Lab Receiving Use Only: Custody Seal Intact? [] Yes	ving Us	e Only:	Custod	Seal In	act? [[] No Co	Cooler Temp:		<i>2</i> °		
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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=1. 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).	Frield Duplicate, EB = Equipment Blan for yes the sample was field filtered or . SW=Surface Water, WW=Waste Wate Wate (i.e. 8260B, 6010B/7470A) and numb	k, MS = Matrix N - for sample w r, W=Water, MI er of containers	Spike Sam as not field ====================================	ole, MSD = filtered. uid, SO=So r each (i.e. &	Matrix Spike il, SD=Sedin 1260B - 3, 66	D = Matrix Spike Duplicate Sample, G = Grab, C = Composite Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=Nasal i.e. 8260B - 3, 6010B7470A - 1).	nple, G = G	rab, C = C	omposite ⊨Oil, F=	ëilter, P=∖	Vipe, U=U	ine, F=Fe	cal, N=Nasa						
6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid,	: Acid, SH = Sodium Hydroxide, SA = S	ulfuric Acid, AA	= Ascorbi		= Hexane, ST	$\mathbf{H}\mathbf{X}=\mathrm{Hexane}$, $\mathbf{S}\mathbf{T}=\mathrm{Sodium}$ Thiosulfate, If no preservative is added = leave field blank	iosulfate, If	no preserv	ative is a	ided = lea	ve field bla	nk N							
7.) KNOWN OR POSSIBLE HAZARDS	Characteristic Hazards FL = Flammable/Ignitable	Listed Waste LW=Listed V	Listed Waste LW=Listed Waste	Listed Waste LW= Listed Waste	7	Other OT=	Other OT= Other / Unknown	nknown	7	11:		77			Ple	ease provid	le any add ndling an	Please provide any additional details below regarding handling and/or disposal concerns.	5 7
As = Arsenic Hg= Mercury Ba = Barium Se= Selenium	RE = Reactive	Waste code(s):	ode(s):	ed wasie	3	misc. Desc	tte:: riggriow pri, asoestos, beryatum, trruanis, otner misc. health hazards, etc.) Description:	pri, uso zards, e	estos, o tc.)	mminka	Irriidiii	, other			fro	from, odd matrices, etc.)	y sample (s) trices, etc.	n.e Origin oj sampiens), type oj sne coneciea from, odd matrices, etc.)	2
Cd = Cadmium Ag= Silver Cr = Chromium MR= Misc. RCRA metals Pb = Lead	TSCA Regulated PCB = Polychlorinated biphenyls				11	111									nd Dr	Orignially collected eserved Nit collecte	y Nitrate b I in unpres trate/Nitri	Originially Nitrate by N were originally collected in unpreserved bottles, Later preserved Nitrate/Nitrite bottles were sent and collected from wells on 8/10/2023	TO

-	GEL Laboratories LLC				SAMPLE RECEIPT & REVIEW FORM
C	lient:			SI	DG/AR/COC/Work Order: 633099, 633107, 633126, 633128
R	eceived By: Anna Johnson	U			ate Received:
	Carrier and Tracking Number	V.			FedEx Express FedEx Ground UPS Field Services (Courier) Other Cooler 1 -0.6°C (Cooler 3 - 2.6°C Cooler 2-1.9°C (COOLER 4-1)
Su	spected Hazard Information	Yes	oN	*11	f Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)	Shipped as a DOT Hazardous?		1	Ha	zard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes No
B) rec	Did the client designate the samples are to be eived as radioactive?		1	COM	C notation of nationative stricters on containers equal client designation
	Did the RSO classify the samples as ioactive?		1	Ma	uximum Net Counts Observed* (Observed Counts - Area Background Counts):CPM / mR/Hr Classified as: Rad 1 Rad 2 Rad 3
	Did the client designate samples are hazardous? Did the RSO identify possible hazards?		/	It I	C notation of hazard labels on containers equal client designation. O 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?	1			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within $(0 \le 6 \text{ deg. C})$?*	/	/		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?	1			Temperature Device Serial #: IR2-21 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? YesNoNA(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? YesNoNA(If unknown, select No) Are liquid VOA vials free of headspace? YesNoNA 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?	1			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? COC form is properly signed in				Circle Applicable: Not relinquished Other (describe)
	relinquished/received sections? ments (Use Continuation Form if needed):				A STATE OF THE STA
	(00/er 5-3	1	6	(cooler 7-2.5°C
	Cooler 6-3			-	cooler 9-1.9°C
	, C1 Q J				cooler 10-0.9°C
_				_	0/0

			1					-		-	_		-		1_	V F		-			
COC Number (*): 3 Coolers	Cooler 1 of 3	Çha	in of C	ustody	adlochemi	TIES I stry I Radio Analytica Manager:	bloassay al Req	I Spec	clafty Ar	nalytics	8				2040 Char Phon	Laboratori Savage Ro leston, SC ie: (843) 55 (843) 766-	oad 29407 56-817	,			
Client Name: Georgia Power		Phone # (9:	37-344-6		rojeci	Tunuger.	Liin I	rent		ala A	nalys	in Da	-	ad (5)		in the num		f con	tainer	s for e	each test)
Project/Site Name: Plant Arkwright Ash Pond 2		Fax:	71-544	333)		Should	this		Z	\(\bar{\pi} \)	Daiys	IS Re	quest	Z	Z	Z		Z	Z		< Preservative Type (6)
Address: 241 Ralph McGill Blvd SE, Atlanta, GA 30						sample	e be	atainers	20B)	20B)	0.0	poq	fate) 993	2	Pqu	8 € €	PA (2	(a)	Mg,		
	nd Results To: jabraham@sout lgar.smith@stantec.com		EDD@st	antec.com		(If upply	or sards	er of co	1) (60)	09) 田 (60	ity (30	M Meti	i, Fi, Sul	Metals App. IV (6020B)	-228 C	7e2+/Mn2+(EPA Method 6020B) (Field Filtered)	as N (E	Mercury (7470B)	Al, K,	1	Comments (task_code: ARK-CCR-
Sample ID * For composites - indicate start and stop date/tin	*Date Collected (mm-dd-yy)	Collected (Military) (bhmm)	QC Code (2)	Field Filtered (2)	Sample Matrix (4)	Radioactive yes, please sup isotopic info.)	(7) Known o	Total number	Ag (App. I) (6020B)	Metals App. III (6020B)	Alkalinity (300.0	TDS (SM Method	Anions (Cl, Fl, Sulfate) (300.0 Rev. 2.1 1993	Metals (60	RAD 226-228 Cmbd	Fe2+ / Mn2+ (EPA Method 6020B) (Field Filtered)	Nitrate as N (EPA Method 353.2)	Mercur	Metals Al, K, Mg,		ASSMT-2023SX) 2 A.S. 8/15/23
ARK-ARGWA-19	08-08-23	1015	N	Y	WG			9	x	x	x	x	x	х	x	x	Х	X	x		
ARK-AP2-FD-01	08-08-23	NA	FD	N	WQ		整	7		x		x	x	x	x		x	x			
ARK-ARGWC-22	08-08-23	0955	N	Y	WG			9	x	x	x	x	x	x	x	x	x	x	x		
ARK-ARAMW-7	08-08-23	1150	N	Y	WG		\$ 60	9	x	x	x	x	х	x	x	x	x	x	x		
ARK-AP2-FB-01	08-08-23	1230	FB	N	WQ			7		x		Х	x	x	x		x	х			
ARK-ARAMW-9	08-08-23	1235	N	Y	WG		6	9	x	x	x	X	x	x	х	x	X	x	x		
ARK-ARAMW-2	08-08-23	1505	N .	Y	WG			9	x	х	x	x	x	x	x	x	x	x	x		
ARK-ARAMW-1	08-08-23	1600	N	Y	WG			9	x	x	x	x	x	X	x	x	x	x	x		
ARK-ARGWC-23	08-08-23	1655	N	Y	WG			9	х	х	х	х	х	х	х	х	х	x	x		
Chai	n of Custody Signatures								TAT	Requ	ested:	Not	mal:	-	Rush	:Sp	ecify:			(Su	bject to Surcharge)
Relinquished By (Signed) Print Name	Pate Received by (sig	med)	Print Nan	no .	Date		Fax Res	sults:	[]Y	es [XIN	lo									
1 Zachary by Exectary fer	1/23 2	7/m	8	1/4/2	3		Select I				of A	[]0	C Sun	nmary	11	level 1 [2	() Lev	el 2	[][evel 3	[] Level 4
3	3						_	_			Only:	Custo	dv Sei	al Inta	ct? [] Yes []	l No	Cool	or To	mn.	°C
> For sample shipping and delivery details, see Sam	nple Receipt & Review form	(SRR.)				Sample C	Collectio	n Tir	ne Zoi	ne: [X]E	stern	[]	Pacific	c [] Central	[]N	fount:	ain	[] Of	
1.) Chain of Custody Number = Client Determined 2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field 3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes 4.) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW= 5.) Sample Analysis Requested: Analytical method requested (i.e. 6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid,	the sample was field filtered or - N Surface Water, WW=Waste Water 8260B, 6010B/7470A) and number	for sample w W=Water, M of containers	as not field L=Misc L provided fo	l filtered. iquid, SO=! or each (i.e.	Soil, SD =Soil, SD =	ediment, SL=	Sludge, S	S=Soli	d Waste	, O=Oi	il, F=Fih				F=Feca	i, N=Nasal					
7.) KNOWN OR POSSIBLE HAZARDS RCRA Metals As = Arsenic Hg= Mercury Ba = Barium Se= Selenium Cd = Cadmium Ag= Silver	Characteristic Hazards L = Flammable/Ignitable CO = Corrosive RE = Reactive SCA Regulated CB = Polychlorinated	LW= (F,K,F	Waste Listed V	Vaste listed wa			Other OT=O (i.e.: H misc. h Descrip	ther /	Unkn ow pH hazar	own asbe	estos, b				s, othe	r			con	ow regi	ovide any additional details arding handling and/or disposa (i.e.: Origin of sample(s), type lected from, odd matrices, etc.)
Pb = Lead	biphenyls								-												

Tage.	Cooler 2 of	- 0110	om 1 Ch	remistry i i Custod	Radiochen y and	Ories Instry I Radi Analytic Manager	obloassay cal Rec	ues	t	nalytic	9				2040 Chai	Laborator Savage Rolleston, SC ne: (843) 55 (843) 766-	oad 29407 56-817	7			
Chient Name; Georgia Power		Phone # (9	37-344-		rojeci	Manager	: Erm	rent	_	ple A	nalys	sis Re	quest	ted (5)		in the nun	iber o	f con	tainer	s for e	ach test)
Soject/Site Name: Plant Arkwright Ash Pond 2		Fax:				Shoul	d this		Z	Z				Z	Z	Z		z	Z		<- Preservative Type (6)
Address: 241 Ralph McGill Blvd SE, Atlanta, GA	30308					samp consid		Piner) B	e e	0	p	<u> </u>		Z	4 3	4	0	<u>a</u> 6		
Collected By: John Myer; Dylan Quintal,	Send Results To: jabraham@sour edgar.smith@stantec.com	thernco.com	EDD@st	antec,com		(If		er of cont	1) (6020	. III (602(ity (300.	(SM Metho	, Fl, Sulfa	lals App. IV	-228 Cm	h2+ (EP 4 6020B) Filtered	d 353.2)	Mercury (7470B)	AI, K, N		Comments (task_code: ARK-CCR-
Sample ID * For composites - indicate start and stop date.	*Date Collected /time (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (7)	Field Filtered O	Sample Matrix ⁴	ease c inf	(7) Known or possible Hazards	Total number	Ag (App. I) (6020B)	Metals App. III (6020B)	Alkalinity (300.0	TDS (SM Method	Anions (Cl, Fl, Sulfate) (300.0 Rev. 2.1 1993	Metals (60	RAD 226-228 Cmbd	Fe2+ / Mn2+ (EPA Method 6020B) (Field Filtered)	Nitrate as N (EPA Method 353.2)	Mercur	Metals Al, K, Mg,	4	ASSMT-2023S1)2 A-S-8/15/23
ARK-ARGWA-19	08-08-23	1015	N	Y	WG			9	х	х	x	х	x	х	x	x	х	х	х		
ARK-AP2-FD-01	08-08-23	NA	FD	N	WQ		表數	7		х		x	x	х	x		х	х			
ARK-ARGWC-22	08-08-23	0955	N	Y	WG			9	х	x	х	х	X	x	x	х	x	x	x		
ARK-ARAMW-7	08-08-23	1150	N	Y	WG			9	х	x	х	х	х	х	х	х	x	x	х		
ARK-AP2-FB-01	08-08-23	1230	FB	N	WQ			7		х		x	x	х	х		х	х			
ARK-ARAMW-9	08-08-23	1235	N	Y	WG			9	x	x	x	x	x	х	х	х	х	x	х		
ARK-ARAMW-2	08-08-23	1505	N	Y	WG			9	х	x	Х	x	x	X	x	x	х	х	х		
ARK-ARAMW-1	08-08-23	1600	N	Y	WG			9	x	Х	Х	х	х	х	x	X	X_	x	x		
ARK-ARGWC-23	08-08-23	1655	N	Y	WG		ESIN TO THE	9	х	x	х	х	х	X	х	х	х	х	X		
Ct	nain of Custody Signatures	-	1	1	-			-	TAT I	Reque	sted:	Nor	mal:		Rush	Sp	ecify:			_ (Sub	ject to Surcharge)
Relinquished By (Signed) Print Name	Date Received by (sig	gned)	Print Nan		Date		Fax Res	ults:	[]Ye	es [X]N	o									
17 shay lary Each Lary 8/	9/23			8/9/8	38	:28	Select D		-	-	of A		C Sun	nmary	[]]	evel 1 [X] Leve	el 2	[][evel 3	[] Level 4
3	3								_	_	_	_				Yes []	_				_°€
> For sample shipping and delivery details, see S	Sample Receipt & Review form	(SRR.)				Sample (Collectio	n Tim	e Zon	e: []	X] Ea	stem	[]]	Pacific	[]	Central	[]M	ounta	in] Othe	r.
1.) Chain of Custody Number = Client Determined 2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Fid 3.) Field Filtered: For liquid matrices, indicate with a - Y - for y 4.) Matrix Codes: DW=Drinking Water, GW=Groundwater, SV 5.) Sample Analysis Requested: Analytical method requested (i.	ves the sample was field filtered or - N - W=Surface Water, WW=Waste Water, e. 8260B, 6010B/7470A) and number	for sample wa W=Water, M of containers p	us not field L=Misc L provided fo	filtered iquid, SO=: or each (i.e.	Soil, SD=So 8260B - 3,	ediment, SL=	=Sludge, SS 0A - 1).	⊱Solid	Waste,	0=0il,	, F=Filte				P=Fecal,	N=Nasai					
6.) Preservative Type: EA = Hydrochloric Acid, NI = Nitric Acid. 7.) KNOWN OR POSSIBLE HAZARDS RCRA Metals As = Arsenic Hg= Mercury Ba = Barium Se= Selenium Cd = Cadmium Ag= Silver	id, SH = Sodium Hydroxide, SA = Sultanacteristic Hazards FL = Flammable/Ignitable CO = Corrosive RE = Reactive TSCA Regulated	Listed LW=1 (F,K,P	Waste Listed W	laste listed wa.			Other OT= Ot (i.e.: Hi misc. he Descrip	her / gh/lor alth l	Unkno w pH,	own asbes	itos, b				other				belo cond	w regar erns. (lde any additional details ding handling and/or disposal i.e.: Origin of sample(s), type cted from, odd matrices, etc.)
	PCB = Polychlorinated biphenyls																				

Project # 175569434 GEL Quote #:		GEL				ories) Savage R					*
COC Number (1): 3 Coolers	Cooler 3 of 3	Ch:				mistry i Rad Analyti				Inalytic	S				4	rieston, SC ne: (843) 5					
PO Number:	GEL Work Order Number	Olli	2111 01			Manage				-	-	-	_	_	-	(843) 766-		/1			
Client Name: Georgia Power		Phone # (9	37-344		,					ple A	naly	sis Re	quest	ted (5)		in the nun		f con	tainer	s for	each test)
Project/Site Name: Plant Arkwright Ash Pond 2		Fax:				Shou	ld this		Z	Z				Z	Z	Z		Z	Z		< Preservative Type (6)
Address: 241 Ralph McGill Blvd SE, Atlanta, GA	30308						ple be dered:	teiocs	B	8	0	P P	3 5		2	4 . 6	1		B G	1	
Collected By: John Myer; Dylan Quintal, Houston Lynn	Send Results To: jabraham@sou edgar.smith@stantec.com	theraco.com	EDD@se	antec.com	aper -	is high	Ę	0 20	1) (6020	App. III (6020B)	ty (300	A Meth	F1, Sulfi	App. I	-228 Cm	e2+ / Mn2+ (EP/ Method 6020B) (Field Filtered)	us N (EP, d 353.2)	Mercury (7470B)	3 Al, K, Mg, Mn (6020B)		Comments (task_code: ARK-CCR-
Sample ID * For composites - indicate start and stop date	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (7)	Field	Sample Matrix (4	Radioactive yes, please sup isotopic info.)	(7) Known o possible Haz	Total number	Ag (App. I) (6020B)	Metals App	Alkalinity (300.0	TDS (SM Method	Anions (Cl, Fl, Suffate) (300.0 Rev. 2.1 1993	Metals App. IV	RAD 226-228 Cmbd	Fe2+/Mn2+(EPA Method 6020B) (Field Filtered)	Nitrate as N (EPA Method 353.2)	Mercur	Metals A		ASSMT-2023S1) ₂ A.S. 8/15/23
ARK-ARGWA-19	08-08-23	1015	N	Y	wg			9	х	х	х	х	х	х	х	x	x	х	x		
ARK-AP2-FD-01	08-08-23	NA	FD	N	wo		9.	7		x		х	x	х	x		x	x			
ARK-ARGWC-22	08-08-23	0955	N	Y	WG			9	x	x	x	х	x	х	x	х	x	х	x		
ARK-ARAMW-7	08-08-23	1150	N	Y	WG		j:~	9	x	х	x	x	x	x	x	x	x	x	x		
ARK-AP2-FB-01	08-08-23	1230	FB	N	wQ			7		х		х	x	х	х		х	x			
ARK-ARAMW-9	08-08-23	1235	N	Y	WG			9	x	x	x	х	x	х	х	x	х	х	х		
ARK-ARAMW-2	08-08-23	1505	N	Y	wG			9	х	x	x	x	x	x	х	X	х	х	x		
ARK-ARAMW-1	08-08-23	1600	N	Y	WG			9	x	х	x	x	x	x	x	x	x	x	x		
ARK-ARGWC-23	08-08-23	1655	N	Y	WG			9	x	х	x	X	x	x	х	X	x	x	x		
							3 7														
CI	nain of Custody Signatures							7	AT R	leques	sted;	Non	nal:_		Rusb:	Spe	cify:			(Sab	oject to Surcharge)
Relinquished By (Signed) Print Name	Date Received by (sign	ned) F	riot Nam	e D	ate		Fax Res	ults: [] Ye	s [)	K] No										
1 Zochen Levy Fach Levy 1	19/23	1		8/9	435	1:25	Select D	eliver	able: [1C0	fA]	[]QC	Sum	nary	[] le	vel 1 [X]	Leve	12 [] Lev	rel 3	[] Level 4
2	2						Addition	al Rei	narks:		_										
3	3		_	_												Yes [] [℃
> For sample shipping and delivery details, see Si	ample Receipt & Review form	(SRR.)		_		Sample C	ollectio	n Jumi	Zone	:: [X	J has	tem	[] Pa	acific	[](Central [] Mc	untaii	n [] Othe	er;
1.) Chain of Custody Number = Client Determined 2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Fie 3.) Field Filtered: For liquid matrices, indicate with a - Y - for you. 1.) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW 1.) Sample Analysis Requested: Analytical method requested (i.e.)	es the sample was field filtered or - N - 1 =Surface Water, WW=Waste Water, N : 8260B, 6010B/7478A) and number of	or sample was V=Water, MI containers pr	not field for	iltered. uid, SO=So each (i.e. 82	nil, SD=S& 260B - 3, (timent, SL=5	Sludge, SS	=Solid \	¥aste, C	D≔Oi), F	=Filter				Fecal, i	(=Nasal					
) Preservative Type: BA = Hydrochloric Acid, NI = Nitric Acid, NI		Listed		Acid, HX =	Hexane,		Other	te, If no	preserv	ative is	added :	= leave	field bla	nk							
CRA Metals s = Arsenic Hg= Mercury a = Barium Se= Selenium d = Cadmium Ag= Silver	Characteristic Hazards FL = Flammable/Ignitable CO = Corrosive RE = Reactive TSCA Regulated PCB = Polychlorinated	LW=L	sted Wa and U-lis	ste sted waste	es.)	(OT= Otl (i.e.: Hig misc. he Descript	gh∕low alth ha	pН, а	sbesto	s, ber	yllium	ı, irrite	ants, d	other				below concer	regari	ide any additional detalls ding handling and/or disposal i.e.: Origin of sample(s), type cted from, odd matrices, etc.)
r = Chromium MR= Misc. RCRA metals b = Lead	biphenyls			, ×		-					4				_						

ne =:		G	EL	110	har	oto.										-	Laborator		C		500	10-	THE REAL PROPERTY.
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mber 2 Coolers	Cooler 1		Chain	of Cu	stodu:	iochemis and A	nalytica	I Dog	Speci	alty Are	tytica				- 1		eston, SC				r	Of	2
Name: Georgia Power	GEL Work Ord	er Number:		0.00	GEL P	roiea l	lanager	Frin	Trent	-	-						e: (843) 55		1		1	VT	2
		F	Phone = (937	-344-65	33)	T			7,04	_	anle :	Analy	rie D	*****		_	843) 766- in the nu	_	~£ ~	wien.	es for es	ch tect)	THE RESERVE AND IN
USite Name, Plant Arkwright Ash Pond 2			Fax							34.	pie /	Tues,	אמב	tque:	icu	(FIII	шшеш	T	01 40	T	T	ur tost)	100
			7200			- 1	Shoold	this		ž	ž	ž			Z	Z	Ī		Z	Z		<-Pre>←Pres	ervative Type (6)
ess: 241 Ralph McGill Blvd SE, Atlanta, G	A 30308						sampl	le be	Pe 1	<u>~</u>	2			_		_	7				-		
cted By: John Myer, Dylan Quintal, Dylan y, Houston Lynn	Send Results To edgar smith@star	pprayan Geom	berneo.com E	DD@star	ntec.com		consid	ered:	of conta	1) (602013)	III (6020L	(3000)	Method C)	7, Sulfate 2 1 1993	71 dd (817	28 Cmb	2+ (EPA 09) (Fiel ed)		747013)	K. Mg.			omments
Sample ID • For composites - indicate start and stop	1	Date Collected	"Time Collected (Military) (Mann)	QC Code as	Field Filtered ^{OX}	Sample Marra	Radioactive yes, plosse suj syciopic info.)	(7) Known or possible Hara	Total number of containers	Ag(App I	Metals App 111 (6020U)	Alkalıniry (300.0 R2.1)	TIDS (SM 2540	Antons (Cl. Fl, Sulfate) (300 0 Ray 2 1 1993	Metals App. (6020H)	KAD 226-228 Cmbd	Fo2+ / Mn2+ (FPA Method 6020B) (Flebd Filtered)		Mercury (747013)	Metals Al. K. Mg.		ASSM	ME: ARK-CCR- MT-202351) 8/15/23
ARK-ARGWC-21		08-09-23	1035	N	Y	WG				Х	x	x	х	х	x	x	x		х	x			te/Nitrite COC
ARK-AP2-EB-01		08-09-23	1110	FB	N	wQ				7	x		x	x		x			x		10 19	for their ti	
ARK-ARAMW-8		08-09-23	1115	N	Y	WG				9 X	x	x	x	x		x	x		x	x			
ARK-ARGWA-20		08-10-23	0925	N	Y	WG		100		0 x	x	x	x	x		x	Y		x	x			
ARK-STNTW-22		08-10-23	1255	N	Y	WG	İ			6 X	x	x	1	x	Y		^		Y	Y		Add anion col	llected at 0825 8/11/23
										1	1	+		1			-		1	1			
					1	1				+	+	1	1							+			
AND THE PROPERTY.			1	1		+	+			+	+	+	+		\vdash			\vdash		+			
			1	+		+	1	+		+	+	+	+	+	+			\vdash	1	+		1	
				+	+	+	+			+	+	+	+	+				+	\vdash	+			
	Chain of Cus	tody Signatu	Ires				_		_	T	AT R	equest	ted:	Norm	al;	R	sh:	Speci	fv:	_	(Subi	ect to Sarchi	arge)
Relinquished By (Signed) Print Nam		Received b		Print !	ame	Date		Eav	Result	_		_		CO., E.T.					-				
1 Kindlow Fornik	1ex 8/11/23	idnel	er Ar	Thur	Lucir	a 3	111/2							DC Sur	חמת	1.11	evel 1 D	() Leve	12 [lle	el 3 1	evel 4	
2 0		2	-	•	,			-	anona:														
3		3						For	Lab A	eceivis	ng Use	e Only	: Cus	ody Se	al Inta	ct? [Yes [No	Coole	r Ton	p;	C	
> For sample shipping and delivery deta	ils, see Sample Rece	dpi & Review	form (SRR.)				Samp	Le Colle	rion i	Tone Z	one:	[X]E	astern		Pacific	: []	Central	[]M	ountai	in [Other:		
1) Chain of Custody Number = Client Determines 2) QC Codes N=Normal Sample, TB = Trip B 3) Field Filtered For liquid mannes, indicate w 4) Matrix Codes DW=Drinking Water, GW=Gr 5.) Sample Analysis Requested Analytical meth	ank, FD * Field Duplicate th a - Y - for yes the samp oundwater, SW=Surface to od requested (i.e. 8260B.	ple was field filters Water, WW=Wast 6010B/7470A) an	ed or - N - for sac te Water, W#Wa d number of con	nple was n ner, ML+); cuicess pro	on field filie fine Liquid, vided for ea	50=501, ch (i e 82	SD-Sedimon 608 - 3, 607	08 7 17 O	uoge, SS I - 1)	-Solid N	Nasz, (D-O-L F	F=Filter				Focal, N=Nas	al					
6.) Preservative Type HA = Hydrochlone Acid. 7.) KNOWN OR POSSIBLE HAZAF	DS Charac	odium Hydroxide. teristie Hazar ammable/Ignit	ds L	isted Wi	Ascorbic Ad aste ed Waste		House ST	0	tber T= Oth	o / Ud	know	n .					9.7			rq	garding k	andling and/o	onal details below or disposal concern
RCRA Metals As = Arsenic Hg= Mercury Re = Barium Se= Selenium		Corrosive Leactive	-	Vaste con	d U-listed de(s):	l wastes.		m.	e.: Hig isc. hea coup	dih ha			, beryl	lium, i	miant	s, othe	r					of sample(s), atrices, etc.)	type of site collected
Cd = Cadmium Ag= Silver Cr = Chromium MR= Misc. RCRA		Regulated Polychlonnate biphenyls	<u> </u>					=									Ξ			2	collection and l	d in works	N were originally wed bottles; Later bottles were sent an
Pb = Lead									-					-	-			-			colle	and from wel	ls on \$/10/2023

Page: 2 of 2 Project # 175569434 GEL Quote #: 2 Coolers			om i Ch	ustod	y and	Ories Intestry I Rac Analyti	cal Re	y i Speci quest		stytics				2040 S		oad 29407 6-817			4	00 ler 0 F 2
PO Number:	GEL Work Order Number				Project	Manage	r: Erin	Trent	•		Lucia	Dann		S CEIL	n the m	mher	of cont	ainers	s for eac	ch test)
Client Name: Georgia Power		Phone # (9	37-344-6	533)			_	1	San	pie An	uysus	Requ	Sicu	T I	II dio III			T		<- Preservative Type (6)
Project/Site Name: Plant Arkwright Ash Pond 2 N	itrate/Nitrite COC	Fax					ld mbis				-					SA		4		<= Preservative Type (o)
Address: 241 Ralph McGill Blvd SE, Atlanta, GA	30308						de be dered:	containers								EPA				Cte
Collected By: John Myer, Dylan Quintal, Dylan Ripley, Houston Lynn	Send Results To: jabraham@sou odgar.smith@stantec.com	theruco.com	EDD@st	estec.com	,	(If iupply	de ride	5								Nitrate/Nitrite (EPA Method 353.2)				Comments (task code: ARK-CCR-
Sample ID * For composites - tridicate start and stop dat	*Date Collected	"Time Collected (Military) (hhmm)	QC Code ⁽²⁾	Freid Filtered O	Sample Matrix (5	Radioactive yes, please su isosopie info,	(7) Known or possible flass	Total sumber								Nitrate				ASSMT-2023Sk) A-S. 8/15/23 ²
ARK-ARGWC-21	08-10-23	1947	N	N	WG			ı								х		-		
ARK-AP2-EB-01	08-10-23	1925	FB	N	WQ			1			1				15	X				
ARK-ARAMW-8	08-10-23	1936	N	N	WG			1								х		_		
ARK-ARGWA-20	08-10-23	1953	N	N	WG			1								х				
ARK-STNTW-22	08-10-23	1935	N	N	WG			1								х				
												1	No.			1	-			
							11-													
																	1			
									1		1									
							500					100	10							
	hain of Custody Signatures		-		1	_			TAT	Request	ed:	Young	J:	Rush:	8	pecify	1		(Subject	et to Surcharge)
Relinquished By (Signed) Print Name	Date Received by (si		Print Nazz	ie	Date		Fay Des	rulte: [[X]N										
198mmm John Mxir	8/11/23 John W	in Am	Hony	Ward	8/1	1/23						C Sum	mary	[] level	1 [X]	Level 2	2 [] L	evel 3	Le	vel 4
2	2	7.10.	1					nai Ren			111									
3	3						For La	b Recei	ving U	se Only:	Сило	dy Sea	l Intaci	? [] Yes	[]N	o Ca	oler Te	пр:	℃	
> For sample shipping and delivery details, see	Sample Receips & Review form	(SRR.)		10.00	200	Sample	Collectio	n Time	Zone	[X]E	stem	[]P	acific	[]Cen	tral [1 Mou	ntaio]0	her:	
1) Chain of Custody Number = Client Determined 2) QC Codes: N = Normal Sample, TB = Trip Blank, FD = 3) Field Filtered: For liquid matrices, indicate with a - Y - fi 4) Matrix Codes: DW=Drinking Water, GW=Groundwater, 5) Sample Analysis Requested: Analytical method requested 6) Preservative Type: HA = Hydrochloric Acid, NI = Nitric.	or yes the sample was field filtered or - ! SW=Surface Water, WW=Waste Water it (i = \$260B, 6010B/7470A) and numb	N - for sample : r, W=Water, M er of container	was not find IL=Misc L s provided	ld filtered. iquid, SO- for each (i	Soii, SD=: e. 82608 -	Sediment, \$1	-Sindge. (704 - 1)	SS=Solid	Waste	0=0:l, F=	Filter, P	•		P=Fecal, !	v=Nasal					
7.) KNOWN OR POSSIBLE HAZARDS	Characteristic Hazards	Listed	Waste				Other						-				P	lease	provide	any additional details below
RCRA Metals	FL = Flammable/Ignitable CO = Corrosive		Listed W and U-L		ites.)		OT-O			n bestos, b	مرازموم	- Leve	(Amrie o	t hon			n	gard	ing hand	dling and/or disposal concerns.
As = Arsenic Hg= Mercury Ba = Barium Se= Selenium	RE = Reactive		code(s):				misc. he Descrip	ealth ha	cards,	esc.j	er yızın	m, 1771	terns, c	uner						sample(s), type of site collected (sices, etc.)
Cd = Cadmium Ag = Silver Cr = Chromium MR = Misc, RCRA metals Pb = Lead	TSCA Regulated PCB = Polychlorinated biphenyls				9		=							_				C	ollected i	Nitrate by N were originally in unpreserved bottles, Later

Page Pro GE CI PI CI PI I A IC F

List of current GEL Certifications as of 08 September 2023

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
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	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122023-4
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2022-160
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	T104704235-22-20
Utah NELAP	SC000122022-37
Vermont	VT87156
Virginia NELAP	460202
Washington	C780



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gel.com

August 24, 2023

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

Re: Arkwright CCR Groundwater Compliance AP2

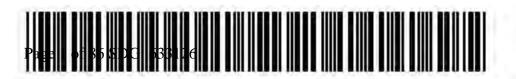
Work Orders: 633126 and 632699

Dear Joju Abraham:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on August 09, 2023 and August 11, 2023. 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 Recieved
632699001	ARK-ARGWA-19	Ground Water	08/08/23 10:15	09/08/23 12:45
632699002	ARK-AP2-FD-01	Water	08/08/23 12:00	09/08/23 12:45
632699003	ARK-ARGWC-22	Ground Water	08/08/23 09:55	09/08/23 12:45
632699004	ARK-ARAMW-7	Ground Water	08/08/23 11:50	09/08/23 12:45
632699005	ARK-AP2-FB-01	Water	08/08/23 12:30	09/08/23 12:45
632699006	ARK-ARAMW-9	Ground Water	08/08/23 12:35	09/08/23 12:45
632699007	ARK-ARAMW-2	Ground Water	08/08/23 15:05	09/08/23 12:45
632699008	ARK-ARAMW-1	Ground Water	08/08/23 16:00	09/08/23 12:45
632699009	ARK-ARGWC-23	Ground Water	08/08/23 16:55	09/08/23 12:45
633126001	ARK-ARGWC-21	Ground Water	09/08/23 10:35	11/08/23 14:00
633126002	ARK-AP2-EB-01	Water	09/08/23 11:10	11/08/23 14:00
633126003	ARK-ARAMW-8	Ground Water	09/08/23 11:15	11/08/23 14:00
633126004	ARK-ARGWA-20	Ground Water	10/08/23 09:25	11/08/23 14:00
633126005	ARK-STNTW-22	Ground Water	10/08/23 12:55	11/08/23 14:00
633126006	ARK-ARGWC-21	Ground Water	09/08/23 10:35	11/08/23 14:00
633126007	ARK-AP2-EB-01	Water	09/08/23 11:10	11/08/23 14:00



633126008	ARK-ARAMW-8	Ground Water	09/08/23 11:15	11/08/23 14:00
633126009	ARK-ARGWA-20	Ground Water	10/08/23 09:25	11/08/23 14:00
633126010	ARK-STNTW-22	Ground Water	10/08/23 12:55	11/08/23 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	10-AUG-2023
SW846 3005A	14-AUG-2023
SW846 7470A Prep	10-AUG-2023
SW846 7470A Prep	14-AUG-2023

Analysis Methods and Analysis Dates

Method	Run Date ID
EPA 300.0	09-AUG-2023
EPA 300.0	10-AUG-2023
EPA 300.0	12-AUG-2023
EPA 300.0	13-AUG-2023
EPA 300.0	14-AUG-2023
EPA 300.0	15-AUG-2023
EPA 353.2 Low Level	11-AUG-2023
EPA 353.2 Low Level	14-AUG-2023
SM 2320B	11-AUG-2023
SM 2320B	14-AUG-2023
SM 2540C	10-AUG-2023
SM 2540C	16-AUG-2023
SW846 3005A/6020B	17-AUG-2023
SW846 3005A/6020B	18-AUG-2023
SW846 3005A/6020B	19-AUG-2023
SW846 7470A	11-AUG-2023
SW846 7470A	15-AUG-2023

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. 4504.

Sincerely,

Anna Johnson for Erin Trent

Project Manager

Purchase Order: GPC82177-0005

Enclosures

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

Certificate of Analysis Report for

GPCC001 Georgia Power Company Client SDG: 632699 GEL Work Order: 632699

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, Erin Trent.

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

Certificate of Analysis Report for

GPCC001 Georgia Power Company Client SDG: 633126 GEL Work Order: 633126

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, Erin Trent.

Page 5 of 86 SDG: 633126

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

Certificate of Analysis

Report Date: August 21, 2023

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

Atlanta, Georgia 30308

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceAP2

Client Sample ID: ARK-ARGWA-19

Sample ID: 632699001

Matrix: WG

Collect Date: 08-AUG-23 10:15
Receive Date: 09-AUG-23
Collector: Client

Project: GPCC00100 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analy	st Date	Time	e Batch	Method
Ion Chromatography												
EPA 300.0 Anions Li	quid "As Recei	ived"										
Chloride	•	6.37	0.0670	0.200	mg/L		1	LXA2	08/09/23	2255	2473965	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate		8.29	0.133	0.400	mg/L		1					
Mercury Analysis-CV	/AA											
7470 Cold Vapor Me	rcury, Liquid "A	As Received"										
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/11/23	1025	2474015	2
Metals Analysis-ICP-	·MS											
SW846 3005A/6020E	B "As Received	."										
Aluminum	U	ND	0.0193	0.0500	mg/L	1.00	1	PRB	08/19/23	0313	2474005	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		0.0337	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron		0.0199	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		8.51	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	J	0.00382	0.00300	0.0100	mg/L	1.00	1					
Magnesium		3.36	0.0100	0.0300	mg/L	1.00						
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000421	0.000200	0.00100	mg/L	1.00	1					
Potassium		2.08	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		9.51	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		1.83	0.0350	0.100	mg/L		5	AXH3	08/11/23	1135	2473982	4
Solids Analysis					=							
•	SM2540C Dissolved Solids "As Received"											
		-										

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

Certificate of Analysis

Report Date: August 21, 2023

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

Atlanta, Georgia 30308

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceAP2

Client Sample ID: ARK-ARGWA-19 Project: GPCC00100 Sample ID: 632699001 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF Analy	yst Date	Time Batch	Method
Solids Analysis										
SM2540C Dissolved Se	olids "As Rec	eived"								
Total Dissolved Solids		62.0	2.38	10.0	mg/L		CH6	08/10/23	1435 2474115	5
Titration and Ion Analy	rsis									
SM 2320B Total Alkalinity "As Received"										
Alkalinity, Total as CaCO3		37.0	0.725	2.00	mg/L		HH2	08/11/23	0956 2474137	6
Bicarbonate alkalinity (CaCC	03)	37.0	0.725	2.00	mg/L					
Carbonate alkalinity (CaCO3) U	ND	0.725	2.00	mg/L					
The following Prep Me	thods were p	erformed:								
Method	Description	n		Analyst	Date		Time Pr	rep Batch		
SW846 7470A Prep	EPA 7470A I	Mercury Prep Liquid		EK1	08/10/23		1245 24	74012		
SW846 3005A	ICP-MS 3005	5A PREP		JD2	08/10/23		0815 24	74004		

The following Analytical Methods were performed:

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

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

Page 7 of 86 SDG: 633126

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

Certificate of Analysis

Project:

Client ID:

Report Date: August 21, 2023

GPCC00100

GPCC001

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

Atlanta, Georgia 30308

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceAP2

Client Sample ID: ARK-AP2-FD-01

Sample ID: 632699002

Matrix: WG

Collect Date: 08-AUG-23 12:00 Receive Date: 09-AUG-23

Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analy	st Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liqu	iid "As Recei	ved"										
Chloride		6.27	0.0670	0.200	mg/L		1	LXA2	08/09/23	2326	2473965	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate		8.34	0.133	0.400	mg/L		1					
Mercury Analysis-CVA	ιA											
7470 Cold Vapor Merci	ury, Liquid "A	As Received"										
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/11/23	1026	2474015	2
Metals Analysis-ICP-M	[S				Ü							
SW846 3005A/6020B "		"										
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	08/19/23	0338	2474005	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0334	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron		0.0183	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		8.36	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	J	0.00368	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	J	0.000361	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, N	itrate/Nitrite	"As Received"										
Nitrogen, Nitrate/Nitrite		1.89	0.0350	0.100	mg/L		5	AXH3	08/11/23	1138	2473982	4
Solids Analysis												
SM2540C Dissolved So	olids "As Rec	eived"										
Total Dissolved Solids		67.0	2.38	10.0	mg/L			CH6	08/10/23	1435	2474115	5
The following Prep Me	thods were pe	erformed:										
Method	Description			Analyst	Date	7	Γime	e Pro	ep Batch			
SW846 3005A	ICP-MS 3005			JD2	08/10/23)815		74004			
		Mercury Prep Liquid		EK1	08/10/23	,	1245					

Page 8 of 86 SDG: 633126

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

Certificate of Analysis

Report Date: August 21, 2023

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

Atlanta, Georgia 30308

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceAP2

Client Sample ID: ARK-AP2-FD-01 Project: GPCC00100 Sample ID: 632699002 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF Analyst Date	Time Batch	Method
The following Analytic	cal Methods v	were performed:							
Method	Description Analyst Comments						st Comments		
1	EPA 300.0								
2	SW846 7470A	A							
3	SW846 3005A	A/6020B							
4	EPA 353.2 Lo	ow Level							
5	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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2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: August 21, 2023

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

Atlanta, Georgia 30308

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceAP2

Client Sample ID: ARK-ARGWC-22

Sample ID: 632699003

Matrix: WG

Collect Date: 08-AUG-23 09:55
Receive Date: 09-AUG-23
Collector: Client

Project: GPCC00100 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analy	st Date	Time Batch	Method
Ion Chromatography											
EPA 300.0 Anions Liqu	uid "As Recei	ved"									
Sulfate		719	13.3	40.0	mg/L		100	LXA2	08/09/23	2357 2473965	1
Fluoride	U	ND	0.0660	0.200	mg/L		2	LXA2	08/15/23	1906 2473965	2
Chloride		6.79	0.670	2.00	mg/L		10	LXA2	08/10/23	1241 2473965	3
Mercury Analysis-CVA	AΑ										
7470 Cold Vapor Merc	ury, Liquid "A	As Received"									
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/11/23	1028 2474015	4
Metals Analysis-ICP-M	1S										
SW846 3005A/6020B '		"									
Boron		2.46	0.104	0.300	mg/L	1.00	20	PRB	08/19/23	0810 2474005	5
Calcium		180	1.60	4.00	mg/L	1.00					
Magnesium		76.5	0.200	0.600	mg/L	1.00	20				
Manganese		13.1	0.0200	0.100	mg/L	1.00	20				
Aluminum	U	ND	0.0193	0.0500	mg/L	1.00	1	PRB	08/19/23	0341 2474005	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		0.0249	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		0.00191	0.000300	0.00100	mg/L	1.00	1				
Iron		3.67	0.0330	0.100	mg/L	1.00	1				
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1				
Lithium		0.0214	0.00300	0.0100	mg/L	1.00	1				
Molybdenum	J	0.000452	0.000200	0.00100	mg/L	1.00	1				
Potassium		4.44	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		24.6	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, N	itrate/Nitrite	"As Received"									
Nitrogen, Nitrate/Nitrite	U	ND	0.00700	0.0200	mg/L		1	AXH3	08/11/23	1139 2473982	7
Solids Analysis					-						
SM2540C Dissolved So	olids "As Rec	eived"									

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

Certificate of Analysis

Report Date: August 21, 2023

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

Atlanta, Georgia 30308

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceAP2

Client Sample ID: ARK-ARGWC-22 Project: GPCC00100 Sample ID: 632699003 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF Anal	yst Date	Time Batch	Method
Solids Analysis										
SM2540C Dissolved	Solids "As Rec	eived"								
Total Dissolved Solids		1220	4.76	20.0	mg/L		CH6	08/10/23	1435 2474115	8
Titration and Ion Ana	ılysis									
SM 2320B Total Alka	alinity "As Reco	eived"								
Alkalinity, Total as CaCO3	3	117	0.725	2.00	mg/L		HH2	08/11/23	1001 2474137	9
Bicarbonate alkalinity (Ca	CO3)	117	0.725	2.00	mg/L					
Carbonate alkalinity (CaCo	O3) U	ND	0.725	2.00	mg/L					
The following Prep M	Methods were pe	erformed:								
Method	Description	1		Analyst	Date	-	Гime Р	rep Batch		
SW846 7470A Prep	EPA 7470A N	Mercury Prep Liquid		EK1	08/10/23	1	1245 2	474012		
SW846 3005A	ICP-MS 3005	A PREP		JD2	08/10/23	(0815 2	474004		

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	·
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
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 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

Project:

Client ID:

Report Date: August 21, 2023

GPCC00100

GPCC001

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 AP2

Client Sample ID: ARK-ARAMW-7

Sample ID: 632699004

Matrix: WG

Collect Date: 08-AUG-23 11:50
Receive Date: 09-AUG-23
Collector: Client

Parameter **Oualifier** DL RL Units PF DF Analyst Date Time Batch Method Result Ion Chromatography EPA 300.0 Anions Liquid "As Received" Chloride 5.50 0.0670 0.200 mg/L 1 LXA2 08/10/23 0028 2473965 1 Fluoride 0.0330 U ND 0.100 mg/L Sulfate 1060 13.3 40.0 100 LXA2 08/10/23 1311 2473965 2 mg/L Mercury Analysis-CVAA 7470 Cold Vapor Mercury, Liquid "As Received" Mercury ND 0.0000670 0.000200 mg/L 1.00 1 JP2 08/11/23 1029 2474015 3 Metals Analysis-ICP-MS SW846 3005A/6020B "As Received" 0.0265 0.0193 0.0500 PRB 08/19/23 0345 2474005 Aluminum mg/L 1.00 1 Antimony U ND 0.00100 0.00300 mg/L 1.00 1 Arsenic U ND 0.002000.00500mg/L 1.00 1 0.000670 0.00400 1.00 Barium 0.0244 mg/L 1 0.000272 Beryllium 0.000200 0.000500 mg/L1.00 1 J mg/L Cadmium U 0.000300 0.00100 1.00 1 ND mg/L Chromium U ND 0.00300 0.0100 1.00 1 Cobalt 0.00100 1.00 0.0605 0.000300 mg/L 4.04 0.0330 0.100 mg/L 1.00 1 Iron U 0.00200 Lead ND 0.000500 mg/L 1.00 1 Lithium 0.0577 0.0100 1.00 0.00300 mg/L 1 U ND 0.00100 mg/L1.00 Molybdenum 0.000200 1 Potassium 8.74 0.0800 0.300 mg/L 1.00 1 0.00500Selenium U ND 0.00150mg/L 1.00 1 Silver U ND 0.000300 0.00100 1.00 1 mg/L Sodium 26.1 0.08000.250 mg/L1.00 1 U ND 0.00200 Thallium 0.000600 mg/L 1.00 1 2.25 0.104 0.300 mg/L 1.00 20 PRB 08/19/23 0814 2474005 5 Boron Calcium 279 1.60 4.00 1.00 20 mg/L 0.600 mg/LMagnesium 73.8 0.200 1.00 20 14.3 0.0200 0.100 1.00 20 Manganese mg/L **Nutrient Analysis** EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received" Nitrogen, Nitrate/Nitrite ND 0.00700 0.0200 mg/L AXH3 08/11/23 1141 2473982 Solids Analysis

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SM2540C Dissolved Solids "As Received"

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

Certificate of Analysis

Report Date: August 21, 2023

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

Atlanta, Georgia 30308

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceAP2

Client Sample ID: ARK-ARAMW-7 Project: GPCC00100
Sample ID: 632699004 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF Anal	yst Date	Time Batch	Method
Solids Analysis										
SM2540C Dissolved	Solids "As Rec	eived"								
Total Dissolved Solids		1620	4.76	20.0	mg/L		CH6	08/10/23	1435 2474115	7
Titration and Ion An	alysis									
SM 2320B Total Alk	calinity "As Rece	eived"								
Alkalinity, Total as CaCO	3	55.3	0.725	2.00	mg/L		HH2	08/11/23	1004 2474137	8
Bicarbonate alkalinity (Ca	CO3)	55.3	0.725	2.00	mg/L					
Carbonate alkalinity (CaC	(O3) U	ND	0.725	2.00	mg/L					
The following Prep I	Methods were pe	erformed:								
Method	Description	1		Analyst	Date	-	Γime F	rep Batch		
SW846 3005A	ICP-MS 3005	A PREP		JD2	08/10/23	(0815 2	474004		
SW846 7470A Prep	EPA 7470A N	Mercury Prep Liquid		EK1	08/10/23	1	1245 2	474012		

Analyst Comments

The following Analytical Methods were performed:

Method	Description
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 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

Project:

Client ID:

Report Date: August 21, 2023

GPCC00100

GPCC001

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

Atlanta, Georgia 30308

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceAP2

Client Sample ID: ARK-AP2-FB-01

Sample ID: 632699005

Matrix: WQ

Collect Date: 08-AUG-23 12:30 Receive Date: 09-AUG-23

Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analy	st Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions L	iquid "As Recei	ved"										
Chloride	U	ND	0.0670	0.200	mg/L		1	LXA2	08/10/23	0059	2473965	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-C	VAA											
7470 Cold Vapor Me	rcury, Liquid "A	As Received"										
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/11/23	1031	2474015	2
Metals Analysis-ICP	-MS				J							
SW846 3005A/60201		"										
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	08/19/23	0349	2474005	3
Arsenic	Ü	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					
Boron		0.0397	0.00520	0.0150	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	AXH3	08/11/23	1142	2473982	4
Solids Analysis												
SM2540C Dissolved	Solids "As Rec	eived"										
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			CH6	08/10/23	1435	2474115	5
The following Prep N	Methods were pe	erformed:			Č							
Method	Description	n		Analyst	Date	7	Γim	e Pro	ep Batch			
SW846 3005A	ICP-MS 3005			JD2	08/10/23	(0815		74004			
SW846 7470A Prep	EPA 7470A I	Mercury Prep Liquid		EK1	08/10/23		1245		74012			

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

Certificate of Analysis

Report Date: August 21, 2023

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

Atlanta, Georgia 30308

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceAP2

Client Sample ID: ARK-AP2-FB-01 Project: GPCC00100 Sample ID: 632699005 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF Analyst Date	Time Batch	Method
The following Analy	tical Methods v	were performed:							
Method	Description	1				Analy	st Comments		
1	EPA 300.0					-			
2	SW846 7470A	A							
3	SW846 3005A	A/6020B							
4	EPA 353.2 Lo	ow Level							
5	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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2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: August 21, 2023

GPCC00100

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

Atlanta, Georgia 30308

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceAP2

Client Sample ID: ARK-ARAMW-9

Sample ID: 632699006

Matrix: WG

Collect Date: 08-AUG-23 12:35
Receive Date: 09-AUG-23
Collector: Client

632699006 Client ID: GPCC001 WG

Project:

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analy	st Date	Time Batch	Method
Ion Chromatography											
EPA 300.0 Anions Liqu	id "As Recei	ved"									
Chloride		36.1	3.35	10.0	mg/L		50	LXA2	08/10/23	1342 247396	5 1
Sulfate		477	6.65	20.0	mg/L		50				
Fluoride		0.837	0.0330	0.100	mg/L		1	LXA2	08/10/23	0130 247396	5 2
Mercury Analysis-CVA	A										
7470 Cold Vapor Mercu	ıry, Liquid "A	As Received"									
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/11/23	1036 247401	5 3
Metals Analysis-ICP-M	S										
SW846 3005A/6020B ".	As Received'	"									
Aluminum	U	ND	0.0193	0.0500	mg/L	1.00	1	PRB	08/19/23	0352 247400	5 4
Antimony	J	0.00156	0.00100	0.00300	mg/L	1.00	1				
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1				
Barium		0.0142	0.000670	0.00400	mg/L	1.00	1				
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1				
Boron		0.0631	0.00520	0.0150	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		0.412	0.0330	0.100	mg/L	1.00	1				
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1				
Lithium	J	0.00829	0.00300	0.0100	mg/L	1.00	1				
Magnesium		9.49	0.0100	0.0300	mg/L	1.00	1				
Manganese		0.159	0.00100	0.00500	mg/L	1.00	1				
Molybdenum		0.0106	0.000200	0.00100	mg/L	1.00	1				
Potassium		7.18	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				
Calcium		139	0.800	2.00	mg/L	1.00	10	PRB	08/19/23	0821 247400	5 5
Sodium		95.7	0.800	2.50	mg/L	1.00	10				
Nutrient Analysis											
EPA 353.2 Nitrogen, Ni	itrate/Nitrite '	"As Received"									
Nitrogen, Nitrate/Nitrite	U	ND	0.00700	0.0200	mg/L		1	AXH3	08/11/23	1143 247398	2 6
Solids Analysis					-						
SM2540C Dissolved So	olids "As Reco	eived"									

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

Certificate of Analysis

Report Date: August 21, 2023

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

Atlanta, Georgia 30308

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceAP2

Client Sample ID: ARK-ARAMW-9 Project: GPCC00100 Sample ID: 632699006 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF Analys	t Date	Time Batch	Method
Solids Analysis										
SM2540C Dissolved So	lids "As Rec	eived"								
Total Dissolved Solids		852	4.76	20.0	mg/L		CH6	08/10/23	1435 2474115	7
Titration and Ion Analys	sis									
SM 2320B Total Alkalin	nity "As Rec	eived"								
Alkalinity, Total as CaCO3		91.1	0.725	2.00	mg/L		HH2	08/11/23	1007 2474137	8
Bicarbonate alkalinity (CaCO	3)	91.1	0.725	2.00	mg/L					
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L					
The following Prep Met	hods were pe	erformed:								
Method	Description	n		Analyst	Date		Time Pre	p Batch		
SW846 3005A	ICP-MS 3005	SA PREP		JD2	08/10/23		0815 2474	4004		
SW846 7470A Prep	EPA 7470A N	Mercury Prep Liquid		EK1	08/10/23		1245 2474	4012		

The following Analytical Methods were performed:

The following F	Anarytical 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 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

Project:

Client ID:

Report Date: August 21, 2023

GPCC00100

GPCC001

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 AP2

Client Sample ID: ARK-ARAMW-2

Sample ID: 632699007

Matrix: WG

Collect Date: 08-AUG-23 15:05
Receive Date: 09-AUG-23
Collector: Client

RL Parameter **Oualifier** DL Units PF DF Analyst Date Time Batch Method Result Ion Chromatography EPA 300.0 Anions Liquid "As Received" Sulfate 243 6.65 20.0 mg/L LXA2 08/10/23 1413 2473965 1 0.200 Chloride 3.35 0.0670 mg/L LXA2 08/10/23 0200 2473965 2 1 Fluoride 0.0571 0.0330 0.100 mg/L Mercury Analysis-CVAA 7470 Cold Vapor Mercury, Liquid "As Received" Mercury ND 0.0000670 0.000200 mg/L 1.00 1 JP2 08/11/23 1038 2474015 3 Metals Analysis-ICP-MS SW846 3005A/6020B "As Received" 1.07 0.104 0.300 20 PRB 08/19/23 Boron mg/L 1.00 0825 2474005 Calcium 87.1 4.00 mg/L 1.00 20 1.60 0.0500 Aluminum 0.0505 0.0193 mg/L 1.00 1 PRB 08/19/23 0356 2474005 5 U 0.00100 0.00300 1.00 Antimony ND mg/L 1 0.0120 0.00200 0.00500 mg/L1.00 1 Arsenic mg/L Barium 0.0753 0.000670 0.00400 1.00 1 mg/L Beryllium U ND 0.000200 0.0005001.00 1 0.00100 1.00 Cadmium U ND 0.000300 mg/L Chromium U ND 0.00300 0.0100 mg/L 1.00 1 Cobalt 0.002230.000300 0.00100 mg/L 1.00 1 0.100 1.00 Iron 6.78 0.0330 mg/L 1 U 1.00 ND 0.000500 0.00200 mg/L Lead 1 Lithium 0.0193 0.00300 0.0100 mg/L 1.00 1 Magnesium 35.7 0.0100 0.0300 mg/L 1.00 1 0.943 0.00100 0.00500 1.00 Manganese mg/L Molybdenum 0.00110 0.0002000.00100mg/L1.00 1 Potassium 7.58 0.0800 0.300 mg/L 1.00 1 U Selenium ND 0.00150 0.00500 mg/L 1.00 1 Silver U ND 0.000300 0.00100 1.00 1 mg/L mg/LSodium 18.8 0.08000.250 1.00 1 U ND 0.0006000.002001.00 Thallium mg/L 1 **Nutrient Analysis** EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received" Nitrogen, Nitrate/Nitrite ND 0.00700 0.0200 mg/L AXH3 08/11/23 1144 2473982 Solids Analysis SM2540C Dissolved Solids "As Received"

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

Certificate of Analysis

Report Date: August 21, 2023

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

Atlanta, Georgia 30308

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceAP2

Client Sample ID: ARK-ARAMW-2 Project: GPCC00100 Sample ID: 632699007 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF Anal	yst Date	Time Batch	Method
Solids Analysis										
SM2540C Dissolved	Solids "As Rec	eived"								
Total Dissolved Solids		548	2.38	10.0	mg/L		CH6	08/10/23	1435 2474115	7
Titration and Ion Ana	lysis									
SM 2320B Total Alka	alinity "As Reco	eived"								
Alkalinity, Total as CaCO3	3	180	0.725	2.00	mg/L		HH2	08/11/23	1009 2474137	8
Bicarbonate alkalinity (Ca	CO3)	180	0.725	2.00	mg/L					
Carbonate alkalinity (CaCo	O3) U	ND	0.725	2.00	mg/L					
The following Prep M	lethods were pe	erformed:								
Method	Description	1		Analyst	Date	-	Гime Р	rep Batch		
SW846 7470A Prep	EPA 7470A N	Mercury Prep Liquid		EK1	08/10/23	1	1245 2	474012		
SW846 3005A	ICP-MS 3005	A PREP		JD2	08/10/23	(0815 2	474004		

The following Analytical Methods were performed:

marytical Methods were performed.		
Description	Analyst Comments	
EPA 300.0	•	
EPA 300.0		
SW846 7470A		
SW846 3005A/6020B		
SW846 3005A/6020B		
EPA 353.2 Low Level		
SM 2540C		
SM 2320B		
	Description EPA 300.0 EPA 300.0 SW846 7470A SW846 3005A/6020B SW846 3005A/6020B EPA 353.2 Low Level SM 2540C	Description Analyst Comments EPA 300.0 EPA 300.0 SW846 7470A SW846 3005A/6020B SW846 3005A/6020B EPA 353.2 Low Level 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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2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: August 21, 2023

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

Atlanta, Georgia 30308

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceAP2

Client Sample ID: ARK-ARAMW-1

Sample ID: 632699008

Matrix: WG

Collect Date: 08-AUG-23 16:00 Receive Date: 09-AUG-23 Collector: Client

Project: Client ID: GPCC001

GPCC00100

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analy	st Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Lic	juid "As Recei	ived"										
Sulfate	•	223	6.65	20.0	mg/L		50	LXA2	08/10/23	1444	2473965	1
Chloride		3.61	0.0670	0.200	mg/L		1	LXA2	08/10/23	0231	2473965	2
Fluoride		0.118	0.0330	0.100	mg/L		1					
Mercury Analysis-CV	AA											
7470 Cold Vapor Merc	cury, Liquid ".	As Received"										
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/11/23	1039	2474015	3
Metals Analysis-ICP-N	MS				8							
SW846 3005A/6020B		"										
Aluminum	As Received	0.0342	0.0193	0.0500	ma/I	1.00	1	PRB	08/19/23	0250	2474005	4
Antimony	J U	0.0342 ND	0.00100	0.0300	mg/L mg/L	1.00	1	FKD	06/19/23	0339	2474003	4
Arsenic	U	ND ND	0.00100	0.00500	mg/L	1.00	1					
Barium	O	0.0510	0.00200	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	J	0.000350	0.000300	0.00100	mg/L	1.00	1					
Iron		0.239	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00909	0.00300	0.0100	mg/L	1.00	1					
Magnesium		35.7	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.145	0.00100	0.00500	mg/L	1.00	1					
Molybdenum		0.00667	0.000200	0.00100	mg/L	1.00	1					
Potassium		5.37	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		19.3	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		1.13	0.104	0.300	mg/L	1.00	20	PRB	08/19/23	0828	2474005	5
Calcium		83.4	1.60	4.00	mg/L	1.00	20					
Nutrient Analysis												
EPA 353.2 Nitrogen, N	Nitrate/Nitrite	"As Received"										
Nitrogen, Nitrate/Nitrite	U	ND	0.00700	0.0200	mg/L		1	AXH3	08/11/23	1207	2473982	6
Solids Analysis					-							
SM2540C Dissolved S	Solids "As Rec	eived"										
SINIES TO C DISSOIVED	, 511.35 1 15 ICC	01,00										

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

Certificate of Analysis

Report Date: August 21, 2023

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

Atlanta, Georgia 30308

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceAP2

Client Sample ID: ARK-ARAMW-1 Project: GPCC00100 Sample ID: 632699008 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF Analy	st Date	Time Batch	Method
Solids Analysis										
SM2540C Dissolved So	lids "As Rec	eived"								
Total Dissolved Solids		524	2.38	10.0	mg/L		CH6	08/10/23	1435 2474115	7
Titration and Ion Analys	sis									
SM 2320B Total Alkalii	nity "As Reco	eived"								
Alkalinity, Total as CaCO3		184	0.725	2.00	mg/L		HH2	08/11/23	1011 2474137	8
Bicarbonate alkalinity (CaCO	3)	184	0.725	2.00	mg/L					
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L					
The following Prep Met	hods were pe	erformed:								
Method	Description	1		Analyst	Date	Т	ime Pr	ep Batch		
SW846 7470A Prep	EPA 7470A N	Mercury Prep Liquid		EK1	08/10/23	1	245 24	74012		
SW846 3005A	ICP-MS 3005	A PREP		JD2	08/10/23	0	815 24	74004		

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 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: August 21, 2023

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

Atlanta, Georgia 30308

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceAP2

Client Sample ID: ARK-ARGWC-23

Sample ID: 632699009

Matrix: WG

Collect Date: 08-AUG-23 16:55
Receive Date: 09-AUG-23
Collector: Client

Project: GPCC00100 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analy	st Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Lic	quid "As Recei	ived"										
Sulfate	•	69.8	0.665	2.00	mg/L		5	LXA2	08/10/23	1515	2473965	1
Chloride		3.60	0.0670	0.200	mg/L		1	LXA2	08/10/23	0302	2473965	2
Fluoride		0.283	0.0330	0.100	mg/L		1					
Mercury Analysis-CV	AA											
7470 Cold Vapor Mer	cury, Liquid "A	As Received"										
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/11/23	1041	2474015	3
Metals Analysis-ICP-N	MS				Ü							
SW846 3005A/6020B		"										
Aluminum	U	ND	0.0193	0.0500	mg/L	1.00	1	PRB	08/19/23	0403	2474005	4
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	110	00/17/20	0.00	2.7.1000	•
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0936	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	J	0.000440	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0491	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0517	0.00300	0.0100	mg/L	1.00	1					
Magnesium		10.5	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.278	0.00100	0.00500	mg/L	1.00	1					
Molybdenum		0.0618	0.000200	0.00100	mg/L	1.00	1					
Potassium		1.68	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		13.3	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.379	0.0520	0.150	mg/L	1.00	10	PRB	08/19/23	0832	2474005	5
Calcium		66.6	0.800	2.00	mg/L	1.00	10					
Nutrient Analysis												
EPA 353.2 Nitrogen, N	Nitrate/Nitrite	"As Received"										
Nitrogen, Nitrate/Nitrite		1.33	0.0350	0.100	mg/L		5	AXH3	08/11/23	1208	2473982	6
Solids Analysis					-							
SM2540C Dissolved S	Solids "As Rec	eived"										
DIVIZUTUC DISSUIVCU S	onus As NCC	Cived										

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

Certificate of Analysis

Report Date: August 21, 2023

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

Atlanta, Georgia 30308

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceAP2

Client Sample ID: ARK-ARGWC-23 Project: GPCC00100 Sample ID: 632699009 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF DF	Anal	yst Date	Time B	atch	Method
Solids Analysis											
SM2540C Dissolved S	olids "As Rec	eived"									
Total Dissolved Solids		294	2.38	10.0	mg/L		CH6	08/10/23	1435 247	74115	7
Titration and Ion Analy	ysis										
SM 2320B Total Alkal	inity "As Rec	eived"									
Alkalinity, Total as CaCO3		175	0.725	2.00	mg/L		HH2	08/11/23	1013 247	74137	8
Bicarbonate alkalinity (CaCo	03)	175	0.725	2.00	mg/L						
Carbonate alkalinity (CaCO3	B) U	ND	0.725	2.00	mg/L						
The following Prep Me	ethods were pe	erformed:									
Method	Description	n		Analyst	Date	Tim	e P	rep Batch			
SW846 3005A	ICP-MS 3005	SA PREP		JD2	08/10/23	0815	24	174004			
SW846 7470A Prep	EPA 7470A N	Mercury Prep Liquid		EK1	08/10/23	1245	24	174012			

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 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

Project:

Client ID:

Report Date: August 24, 2023

GPCC00100

GPCC001

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

Atlanta, Georgia 30308

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceAP2

Client Sample ID: ARK-ARGWC-21

Sample ID: 633126001

Matrix: WG

Collect Date: 09-AUG-23 10:35 11-AUG-23 Receive Date:

Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Anal	yst Date	Time Batch	Method
Ion Chromatography											
EPA 300.0 Anions Liquid	d "As Recei	ived"									
Chloride		3.35	0.0670	0.200	mg/L		1	JLD1	08/12/23	2354 247568	5 1
Fluoride		0.203	0.0330	0.100	mg/L		1				
Sulfate		214	3.33	10.0	mg/L		25	JLD1	08/14/23	1308 247568	5 2
Mercury Analysis-CVA	Λ										
7470 Cold Vapor Mercur	v. Liquid ".	As Received"									
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/15/23	1258 247585	4 3
Metals Analysis-ICP-MS	_				8						
SW846 3005A/6020B "A		"									
Boron	is Received	1.18	0.0520	0.150	mg/L	1.00	10	PRB	08/18/23	1246 247557	9 4
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	10	PRB	08/18/23	1231 247557	
Manganese	U	0.351	0.00100	0.00500	mg/L	1.00	1	IKD	06/16/23	1231 247337	, ,
Aluminum	U	0.331 ND	0.0100	0.0500	mg/L	1.00	1	PRB	08/17/23	1309 247557	9 6
Arsenic	U	ND ND	0.00200	0.00500	mg/L mg/L	1.00	1	IKD	00/17/23	1307 247337	, ,
Barium	O	0.0444	0.00200	0.00300	mg/L mg/L	1.00	1				
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1				
Cadmium	U	ND	0.000200	0.00100	mg/L	1.00	1				
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1				
Cobalt	J	0.000889	0.000300	0.00100	mg/L	1.00	1				
Iron		0.808	0.0330	0.100	mg/L	1.00	1				
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1				
Lithium		0.0121	0.00300	0.0100	mg/L	1.00	1				
Magnesium		36.0	0.0100	0.0300	mg/L	1.00	1				
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1				
Potassium		5.91	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		19.3	0.0800	0.250	mg/L	1.00	1				
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1				
Calcium		80.2	0.800	2.00	mg/L	1.00	10	PRB	08/17/23	1328 2475579	9 7
Solids Analysis											
SM2540C Dissolved Soli	ids "As Rec	eived"									
Total Dissolved Solids		520	2.38	10.0	mg/L			СН6	08/16/23	1558 247717	8
Titration and Ion Analysi	s	520									
•		.: A!!									
SM 2320B Total Alkalin	ity "As Rec	eivea									

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

Certificate of Analysis

Report Date: August 24, 2023

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

Atlanta, Georgia 30308

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceAP2

Client Sample ID: ARK-ARGWC-21 Project: GPCC00100
Sample ID: 633126001 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF Anal	yst Date	Time Batch	Method
Titration and Ion Ana	alysis									
SM 2320B Total Alk	calinity "As Rec	eived"								
Alkalinity, Total as CaCO	13	162	0.725	2.00	mg/L		JW2	08/14/23	1656 2476209	9
Bicarbonate alkalinity (Ca	aCO3)	162	0.725	2.00	mg/L					
Carbonate alkalinity (CaC	CO3) U	ND	0.725	2.00	mg/L					
The following Prep N	Methods were pe	erformed:								
Method	Description	n		Analyst	Date		Time P	rep Batch		
SW846 7470A Prep	EPA 7470A N	Mercury Prep Liquid		EK1	08/14/23		1200 2	475853		
SW846 3005A	ICP-MS 3005	5A PREP		EM2	08/14/23		1525 2	475578		

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	SM 2540C	
9	SM 2320B	

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: August 24, 2023

GPCC00100

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

Atlanta, Georgia 30308

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceAP2

Client Sample ID: ARK-AP2-EB-01

Sample ID: 633126002

Matrix: WQ

Collect Date: 09-AUG-23 11:10
Receive Date: 11-AUG-23
Collector: Client

Client ID: GPCC001

Project:

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Anal	yst Date	Time Batch	Method
Ion Chromatography											
EPA 300.0 Anions Lie	quid "As Receiv	ved"									
Chloride	J	0.165	0.0670	0.200	mg/L		1	JLD1	08/13/23	0026 2475685	1
Fluoride	U	ND	0.0330	0.100	mg/L		1				
Sulfate	U	ND	0.133	0.400	mg/L		1				
Mercury Analysis-CV	AA										
7470 Cold Vapor Mer	cury, Liquid "A	s Received"									
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/15/23	1300 2475854	2
Metals Analysis-ICP-l	MS				C						
SW846 3005A/6020B											
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1	PRB	08/17/23	1357 2475579	3
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				
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	08/18/23	1306 2475579	4
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1				
Solids Analysis											
SM2540C Dissolved S	Solids "As Rece	eived"									
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			CH6	08/16/23	1558 2477178	5
The following Prep M	lethods were per	rformed:									
Method	Description			Analyst	Date	,	Tim	e Pı	rep Batch		
	DD 1 = 1=0 : - :										

 Method
 Description
 Analyst
 Date
 Time
 Prep Batch

 SW846 7470A Prep
 EPA 7470A Mercury Prep Liquid
 EK1
 08/14/23
 1200
 2475853

 SW846 3005A
 ICP-MS 3005A PREP
 EM2
 08/14/23
 1525
 2475578

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

Certificate of Analysis

Report Date: August 24, 2023

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

Atlanta, Georgia 30308

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceAP2

Client Sample ID: ARK-AP2-EB-01 Project: GPCC00100 Sample ID: 633126002 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF Analyst Date	Time Batch	Method
The following Analy	tical Methods v	were performed:							
Method	Description	1				Analys	st Comments		
1	EPA 300.0					-			
2	SW846 7470A	A							
3	SW846 3005A	A/6020B							
4	SW846 3005A	A/6020B							
5	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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2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Project:

Client ID:

Report Date: August 24, 2023

GPCC00100

GPCC001

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

Atlanta, Georgia 30308

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceAP2

Client Sample ID: ARK-ARAMW-8

Sample ID: 633126003

Matrix: WG

Collect Date: 09-AUG-23 11:15 Receive Date: 11-AUG-23

Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analy	yst Date	Time B	atch	Method
Ion Chromatography												
EPA 300.0 Anions Liqui	id "As Recei	ved"										
Sulfate		114	1.33	4.00	mg/L		10	JLD1	08/14/23	1339 24	75685	1
Chloride		5.13	0.0670	0.200	mg/L		1	JLD1	08/13/23	0057 24		2
Fluoride		0.261	0.0330	0.100	mg/L		1					
Mercury Analysis-CVA	A											
7470 Cold Vapor Mercu	ry, Liquid "A	As Received"										
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/15/23	1301 24	75854	3
Metals Analysis-ICP-MS	S				J							
SW846 3005A/6020B "A		"										
Antimony	J	0.00134	0.00100	0.00300	mg/L	1.00	1	PRB	08/18/23	1318 24	75579	4
Manganese	· ·	0.279	0.00100	0.00500	mg/L	1.00	1		0 0/ 2 0/ 20			•
Aluminum	U	ND	0.0193	0.0500	mg/L	1.00	1	PRB	08/17/23	1404 24	75579	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.122	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		0.00364	0.000300	0.00100	mg/L	1.00	1					
Iron		0.515	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00637	0.00300	0.0100	mg/L	1.00	1					
Magnesium		32.1	0.0100	0.0300	mg/L	1.00	1					
Molybdenum		0.203	0.000200	0.00100	mg/L	1.00	1					
Potassium		7.34	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		18.1	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Calcium		78.6	0.800	2.00	mg/L	1.00	10	PRB	08/17/23	1408 24		6
Boron		0.770	0.0520	0.150	mg/L	1.00	10	PRB	08/18/23	1321 24	75579	7
Solids Analysis												
SM2540C Dissolved Sol	lids "As Rec	eived"										
Total Dissolved Solids		436	2.38	10.0	mg/L			CH6	08/16/23	1558 24	77178	8
Titration and Ion Analys	is				-							
SM 2320B Total Alkalin		eived"										

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

Certificate of Analysis

Report Date: August 24, 2023

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

Atlanta, Georgia 30308

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceAP2

Client Sample ID: ARK-ARAMW-8 Project: GPCC00100 Sample ID: 633126003 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF .	DF Anal	yst Date	Time Batch	Method
Titration and Ion Ana	lysis									
SM 2320B Total Alka	alinity "As Rec	eived"								
Alkalinity, Total as CaCO3	1	245	0.725	2.00	mg/L		JW2	08/14/23	1702 2476209	9
Bicarbonate alkalinity (CaC	CO3)	245	0.725	2.00	mg/L					
Carbonate alkalinity (CaCC	D3) U	ND	0.725	2.00	mg/L					
The following Prep M	lethods were pe	erformed:								
Method	Description	n		Analyst	Date	T	ime P	rep Batch		
SW846 3005A	ICP-MS 3005	SA PREP		EM2	08/14/23	1:	525 2	475578		
SW846 7470A Prep	EPA 7470A N	Mercury Prep Liquid		EK1	08/14/23	12	200 2	475853		
The following Analys	tical Methods v	were performed:								

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	SM 2540C						
9	SM 2320B						

Notes:

Column headers are defined as follows:

Lc/LC: Critical Level DF: Dilution Factor 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: August 24, 2023

GPCC00100

GPCC001

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

Atlanta, Georgia 30308

Contact: Joju Abraham

Arkwright CCR Groundwater ComplianceAP2 Project:

Client Sample ID: ARK-ARGWA-20

Sample ID: 633126004

Matrix: WG

Collect Date: 10-AUG-23 09:25 Receive Date: 11-AUG-23

Collector: Client

Project:

Client ID:

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Anal	yst Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Lie	quid "As Recei	ived"										
Chloride	•	6.50	0.0670	0.200	mg/L		1	JLD1	08/13/23	0128	2475685	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate		18.5	0.133	0.400	mg/L		1					
Mercury Analysis-CV	'AA											
7470 Cold Vapor Mer		As Received"										
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/15/23	1303	2475854	2
Metals Analysis-ICP-					8		_					_
SW846 3005A/6020B		"										
Aluminum	As Received	0.0502	0.0193	0.0500	/T	1.00	1	PRB	08/17/23	1.411	2475579	3
Arsenic		0.0302 ND	0.0193	0.0300	mg/L	1.00	1 1	PKD	06/17/23	1411	24/33/9	3
Barium	U	0.0885	0.00200	0.00300	mg/L	1.00						
Beryllium	U	0.0885 ND	0.000870	0.00400	mg/L mg/L	1.00	1 1					
Cadmium	U	ND ND	0.000200	0.000300	mg/L	1.00	1					
Calcium	U	10.7	0.00300	0.00100	mg/L	1.00	1					
Chromium	J	0.00622	0.00300	0.200	mg/L	1.00	1					
Cobalt	J U	0.00022 ND	0.00300	0.00100	mg/L	1.00	1					
Iron	J	0.0509	0.00300	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium	C	5.75	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium	C	1.53	0.0800	0.300	mg/L	1.00	1					
Selenium	J	0.00220	0.00150	0.00500	mg/L	1.00	1					
Silver	U	ND	0.000300	0.00100	mg/L	1.00	1					
Sodium		11.1	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	08/18/23	1324	2475579	4
Boron		0.0799	0.00520	0.0150	mg/L	1.00	1					
Manganese	J	0.00319	0.00100	0.00500	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved	Solids "As Rec	eived"										
Total Dissolved Solids		105	2.38	10.0	mg/L			СН6	08/16/23	1558	2477178	5
Titration and Ion Ana	lveis	103	2.30	10.0				2110	30/10/23	1550	21,,170	3
CM 2220D T + 1 All	•											

SM 2320B Total Alkalinity "As Received"

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

Certificate of Analysis

Report Date: August 24, 2023

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

Atlanta, Georgia 30308

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceAP2

Client Sample ID: ARK-ARGWA-20 Project: GPCC00100 Sample ID: 633126004 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF An	alyst Date	Time Batch	Method
Titration and Ion Analy	/sis									
SM 2320B Total Alkal	inity "As Rece	eived"								
Alkalinity, Total as CaCO3		43.8	0.725	2.00	mg/L		JW	2 08/14/23	1705 2476209	6
Bicarbonate alkalinity (CaCo	03)	43.8	0.725	2.00	mg/L					
Carbonate alkalinity (CaCO3	B) U	ND	0.725	2.00	mg/L					
The following Prep Me	ethods were pe	erformed:								
Method	Description	n		Analyst	Date		Time	Prep Batch		
SW846 7470A Prep	EPA 7470A N	Mercury Prep Liquid		EK1	08/14/23		1200	2475853		
SW846 3005A	ICP-MS 3005	5A PREP		EM2	08/14/23		1525	2475578		
The following Analyti	cal Methods v	were performed:								
Method	Description				A	Analy	st Comm	ents		
1	EPA 300.0									

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

SW846 7470A SW846 3005A/6020B SW846 3005A/6020B

SM 2540C SM 2320B

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: August 24, 2023

GPCC00100

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

Atlanta, Georgia 30308

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceAP2

Client Sample ID: ARK-STNTW-22

Sample ID: 633126005

Matrix: WG

Collect Date: 10-AUG-23 12:55
Receive Date: 11-AUG-23
Collector: Client

26005 Client ID: GPCC001

Project:

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Anal	yst Date	Time 1	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liqu	iid "As Recei	ved"										
Chloride		4.92	0.0670	0.200	mg/L		1	JLD1	08/13/23	0200 2	475685	1
Fluoride		0.123	0.0330	0.100	mg/L		1					
Sulfate		1040	13.3	40.0	mg/L		100	JLD1	08/14/23	1410 2	475685	2
Mercury Analysis-CVA	A											
7470 Cold Vapor Mercu	ary, Liquid "A	As Received"										
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/15/23	1305 2	475854	3
Metals Analysis-ICP-M	S											
SW846 3005A/6020B -		s Received"										
Boron		5.65	0.520	1.50	mg/L	1.00	100	PRB	08/18/23	1335 2	475579	4
Manganese		11.5	0.100	0.500	mg/L	1.00	100					
Calcium		374	0.800	2.00	mg/L	1.00	10	PRB	08/17/23	1422 2	475579	5
Aluminum		0.591	0.0193	0.0500	mg/L	1.00	1	PRB	08/17/23	1419 2	475579	6
Arsenic		0.172	0.00200	0.00500	mg/L	1.00	1					
Cobalt		0.0238	0.000300	0.00100	mg/L	1.00	1					
Iron		38.2	0.0330	0.100	mg/L	1.00	1					
Lithium		0.247	0.00300	0.0100	mg/L	1.00	1					
Magnesium		33.5	0.0100	0.0300	mg/L	1.00	1					
Molybdenum		0.00367	0.000200	0.00100	mg/L	1.00	1					
Potassium		48.6	0.0800	0.300	mg/L	1.00	1					
Sodium		19.8	0.0800	0.250	mg/L	1.00	1					
Titration and Ion Analys	sis											
SM 2320B Total Alkali	nity "As Rec	eived"										
Alkalinity, Total as CaCO3		170	0.725	2.00	mg/L			JW2	08/14/23	1707 2	476209	7
Bicarbonate alkalinity (CaCO	3)	170	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							
The following Prep Met	thods were pe	erformed:										
Method	Description	n		Analyst	Date	-	Гimе	e Pi	rep Batch			
SW846 7470A Prep		Mercury Prep Liquid		EK1	08/14/23	1	1200	24	175853			
SW846 3005A	ICP-MS 3005	SA PREP		EM2	08/14/23	1	1525	24	175578			

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

Certificate of Analysis

Report Date: August 24, 2023

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

Atlanta, Georgia 30308

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceAP2

Client Sample ID: ARK-STNTW-22 Project: GPCC00100 Sample ID: 633126005 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF Analyst Date	Time Batch	Method
The following Analytic	cal Methods w	vere performed:							
Method	Description					Analys	st 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	SM 2320B								

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: August 24, 2023

GPCC00100

GPCC001

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

Atlanta, Georgia 30308

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceAP2

Client Sample ID: ARK-ARGWC-21

Sample ID: 633126006 Matrix: WG

Collect Date: 09-AUG-23 10:35 Receive Date: 11-AUG-23

Collector: Client

Parameter Qualifier	Result	DL	RL	Units	PF	DF Analyst Date	Time Batch	Method
---------------------	--------	----	----	-------	----	-----------------	------------	--------

Project:

Client ID:

Nutrient Analysis

EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"

Nitrogen, Nitrate/Nitrite U ND 0.00700 0.0200 mg/L 1 AXH3 08/14/23 0754 2475768 1

The following Analytical Methods were performed:

Method Description Analyst Comments

1 EPA 353.2 Low Level

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: August 24, 2023

GPCC00100

GPCC001

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

Atlanta, Georgia 30308

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceAP2

Client Sample ID: ARK-AP2-EB-01 Sample ID: 633126007

Matrix: WQ

Collect Date: 09-AUG-23 11:10
Receive Date: 11-AUG-23
Collector: Client

Parameter Qualifier Result DL RL Units PF DF Analyst Date Time Batch Method

Project:

Client ID:

Nutrient Analysis

EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"

Nitrogen, Nitrate/Nitrite U ND 0.00700 0.0200 mg/L 1 AXH3 08/14/23 0755 2475768 1

The following Analytical Methods were performed:

Method Description Analyst Comments

EPA 353.2 Low Level

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: August 24, 2023

GPCC00100

GPCC001

Project:

Client ID:

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

Atlanta, Georgia 30308

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceAP2

Client Sample ID: ARK-ARAMW-8 Sample ID: 633126008

Matrix: WG

Collect Date: 09-AUG-23 11:15 Receive Date: 11-AUG-23

Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF Analyst Date	Time Batch	Method
Nutrient Analysis									
EPA 353.2 Nitroge	en, Nitrate/Nitrite '	"As Received"							

Nitrogen, Nitrate/Nitrite ND 0.00700 0.0200 mg/L U AXH3 08/14/23 0757 2475768

The following Analytical Methods were performed:

Description Method **Analyst Comments**

EPA 353.2 Low Level

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

Project:

Client ID:

Report Date: August 24, 2023

GPCC00100

GPCC001

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

Atlanta, Georgia 30308

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceAP2

Client Sample ID: ARK-ARGWA-20

Sample ID: 633126009

Matrix: WG

Collect Date: 10-AUG-23 09:25
Receive Date: 11-AUG-23
Collector: Client

Parameter Qualifier Result DL RL Units PF DF Analyst Date Time Batch Method

Nutrient Analysis

EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"

Nitrogen, Nitrate/Nitrite 0.759 0.00700 0.0200 mg/L 1 AXH3 08/14/23 0758 2475768 1

The following Analytical Methods were performed:

Method Description Analyst Comments

EPA 353.2 Low Level

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: August 24, 2023

GPCC00100

GPCC001

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

Atlanta, Georgia 30308

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceAP2

Client Sample ID: ARK-STNTW-22

Sample ID: 633126010

Matrix: WG

Collect Date: 10-AUG-23 12:55
Receive Date: 11-AUG-23
Collector: Client

Parameter Qualifier Result DL RL Units PF DF Analyst Date Time Batch Method

Project:

Client ID:

Nutrient Analysis

EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"

Nitrogen, Nitrate/Nitrite 0.0715 0.00700 0.0200 mg/L 1 AXH3 08/14/23 0759 2475768 1

The following Analytical Methods were performed:

Method Description Analyst Comments

EPA 353.2 Low Level

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

QC Summary

Report Date: August 24, 2023

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Georgia Power Company, Southern Company

241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia Joju Abraham

Workorder: 633126

Contact:

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range Anlst	Date Time
Ion Chromatography Batch 2475685								
QC1205486797 632744003 DUP Chloride		50.6	50.7	mg/L	0.111		(0%-20%) JLD1	08/14/23 12:05
Fluoride		1.06	1.04	mg/L	2.03		(0%-20%)	08/12/23 19:12
Sulfate		53.6	53.8	mg/L	0.277		(0%-20%)	08/14/23 12:05
QC1205486796 LCS Chloride	5.00		4.86	mg/L		97.2	(90%-110%)	08/12/23 18:10
Fluoride	2.50		2.59	mg/L		104	(90%-110%)	
Sulfate	10.0		9.93	mg/L		99.3	(90%-110%)	
QC1205486795 MB Chloride		U	ND	mg/L				08/12/23 17:37
Fluoride		U	ND	mg/L				
Sulfate		U	ND	mg/L				
QC1205486798 632744003 PS Chloride	5.00	5.06	10.5	mg/L		109	(90%-110%)	08/14/23 12:36
Fluoride	2.50	1.06	3.62	mg/L		102	(90%-110%)	08/12/23 19:43
Sulfate	10.0	5.36	15.6	mg/L		102	(90%-110%)	08/14/23 12:36

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

QC Summary

Workorder: 633126 Page 2 of 11 Sample Qual Parmname NOM QC Units RPD% REC% Range Anlst Date Time Metals Analysis - ICPMS 2475579 Batch QC1205486562 LCS 2.04 2.00 mg/L 102 (80%-120%) PRB 08/17/23 13:04 Aluminum Antimony 0.0500 0.0506 mg/L 101 (80%-120%) 08/18/23 12:28 0.0500 0.0495 99 08/17/23 13:04 Arsenic mg/L (80%-120%) 0.0510 Barium 0.0500 mg/L 102 (80%-120%) Beryllium 0.0500 0.0545 109 mg/L (80%-120%) Boron 0.100 0.112 mg/L 112 (80% - 120%)08/18/23 12:28 0.0510 Cadmium 0.0500 mg/L 102 (80%-120%) 08/17/23 13:04 Calcium 2.00 2.08 mg/L 104 (80%-120%) Chromium 0.0500 0.0505 mg/L101 (80%-120%) 0.0502 Cobalt 0.0500 mg/L 100 (80%-120%) 1.99 99.4 Iron 2.00 mg/L (80%-120%) 0.0500 0.0509 102 Lead mg/L (80%-120%) Lithium 0.0500 0.0509 mg/L 102 (80%-120%) 2.00 2.09 104 Magnesium (80%-120%) mg/L Manganese 0.0500 0.0513 mg/L 103 (80%-120%) 08/18/23 12:28

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

QC Summary

Workorder: 633126 Page 3 of 11 QC RPD% REC% Parmname NOM Sample Qual Units Range Anlst Date Time Metals Analysis - ICPMS 2475579 Batch Molybdenum 0.0500 0.0529 mg/L106 (80%-120%) PRB 08/17/23 13:04 Potassium 2.00 2.07 mg/L 103 (80%-120%) Selenium 0.0500 0.0487 mg/L97.4 (80%-120%) Silver 0.0500 0.0519 104 mg/L(80%-120%) Sodium 2.00 2.22 mg/L 111 (80%-120%) 0.0495 Thallium 0.0500 98.9 mg/L(80%-120%) QC1205486561 MB U Aluminum ND mg/L08/17/23 13:00 ND U 08/18/23 12:26 Antimony mg/L U ND 08/17/23 13:00 Arsenic mg/LU Barium ND mg/L Beryllium U ND mg/LU ND 08/18/23 12:26 Boron mg/LCadmium U ND mg/L08/17/23 13:00 U ND Calcium mg/L Chromium U ND mg/L

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QC Summary

Workorder: 633126 Page 4 of 11 QC RPD% REC% Range **P**armname NOM Sample Qual Units Anlst Date Time Metals Analysis - ICPMS Batch 2475579 Cobalt U ND mg/LPRB 08/17/23 13:00 Iron U ND mg/L Lead U ND mg/LU ND Lithium mg/L Magnesium U ND mg/L U ND 08/18/23 12:26 Manganese mg/LU ND 08/17/23 13:00 Molybdenum mg/LU ND Potassium mg/LU ND Selenium mg/L Silver U ND mg/LU ND Sodium mg/L Thallium U ND mg/L QC1205486563 633126001 MS Aluminum 2.00 U ND 2.04 102 (75%-125%) 08/17/23 13:12 mg/L0.0500 U ND 0.0524 104 08/18/23 12:34 Antimony mg/L (75%-125%) Arsenic 0.0500 U ND 0.0520 mg/L101 (75% - 125%)08/17/23 13:12

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QC Summary

Workorder: 633126 Page 5 of 11 Sample Qual Parmname NOM QC Units RPD% REC% Range Anlst Date Time Metals Analysis - ICPMS 2475579 Batch Barium 0.0500 0.0444 0.0929 mg/L96.9 (75%-125%) PRB 08/17/23 13:12 Beryllium 0.0500 U ND 0.0552 110 (75%-125%) mg/L Boron 0.100 1.18 1.23 mg/L N/A (75%-125%) 08/18/23 12:55 0.0500 U ND 0.0518 Cadmium mg/L 104 (75%-125%) 08/17/23 13:12 Calcium 2.00 80.2 81.5 mg/L N/A (75%-125%) 08/17/23 13:39 0.0501 0.0500 U ND 99.8 Chromium mg/L(75%-125%) 08/17/23 13:12 0.0500 J 0.000889 0.0495 97.3 Cobalt mg/L (75% - 125%)Iron 2.00 0.808 2.77 98 (75% - 125%)mg/L ND 0.0500 U 0.0490 Lead mg/L 98.1 (75%-125%) Lithium 0.0500 0.0121 0.0638 103 mg/L(75% - 125%)2.00 36.0 39.4 N/A (75%-125%) Magnesium mg/L 0.0500 0.351 0.408 N/A 08/18/23 12:34 Manganese mg/L (75% - 125%)0.0500 U ND 0.0552 Molybdenum mg/L 110 (75%-125%) 08/17/23 13:12 Potassium 2.00 5.91 7.87 98.2 (75% - 125%)mg/L 0.0500 U ND 0.0506 100 Selenium mg/L (75%-125%)

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QC Summary

Workorder: 633126 Page 6 of 11 **Parmname NOM** Sample Qual QC Units RPD% REC% Range Anlst Date Time Metals Analysis - ICPMS 2475579 Batch Silver 0.0500 ND 0.0515 mg/L 103 (75% - 125%)PRB 08/17/23 13:12 Sodium 2.00 19.3 21.8 N/A (75%-125%) mg/L Thallium 0.0500 U ND 0.0483 mg/L 96.6 (75% - 125%)QC1205486564 633126001 MSD Aluminum 2.00 U ND 2.03 mg/L 0.793 101 (0%-20%)08/17/23 13:16 0.0500 U ND 0.0530 1.03 105 08/18/23 12:37 Antimony mg/L (0%-20%)Arsenic 0.0500 ND 0.0520 mg/L 0.0384 101 (0%-20%)08/17/23 13:16 Barium 0.0500 0.0444 0.0939 mg/L 1.06 98.9 (0%-20%)ND 0.0548 Beryllium 0.0500 U mg/L 0.695 110 (0%-20%)mg/L 0.100 1.18 1.21 1.71 N/A (0%-20%)08/18/23 12:58 Boron 0.0500 U ND 0.0521 104 08/17/23 13:16 Cadmium mg/L 0.408(0%-20%)80.2 79.9 Calcium 2.00 mg/L 2.03 N/A (0%-20%)08/17/23 13:42 ND Chromium 0.0500 U 0.0492 mg/L 98 (0%-20%)08/17/23 13:16 1.79 Cobalt 0.0500 0.000889 0.0485 2.17 95.1 (0%-20%)mg/L 0.808 2.00 2.69 94.2 mg/L 2.84 (0%-20%)Iron Lead 0.0500 U ND 0.0495 mg/L 1.02 99.1 (0%-20%)

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QC Summary

633126 Page 7 of 11 **Parmname** NOM Sample Qual QC Units RPD% REC% Range Anlst Date Time Metals Analysis - ICPMS 2475579 Batch (0%-20%) Lithium 0.0500 0.0121 0.0623 mg/L2.34 100 PRB 08/17/23 13:16 2.00 36.0 37.8 N/A(0%-20%)Magnesium mg/L 4.16 Manganese 0.0500 0.351 0.397 mg/L 2.92 N/A (0%-20%)08/18/23 12:37 U ND 0.0548 109 Molybdenum 0.0500 mg/L 0.849 (0%-20%)08/17/23 13:16 mg/L Potassium 2.00 5.91 7.81 0.806 95.1 (0%-20%)0.0500 U ND 0.0489 mg/L (0%-20%)Selenium 3.33 97 0.0500 U ND 0.0518 Silver mg/L 0.589 103 (0%-20%)Sodium 2.00 19.3 21.0 N/A mg/L 3.46 (0%-20%)ND 0.0500 U 0.0486 97.3 Thallium mg/L 0.679 (0%-20%)QC1205486565 633126001 SDILT U ND U ND (0%-20%)08/17/23 13:24 Aluminum ug/L N/A U ND U ND ug/L N/A (0%-20%)08/18/23 12:43 Antimony U ND U ND ug/L (0%-20%)08/17/23 13:24 Arsenic N/A Barium 44.4 8.42 5.22 (0% - 20%)ug/L U ND U ND Beryllium ug/L N/A (0%-20%)Boron 118 24.8 ug/L 4.96 (0%-20%)08/18/23 13:01

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QC Summary

633126 Page 8 of 11 QC RPD% REC% Parmname NOM Sample Qual Units Range Anlst Date Time Metals Analysis - ICPMS Batch 2475579 U Cadmium ND U ND ug/L N/A (0%-20%)PRB 08/17/23 13:24 Calcium 8020 1650 ug/L 2.53 (0%-20%)08/17/23 13:46 U Chromium ND U ND ug/L N/A (0%-20%)08/17/23 13:24 J 0.889 U ND Cobalt ug/L N/A (0%-20%)Iron 808 165 ug/L 1.85 (0%-20%)U U ND ug/L ND N/A (0%-20%)Lead U ND (0%-20%)Lithium 12.1 ug/L N/A 7510 36000 4.38 (0%-20%)Magnesium ug/L ug/L 351 71.9 (0%-20%) 08/18/23 12:43 Manganese 2.48 U ND U ND N/A (0%-20%)08/17/23 13:24 Molybdenum ug/L 5910 Potassium 1150 2.42 (0%-20%)ug/L Selenium U ND U ND ug/L N/A (0%-20%) Silver U ND ND U ug/L N/A (0%-20%)Sodium 19300 3960 ug/L 2.69 (0%-20%)U U (0%-20%) Thallium ND ND ug/L N/A

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QC Summary

Page 9 of 11 **Parmname** NOM Sample Qual QC Units RPD% REC% Range Anlst Date Time Metals Analysis-Mercury Batch 2475854 QC1205487211 632954001 DUP U ND ND U mg/L JP2 08/15/23 12:27 Mercury N/A QC1205487204 LCS 0.00200 0.00199 Mercury mg/L 99.6 (80%-120%) 08/15/23 12:02 QC1205487203 MB U ND 08/15/23 12:01 Mercury mg/L QC1205487212 632954001 MS 08/15/23 12:29 0.00200 U ND 0.00200 100 (75%-125%) Mercury mg/LQC1205487213 632954001 SDILT U ND U ND ug/L N/A (0%-10%)08/15/23 12:30 Mercury **Nutrient Analysis** Batch 2475768 QC1205487034 633126010 DUP 0.0715 0.0710 Nitrogen, Nitrate/Nitrite mg/L 0.702 ^ (+/-0.0200) AXH3 08/14/23 08:00 QC1205487031 LCS 1.00 1.01 Nitrogen, Nitrate/Nitrite mg/L 101 (90%-110%) 08/14/23 07:39 QC1205487030 MB U ND 08/14/23 07:38 Nitrogen, Nitrate/Nitrite mg/L QC1205487035 633126010 PS 1.00 0.0715 0.855 78.4* (90%-110%) 08/14/23 08:01 Nitrogen, Nitrate/Nitrite mg/L **Solids Analysis** 2477178 QC1205489455 633255002 DUP **Total Dissolved Solids** 136 137 mg/L 0.733 (0%-5%)CH6 08/16/23 15:58

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Workorder:

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QC Summary

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Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Solids Analysis Batch 2477178 QC1205489454 LCS Total Dissolved Solids	300		301	mg/L		100	(95%-105%)	СН6	08/16/23 15:58
QC1205489453 MB Total Dissolved Solids		U	ND	mg/L					08/16/23 15:58
Titration and Ion Analysis Batch 2476209 ———									
QC1205487866 633099001 DUP Alkalinity, Total as CaCO3		52.6	52.7	mg/L	0.19		(0%-20%)	JW2	08/14/23 15:56
Bicarbonate alkalinity (CaCO3)		52.6	52.7	mg/L	0.19		(0%-20%)		
Carbonate alkalinity (CaCO3)	U	ND U	ND	mg/L	N/A				
QC1205487868 633099016 DUP Alkalinity, Total as CaCO3		259	259	mg/L	0.154		(0%-20%)		08/14/23 16:35
Bicarbonate alkalinity (CaCO3)		259	259	mg/L	0.154		(0%-20%)		
Carbonate alkalinity (CaCO3)	U	ND U	ND	mg/L	N/A				
QC1205487865 LCS Alkalinity, Total as CaCO3	50.0		50.6	mg/L		101	(90%-110%)		08/14/23 15:48
QC1205487867 633099001 MS Alkalinity, Total as CaCO3	50.0	52.6	104	mg/L		103	(80%-120%)		08/14/23 15:57
QC1205487869 633099016 MS Alkalinity, Total as CaCO3	50.0	259	311	mg/L		N/A	(80%-120%)		08/14/23 16:38

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.

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QC Summary

Workorder: 633126

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Parmname

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

- 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.

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QC Summary

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

Atlanta, Georgia

Contact: Joju Abraham

Workorder: 632699

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range Anlst	Date Time
Ion Chromatography Batch 2473965									
QC1205483950 632604002 DUP Chloride		1.97		1.96	mg/L	0.311		(0%-20%) LXA2	08/10/23 03:33
Fluoride		0.229		0.229	mg/L	0.0437 ^		(+/-0.100)	
Sulfate		2.17		2.16	mg/L	0.481		(0%-20%)	
QC1205483949 LCS Chloride	5.00			4.87	mg/L		97.5	(90%-110%)	08/09/23 16:34
Fluoride	2.50			2.62	mg/L		105	(90%-110%)	
Sulfate	10.0			9.91	mg/L		99.1	(90%-110%)	
QC1205483948 MB Chloride			U	ND	mg/L				08/09/23 16:04
Fluoride			U	ND	mg/L				
Sulfate			U	ND	mg/L				
QC1205483951 632604002 PS Chloride	5.00	1.97		7.21	mg/L		105	(90%-110%)	08/10/23 05:06
Fluoride	2.50	0.229		2.95	mg/L		109	(90%-110%)	
Sulfate	10.0	2.17		12.3	mg/L		102	(90%-110%)	

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Report Date: August 21, 2023

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QC Summary

Page 2 of 11 Parmname NOM Sample Qual QC Units RPD% REC% Range Anlst Date Time Metals Analysis - ICPMS 2474005 Batch QC1205484018 LCS 1.92 2.00 mg/L 95.8 (80%-120%) PRB 08/19/23 03:09 Aluminum Antimony 0.0500 0.0466 mg/L 93.1 (80%-120%) 0.0500 0.0482 Arsenic mg/L 96.4 (80%-120%) 0.0542 Barium 0.0500 mg/L 108 (80%-120%) Beryllium 0.0500 0.0493 98.6 mg/L (80%-120%) Boron 0.100 0.0965 mg/L 96.5 (80%-120%) 0.0488 Cadmium 0.0500 mg/L 97.6 (80%-120%) Calcium 2.00 2.08 mg/L 104 (80%-120%) Chromium 0.0500 0.0472 94.4 mg/L(80%-120%) 0.0471 Cobalt 0.0500 mg/L 94.3 (80%-120%) 1.83 Iron 2.00 mg/L 91.7 (80%-120%) 0.0500 0.0492 98.4 Lead mg/L (80%-120%) Lithium 0.0500 0.0464 mg/L 92.8 (80%-120%) 2.00 1.94 97 Magnesium (80%-120%) mg/L Manganese 0.0500 0.0468 mg/L 93.6 (80%-120%)

Workorder:

632699

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QC Summary

Workorder: 632699 Page 3 of 11 QC RPD% REC% Range Parmname NOM Sample Qual Units Anlst Date Time Metals Analysis - ICPMS 2474005 Batch Molybdenum 0.0500 0.0495 mg/L 99 (80%-120%) PRB 08/19/23 03:09 Potassium 2.00 2.00 mg/L 99.8 (80%-120%) Selenium 0.0500 0.0488 mg/L97.6 (80%-120%) Silver 0.0500 0.0494 98.8 mg/L(80%-120%) Sodium 2.00 1.93 mg/L 96.3 (80%-120%) 0.0485 Thallium 0.0500 mg/L96.9 (80%-120%) QC1205484017 MB U 08/19/23 03:05 Aluminum ND mg/LND U mg/L Antimony U ND Arsenic mg/LU Barium ND mg/L Beryllium U ND mg/LU ND Boron mg/LCadmium U ND mg/LU ND Calcium mg/LChromium U ND mg/L

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QC Summary

Page 4 of 11 QC RPD% REC% Parmname NOM Sample Qual Units Range Anlst Date Time Metals Analysis - ICPMS 2474005 Batch Cobalt U ND mg/L PRB 08/19/23 03:05 Iron U ND mg/L U Lead ND mg/LLithium U ND mg/LMagnesium U ND mg/L U ND mg/LManganese U ND Molybdenum mg/LU ND Potassium mg/LU ND Selenium mg/L Silver U ND mg/LU ND Sodium mg/L Thallium U ND mg/L QC1205484019 632699001 MS Aluminum 2.00 U ND 1.90 mg/L94.8 (75%-125%) 08/19/23 03:16 0.0500 U ND 0.0485 97 (75%-125%) Antimony mg/L Arsenic 0.0500 U ND 0.0483 mg/L94.6 (75% - 125%)

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Workorder:

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QC Summary

632699 Page 5 of 11 Parmname NOM Sample Qual QC Units RPD% REC% Range Anlst Date Time Metals Analysis - ICPMS 2474005 Batch Barium 0.0500 0.0337 0.0860 mg/L105 (75%-125%) PRB 08/19/23 03:16 Beryllium 0.0500 U ND 0.0503 101 (75%-125%) mg/L Boron 0.100 0.0199 0.115 mg/L95.4 (75%-125%) 0.0500 U ND 0.0494 Cadmium mg/L 98.7 (75%-125%) Calcium 2.00 8.51 10.4 mg/L N/A (75%-125%) ND 0.0500 U 0.0491 (75% - 125%)Chromium mg/L95.6 0.0500 U ND 0.0473 Cobalt mg/L 94.5 (75%-125%) Iron 2.00 U ND 1.84 91.8 mg/L (75% - 125%)ND 0.0500 U 0.0489 97.9 Lead mg/L (75%-125%) Lithium 0.0500 J 0.00382 0.0508 93.9 mg/L(75% - 125%)2.00 3.36 5.23 93.4 (75%-125%) Magnesium mg/L 0.0500 U ND 0.0478 95.6 Manganese mg/L (75%-125%) 0.0511 Molybdenum 0.0500 J 0.000421 mg/L 101 (75%-125%) Potassium 2.00 2.08 4.03 97.4 (75% - 125%)mg/L 0.0500 U ND 0.0495 98.3 Selenium mg/L (75%-125%)

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QC Summary

632699 Page 6 of 11 **Parmname** NOM Sample Qual QC Units RPD% REC% Range Anlst Date Time Metals Analysis - ICPMS 2474005 Batch Silver 0.0500 U ND 0.0497 mg/L99.3 (75% - 125%)PRB 08/19/23 03:16 Sodium 2.00 9.51 11.3 N/A (75%-125%) mg/L Thallium 0.0500 U ND 0.0474 mg/L 94.7 (75% - 125%)QC1205484020 632699001 MSD Aluminum 2.00 U ND 1.88 mg/L 0.976 93.9 (0%-20%)08/19/23 03:20 0.0500 U ND 0.0482 0.707 Antimony mg/L 96.3 (0%-20%)Arsenic 0.0500 ND 0.0490 mg/L 1.39 96 (0%-20%)Barium 0.0500 0.0337 0.0864 0.392 105 (0%-20%)mg/L ND 0.0510 Beryllium 0.0500 U mg/L 1.31 102 (0%-20%)0.100 0.0199 97.2 Boron 0.117 1.5 (0%-20%)mg/L 0.0500 U ND 0.0481 (0%-20%)Cadmium mg/L 2.66 96.1 8.51 10.3 Calcium 2.00 mg/L 0.681 N/A(0%-20%)ND Chromium 0.0500 U 0.0485 mg/L (0%-20%)1.1 94.6 Cobalt 0.0500 U ND 0.0479 95.6 (0%-20%)mg/L 1.16 ND U 1.85 92.3 2.00 mg/L 0.502 (0%-20%)Iron Lead 0.0500 U ND 0.0486 mg/L 0.749 97.1 (0%-20%)

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QC Summary

632699 Page 7 of 11 **Parmname** NOM Sample Qual QC Units RPD% REC% Range Anlst Date Time Metals Analysis - ICPMS 2474005 Batch Lithium 0.0500 0.00382 0.0510 mg/L0.45 94.4 (0%-20%)PRB 08/19/23 03:20 2.00 3.36 5.17 90.4 (0%-20%)Magnesium mg/L 1.16 Manganese 0.0500 ND 0.0475 mg/L 0.646 95 (0%-20%)0.0512 102 Molybdenum 0.0500 J 0.000421 mg/L 0.186 (0%-20%)Potassium 2.00 2.08 3.99 mg/L 0.917 95.6 (0%-20%)0.0500 U ND 0.0505 mg/L 100 (0%-20%)Selenium 1.95 0.0500 U ND 0.0495 Silver mg/L 0.347 99 (0%-20%)Sodium 2.00 9.51 11.2 0.99 N/A (0%-20%)mg/L ND 0.0500 U 0.0478Thallium mg/L 0.879 95.5 (0%-20%)QC1205484021 632699001 SDILT U ND U ND (0%-20%)08/19/23 03:27 Aluminum ug/L N/A U ND U ND N/A ug/L (0%-20%)Antimony U ND U ND ug/L (0%-20%)Arsenic N/A Barium 33.7 6.29 6.57 (0%-20%)ug/L U ND U ND Beryllium ug/L N/A (0%-20%)Boron 19.9 U ND ug/L N/A (0%-20%)

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QC Summary

Workorder: 632699 Page 8 of 11 QC RPD% REC% **Parmname** NOM Sample Qual Units Range Anlst Date Time Metals Analysis - ICPMS 2474005 Batch U Cadmium ND U ND ug/L N/A (0%-20%)PRB 08/19/23 03:27 Calcium 8510 1720 ug/L .997 (0%-20%)U Chromium ND U ND ug/L N/A (0%-20%)U ND U ND Cobalt ug/L N/A (0%-20%)U Iron ND U ND ug/L N/A (0%-20%)U ND ug/L ND U N/A (0%-20%)Lead J Lithium 3.82 U ND (0%-20%) ug/L N/A 3360 Magnesium 663 1.22 (0%-20%)ug/L U U ND ND ug/L (0%-20%) Manganese N/A J 0.421 U ND N/A (0%-20%)Molybdenum ug/L 2080 395 Potassium 5.08 (0%-20%)ug/L Selenium U ND U ND ug/L N/A (0%-20%) U Silver ND U ND ug/L N/A (0%-20%)Sodium 9510 1890 ug/L .846 (0%-20%)U U (0%-20%) Thallium ND ND N/A ug/L

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QC Summary

632699 Page 9 of 11 Parmname NOM Sample Qual QC Units RPD% REC% Range Anlst Date Time Metals Analysis-Mercury 2474015 Batch QC1205484047 632582001 DUP U ND ND U mg/L JP2 08/11/23 09:58 Mercury N/A QC1205484046 LCS 0.00200 0.00199 Mercury mg/L 99.6 (80%-120%) 08/11/23 09:52 QC1205484045 MB U ND 08/11/23 09:50 Mercury mg/L QC1205484048 632582001 MS 0.00200 U ND 0.00195 97.3 (75%-125%) 08/11/23 10:00 Mercury mg/LQC1205484049 632582001 SDILT 08/11/23 10:02 U ND U ND ug/L N/A (0%-10%)Mercury **Nutrient Analysis** Batch 2473982 QC1205485196 632699001 DUP Nitrogen, Nitrate/Nitrite 1.83 1.79 mg/L 1.94 (0%-20%) AXH3 08/11/23 11:36 QC1205483979 LCS 1.00 1.03 Nitrogen, Nitrate/Nitrite mg/L 103 (90%-110%) 08/11/23 11:23 QC1205483978 MB 08/11/23 11:22 U ND Nitrogen, Nitrate/Nitrite mg/L QC1205485195 632699001 PS 1.00 0.365 1.34 97.5 (90%-110%) 08/11/23 11:37 Nitrogen, Nitrate/Nitrite mg/L **Solids Analysis** 2474115 QC1205484191 632609002 DUP **Total Dissolved Solids** 266 263 mg/L 1.13 (0%-5%)CH6 08/10/23 14:35

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QC Summary

			E	•	,					
Workorder: 632699										Page 10 of 11
Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Solids Analysis										
Batch 2474115										
QC1205484188 LCS										
Total Dissolved Solids	300			303	mg/L		101	(95%-105%)	CH6	08/10/23 14:35
QC1205484187 MB										
Total Dissolved Solids			U	ND	mg/L					08/10/23 14:35
					C					
Titration and Ion Analysis										
Batch 2474137 ———										
QC1205484237 632699001 DUP										
Alkalinity, Total as CaCO3		37.0		36.8	mg/L	0.542		(0%-20%)	HH2	08/11/23 09:58
Bicarbonate alkalinity (CaCO3)		37.0		36.8	mg/L	0.542		(0%-20%)		
, , , , , , , , , , , , , , , , , , ,					8			(,		
Carbonate alkalinity (CaCO3)	U	ND	U	ND	mg/L	N/A				
careeran anamany (career)						1,712				
QC1205484236 LCS										
Alkalinity, Total as CaCO3	50.0			52.4	mg/L		105	(90%-110%)		08/11/23 09:54
QC1205484238 632699001 MS										
Alkalinity, Total as CaCO3	50.0	37.0		87.6	mg/L		101	(80%-120%)		08/11/23 10:00

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

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

QC Summary

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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.

632699

- ND Analyte concentration is not detected above the detection limit
- Е % 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
- N1See case narrative

Workorder:

- Y Other specific qualifiers were required to properly define the results. Consult case narrative.
- 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 R purposes.
- The target analyte was detected in the associated blank. R
- 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 e reporting purposes
- 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.

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Technical Case Narrative Georgia Power Company SDG #: 632699

Metals

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

Analytical Batch: 2474005

Preparation Method: SW846 3005A

Preparation Procedure: GL-MA-E-006 REV# 14

Preparation Batch: 2474004

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

GEL Sample ID#	Client Sample Identification
632699001	ARK-ARGWA-19
632699002	ARK-AP2-FD-01
632699003	ARK-ARGWC-22
632699004	ARK-ARAMW-7
632699005	ARK-AP2-FB-01
632699006	ARK-ARAMW-9
632699007	ARK-ARAMW-2
632699008	ARK-ARAMW-1
632699009	ARK-ARGWC-23
1205484017	Method Blank (MB) ICP-MS
1205484018	Laboratory Control Sample (LCS)
1205484021	632699001(ARK-ARGWA-19L) Serial Dilution (SD)
1205484019	632699001(ARK-ARGWA-19S) Matrix Spike (MS)
1205484020	632699001(ARK-ARGWA-19SD) 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

CRDL/PQL Requirements

The CRDL standard recoveries for SW846 6020B met the advisory control limits with the exception of magnesium and calcium. Client sample concentrations were less than the MDL or greater than two times the CRDL; therefore the data were not adversely affected.

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

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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 632699003 (ARK-ARGWC-22), 632699004 (ARK-ARAMW-7), 632699006 (ARK-ARAMW-9), 632699007 (ARK-ARAMW-2), 632699008 (ARK-ARAMW-1) and 632699009 (ARK-ARGWC-23) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument.

	632699					
Analyte	003	004	006	007	008	009
Boron	20X	20X	1X	20X	20X	10X
Calcium	20X	20X	10X	20X	20X	10X
Magnesium	20X	20X	1X	1X	1X	1X
Manganese	20X	20X	1X	1X	1X	1X
Sodium	1X	1X	10X	1X	1X	1X

Product: Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer

Analytical Method: SW846 7470A

Analytical Procedure: GL-MA-E-010 REV# 39

Analytical Batch: 2474015

Preparation Method: SW846 7470A Prep

Preparation Procedure: GL-MA-E-010 REV# 39

Preparation Batch: 2474012

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

GEL Sample ID#	Client Sample Identification
632699001	ARK-ARGWA-19
632699002	ARK-AP2-FD-01
632699003	ARK-ARGWC-22
632699004	ARK-ARAMW-7
632699005	ARK-AP2-FB-01
632699006	ARK-ARAMW-9
632699007	ARK-ARAMW-2
632699008	ARK-ARAMW-1
632699009	ARK-ARGWC-23
1205484045	Method Blank (MB)CVAA
1205484046	Laboratory Control Sample (LCS)
1205484049	632582001(NonSDGL) Serial Dilution (SD)
1205484047	632582001(NonSDGD) Sample Duplicate (DUP)
1205484048	632582001(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.

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General Chemistry

Product: Ion Chromatography Analytical Method: EPA 300.0

Analytical Procedure: GL-GC-E-086 REV# 32

Analytical Batch: 2473965

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

GEL Sample ID#	Client Sample Identification
632699001	ARK-ARGWA-19
632699002	ARK-AP2-FD-01
632699003	ARK-ARGWC-22
632699004	ARK-ARAMW-7
632699005	ARK-AP2-FB-01
632699006	ARK-ARAMW-9
632699007	ARK-ARAMW-2
632699008	ARK-ARAMW-1
632699009	ARK-ARGWC-23
1205483948	Method Blank (MB)
1205483949	Laboratory Control Sample (LCS)
1205483950	632604002(NonSDG) Sample Duplicate (DUP)
1205483951	632604002(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 632699003 (ARK-ARGWC-22), 632699004 (ARK-ARAMW-7), 632699006 (ARK-ARAMW-9), 632699007 (ARK-ARAMW-2), 632699008 (ARK-ARAMW-1) and 632699009 (ARK-ARGWC-23) were diluted because target analyte concentrations exceeded the calibration range. Sample 632699003 (ARK-ARGWC-22) was diluted to minimize matrix effects on instrument performance. Sample 632699003 (ARK-ARGWC-22) was diluted based on historical data. 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.

A 1 4.	632699					
Analyte	003	004	006	007	008	009
Chloride	10X	1X	50X	1X	1X	1X
Fluoride	2X	1X	1X	1X	1X	1X
Sulfate	100X	100X	50X	50X	50X	5X

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<u>Product:</u> Nitrate/Nitrite Cad Redux Low Level <u>Analytical Method:</u> EPA 353.2 Low Level <u>Analytical Procedure:</u> GL-GC-E-128 REV# 11

Analytical Batch: 2473982

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

GEL Sample ID#	Client Sample Identification
632699001	ARK-ARGWA-19
632699002	ARK-AP2-FD-01
632699003	ARK-ARGWC-22
632699004	ARK-ARAMW-7
632699005	ARK-AP2-FB-01
632699006	ARK-ARAMW-9
632699007	ARK-ARAMW-2
632699008	ARK-ARAMW-1
632699009	ARK-ARGWC-23
1205483978	Method Blank (MB)
1205483979	Laboratory Control Sample (LCS)
1205485195	632699001(ARK-ARGWA-19) Post Spike (PS)
1205485196	632699001(ARK-ARGWA-19) 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.

Technical Information

Sample Dilutions

The following samples 1205485195 (ARK-ARGWA-19PS), 1205485196 (ARK-ARGWA-19DUP), 632699001 (ARK-ARGWA-19), 632699002 (ARK-AP2-FD-01) and 632699009 (ARK-ARGWC-23) 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.

Amalada	632699		
Analyte	001	002	009
Nitrogen, Nitrate/Nitrite	5X	5X	5X

Sample Re-analysis

Samples 632699008 (ARK-ARAMW-1) and 632699009 (ARK-ARGWC-23) were re-analyzed due to instrument failure. The results from the reanalysis are reported.

Product: Solids, Total Dissolved **Analytical Method:** SM 2540C

Analytical Procedure: GL-GC-E-001 REV# 21

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Analytical Batch: 2474115

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

GEL Sample ID#	Client Sample Identification
632699001	ARK-ARGWA-19
632699002	ARK-AP2-FD-01
632699003	ARK-ARGWC-22
632699004	ARK-ARAMW-7
632699005	ARK-AP2-FB-01
632699006	ARK-ARAMW-9
632699007	ARK-ARAMW-2
632699008	ARK-ARAMW-1
632699009	ARK-ARGWC-23
1205484187	Method Blank (MB)
1205484188	Laboratory Control Sample (LCS)
1205484191	632609002(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 matrix interference. 632699003 (ARK-ARGWC-22), 632699004 (ARK-ARAMW-7) and 632699006 (ARK-ARAMW-9).

Product: Alkalinity

Analytical Method: SM 2320B

Analytical Procedure: GL-GC-E-033 REV# 15

Analytical Batch: 2474137

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

GEL Sample ID#	Client Sample Identification
632699001	ARK-ARGWA-19
632699003	ARK-ARGWC-22
632699004	ARK-ARAMW-7
632699006	ARK-ARAMW-9
632699007	ARK-ARAMW-2
632699008	ARK-ARAMW-1
632699009	ARK-ARGWC-23
1205484236	Laboratory Control Sample (LCS)
1205484237	632699001(ARK-ARGWA-19) Sample Duplicate (DUP)
1205484238	632699001(ARK-ARGWA-19) 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.

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.

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Technical Case Narrative Georgia Power Company SDG #: 633126

Metals

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

Analytical Batch: 2475579

Preparation Method: SW846 3005A

Preparation Procedure: GL-MA-E-006 REV# 14

Preparation Batch: 2475578

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

GEL Sample ID#	Client Sample Identification
633126001	ARK-ARGWC-21
633126002	ARK-AP2-EB-01
633126003	ARK-ARAMW-8
633126004	ARK-ARGWA-20
633126005	ARK-STNTW-22
1205486561	Method Blank (MB)ICP-MS
1205486562	Laboratory Control Sample (LCS)
1205486565	633126001(ARK-ARGWC-21L) Serial Dilution (SD)
1205486563	633126001(ARK-ARGWC-21S) Matrix Spike (MS)
1205486564	633126001(ARK-ARGWC-21SD) 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

CRDL/PQL Requirements

The CRDL standard recoveries for SW846 6020B met the advisory control limits with the exception of calcium. Client sample concentrations were less than the MDL or greater than two times the CRDL; therefore the data were not adversely affected.

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 633126001 (ARK-ARGWC-21),

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633126003 (ARK-ARAMW-8) and 633126005 (ARK-STNTW-22) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument.

Analysta	633126			
Analyte	001	003	005	
Boron	10X	10X	100X	
Calcium	10X	10X	10X	
Manganese	1X	1X	100X	

Product: Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer

Analytical Method: SW846 7470A

Analytical Procedure: GL-MA-E-010 REV# 39

Analytical Batch: 2475854

Preparation Method: SW846 7470A Prep

Preparation Procedure: GL-MA-E-010 REV# 39

Preparation Batch: 2475853

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

GEL Sample ID#	Client Sample Identification
633126001	ARK-ARGWC-21
633126002	ARK-AP2-EB-01
633126003	ARK-ARAMW-8
633126004	ARK-ARGWA-20
633126005	ARK-STNTW-22
1205487203	Method Blank (MB)CVAA
1205487204	Laboratory Control Sample (LCS)
1205487213	632954001(NonSDGL) Serial Dilution (SD)
1205487211	632954001(NonSDGD) Sample Duplicate (DUP)
1205487212	632954001(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# 32

Analytical Batch: 2475685

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

GEL Sample ID#	Client Sample Identification
633126001	ARK-ARGWC-21
633126002	ARK-AP2-EB-01
633126003	ARK-ARAMW-8
633126004	ARK-ARGWA-20
633126005	ARK-STNTW-22
1205486795	Method Blank (MB)
1205486796	Laboratory Control Sample (LCS)
1205486797	632744003(NonSDG) Sample Duplicate (DUP)
1205486798	632744003(NonSDG) Post Spike (PS)
	633126001 633126002 633126003 633126004 633126005 1205486795 1205486796 1205486797

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 1205486797 (Non SDG 632744003DUP), 1205486798 (Non SDG 632744003PS), 633126001 (ARK-ARGWC-21), 633126003 (ARK-ARAMW-8) and 633126005 (ARK-STNTW-22) 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.

A a la a		63312	26
Analyte	001	003	005
Sulfate	25X	10X	100X

<u>Product:</u> Nitrate/Nitrite Cad Redux Low Level <u>Analytical Method:</u> EPA 353.2 Low Level <u>Analytical Procedure:</u> GL-GC-E-128 REV# 11

Analytical Batch: 2475768

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

GEL Sample ID#	Client Sample Identification
633126006	ARK-ARGWC-21
633126007	ARK-AP2-EB-01
633126008	ARK-ARAMW-8
633126009	ARK-ARGWA-20
633126010	ARK-STNTW-22
1205487030	Method Blank (MB)
1205487031	Laboratory Control Sample (LCS)
1205487034	633126010(ARK-STNTW-22) Sample Duplicate (DUP)
1205487035	633126010(ARK-STNTW-22) Post Spike (PS)

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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
Nitrogen, Nitrate/Nitrite	1205487035 (ARK-STNTW-22PS)	78.4* (90%-110%)

Product: Solids, Total Dissolved **Analytical Method:** SM 2540C

Analytical Procedure: GL-GC-E-001 REV# 21

Analytical Batch: 2477178

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

GEL Sample ID#	Client Sample Identification
633126001	ARK-ARGWC-21
633126002	ARK-AP2-EB-01
633126003	ARK-ARAMW-8
633126004	ARK-ARGWA-20
1205489453	Method Blank (MB)
1205489454	Laboratory Control Sample (LCS)
1205489455	633255002(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: Alkalinity

Analytical Method: SM 2320B

Analytical Procedure: GL-GC-E-033 REV# 15

Analytical Batch: 2476209

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

GEL Sample ID#	Client Sample Identification
633126001	ARK-ARGWC-21
633126003	ARK-ARAMW-8
633126004	ARK-ARGWA-20
633126005	ARK-STNTW-22
1205487865	Laboratory Control Sample (LCS)
1205487866	633099001(ARK-ARGWC-24) Sample Duplicate (DUP)
1205487867	633099001(ARK-ARGWC-24) Matrix Spike (MS)
1205487868	633099016(ARK-ARGWA-14) Sample Duplicate (DUP)
1205487869	633099016(ARK-ARGWA-14) 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.

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.

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2 Coolers	1-0		n of CL	SEL P	and An	Chain of Custody and Analytical Request GEL Project Manager: Erin Trem	Redue	St #				,	Phone Fax: (Phone: (843) 556-8171 Fax: (843) 766-1178	178			7	Sr- X
Class Name: Georgia Power		Phone # (937-344-6533)	7-344-65	33)	_				Sample Analysis Requested	nalysi	s Requ		(S) (Fill	in the nu	mber of	contai	iners for	(Fill in the number of containers for each test)	
98 Project/Site Name: Plant Arkwright Ash Pond 2		Fax:				Should this		IN	IN	IN		IN	IN	IN		IN	IN		< Preservative Type (6)
Adjess: 241 Ralph McGill Blvd SE, Atlanta, GA 30308	A 30308					sample be considered:					(ətsî		pqu						
Codected By: John Myer, Dylan Quintal, Dylan Rigey, Houston Lynn	Send Results To: jabraham@southernco.com EDD@stantec.com edgar.smith@stantec.com	thernco.com E	DD@stan	tec.com	11)		spres			(1.2	10C)	_	40,00					(tas	Comments (task code: ARK-CCR-
Sample ID *For composites, indicate start and star date time	*Date Collected	*Time Collected (Military)	QC Code (3)	Field Filtered (3)	Sample Matrix (4)	yes, please su isotopic info. (7) Known o	saH əldizsoq	.qqA) gA	qqA slatsM	Alkalini R. TDS (SN	D) snoinA	58 0.00E) Slst5M (60)	KAD 226	Fe2+ / M Method 60		Mercury Metals	Иа, Fe, М	, and	ASSMT-2023S1)
ARK-ARGWC-21			z		WG			X 6	×	×	×	×	×	×	X	×		See N	See Nitrate/Nitrite COC
ARK-AP2-EB-01	08-09-23	1110	FB	z	WQ			7	×	×		×	×		X			for th	for their times
ARK-ARAMW-8	08-09-23	1115	z	Y	MG		Ť	X 6	×	×	×	×	×	×	×	×			
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3	Chain of Custody Signatures							TA	TAT Requested:	rested:	Normal:	al:	Rush:		Specify:		(Sı	(Subject to Surcharge)	urcharge)
Relinquished By (Signed) Print Name	Date Received by (signed)		Print Name		Date	Fax	Fax Results: [] Yes	:: [] Y		(X)No									
E John Myc	or 8/11/23 Charty	NA	一大い) hus	Vascol	8/11/83	Sect Deliverable: [] C of A [] QC Summary	verable:	[]Co	[] AJ	OC Su	mmary	[] level 1		[X] Level 2		[]Level3 [[] Level 4	
	DING TAKE	N 81	11/2	K	8	Ade	Additional Remarks	Remark	.8:										
	3	,	2			Fo	For Lab Receiving Use Only: Custody Seal Intact? [] Yes	eceiving	Use Or	ty: Cu	S stoots	eal Inta	ct? []	ب	io Co	Cooler Temp:	:du	20	
ing and delivery details, see	> For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)	(SRR.)			S	Sample Collection Time Zone: [X] Eastern	ection I	ime Zoi	ne: [X] Easter		Pacific	Ĩ	[]Pacific []Central [] Moun	tain	[] Mountain [] Other:		
Chain of Custody Number = Client Determined QC Codes: N = Normal Sample, TB = Trip Blank, FD = 3 Trist Ellipsed For Innuit matrices indicate with a V - 6	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 Strick Element From the Composite Strick Element For Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite Strick Element From the Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite Strick Element From the Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite Strick Element From the Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite Spike Sample, MSD = Matrix Spike Sample, MSD = Matrix Spike Sample, G = Grab, C = Composite Spike Sample, MSD = Matrix Spike Sample, MSD = Matrix Spike Sample, G = Grab, C = Composite Spike Sample, MSD = Matrix Spike Sample, MSD = Matrix Spike Sample, G = Grab, C = Composite Spike Sample, MSD = Matrix Spike Sample, MSD = Matrix Spike Sample, G = Grab, C = Composite Spike Sample, MSD = Matrix Spike Sample, G = Grab, G =	k, MS = Matrix N - for sample w	Spike Sam	ple, MSD = filtered.	- Matrix Spil	ce Duplicate S	Sample, G	= Grab, C	C = Comp	osite									
=Drinking Water, GW=Groundwater, quested: Analytical method requeste	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, S.) Sample Analysis Requested. Analytical method requested (i.e. 82608, 60108/7470A) and number of containers provided for each (i.e. 82608 - 3, 60108/7470A - 1).	r, W=Water, MI er of containers	L=Misc Lic provided for	puid, SO=S or each (i.e.	oil, SD=Sed	D=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=Nasal (i.e. 8260B - 3, 6010B.7470A - 1). LEASTOR ST = Sodium Thioculfate If no preservative is added = leave field blank	udge, SS= - 1). Thiosulfat	Solid Was	ste, 0=0i	, F=Filte	r, P=Wip	e, U=Uri	ne, F=Fec	al, N=Nasal					
 Preservative Type: HA = Hydrochloric Acid, NI = Nitric 7.) KNOWN OR POSSIBLE HAZARDS 	6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfutir Acid, AA = Ascolor Acid, A7.) KNOWN OR POSSIBLE HAZARDS Characteristic Hazards Listed Waste	Listed Waste	Waste		Trevaile,	O	Other									P	lease pro	vide any ac	Please provide any additional details below
Hg= Mercury	FL = Flammable/Ignitable CO = Corrosive RE = Reactive	LW = L (F, K, P) $Waste c$	LW= Listed Waste (F,K,P and U-listed Waste code(s):	LW= Listed Waste (F,K,P and U-listed wastes.) Waste code(s):	25.)	(i.e mis	OT= Other / Unknown f.e.: High·low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.) Description:	' / Unkn Iow pH, h hazare	own asbestc ds, etc.)	s, bery	llium, ir	ritants,	other			204	egarding .e.: Origi	regarding handling and (i.e.: Origin of sample(s) from, odd matrices, etc.)	regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)
Ag= Silver MR= Misc. RCRA metals	TSCA Regulated PCB = Polychlorinated biphenyls															ш	Origni collec preserved	ially Nitrate ted in unpra Nitrate/Nit	Originally Nitrate by N were originally collected in unpreserved bottles; Later preserved Nitrate/Nitrite bottles were sent and collected from wells on 810/2033

GEL Work Order Number: Chain of Clustody and Analytical Requested Send Number: Chain of Clustody and Analytical Requested Send Results Stock Order Number: Chain of Clustody and Analytical Requested Send Results Se	Radiochemistry Radiobioassay Specialty Analytics Radiochemistry Radiobioassay Specialty Analytics Project Manager: Erin Trent Sample Analysis Requested Sample Sample Hazards Sample Sample Hazards Sample (If Sample Hazards Sample (If Sample Hazards Sample (If Sample Hazards Sample (If Sample Hazards Total number of containers (7) Poossible Hazards Total number of containers Total number of containers Total number of containers Total number of containers Sample Analysis Requested Sample Analys
Coolers Chain of Custody and Analytical Request Specially Analytical Request Chain of Custody and Analytical Request	Should this Sample Analysis Requested Charleston, SC 29407
CFL Work Order Number: CFL Project Manager: Erin Trent Floor # (973-344-6533) Should this sample be calculated collected Collect	Sample Manager: Erin Trent Should this sample be considered: Sample Analysis Requested (5) (Fill in the number of containers for each sample be considered: (If y yes, please supply yes, please yes, pleas
GEL Work Order Number: GEL Project Manager: Erin Trent Sample Analysis Requested Should this sample be considered: S	Should this sample be considered: Sample Analysis Requested (5) (Fill in the number of containers for each yes, please supply yield possible Harards Total number of containers for each Alatrix (4) Kinown or possible Harards Total number of containers for each Alatrix (4) Kinown or Method 353.2)
Single S	Sample Analysis Requested (5) (Fill in the number of containers for each gample hazards Sample be considered: (7) Known or possible Hazards Total number of containers Alitzate/Nitrite (EPA Method 353.2) Method 353.2)
Should this sample be considered: Should this sample be considered: Send Results Send Re	Nound this isotopic info) Radioactive (If yes, please supply isotopic info) (7) Known or possible Hazards Total number of containers As As As As As As As As As As As As As A
Send Results To. jabraham@southernco.com EDD@stantec.com Considered	Sample Radioactive (II yes, please supply isotopic info.) (7) Known or possible Hazards Total number of container Mitrate/Mitrite (EPA Mitrate/Mitrite (EPA
Send Results To: jabraham@southerneo.com EDD@stantee.com Code of Prileted Collected Code of Prileted Code of Office of Of	Nostrice (II. Radioactive (II. Radioactive (II. Pess, please supply isotopic info.) (7) Known or possible Hazards Total number of con Method 353.2.
Table Collected Collected	Sample Sa
RK-AP2-EB-01 08-10-23 1947 N WG 1 R RK-AP2-EB-01 08-10-23 1925 FB N WG 1 R RK-AP2-EB-01 08-10-23 1936 N N WG 1 R RK-ARGWA-20 08-10-23 1935 N N WG 1 R RK-STNTW-22 08-10-23 1935 N N WG 1 R RK-STNTW-22 08-10-23 1935 N N WG 1 I Chain of Custody Signatures Received by (signed) Print Name Part Results: [] Yes [X] No Colon Mily yr yr Signatures Additional Remarks: Received by (signed) I	
RK-AP2-EB-01 08-10-23 1925 FB N WG 1 N MG 1 N MG N N MG N N MG N <t< td=""><td></td></t<>	
RK-ARAMW-8	WQ 1
RK-STNTW-22 08-10-23 1953 N N WG 1 1	
RK-STNTW-22 08-10-23 1935 N NG NG NG NG NG NG NG	
Chain of Custody Signatures	WG
Chain of Custody Signatures Print Name Date Received by (signed) Print Name Date Fax Results: [] Yes [X] Normal: COMM YEVE 8/11/23 Additional Remarks: SWAPTHOOFINE SIGNATURE Additional Remarks: For Lab Receiving Use Only: Custody Seal Intac	
Chain of Custody Signatures Print Name Date Received by (signed) Print Name Date Fax Results: [] Yes [X] No COMM XIVE BILLD 100 And Anthony Ways 8/11/25 Select Deliverable: [] C of A [] QC Summary 2 WWYTH WAYS 4/11/25 Acceiving Use Only: Custody Seal Intace	
Chain of Custody Signatures TAT Requested: Normal: Print Name Date Received by (signed) Print Name Date Fax Results: [] Yes [X] No Additional Remarks: 2 WWP FINDENCE 2 MWP FINDENCE BILL S Additional Remarks: For Lab Receiving Use Only: Custody Seal Intace	
Print Name Date Received by (signed) Print Name Date Fax Results: [] Yes [X] No Ohn	100
Willy Cohnilly wife 8/11/23 work and 11/23 select Deliverable: [10 of A [100 Summary]] 2 Was Jahrson 11/23 1400 Additional Remarks: 3	Fax Results: [] Yes
MARTENDENC 8/11/23 1400 Additional Remarks: For Lab Receiving Use Only: Custody Seal Intac	d 8/11/23
For Lab Receiving Use Only: Custody Seal Intact? [] Y	Additional Remarks:
	For Lab Receiving Use Only: Custody Seal Intact? [] Yes [] No Cooler Temp:
ils, see Sample Receipt & Review form (SRR.)	Sample Collection Time Zone: [X] Eastern [] Pacific [] Central [] Mountain [] Other:
 Chain of Custody Number = Client Determined 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 Field Filtered: For liquid matrices, indicate with a - Y - for yeas the sample was field filtered or - N - for sample was not field filtered. 	ASD = Matrix Spike Duplicate Sample, G = Grab, C = Composite ed.
4.) Matrix Codes; DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, MW=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 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). 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).	
Listed Waste	
RCRA Metals OI= Other / Unknown RCRA Metals CO = Corrosive (F.K.P and U-listed wastes.) (i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.) As = Arsenic Hg= Mercury RE = Reactive Waste code(s): Description:	
um Ag= Silver TSCA Regulated um MR= Misc. RCRA metals biphenyls	Originally Nittate by N were originally collected in unpreserved bottles; Later preserved Nitrate/Nitrite bottles were sent and
	collected from wells on 8/10/2023

Particle Particle	Page: 2 of 2 Project # 175569434		<u>ш</u>	The second second	abor	ator	les II	0					S 65	GEL Laboratories, 2040 Savage Road	GEL Laboratories, LLC 2040 Savage Road	Q	C	COPIES	
Should this Should this			gel.oc	The Che	mistry I Ra	liochemist	y I Radiobioa	ssay I Spec	ialty Ana	ytics			C C	arleston,	SC 29407	50.3		70	(
Sample Analysis Requested Citill in the number of containers for each considered: Sample be Sample Analysis Requested Citill in the number of containers for each considered: Sample be Sample collection Sample Collectio	5	GEL Work Order Number		5	GEL P	roject M	anythean r	in Trem				ŀ	T. E	one: (843)	556-817	_	7	1	V
Sthould this Sthould this	(Pent Name: Georgia Power		Phone # (93	7-344-6	33)		0			ple An	alysis I	Request	(E)	Fill in th	e number	r of conta	ainers for ea	ch test)	
Sample to considered:	Socy Site Name: Plant Arkwright Ash Pond 2	Nitrate/Nitrite COC	Fax:				Should this	-					-		VS			< Pre	servative Type (6)
Sumple	Arress: 241 Ralph McGill Blvd SE, Atlanta, C	iA 30308					sample be considered						-	_					
Sempio S	Collected By: John Myer, Dylan Quintal, Dylan Rolley, Houston Lynn		итнетсо.сот Е	DD@star	tec.com	31)										(maaa			Omments
WG 1 1	Sample ID * For composites - indicate start and stop a	ate/time	*Time Collected (Military) (hhmm)	QC Code (2)	6		yes, please su isotopic info.)											(task_c ASS	ode: ARK-CCR- MT-2023S1)
WG	ARK-ARGWC-21		1947	Z	Z	WG		1							×				
WG 1	ARK-AP2-EB-01	08-10-23	1925	FB	Z	WQ		1	ā						×				
WG 1	ARK-ARAMW-8	08-10-23	1936	z	z	WG		1							×				
WG TAT Requested: Normal: Specify:	ARK-ARGWA-20	. 08-10-23	1953	Z	N	9M		1							×				
Date Fax Results: [1 Yes [X] Normal: Rush: Specify: Fax Results: [1 Yes [X] No Statistional Remarks: Additional Remarks: Additional Remarks: Additional Remarks: Additional Remarks: Additional Remarks: Additional Receiving Use Only: Custody Seal Intact? [1] Yes [1] No Cooler I Sample Collection Time Zone: [X] Eastem [1] Pacific [1] Central [1] Mountain PM To Lab Receiving Use Only: Custody Seal Intact? [1] Yes [1] No Cooler I Sample Collection Time Zone: [X] Eastem [1] Pacific [1] Central [1] Mountain PM To Lab Receiving Use Only: P-Filter, P-Wipe, U-Urine, F-Fecal, N-Nasal [1] Amountain PM HX - Hesane, ST - Sodium Thiosulfae, if no preservative is added = leave field blank OT = Other (Unknown (i.e.: Highlow PH, asbestos, beryllium, irritants, other misc. Realth hazards, etc.) Other	ARK-STNTW-22	08-10-23	1935	Z	Z	9M		1							×				
Date TAT Requested: Normal: Rush: Specify: Date Fax Results: [] Yes [X] No Additional Remarks: MCO For Lab Receiving Use Only: Castody Seal Intact? [] Yes [] No Cooler? Sample Collection Time Zone: [X] Eastern [] Pacific [] Central [] Mountain Sample Collection Time Zone: [X] Eastern [] Pacific [] Central [] Mountain EVITOLE Sample Collection Time Zone: [X] Eastern [] Pacific [] Central [] Mountain THX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank OT = Other / Unknown OT = Other / Unknown OT = Other / Unknown (i.e. High Yow pH, as bestos, beryllium, irritants, other misc. Health hazards, etc.) Description: Description:																			
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Date Fax Results: [] Yes [X] No Select Deliverable: [] C of A [] QC Summary [] level 1 [X] Level 2 [] Select Deliverable: [] C of A [] QC Summary [] level 1 [X] Level 2 [] Sample Collection Time Zone: [X] Eastern [] Pacific [] Central [] Mountain Sample Collection Time Zone: [X] Eastern [] Pacific [] Central [] Mountain Sample Collection Time Zone: [X] Eastern [] Pacific [] Central [] Mountain Sample Collection Time Zone: [X] Eastern [] Pacific [] Central [] Mountain Sample Collection Time Zone: [X] Eastern [] Pacific [] Central [] Mountain Sample Collection Time Zone: [X] Eastern [] Pacific [] Central [] Mountain Sample Collection Time Zone: [X] Eastern [] Pacific [] Central [] Mountain Sample Collection Time Zone: [X] Eastern [] Pacific [] Central [] Mountain Sample Collection Time Zone: [X] Eastern [] Pacific [] Central [] Mountain Sample Collection Time Zone: [X] Eastern [] Pacific [] Central [] Mountain Sample Collection Time Zone: [X] Eastern [] Pacific [] Central [] Mountain Collection Time Zone: [X] Eastern [] Pacific [] Central [] Mountain Collection Time Zone: [X] Eastern [] Pacific [] Central [] Mountain Collection Time Zone: [X] Eastern [] Pacific [] Central [] Mountain Collection Time Zone: [X] Eastern [] Pacific [] Central [] Mountain Collection Time Zone: [X] Eastern [] Pacific [
Date Fax Results: [] Yes [X] No Select Deliverable: [] C of A [] QC Summary [] level 1 [X] Level 2 [] Select Deliverable: [] C of A [] QC Summary [] level 1 [X] Level 2 [] MODE For Lab Receiving Use Only: Custody Seal Intact? [] Yes [] No Cooler 3 Sample Collection Time Zone: [X] Eastern [] Pacific [] Central [] Mountain Spannix Spike Duplicate Sample, G = Grab, C = Composite D-Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=Nasal (i.e. 3200B - 3, 6010B 74704 - 1). HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank Other Other Unknown Other Other Unknown Other Other Unknown Other Description: Description:		Chain of Custody Signatures				1			TAT	Reques		ormal:	- 8	ush:	Specif	, i	(Subj	ect to Surch	arge)
Select Deliverable: [] C of A [] QC Summary [] level 1 [X] Level 2 [] Select Deliverable: [] C of A [] QC Summary [] level 1 [X] Level 2 [] Select Deliverable: [] C of A [] QC Summary [] level 1 [] Level 2 [] Select Deliverable: [] Level B Select B Sel	_ c			int Name	DS -	e te	Fax	Results: [1 Yes	[X]	92								
DS FSF Additional Remarks: Additional Remarks: Sample Collection Time Zone: [X] Eastern [] Pacific [] Central [] Mountain END For Lab Receiving Use Only: Custody Seal Intact? [] Fes [] No Cooler I END	MMM John	10-241/2410/m/M	- Ant		PSUN	11/8	123 Sele	t Deliver	able: [CofA	[]00	Summa		level 1	[X] Level	-	-	evel 4	
SD = Matrix Spike Duplicate Sample, G = Grab, C = Composite SD = Matrix Spike Duplicate Sample, G = Grab, C = Composite 1. SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=Nasal (i.e. 8260B - 3, 6010B77470A - 1). HX = Hexane, ST = Sodium Thiosulfate, if no preservative is added = leave field blank OT= Other / Unknown (i.e.: High/low pH, axbestos, beryllium, irritants, other misc. health hazards, etc.) Description: Description:	2	2 OWAT	~	7		5	Addi	tional Rei	narks:		-								
Sample Collection Time Zone: [X] Eastern [] Pacific [] Central [] Mountain PLO Pacific [] Central [] Mountain PLO Pacific [] Central [] Mountain PLO Pacific [] Central [] Mountain PLO Pacific [] Central [] Mountain SD = Matrix Spike Duplicate Sample, G = Grab, C = Composite Composi	3	3				至	Por For	Lab Rece	iving U.	se Only.	. Custo	ty Seal I.	itaci? [Cooler Te		S	
SD = Matrix Spike Duplicate Sample, G = Grab, C = Composite 1. 1. 1.	> For sample shipping and delivery details, see 1.) Chain of Custody Number = Client Determined	Sample Receipt & Review form	(SRR.)			Sa	mple Collec	tion Time	Zone:	[X]E	astem	[]Pac	fic [] Central		untain	[] Other:	#	ě
HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank Other	 QC Codes: N = Normal Sample, TB = Trip Blank, FD. Field Filtered: For liquid matrices, indicate with a - Y - 4.) Matrix Codes; DW=Drinking Water, GW=Groundwater S. Semmla Arabiesi Promoterd: Arabidical mathod comparents. 	Field Duplicate, EB = Equipment Blanl for yes the sample was field filtered or - I, SW=Surface Water, WW=Waste Water die 8 82608 KNIMRATAN Need mentals	c, MS = Matrix N - for sample w W=Water, ML	Spike Samp s not field =Misc Liq	le, MSD = illtered.	Matrix Spik	e Duplicate Sa	nple, G = G	irab, C = (Composit	e Filter, P=	Wipe, U=	Jrine, F=F	ecal, N=N	sal				
Characteristic Hazards Listed Waste Other	6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitrix	Acid, SH = Sodium Hydroxide, SA = Si	Ifuric Acid, AA	= Ascorbic	Acid, HX=	Hexane, S	T = Sodium Th	iosulfate, If	no preser	vative is	ol = babbı	ave field b	ank						
CO = Corrosive (F.K.P and U-listed wastes.) (i.e.: High low pH. asbestos, beryllium, irritants, other RE = Reactive Waste code(s): misc. health hazards, etc.) Se= Selenium Ag= Silver PCA Regulated biphenyls MR= Misc. RCRA metals biphenyls	7.) KNOWN OR POSSIBLE HAZARDS	Characteristic Hazards FL = Flammable/Ignitable	Listed V LW=Li	Vaste sted Was	9	h	Othe	r Other / U	inknowi	٦.						P	lease provid	any additio	nal details below disposal concerns.
Ag= Silver TSCA Regulated MR= Misc. RCRA metals PCB = Polychlorinated biphenyls	s	CO = Corrosive RE = Reactive	(F,K,P a Waste co	nd U-list de(s):	ed wastes		(i.e.: misc.	High/low health ho ription:	pH, ast	bestos, l	eryllim	n, irritan	ts, other			25	.e.: Origin o, om, odd mat	sample(s), t	ype of site collected
collected from wells on 8/10/2023		TSCA Regulated PCB = Polychlorinated biphenyls				H								1.1.1		Ε.	Orignially collected preserved Nit	Nitrate by Nin unpreserv	I were originally ed bottles; Later ottles were sent and
				h		N							H				collecte	d from wells	on 8/10/2023

	GEL Laboratories LLC				SAMPLE RECEIPT & REVIEW FORM
CI	ient:			ST	
Re	ceived By: Anna Johnso	V			ate Received: 8/11/23
	Carrier and Tracking Number				Cooler 2-1.9°C Circle Applicable: Cooler 3-2.6°C Cooler 3-2.6°C Cooler 4-0.6°C Cooler 4-0.6°C
Su	spected Hazard Information	Yes	oN	*If	F Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)5	Shipped as a DOT Hazardous?		1	Ha	zard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes No
B) reci	Did the client designate the samples are to be cived as radioactive?		1	Const	C notation of indioactive stickers on containers equal client designation.
	Did the RSO classify the samples as oactive?		1	Ma	eximum Net Counts Observed* (Observed Counts - Area Background Counts):CPM / mR/Hr Classified as: Rad 1 Rad 2 Rad 3
	Did the client designate samples are hazardous? Did the RSO identify possible hazards?		/	於何	C notation or hazard labels on containers equal client designation. Or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:
	Sample Receipt Criteria	Yes	NA	o'N'	Comment (O. 100 Mg. Mg.
1	Shipping containers received intact and sealed?	/	Z	4	Comments/Qualifiers (Required for Non-Conforming Items) Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	1			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within $(0 \le 6 \text{ deg. C})$?*	/	/		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 #: IR2-21 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?	1			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? YesNoNA(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?	1			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?	/		X	Circle Applicable: No container count on COC Other (describe) **MISSING 2 CONTAINERS FOR ARK-ARKW & 1A 8/15/12/3
13	Are sample containers identifiable as GEL provided by use of GEL labels? COC form is properly signed in	/			Circle Applicable: Not relinquished Other (describe)
Com	relinquished/received sections? ments (Use Continuation Form if needed):	6	-0		
	Coolers-3	-	6	(cooler 7-2.5°C
	Cooler 6-3	. (0	(cooler 8-3.4°C
					000ler 10-0.9°C
	PM (or PMA	A) rev	iew:	Initia	9(9

Short Nating State Date State Should fits Short Should fits Short Should fits Should fits Should fits Should fits Short Should fits Should fit Should	Fax: (843) 760-11/8 Fax: (844) 760-11/8 Fax: (845) 760-11/8	Phone # (937-344-65) Fax: "Time Collected (Military) Code © F (Military) Code © F I 1015 N Y N I 150 N Y I 150 N Y I 150 N Y I 1505 N Y I 1505 N Y I 1600 N Y I 1655 N Y I 1655 N Y I 1655 N Y I 1655 N Y Y I 1655 N Y Y I 1655 N Y Y I 1655 N Y Y I 1655 N Y Y I 1655 N Y Y I 1655 N Y Y I 1655 N Y Y I 1655 N Y Y I 1655 N Y Y I 1655 N Y Y I 1655 N Y Y I 1655 N Y Y I 1655 N Y Y I 1655 N Y Y Y I 1655 N Y Y Y I 1655 N Y Y Y I 1655 N Y Y Y I 1655 N Y Y Y I 1655 N Y Y Y Y I 1655 N Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	Sample to the first presses supply on side and this solution of the first presses supply on side and the first presses supply on side and the first presses supply on the	Potential	No. No.	® IN (80209) IN ®	1	Method 355.2)	Comments (task_code: ARK-CCR-ASSMT-2023S1)
Strought this Strong this	Should fits Short Collection Time Zone: [X] Easten 1] Pacing Short Collection Time Zone: [X] Easten 1] Pacing Short 1] Pacing Paci	*Time Collected (Military) (20 Filed Sample (Military) (20 Filed Sample (Military) (20 Filed On Matrix 69 Matrix 69 (Military) (20 Filed On Matrix 69 (Military) (20 Filed On Matrix 69 (Military) (20 Filed On Matrix 69 (Military) (20 Filed On Matrix 69 (Military) (20 Filed On Matrix 69 (Military) (20 Filed On Matrix 69 (Military) (20 Filed On Matrix 60 Military) (20 Filed On Military) (20	isotopic info, is in a land isotopic info, is in a land isotopic info, is in a land	Companies Comp	2540C) 2540C) 2540C) 2540C) 2540C) 300.0 Rev. 2.1 1993	IN (80209)	Fe2+/Mn2+(EPA MI Mittage (CD) MI Mittage (CD) MI MI MI MI MI MI MI M	Method 353.2) Method 353.2	Comments (task_code: ARK-CCR-ASSMT-2023S1)
Sample Resemble Considered: Considered	W W W W W W W W W W	Print Name Pri	E A (.ofini olidolosi	(1:7)	2540C) X X X X X X X TDS (SM Method 2540C) X X X X X X X Anions (Cl. Fl, Sulfate) (300.0 Rev. 2.1 1993	(e020B)	Method 6020B) (Field Filtered)	Method 353.2)	Comments (task_code: ARK-CCR-ASSMT-2023S1)
W W W W W W W W W W	WG WG WG WG WG WG WG WG	*Time Collected (Milliary) (Code (2) Filed Sample (Milliary) (Code (2) Filered (3) Matrix (4) Mag (Milliary) (Code (2) Filered (3) Matrix (4) Mag (Milliary) (Code (2) Filered (3) Matrix (4) Mag (Milliary) (Code (2) Filered (3) Matrix (4) Mag (Milliary) (Code (2) Filered (3) Mag (Milliary) (Code (2) Filered (3) Mag (Milliary) (Code (3) Filered	isotopic info.)	(1:701	× × × × × × × × × × × × × × × × × × ×	(90Z0B)	Method 6020B) (Field Filtered	Method 353.2) X	Comments (task_code: ARK-CCR-ASSMT-2023S1)
Sample S	Sample S	Time Collected	isotopic info.)	701	2546 (Cl., 200.0 Rev. (709)	Method (Field F	X X X X X X Metglas W X X X X X X Metglas W	ASSMT-2023S1)
WG 9 X	WG 9 X	1015 N Y WG NA FD N WQ 0955 N Y WG 1150 N Y WG 1230 FB N WQ 1235 N Y WG 1600 N Y WG 1655 N Y WG 1655 N Y WG	210		* * * * * * * * *			* * * * * * * * * *	
WQ	WG	NA FD N WQ 0955 N Y WG 1150 N Y WG 1230 FB N WG 1235 N Y WG 1600 N Y WG 1655 N Y WG	210		* * * * * * * * *			* * * * * * * * *	
WG 9 X	WG 9 X X X X X X X X X	1150 N Y WG 1150 N Y WG 1230 FB N WQ 1235 N Y WG 1600 N Y WG 1655 N Y WG 1655 N Y WG	210		* * * * * * *			* * * * * * *	
WG 9 X	WG	1150 N Y WG 1230 FB N WQ 1235 N Y WG 1600 N Y WG 1655 N Y WG 1655 N Y WG 1655 N Y WG 1655 N Y WG 1655 N Y WG 1655 N Y WG 1655 N Y WG 1655 N Y WG 1655 N Y WG 1655 N Y WG 1655 N Y WG 1655 N Y WG 1655 N Y WG 1655 N WG 1	21		* * * * * *			* * * * * *	
WG 7 X X X X X X X X X	WG 7 X	1230 FB N WQ 1235 N Y WG 1600 N Y WG 1655 N Y WG 1655 N Y WG	216		* * * * *			* * * * *	
WG 9 X	WG 9 X	1535 N Y WG 1505 N Y WG 1600 N Y WG 1655 N Y WG 1655 N A Y WG	21		× × × ×			* * * *	
WG 9 X	WG 9 X	1505 N Y WG 1600 N Y WG 1655 N Y WG ned) Print Name Date	21		×××			× × ×	
WG 9 X X X X X X X X X	WG 9 X X X X X X X X X	1655 N Y WG 1655 N Y WG ned) Print Name Date	210		××			××	
WG P X X X X X X X X X	WG	1655 N Y WG ned) Print Name Date	210		×			×	
Date Fax Results: [] Yes [X] No Fax Results: [] Yes [X] No Additional Remarks: For Lab Receiving Use Only: Custody Seal Intact? [] Yes [] No Cooler Temp Sample Collection Time Zone: [X] Eastem [] Pacific [] Central [] Mountain [] D = Matrix Spike Duplicate Sample, G = Grab, C = Composite	Date Fax Results: [] Yes [X] No Fax Results: [] Yes [X] No Additional Remarks: For Lab Receiving Use Only: Custody Seal Intact? [] Yes [] No Cooler Temp Sample Collection Time Zone: [X] Eastern [] Pacific [] Central [] Mountain [] B=Matrix Spike Duplicate Sample, G = Grab, C = Composite E-Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=Nasal	ned) Print Name Date	2010	Requested:		Rush			
Date Fax Results: [] Yes [X] No Additional Remarks: Sample Collection Time Zone: [X] Eastern [] Pacific [] Central [] Mountain [] D=Matrix Spike Duplicate Sample, G = Grab, C = Composite	Date Fax Results: [] Yes [X] No Additional Remarks: Sample Collection Time Zone: [X] Eastern [] Pacific [] Central [] Mountain [] B=Matrix Spike Duplicate Sample, G=Grab, C=Composite Ex. Results: [] Yes [X] Level 1 [X] Level 2 [] Level 3 [] Level 4 [] Level 4 [] Level 5 [] Level 6 [] Level 6 [] Level 7	ned) Print Name Date	201		Normal:			ify:	(Subject to Surcharge)
Sample Collection Time Zone: [X] Eastern [] Pacific [] Central [] Mountain [] Other: Sample Collection Time Zone: [X] Eastern [] Pacific [] Central [] Mountain [] Other: D = Matrix Spike Duplicate Sample, G = Grab, C = Composite	Salect Deliverable: [] C of A [] QC Summary [] level 1 [X] Level 2 [] Level 3 [] Level 3 [] Level 3 [] Level 3 [] Level 4 Additional Remarks: For Lab Receiving Use Only: Custody Seal Intact? [] Yes [] No Cooler Temp: °C Sample Collection Time Zone: [X] Eastern [] Pacific [] Central [] Mountain [] Other: D=Matrix Spike Duplicate Sample, G = Grab, C = Composite Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=Nasal Exactly N=Nasal Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=Nasal Solid Spiraton 1 Spiraton 1	13	501	1					
Additional Remarks: For Lab Receiving Use Only: Custody Seal Intact? [] Yes [] No Cooler Temp: Sample Collection Time Zone: [X] Eastern [] Pacific [] Central [] Mountain [] Other: D = Matrix Spike Duplicate Sample, G = Grab, C = Composite	Additional Remarks: For Lab Receiving Use Only: Custody Seal Intact? [] Yes [] No Cooler Temp: Sample Collection Time Zone: [X] Eastern [] Pacific [] Central [] Mountain [] Other: D = Matrix Spike Duplicate Sample, G = Grab, C = Composite Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=Nasal e. 8260B - 3, 6010B74704 - 1).		1	CofA] QC Sumi			-	3 [] Level
For Lab Receiving Use Only: Custody Seal Intact? [] Yes [] No Cooler Temp: Sample Collection Time Zone: [X] Eastern [] Pacific [] Central [] Mountain [] Other: D = Matrix Spike Duplicate Sample, G = Grab, C = Composite	For Lab Receiving Use Only: Custody Seal Intact? [] Yes [] No Cooler Temp: Sample Collection Time Zone: [X] Eastern [] Pacific [] Central [] Mountain [] Other: D = Matrix Spike Duplicate Sample, G = Grab, C = Composite Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=Nasal e. 8260B - 3, 6010B74704 - 1).	Son - Anakust Sigins		3:					
Sample Collection Time Zone: [X] Eastern [] Pacific [] Central [] Mountain D = Matrix Spike Duplicate Sample, G = Grab, C = Composite	Sample Collection Time Zone: [X] Eastern [] Pacific [] Central [] Mountain D = Matrix Spike Duplicate Sample, G = Grab, C = Composite D=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=Nasal e. 8200B - 3, 6010B 74704 - 1).	(7/1)	Use Only: C	Sustody Seal	Intact? [_	127	
Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite	Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite eld filtered or - N - for sample was not field filtered. WW=Waste Water, W=Water, ML=Misc Liquid, SO=Soil, SD=Sediment, SL=Sludge, SS=Soild Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=Nasal (770A) and number of containers provided for each (i.e. \$260B - 3, 6010B/740A - 1).		ple Collection Time Zon	ıe: [X] Easi		7] Other:
	net dilered or - N - 100 sample was not and mored. WW=Waste Water, W=Water, MI=Misc Liquid, SO=Soil, SD=Sediment, SI=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=Nasal 7470A, and number of containers provided for each (i.e. 8260B - 3, 6010B 7470A - 1).	= Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplic	plicate Sample, G = Grab, C =	Composite					
= Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank		Tazards	OT= Other / Unkno	own asbestos, ber	vollium. irrit	ants. other		Please below conce	e provide any additional details regarding handling and/or dispose rns. (i.e.: Origin of sample(s), type
15. other	E. W. Listed Waste OT= Other / Unknown (R. K. P. and I. Listed waste) (i.e. High/low nH ashestos, beryllium, irritants, other	Waste code(s):	misc. health hazard Description:	ls, etc.)				of site	collected from, odd matrices, etc.)
is, other	Listed Waste LW= Listed Waste OT= Other / Unknown (i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.) Description:	TSCA Regulated PCB = Polychlorinated							
is, other	ble Listed Waste OT=Other / Unknown (F.K.P and U-listed wastes.) (i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.) Waste code(s): Description:	biphenyls							

632702

C	lient: GPCC			S	SAMPLE RECEIPT & REVIEW FORM 632699 SDG/AR/COC/Work Order: 632-499 (332-702)
R	eceived By: EG				Date Received: 8 9 123 12 45
	Carrier and Tracking Number				Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other
Si	spected 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?		V	1	azard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes No
B)	Did the client designate the samples are to be reived as radioactive?		/	C	OC notation or radioactive stickers on containers equal client designation.
30	Did the RSO classify the samples as loactive?		1	М	faximum Net Counts Observed* (Observed Counts - Area Background Counts): CP}1/mR/Hr Classified as: Rad 1 Rad 2 Rad 3
))	Did the client designate samples are hazardous?		/	35	OC notation or hazard labels on containers equal client designation.
E)	Did the RSO identify possible hazards?		V	If	D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:
	Sample Receipt Criteria	Yes	NA	2	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	1	ń		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:
1	Daily check performed and passed on IR temperature gun?	1			Temperature Device Serial #: <u>IR5-23</u> Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	1			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?			1	Sample ID's and Containers Affected: nitrate containers Preserved with sulfi
	Do any samples require Volatile Analysis?			1	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:
	Samples received within holding time?	1			ID's and tests affected:
	Sample ID's on COC match ID's on bottles?	1			ID's and containers affected;
-	Date & time on COC match date & time on bottles?	/			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
	Number of containers received match number indicated on COC?	1			Circle Applicable: No container count on COC Other (describe)
L	Are sample containers identifiable as GEL provided by use of GEL labels?			į	3
1	COC form is properly signed in relinquished/received sections?				Circle Applicable: Not relinquished Other (describe)
					A.

There are a series of the seri				1										-		-	- 1		-			
Project # of	Cooler GEL Work	order Number	get.cc Cha	in of C	emistry I i	adlochemics and A	ries stry I Radio analytic	al Rec	I Spec	laity An	ıalytics					2040 Charl Phon	Laboratorio Savage Ro leston, SC 2 e: (843) 55 (843) 766-	ad 29407 6-817				
Client Name: Georgia Power			Phone # (9:	37-344-0		7	anna cr		-	Sami	ole A	nalvs	is Re	quest			in the num		f cont	tainer	s for e	each test)
Project/Site Name: Plant Arkwright Ash Pond 2			Fax:				Should	d this		ž	Z				E	Z	Z		Z	Z		< Preservative Type (6)
Address: 241 Ralph McGill Blvd SE, Atlanta, GA	30308						samp		linera	B	e e	0	P	3.6		2	4 0			B gg		
Address: 241 Ralph McGill Blvd SE, Atlanta, GA Collected By: John Myer; Dylan Quintal, Houston Lynn	Send Results T edgar.smith@s	o: jabraham@sout	hernco.com	EDD@st	antec.com		consid	spur	r of conts	1) (6020	Ш (6020	ty (300.	(SM Metho 2540C)	, FI, Sulfa	tals App. IV (6020B)	-228 Cmbd	7e2+/Mn2+(EPA Method 6020B) (Field Filtered)	d 353.2)	Mercury (7470B)	Al, K, Mg,		Comments (task_code: ARK-CCR
Sample ID *For composites - indicate start and stop date	se/time	*Date Collected (mm-dd-yy)	"Time Collected (Military) (bhmm)	QC Code (A)	Field Filtered	Sample Matrix (4)	Radioactive yes, please suj isotopic info.)	(7) Known or possible Haza	Total number	Ag (App. I) (6020B)	Metals App. III (6020B)	Alkalinity (300.0 R2.1)	TDS (SM Method 2540C)	Anions (Cl, Fl, Sulfate) (300.0 Rev. 2.1 1993	Metals (60)	RAD 226-228	Fe2+/Mn2+(EPA Method 6020B) (Field Filtered)	Nitrate as N (EPA Method 353.2)	Mercur	Metals Al, K, Mg,		ASSMT-2023SX) A.S. 8/15/23
ARK-ARGWA-19		08-08-23	1015	N	Y	WG			9	x	х	x	х	x	х	x	x	X	X	x		
ARK-AP2-FD-01		08-08-23	NA	FD	N	WQ			7		x		x	x	x	x		х	x			
ARK-ARGWC-22		08-08-23	0955	N	Y	WG			9	x	x	х	x	x	x	x	x	х	х	x		
ARK-ARAMW-7		08-08-23	1150	N	Y	WG		\$	9	x	х	x	x	x	х	x	x	x	х	x		
ARK-AP2-FB-01		08-08-23	1230	FB	N	WQ			7		х		Х	x	x	x		x	х			
ARK-ARAMW-9		08-08-23	1235	N	Y	WG		4	9	x	х	x	x	x	x	x	x	х	x	x		
ARK-ARAMW-2		08-08-23	1505	N .	Y	WG			9	x	х	x	x	x	х	x	х	х	x	x		
ARK-ARAMW-1		08-08-23	1600	N	Y	WG			9	х	х	x	x	x	х	x	x	x	х	x		
ARK-ARGWC-23		08-08-23	1655	N	Y	WG			9	x	х	х	х	x	x	x	х	х	x	x		
	Chain of Custo	ody Signatures		_	_	_				TAT	Reque	ested:	Nor	mal:		Rush	: Sp	ecify:			(Su	bject to Surcharge)
Relinquished By (Signed) Print Name	Date	Received by (sig	gned)	Print Nan	ne	Date		Fax Re	sults:	[] Y	es [XIN	0						-	-		
1 Zachary by Frechay	Levy 8/9/23	1 1000	7/m	8	1/4/2	3	827		Delive	rable;	[]C			C Sun	nmary	[]]	evel 1 [X] Lev	el 2	[][evel 3	[] Level 4
3		3						For La	b Rec	eiving	Use (Only:	Custo	dy Sea	al Inta	t? [] Yes []	No	Cool	er Ten	np:	°C
> For sample shipping and delivery details, see	Sample Receip	t & Review form	(SRR.)				Sample	Collectio	n Tin	ne Zor	ie: []	X]Ea	stern	[]	Pacific		Central	[]M	founta	ain	[] Ot	her;
1.) Chain of Custody Number = Client Determined 2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = 3.) Field Filtered: For liquid matrices, indicate with a - Y - fo 4.) Matrix Codes: DW=Drinking Water, GW=Groundwater, 5.) Sample Analysis Requested: Analytical method requested 6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric	or yes the sample was SW=Surface Water (i.e. 8260B, 6010B	s field filtered or - No. , WW=Waste Water 6/7470A) and number	for sample w WeWater, M of containers	as not field IL=Misc L provided fi	d filtered. .iquid, SO= for each (i.e.	Soil, SD≕So . 8260B - 3,	60108/747	=Sludge, S	S=Solio	l Waste	, O=Oil	l, F=Fih				=Fecal	i, N=Nasal					
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	Characteris FL = Flamm CO = Corros RE = Reacti TSCA Regu PCB = Polyo	stic Hazards hable/Ignitable sive ive	LW= (F,K,F	Waste Listed V	Vaste listed wa			Other OT= C (i.e.: H misc. h Descri	ther / ligh/lo	Unkn w pH, hazara	own asbes	stos, b				other				con	w regi	rvide any additional details arding handling and/or dispose (i.e.: Origin of sample(s), type lected from, odd matrices, etc.)
Pb = Lead	biph	ienyls				_				64												

Tage.	Cooler 2 of GEL Work Order Number	- 0110	om 1 Ch	emistry i i custod	Radiochen y and	Ories Instry I Radi Analytic Manager	obloassay cal Rec	lues	t	nalytic	9				2040 Char Phor	Laborator Savage Roleston, SC ne: (843) 55	oad 29407 56-817	7			
Chient Name; Georgia Power		Phone # (9	37-344-		rojeci	Manager	: Erm	rent	_	ple A	nalys	sis Re	quest	ted (5)		(843) 766- in the nun		f con	tainer	s for e	ach test)
Reoject/Site Name: Plant Arkwright Ash Pond 2		Fax:				Shoul	d this		Z	Z				Z	Z	Z		z	Z		<- Preservative Type (6)
Address: 241 Ralph McGill Blvd SE, Atlanta, GA 3	0308					samp consid		Piner	E E	<u>a</u>	0	D C	<u> </u>		2	4 ^	4		<u>a</u> 6		
	Send Results To: jabraham@sout edgar.smith@stantec.com	hemco.com	EDD@st	antec.com		(If		er of cont	1) (602(. III (602(ity (300.	(SM Metho	, Fl, Sulfa	lals App. IV	-228 Cm	h2+ (EP 1 6020B) Filtered	d 353.2)	Mercury (7470B)	AI, K, N		Comments (task_code: ARK-CCR-
Sample ID * For composites - indicate start and stop date/to	*Date Collected	*Time Collected (Military) (hhmm)	QC Code (7)	Field Filtered O	Sample Matrix (4)	ease c inf	(7) Known or possible Hazards	Total number	Ag (App. I) (6020B)	Metals App. III (6020B)	Alkalinity (300.0	TDS (SM Method	Anions (Cl, Fl, Sulfate) (300.0 Rev. 2.1 1993	Metals (60	RAD 226-228 Cmbd	Fe2+ / Mn2+ (EPA Method 6020B) (Field Filtered)	Nitrate as N (EPA Method 353.2)	Mercur	Metals Al, K, Mg,		ASSMT-2023S1)2 A-S-8/15/23
ARK-ARGWA-19	08-08-23	1015	N	Y	WG			9	х	х	х	х	x	х	x	х	х	х	х		
ARK-AP2-FD-01	08-08-23	NA	FD	N	WQ		10 mg	7		х		x	х	x	x		x	x			
ARK-ARGWC-22	08-08-23	0955	N	Y	WG			9	х	x	x	х	X	x	х	х	x	x	x		
ARK-ARAMW-7	08-08-23	1150	N	Y	WG			9	х	x	x	x	х	х	x	x	x	x	x		
ARK-AP2-FB-01	08-08-23	1230	FB	N	WQ			7		х		х	x	х	х		х	x			
ARK-ARAMW-9	08-08-23	1235	N	Y	WG			9	x	x	x	x	x	x	х	x	x	x	x		
ARK-ARAMW-2	08-08-23	1505	N	Y	WG			9	х	х	Х	х	х	X	x	X	х	х	х		
ARK-ARAMW-1	08-08-23	1600	N	Y	WG			9	x	х	х	х	х	x	x	X	x_	x	x		
ARK-ARGWC-23	08-08-23	1655	N	Y	WG		EN	9	х	x	х	х	х	Х	х	х	х	x	X		
Cha	ain of Custody Signatures	1,44,64	1	1				-	TAT I	Reque	sted:	Nor	mal:		Rush	Sp	ecify:			_ (Sub	ject to Surcharge)
	Date Received by (sig	med) I	Print Nan		Date		Fax Res	ults:	[] Ye	es [X]N	o									
17 ochory lary Each bary 8/0	1/23		- 6	1/9/5	38	:28	Select I		11.00	-	of A		C Sum	nmary	[]]	evel 1 [X] Leve	el 2	[]Le	evel 3	[] Level 4
3	3								_	_	_	_				Yes []	_				_°C
> For sample shipping and delivery details, see Sa	umple Recelpt & Review form	(SRR.)				Sample (Collectio	n Tim	e Zon	e: []	X] Ea	stem	[]]	Pacific	[]	Central	[]M	ounta	in (] Othe	r.
1.) Chain of Custody Number = Client Determined 2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Fiel 3.) Field Filtered: For liquid matrices, indicate with a - Y - for ye 4.) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW 5.) Sample Analysis Requested: Analytical method requested (i.e.	s the sample was field filtered or - N - =Surface Water, WW=Waste Water, . 8260B, 6010B/7470A) and number	for sample wa W=Water, M of containers p	s not field L=Misc L rovided fo	filtered quid, SO=5 r each (i.e.	801 , SD=S 0	ediment, SL=	=Sludge, SS 0A - 1).	⊱Solid	Waste,	0=0il,	, F=Filte				?≃Fecal,	N=Nasai					
RCRA Metals As = Arsenic Hg= Mercury Ba = Barium Se= Selenium Cd = Cadmium Ag= Silver	Characteristic Hazards FL = Flammable/Ignitable CO = Corrosive RE = Reactive ISCA Regulated	LW= I (F,K,P	Waste Listed W	aste isted was			Other OT= Of (i.e.: Hi misc. he Descrip	her / gh/lor alth l	Unkno w pH,	own asbes	itos, b				other				belo	w regar erns. (lde any additional details ding handling and/or disposal i.e.: Origin of sample(s), type cted from, odd matrices, etc.)
Cr = Chromium MR = Misc, RCRA metals Pb = Lead	PCB = Polychlorinated biphenyls													_						-	

Project #175569434 GEL Quote #:		GEL	- [[abc	orato	ories	LLC									Savage R		_			*
COC Number (1): 3 Coolers	Cooler 3 of	S Ch	om C	hemistry I	Radlocher	mistry i Rad Analyti	Hobioassa	y Spe	ecialty A	Inalytic	S				1	rieston, SC					
PO Number.	GEL Work Order Number	Olli	alli Ui			Manage				_	-	-	_	_	4	ne: (843) 55 (843) 766-		/1			
Client Name: Georgia Power	022 // 0/10 0/00/ / (10/10/	Phone # (9	37-344		rojeci	I	i. Litti	1701		ple A	naly	sis Re	quest	ed (5)		in the num		of con	tainer	s for	each test)
Project/Site Name: Plant Arkwright Ash Pond 2		Fax:				Shou	ld this		Z	Z		T		Z	Z	Z		ž	Z		< Preservative Type (6)
Address: 241 Ralph McGill Blvd SE, Atlanta, G	A 30308						ple be dered:	La ioca	B	E	6	Ā	3.0		2	4 0	-		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	
Collected By: John Myer; Dylan Quintal, Houston Lynn	Send Results To: jabraham@so edgar.smith@stantec.com	uthernco.com	EDD@s	tantec.com		p ye	£	of too	1) (6020	App. III (6020B)	ty (300.	1 Meth	FI, Sulfa	Metals App. IV (6020B)	-228 Cm	16020B) Filtered	4 353.2)	Метсшу (7470В)	s Al, K, Mg, Mn (6020B)		Comments (task_code: ARK-CCR-
Sample ID • For composites - Indicate start and stop de	*Date Collected ate/time (mm-dd-yy)	Time Collected (Military) (hhmm)	QC Code	Field Filtered of	Sample Matrix (6)	Radioactive yes, please sup isotopic info.)	(7) Known or possible Hazs	Total number	Ag (App. I) (6020B)	Metals App.	Alkalinity (300.0	TDS (SM Method	Anions (Cl. Fl, Sulfate) (300.0 Rev. 2.1 1993	Metals (60)	RAD 226-228 Cmbd	Fe2+/ Mn2+ (EPA Method 6020B) (Field Filtered)	Nitrate as N (EPA Method 353,2)	Mercun	Metals /		ASSMT-2023S1) ₂ A.S. 8/15/23
ARK-ARGWA-19	08-08-23	1015	N	Y	WG			9	x	х	х	x _	x	х	x	x	x	х	x		
ARK-AP2-FD-01	08-08-23	NA	FD	N	wQ		9.	7		x		х	x	х	x		x	х			
ARK-ARGWC-22	08-08-23	0955	N	Y	WG			9	х	x	х	x	x	х	х	x	x	х	x		
ARK-ARAMW-7	08-08-23	1150	N	Y	WG		j.~	9	х	x	x	x	x	х	x	x	x	x_	x		
ARK-AP2-FB-01	08-08-23	1230	FB	N	wQ			7		х		х	x	x	x		x	x			
ARK-ARAMW-9	08-08-23	1235	N	Y	WG			9	x	x	x	x	x	x	х	x	x	х	х		
ARK-ARAMW-2	08-08-23	1505	N	Y	WG			9	x	x	x	x	x	х	х	x	x	x	x		
ARK-ARAMW-1	08-08-23	1600	N	Y	WG			9	x	х	x	x	х	x	х	x	x	x	x		
ARK-ARGWC-23	08-08-23	1655	N	Y	wG			9	x	х	x	X	x	x	х	x	x	x	x		
	Chain of Custody Signatures							- 7	TAT R	leque	sted:	Non	nal:_	1	Rusb:	Spe	cify:			(Sab	ject to Surcharge)
Relinquished By (Signed) Print Name	Date Received by (si	gned) F	rint Nam	e D	ate		Fax Res	ults:	[] Ye	s []	K] No)									
1 Zocheny Ley Foch Levey	8/9/23	1/1		8/9	435	1:28	Select D	eliver	able: [1C0	fA J	100	Sumo	nary	[] le	vel 1 [X]	Leve	12 [] Lev	re1 3	[] Level 4
2	2						Addition	al Re	marks:												
3	3															Yes [] !					_℃
> For sample shipping and delivery details, see	Sample Receipt & Review form	(SRR.)				Sample C	ollection	n Tim	e Zone	:: [X] Fas	tem	[] Pa	acific	[]	Central [] M	ountai] n] Othe	x:
1.) Chain of Custody Number = Client Determined 2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = F 3.) Field Filtered: For liquid matrices, indicate with a - Y - for i.) Matrix Codes: DW=Drinking Water, GW=Groundwater, S i.) Sample Analysis Requested: Analytical method requested (j.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric A	yes the sample was field filtered or - N - W=Surface Water, WW=Waste Water, i.e. 8260B, 6010B/7476A) and number odd, SH = Sodium Hydroxide, SA = Sulf	for sample was W=Water, MI. of containers pro wic Acid, AA	not field in mother field in m	filtered. Juid, SO=So each (i.e. 82	nil, SD=Sed 260B - 3, 6	timent, SL=5 50108/7470A ST = Sodium	Sludge, SS (- 1). 1 Thiosulfa	=Solid	Waste, (D=0i), I	=Filter				Fecal, N	Y=Nasai					
CRA Metals s = Arsenic Hg= Mercury a = Barium Se= Selenium d = Cadmium Ag= Silver r = Chromium MR= Misc. RCRA metals b = Lead	Characteristic Hazards FL = Flammable/Igniable CO = Corrosive RE = Reactive TSCA Regulated PCB = Polychlorinated biphenyls	Listed V LW= Li (F,K,P a Waste o	sted Wa and U-li.	iste sted waste	es.)	(Other OT= Oth i.e.: Hig misc. hea Descript	gh∕low alth h	рН, а	sbesto	s, ber	yllium	ı, irrite	ants, o	ther				below concer	regari rns. (i.	ide any additional detalls ding handling and/or disposal i.e.: Origin of sample(s), type sted from, odd matrices, etc.)
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ole =:		G	EL	110	har	oto.										-	Laborator		C		500	10-	THE REAL PROPERTY.
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mber 2 Coolers	Cooler 1		Chain	of Cu	stodu:	iochemis and A	nalytica	I Dog	Speci	alty Are	tytica				- 1		eston, SC				r	Of	2
Name: Georgia Power	GEL Work Ord	er Number:		0.00	GEL P	roiea l	lanager	Frin	Trent	-	-						e: (843) 55		1		1	VT	2
		F	Phone = (937	-344-65	33)	T			7,04	_	anle :	Analy	rie D	*****		_	843) 766- in the nu	_	~£ ~	wien.	es for es	ch tect)	THE RESERVE AND IN
USite Name, Plant Arkwright Ash Pond 2			Fax							34.	pie /	Tues,	אמב	tque:	icu	(FIII	шшеш	T	01 40	T	T	ur tost)	100
			720			- 1	Shoold	this		ž	ž	ž			Z	Z	Ī		Z	Z		<-Pre>←Pres	ervative Type (6)
ess: 241 Ralph McGill Blvd SE, Atlanta, G	A 30308						sampl	le be	Pe 1	<u>~</u>	2			_		_	7				-		
cted By: John Myer, Dylan Quintal, Dylan y, Houston Lynn	Send Results To edgar smith@star	pprayan Geom	berneo.com E	DD@star	ntec.com		consid	ered:	of conta	1) (602013)	III (6020L	(3000)	Method C)	7, Sulfate 2 1 1993	71 dd (817	28 Cmb	2+ (EPA 09) (Fiel ed)		747013)	K. Mg.			omments
Sample ID • For composites - indicate start and stop	1	Date Collected	"Time Collected (Military) (Mann)	QC Code as	Field Filtered ^{OX}	Sample Marra	Radioactive yes, plosse suj syciopic info.)	(7) Known or possible Hara	Total number of containers	Ag(App I	Metals App 111 (6020U)	Alkalıniry (300.0 R2.1)	TIDS (SM 2540	Antons (Cl. Fl, Sulfate) (300 0 Ray 2 1 1993	Metals App. (6020H)	KAD 226-228 Cmbd	Fo2+ / Mn2+ (FPA Method 6020B) (Flebd Filtered)		Mercury (747013)	Metals Al. K. Mg.		ASSM	ME: ARK-CCR- MT-202351) 8/15/23
ARK-ARGWC-21		08-09-23	1035	N	Y	WG				Х	x	x	х	х	x	x	x		х	x			te/Nitrite COC
ARK-AP2-EB-01		08-09-23	1110	FB	N	wQ				7	x		x	x		x			x		10 19	for their ti	
ARK-ARAMW-8		08-09-23	1115	N	Y	WG				9 X	x	x	x	x		x	x		x	x			
ARK-ARGWA-20		08-10-23	0925	N	Y	WG		100		0 x	x	x	x	x		x	Y		x	x			
ARK-STNTW-22		08-10-23	1255	N	Y	WG	İ			6 X	x	x	1	x	Y		^	\vdash	Y	Y		Add anion col	llected at 0825 8/11/23
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AND THE PROPERTY.			1	1		+	+			+	+	+	+		\vdash			\vdash		+			
			1	+		+	1	+		+	+	+	+	+	+			\vdash	1	+		1	
				+	+	+	+			+	+	+	+	+				+	\vdash	+			
	Chain of Cus	tody Signatu	Ires				_		_	T	AT R	equest	ted:	Norm	al;	R	sh:	Speci	fv:	_	(Subi	ect to Sarchi	arge)
Relinquished By (Signed) Print Nam		Received b		Print !	ame	Date		Eav	Result	_		_		CO., ET									
1 Kindlow Fornik	1ex 8/11/23	idnel	er Ar	Thur	Lucir	a 3	111/2							DC Sur	חמת	1.11	evel 1 D	() Leve	12 [lle	el 3 1	evel 4	
2 0		2	-	•	,			-	anona:														
3		3						For	Lab A	eceivis	ng Use	e Only:	: Cus	ody Se	al Inta	ct? [Yes [No	Coole	r Ton	p;	C	
> For sample shipping and delivery deta	ils, see Sample Rece	dpi & Review	form (SRR.)				Samp	Le Colle	rion i	Tone Z	one:	[X]E	astern		Pacific	: []	Central	[]M	ountai	in [Other:		
1) Chain of Custody Number = Client Determines 2) QC Codes N=Normal Sample, TB = Trip B 3) Field Filtered For liquid mannes, indicate w 4) Matrix Codes DW=Drinking Water, GW=Gr 5.) Sample Analysis Requested Analytical meth	ank, FD * Field Duplicate th a - Y - for yes the samp oundwater, SW=Surface 1 od requested (i.e. 8260B.	ple was field filter Water, WW=Wast 6010B/7470A) an	ed or - N - for sac te Water, W#Wa d number of con	nple was n ner, ML+); cuicess pro	on field filie fine Liquid, vided for ea	50=501, ch (i e 82	SD-Sedimon 608 - 3, 607	08 7 17 O	uoge, SS I - 1)	-Solid N	Nasz, (D-O-L F	F=Filter				Focal, N=Nas	al					
6.) Preservative Type HA = Hydrochlone Acid. 7.) KNOWN OR POSSIBLE HAZAF	DS Charac	odium Hydroxide. teristie Hazar ammable/Ignit	ds L	isted Wi	Ascorbic Ad aste ed Waste		House ST	0	tber T= Oth	o / Ud	know	n .					9.7			rq	garding k	andling and/o	onal details below or disposal concern
RCRA Metals As = Arsenic Hg= Mercury Re = Barium Se= Selenium		Corrosive Leactive	-	Vaste con	d U-listed de(s):	l wastes.		m.	e.: Hig isc. hea coup	dih ha			, beryl	lium, i	miant	s, othe	r					of sample(s), atrices, etc.)	type of site collected
Cd = Cadmium Ag= Silver Cr = Chromium MR= Misc. RCRA		Regulated Polychlonnate biphenyls	<u>a</u>] _					=									Ξ			2	collection and l	d in works	N were originally wed bottles; Later bottles were sent an
Pb = Lead									-		-			-	-			-			colle	and from wel	ls on \$/10/2023

Page: 2 of 2 Project # 175569434 GEL Quote #: 2 Coolers		Ch	com i Ct	Custod	y and	Ories Histoy I Rad Analyti	cal Re	y i Speci quest		tici				GEL La 2040 Sa Charlest Phone: (Fax: (84	vage Ro ton, SC : 843) 55	oad 29407 6-817	,		4	00 ler - 0 F Z
PO Number:	GEL Work Order Nu		277.244		Project	Manage	r: Erin	Trent	c		Inele	Dagne	ested S	9 (Fill in	the mu	mber	of cor	ntaine	rs for ea	ch test)
Client Name: Georgia Power		Phone # (9	75/-344-4	6533)			-	1 1	Samp	HE ALIII	llysus .	T	T		T dife inte			T		<- Preservative Type (6)
Project/Site Name: Plant Arkwright Ash Pond 2 Ni	trate/Nitrite COC	Fax					ki dhis				-					SA				C_Pleservative Type (=)
Address: 241 Ralph McGill Blvd SE, Atlanta, GA	30308						de be	container								EPA				Comments
Collected By: John Myer, Dylan Quintal, Dylan Ripley, Houston Lynn	Send Results To: jabraham edgar.smith@stantec.com		EDD@s	antec.com	,	aupply (o)	na rds	5								Nitrate/Nitrite (EPA Method 353.2)				(task_code: ARK-CCR-ASSMT-2023Sk)
Sample ID • For composites - undicate start and stop date	*Date Colle	(Military)	QC Code ⁽³⁾	Field Filtered ⁰	Sample Matrix (6	Radioactive yes, please suj stotopic info.)	(7) Known or possible Haza	Total sumber								Nitrato				A.S. 8/15/23 ²
ARK-ARGWC-21	08-10-2		N	N	WG			1				_				х				1
ARK-AP2-EB-01	08-10-2	3 1925	FB	N	WQ			1		1			1		V.S	X		-		
ARK-ARAMW-8	08-10-2	3 1936	N	N	WG			1								X				
ARK-ARGWA-20	08-10-2	3 1953	N	N	WG			1							_	X				
ARK-STNTW-22	08-10-2	3 1935	N	N	WG			1			-					Х		\square		
													8 100							
	hain of Custody Signat								TATE	Lequest	ed: N	ioma	J:	Rush:	5	pecify	r		_(Subje	ect to Surcharge)
Relinquished By (Signed) Print Name	8/11/23 Plus	by (signed) What An	Print Nan		8/1/	1/23	Fax Res					C Sum	mary	[] level	1 [X] I	Level	2 []	Level	3 [] L	evel 4
2	2	7.10	-				Addino													
3	3						For Lat	Recei	ving Us	Only:	Сило	dy Sea	l Insact	? [] Yes	[] <i>N</i>	o C	ooler 1	етр:	°C	
> For sample shipping and delivery details, see S	ample Receips & Review	form (SRR.)		30.00		Sample	Collectio	n Time	Zone:	[X]E	stem	[]P	acific	[]Cent	nd [Mou	ntaio	[]6	ther:	
1) Chain of Custody Number = Client Determined 2) QC Codes: N = Normal Sample, TB = Trip Blank, FD = F 3.) Field Filtered: For liquid matrices, indicate with a - Y - for 4.) Matrix Codes: DW=Drinking Water, GW=Groundwater, S 5.) Sample Analysis Requested: Analysical method requested 6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric A 7.) KNOWN OR POSSIBLE HAZARDS	yes the sample was field filtere (W=Surface Water, WW=Wasta (i e 8260B, 6010B/7470A) and	or - N - for sample Water, W=Water, ? number of containe A = Sulfuric Acid, A	was not be dL=Misc I is provided	eld filtered. Liquid, SO- for each (i the Acid, E	-Soii, SD=5 e. <i>82608 -</i>	Sediment, SI 3, 6010B/7.	-Sindge.:	SS=Solid	Waste, O	=Otl, F=1	Filter, Pe			F≈Fecal, N	=Nacel			Pleas	e provide	e any additional details below
RCRA Metals As = Arsenic Hg= Mercury Ba = Barium Se= Selenium	CO = Corrosive RE = Reactive	(F,K,)	and U-l code(s):	isted wa	stes.)		(i.e.: Hi misc. he Descrip	gh/low ealth ha	pH, asb		eryllno	m, 1770	ianis, o	ther				(Le.:	Origin of	idling and/or disposal concerns. (sample(s), type of site collected vices, etc.)
Cd = Cadmium Ag = Silver Cr = Chromium MR = Misc, RCRA metals Pb = Lead	TSCA Regulated PCB = Polychlorinated biphenyls				•									=					collected served Ni	y Nitrate by N were originally in unpreserved bottles; Later trate/Nitrite bottles were sent and ed from wells on 8/10/2023

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Number (1) 2 Coolers	- Cooler	1012	25	Unemi	ISTRY ! Rad	RICHEMIS	ies i	Morana 1	Specia	ity Arca	hocs.					2040	Laboratori Savage Ro eston, SC 2	ad			C00	
umber	GEL Wor	k Order Number:	Chair	OI CU	stody	and A	narvoca	al Regi	Jest							Phone	(843) 550	6-8171				0f 2
t Name: Georgia Power			hone = (937	7-344.657	GEL P	rojea N	ianager	Erin 7	ें स्थित								843) 766-1					
ect Site Name, Plant Arkwright Ash Po	and 2		(,,,	3 77 055	,,,	-	-	-		Sam	ple	lasly	sis R	eques	sted ^{[5}	(Fill	in the nur	mber	of con	Tainer	s for ea	ch test)
		E	aox			- 1	G			Z	Ē	Ξ			ī	=	z		Z	z z		< Preservative Type (6)
fress, 241 Ralph McGril Blvd SE, Atlan	nta, GA 30308					\dashv	Should		2.													
llected By, John Myer, Dylan Quintal, I pley, Houston Lynn		mor Ecury tendence of all	bertaco com	DD@stan	ICC Born		coesid	ered:	of contabarn	2013	02013	0.00	hod	(See	2	T T	(P.A.		<u>(a)</u>	ME.		10000
	funz ragbo	h@stantec com					(10 (upply	Ē	2 00 2	9) (9)	7.30	S Me	FI, Su	dd/	228 C	0B) (0		(747)	(60		Comments
Sample ID	d stop date/time	*Date Collected	Time Collected (Military)	ÓC.	Field	Sample	Radioactive yes, ploate tup notopic info)	(7) Known or possible Hear	Forkt number	Ag (App 1) (6020B)	Metals App: 111 (602013)	Alkalınıty (300 () R2 1)	TDS (SM Method 2540C)	Antow (C1 Fl, Sulfate) (300 0 Nav 2 1 1993	Metals App 1V (6020H)	KAD 126-228 Cmbil	Hozi / Mnzi (KPA Method (620B) (Flehl Filtered)		Mercury (747018)	Metals Al, K. Mg. Na, Fo, Mn (6020B)		(task_code: ARK-CCF ASSMT-2023S1)
ARK-ARGWC-2	i	08-09-23	(damm)				2 1 5	83	P	<	2		-	× -		×	- Σ			~ Z		A.S. 8/15/23
ARK-AP2-EB-0		08-09-23	1035	N	Y	WG			9	Х	X	Х	Х	X	X		Х		X	х	V	See Nitrate/Nitrite COC
ARK-ARAMW			1110	FB	N	W.O			7		X	-	х	Х	X	х			х			for their times
ARK-ARGWA-		08-09-23	1115	N	Y	W.C			5	X	X	X	X	Х	X	X	х		X	X		
		08-10-23	0925	N	Y	WG	-		i	X	X	Х	Х	X	Х	Х	х		X	Х		
ARK-STNTW-		08-10-23	1255	N	Y	M.C			1	1	X	X	-	X	X				X	Х		only App. I ne
			1	+		+	-		-	_	AS.	100	+	+	+				-			
			+	+	+	1	-			8	151	23	-	+	-			\vdash	-			As, Co, Li, Mo
			1	+	+	-	+	+	+	+	+	+	+	+	+	-			-			
			+	-	+	+	+		+	+	+	+	+	1	+	-			-			
	Chain o	Custody Signatu	785	-1-	1	1	-		_	T	AT R	equest?	ed:	Sorm	al:	Ro	sh:	Specify	-	_	/Subi	ect to Sarcharge)
Relinquished By (Signed) Pri	ni Name Date			Prant N	Militar	Date		Fax B	raile		_	[X]h	_					,,,,,,,	_		_(0.15)	947
1 KINNINSI 301	-141ex 8111	123 John U	er A.	thon	, her	0 8	111/2	21						XC Sur	mman	111	evel 1 [XI	Level	2 1	Loc	13 11	Lord 4
2	2330	2		,				1		Remur										-		
3		3					_	_		_	_		_			_	1 Yes [].					rc .
> For sample shipping and deliver	y desails, see Sampl	le Receipi & Review j	orm (SRR.)				Samp	ie Collec	don T	bne Zo	one:	[X]E	astern		Pacifi	c []	Central	[] Mo	untain	[]	Other	
1) Chain of Custody Number = Client Dec 2) QC Codes N=Normal Sample, TB = 3) Field Filtered For liquid magness, inc 4) Matrix Codes DW=Dinaking Water, Q 5) Sample Analysis Requested Analysis 5; Preservanve Type BA = Hydrochlom	Trip Black, FD = Field I licate with a - Y - for yes in GW=Groundwater, SW=5 ad method requested (i.e.	the sample was field filters Surface Water, WW=Waste 8260B_6010B/7470A) acc	d or - N - for sa : Water, W = Wa t number of con	mple was no nor, 30L-Mi nouvers prov	n field filie ne Liquid, rood for cu	red 50~Soil.: ch (1 € 828	SD-Sabaa 108 - 1, 60)	DE 51-51-60	1)	Solid W	Vac 0)− O\L F	i = Filter				focal, Na Nasal	1				
RCRA Metals As = Arsenic Bu = Barium Cd = Cadmium Cr = Chromium Pb = Lead	AZARDS C	haracteristic Hazari L = Flammable/Igniti CO = Corrosive RE = Reactive	able I	isted Wa W= Liste F,K,P and Waste cod	ste xl Waste l U-lusted			Oth OT (Le.	Other	low p	knowt H. asl	bestos.	, beryli				,			rego (Le	onling h	de any additional details below andling and/or disposal concern of sample(s), type of sue collect ances, etc.)
Da - Darimit Se selemen	[5	SCA Regulated	a .				-										=				collecte	lly Nitrate by N were originally at in unpreserved bottles; Later County Nitrite bottles were sent i

List of current GEL Certifications as of 24 August 2023

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
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	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122023-4
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2022-160
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	T104704235-22-20
Utah NELAP	SC000122022-37
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

List of current GEL Certifications as of 21 August 2023

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
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	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122023-4
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2022-160
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	T104704235-22-20
Utah NELAP	SC000122022-37
Vermont	VT87156
Virginia NELAP	460202
Washington	C780





August 18, 2023

Kelley Sharpe ARCADIS - Atlanta 2839 Paces Ferry Rd STE 900 Atlanta, GA 30339

RE: Project: Plant Arkwright-CCR Ash Pond

Pace Project No.: 92682089

Dear Kelley Sharpe:

Enclosed are the analytical results for sample(s) received by the laboratory on August 10, 2023. 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)734-4200

Project Manager

Enclosures

cc: Joju Abraham, Georgia Power-CCR Jordan Gamble, ARCADIS - Atlanta Ben Hodges, Georgia Power-CCR Warren Johnson, ARCADIS - Atlanta Laura Midkiff, Georgia Power Charles Steele, Arcadis - Atlanta Tina Sullivan, ERM





CERTIFICATIONS

Project: Plant Arkwright-CCR Ash Pond

Pace Project No.: 92682089

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

Pace Analytical Services Peachtree Corners

Florida DOH Certification #: E87315 Georgia DW Inorganics Certification #: 812

110 Technology Pkwy, Peachtree Corners, GA 30092

North Carolina Certification #: 381 South Carolina Certification #: 98011001 Virginia Certification #: 460204

South Carolina Laboratory ID: 99030

South Carolina Certification #: 99030001

Virginia/VELAP Certification #: 460222



SAMPLE SUMMARY

Project: Plant Arkwright-CCR Ash Pond

Pace Project No.: 92682089

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92682089001	ARK-BC-0.8a	Water	08/10/23 11:22	08/10/23 13:46
92682089002	ARK-BC-0.5.5	Water	08/10/23 10:44	08/10/23 13:46
92682089003	ARK-BC-0.5.6	Water	08/10/23 10:37	08/10/23 13:46
92682089004	ARK-BC-0.5.7	Water	08/10/23 10:51	08/10/23 13:46
92682089005	ARK-BC-BR	Water	08/10/23 09:59	08/10/23 13:46



SAMPLE ANALYTE COUNT

Project: Plant Arkwright-CCR Ash Pond

Pace Project No.: 92682089

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92682089001	ARK-BC-0.8a	EPA 6010D	MS	5	PASI-GA
		EPA 6020B	CW1	3	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B-2011	SMS	2	PASI-A
		EPA 9056A	CDC	3	PASI-A
92682089002	ARK-BC-0.5.5	EPA 6010D	MS	5	PASI-GA
		EPA 6020B	CW1	3	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B-2011	SMS	2	PASI-A
		EPA 9056A	CDC	3	PASI-A
92682089003	ARK-BC-0.5.6	EPA 6010D	MS	5	PASI-GA
		EPA 6020B	CW1	3	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B-2011	SMS	2	PASI-A
		EPA 9056A	CDC	3	PASI-A
92682089004	ARK-BC-0.5.7	EPA 6010D	MS	5	PASI-GA
		EPA 6020B	CW1	3	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B-2011	SMS	2	PASI-A
		EPA 9056A	CDC	3	PASI-A
92682089005	ARK-BC-BR	EPA 6010D	MS	5	PASI-GA
		EPA 6020B	CW1	3	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



Project: Plant Arkwright-CCR Ash Pond

Pace Project No.: 92682089

Date: 08/18/2023 01:46 PM

Sample: ARK-BC-0.8a	Lab ID: 926	82089001	Collected: 08/10/2	3 11:22	Received: 08	8/10/23 13:46 N	latrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Meth	nod: EPA 60	10D Preparation Me	thod: E	PA 3010A			
	Pace Analytica	l Services -	Peachtree Corners,	GA				
Boron	ND	mg/L	0.040	1	08/11/23 12:25	08/12/23 00:15	7440-42-8	
Potassium	2.5	mg/L	0.50	1	08/11/23 12:25	08/12/23 00:15	7440-09-7	
Sodium	7.4	mg/L	1.0	1	08/11/23 12:25	08/12/23 00:15	7440-23-5	
Calcium	8.2	mg/L	1.0	1	08/11/23 12:25	08/12/23 00:15	7440-70-2	
Magnesium	3.7	mg/L	0.050	1	08/11/23 12:25	08/12/23 00:15	7439-95-4	
6020 MET ICPMS	Analytical Meth	nod: EPA 60	20B Preparation Me	thod: E	PA 3005A			
	Pace Analytica	l Services -	Peachtree Corners,	GA				
Cobalt	ND	mg/L	0.0050	1	08/12/23 12:20	08/15/23 19:24	7440-48-4	
Lithium	ND	mg/L	0.030	1	08/12/23 12:20	08/15/23 19:24	7439-93-2	
Molybdenum	ND	mg/L	0.010	1	08/12/23 12:20	08/15/23 19:24	7439-98-7	
2540C Total Dissolved Solids	Analytical Meth	nod: SM 254	IOC-2015					
	Pace Analytica	l Services -	Peachtree Corners,	GA				
Total Dissolved Solids	81.0	mg/L	25.0	1		08/16/23 10:54		
2320B Alkalinity	Analytical Meth	nod: SM 232	20B-2011					
•	Pace Analytica	l Services -	Asheville					
Alkalinity,Bicarbonate (CaCO3)	44.3	mg/L	5.0	1		08/15/23 16:37		
Alkalinity, Total as CaCO3	44.3	mg/L	5.0	1		08/15/23 16:37		
9056 IC anions 28 Days	Analytical Meth	nod: EPA 90	56A					
•	Pace Analytica	l Services -	Asheville					
Chloride	6.7	mg/L	1.0	1		08/11/23 14:23	16887-00-6	
Fluoride	ND	mg/L	0.10	1		08/11/23 14:23	16984-48-8	
Sulfate	2.6	mg/L	1.0	1		08/11/23 14:23	14808-79-8	



Project: Plant Arkwright-CCR Ash Pond

Pace Project No.: 92682089

Date: 08/18/2023 01:46 PM

Sample: ARK-BC-0.5.5	Lab ID: 926	82089002	Collected: 08/10/2	3 10:44	Received: 08	8/10/23 13:46 N	latrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Meth	nod: EPA 60	10D Preparation Me	thod: E	PA 3010A			
	Pace Analytica	l Services -	Peachtree Corners,	GA				
Boron	ND	mg/L	0.040	1	08/11/23 12:25	08/12/23 00:19	7440-42-8	
Potassium	2.4	mg/L	0.50	1	08/11/23 12:25	08/12/23 00:19	7440-09-7	
Sodium	7.5	mg/L	1.0	1	08/11/23 12:25	08/12/23 00:19	7440-23-5	
Calcium	8.6	mg/L	1.0	1	08/11/23 12:25	08/12/23 00:19	7440-70-2	
Magnesium	3.8	mg/L	0.050	1	08/11/23 12:25	08/12/23 00:19	7439-95-4	
6020 MET ICPMS	Analytical Meth	nod: EPA 60	20B Preparation Me	thod: El	PA 3005A			
	Pace Analytica	l Services -	Peachtree Corners,	GA				
Cobalt	ND	mg/L	0.0050	1	08/12/23 12:20	08/15/23 19:27	7440-48-4	
Lithium	ND	mg/L	0.030	1	08/12/23 12:20	08/15/23 19:27	7439-93-2	
Molybdenum	ND	mg/L	0.010	1	08/12/23 12:20	08/15/23 19:27	7439-98-7	
2540C Total Dissolved Solids	Analytical Meth	nod: SM 254	OC-2015					
	Pace Analytica	l Services -	Peachtree Corners,	GA				
Total Dissolved Solids	87.0	mg/L	25.0	1		08/16/23 10:54		
2320B Alkalinity	Analytical Meth	nod: SM 232	20B-2011					
•	Pace Analytica	l Services -	Asheville					
Alkalinity,Bicarbonate (CaCO3)	45.2	mg/L	5.0	1		08/15/23 16:43		
Alkalinity, Total as CaCO3	45.2	mg/L	5.0	1		08/15/23 16:43		
9056 IC anions 28 Days	Analytical Meth	nod: EPA 90	56A					
•	Pace Analytica	l Services -	Asheville					
Chloride	7.9	mg/L	1.0	1		08/11/23 14:37	16887-00-6	
Fluoride	ND	mg/L	0.10	1		08/11/23 14:37	16984-48-8	
Sulfate	4.4	mg/L	1.0	1		08/11/23 14:37	14808-79-8	



Project: Plant Arkwright-CCR Ash Pond

Pace Project No.: 92682089

Date: 08/18/2023 01:46 PM

Sample: ARK-BC-0.5.6	Lab ID: 9268	32089003	Collected: 08/10/2	23 10:37	Received: 08	3/10/23 13:46 M	latrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
6010D ATL ICP	Analytical Meth	od: EPA 60	10D Preparation Me	ethod: E	PA 3010A			
	Pace Analytical	l Services -	Peachtree Corners,	GA				
Boron	ND	mg/L	0.040	1	08/11/23 12:25	08/12/23 00:24	7440-42-8	
Potassium	2.4	mg/L	0.50	1	08/11/23 12:25	08/12/23 00:24	7440-09-7	
Sodium	7.4	mg/L	1.0	1	08/11/23 12:25	08/12/23 00:24	7440-23-5	
Calcium	8.4	mg/L	1.0	1	08/11/23 12:25	08/12/23 00:24	7440-70-2	
Magnesium	3.8	mg/L	0.050	1	08/11/23 12:25	08/12/23 00:24	7439-95-4	
6020 MET ICPMS	Analytical Meth	od: EPA 60	20B Preparation Me	thod: E	PA 3005A			
	Pace Analytical	l Services -	Peachtree Corners,	GA				
Cobalt	ND	mg/L	0.0050	1	08/12/23 12:20	08/15/23 19:31	7440-48-4	
Lithium	ND	mg/L	0.030	1	08/12/23 12:20	08/15/23 19:31	7439-93-2	
Molybdenum	ND	mg/L	0.010	1	08/12/23 12:20	08/15/23 19:31	7439-98-7	
2540C Total Dissolved Solids	Analytical Meth	od: SM 254	IOC-2015					
	Pace Analytical	l Services -	Peachtree Corners,	GA				
Total Dissolved Solids	90.0	mg/L	25.0	1		08/16/23 10:54		
2320B Alkalinity	Analytical Meth	od: SM 232	20B-2011					
•	Pace Analytical	l Services -	Asheville					
Alkalinity,Bicarbonate (CaCO3)	45.9	mg/L	5.0	1		08/15/23 16:50		
Alkalinity, Total as CaCO3	45.9	mg/L	5.0	1		08/15/23 16:50		
9056 IC anions 28 Days	Analytical Meth	od: EPA 90	56A					
•	Pace Analytical	l Services -	Asheville					
Chloride	7.3	mg/L	1.0	1		08/11/23 14:51	16887-00-6	
Fluoride	ND	mg/L	0.10	1		08/11/23 14:51	16984-48-8	
Sulfate	4.4	mg/L	1.0	1		08/11/23 14:51	14808-79-8	



Project: Plant Arkwright-CCR Ash Pond

Pace Project No.: 92682089

Date: 08/18/2023 01:46 PM

Sample: ARK-BC-0.5.7	Lab ID: 926	82089004	Collected: 08/10/2	23 10:51	Received: 08	/10/23 13:46 N	latrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Meth	nod: EPA 60	10D Preparation Me	ethod: E	PA 3010A			
	Pace Analytica	l Services -	Peachtree Corners,	GA				
Boron	ND	mg/L	0.040	1	08/11/23 12:25	08/12/23 00:39	7440-42-8	
Potassium	2.5	mg/L	0.50	1	08/11/23 12:25	08/12/23 00:39	7440-09-7	
Sodium	7.6	mg/L	1.0	1	08/11/23 12:25	08/12/23 00:39	7440-23-5	
Calcium	8.5	mg/L	1.0	1	08/11/23 12:25	08/12/23 00:39	7440-70-2	
Magnesium	3.8	mg/L	0.050	1	08/11/23 12:25	08/12/23 00:39	7439-95-4	
6020 MET ICPMS	Analytical Meth	nod: EPA 60	20B Preparation Me	ethod: E	PA 3005A			
	Pace Analytica	l Services -	Peachtree Corners,	GA				
Cobalt	ND	mg/L	0.0050	1	08/12/23 12:20	08/15/23 19:35	7440-48-4	
Lithium	ND	mg/L	0.030	1	08/12/23 12:20	08/15/23 19:35	7439-93-2	
Molybdenum	ND	mg/L	0.010	1	08/12/23 12:20	08/15/23 19:35	7439-98-7	
2540C Total Dissolved Solids	Analytical Meth	nod: SM 254	10C-2015					
	Pace Analytica	l Services -	Peachtree Corners,	GA				
Total Dissolved Solids	86.0	mg/L	25.0	1		08/16/23 10:54		
2320B Alkalinity	Analytical Meth	nod: SM 232	20B-2011					
•	Pace Analytica	l Services -	Asheville					
Alkalinity,Bicarbonate (CaCO3)	45.7	mg/L	5.0	1		08/15/23 16:56		
Alkalinity, Total as CaCO3	45.7	mg/L	5.0	1		08/15/23 16:56		
9056 IC anions 28 Days	Analytical Meth	nod: EPA 90	56A					
•	Pace Analytica							
Chloride	7.2	mg/L	1.0	1		08/11/23 15:05	16887-00-6	
Fluoride	ND	mg/L	0.10	1			16984-48-8	
Sulfate	3.8	mg/L	1.0	1		08/11/23 15:05	14808-79-8	



Project: Plant Arkwright-CCR Ash Pond

Pace Project No.: 92682089

Date: 08/18/2023 01:46 PM

Sample: ARK-BC-BR	Lab ID: 926	82089005	Collected: 08/10/2	23 09:59	Received: 08	8/10/23 13:46 N	latrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Meth	nod: EPA 60	10D Preparation Me	ethod: E	PA 3010A			
	Pace Analytica	l Services -	Peachtree Corners,	GA				
Boron	ND	mg/L	0.040	1	08/11/23 12:25	08/12/23 00:44	7440-42-8	
Potassium	2.6	mg/L	0.50	1	08/11/23 12:25	08/12/23 00:44	7440-09-7	
Sodium	7.9	mg/L	1.0	1	08/11/23 12:25	08/12/23 00:44	7440-23-5	
Calcium	8.8	mg/L	1.0	1	08/11/23 12:25	08/12/23 00:44	7440-70-2	
Magnesium	4.0	mg/L	0.050	1	08/11/23 12:25	08/12/23 00:44	7439-95-4	
6020 MET ICPMS	Analytical Meth	nod: EPA 60	20B Preparation Me	thod: E	PA 3005A			
	Pace Analytica	l Services -	Peachtree Corners,	GA				
Cobalt	ND	mg/L	0.0050	1	08/12/23 12:20	08/15/23 19:38	7440-48-4	
Lithium	ND	mg/L	0.030	1	08/12/23 12:20	08/15/23 19:38	7439-93-2	
Molybdenum	ND	mg/L	0.010	1	08/12/23 12:20	08/15/23 19:38	7439-98-7	
2540C Total Dissolved Solids	Analytical Meth	nod: SM 254	IOC-2015					
	Pace Analytica	l Services -	Peachtree Corners,	GA				
Total Dissolved Solids	87.0	mg/L	25.0	1		08/16/23 10:54		
2320B Alkalinity	Analytical Meth	nod: SM 232	20B-2011					
•	Pace Analytica	l Services -	Asheville					
Alkalinity,Bicarbonate (CaCO3)	45.8	mg/L	5.0	1		08/15/23 17:02		
Alkalinity, Total as CaCO3	45.8	mg/L	5.0	1		08/15/23 17:02		
9056 IC anions 28 Days	Analytical Meth	nod: EPA 90	56A					
•	Pace Analytica	l Services -	Asheville					
Chloride	7.7	mg/L	1.0	1		08/11/23 15:19	16887-00-6	
Fluoride	ND	mg/L	0.10	1		08/11/23 15:19	16984-48-8	
Sulfate	4.4	mg/L	1.0	1		08/11/23 15:19	14808-79-8	



QUALITY CONTROL DATA

Project: Plant Arkwright-CCR Ash Pond

Pace Project No.: 92682089

Date: 08/18/2023 01:46 PM

QC Batch: 792976 Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A Analysis Description: 6010D ATL

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92682089001, 92682089002, 92682089003, 92682089004, 92682089005

METHOD BLANK: 4109304 Matrix: Water

Associated Lab Samples: 92682089001, 92682089002, 92682089003, 92682089004, 92682089005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron	mg/L	ND ND	0.040	08/11/23 23:12	
Calcium	mg/L	ND	1.0	08/11/23 23:12	
Magnesium	mg/L	ND	0.050	08/11/23 23:12	
Potassium	mg/L	ND	0.50	08/11/23 23:12	
Sodium	mg/L	ND	1.0	08/11/23 23:12	

		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
oron	mg/L		0.99	99	80-120	
alcium	mg/L	1	ND	100	80-120	
lagnesium	mg/L	1	1.0	101	80-120	
otassium	mg/L	1	1.1	110	80-120	
odium	mg/L	1	1.0	102	80-120	

MATRIX SPIKE & MATRIX	SPIKE DUPL	LICATE: 4109	983		4109984							
			MS	MSD								
		92682086002	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Boron	mg/L	ND	1	1	1.0	1.1	100	103	75-125	3	20	
Calcium	mg/L	10.5	1	1	11.4	12.2	89	169	75-125	7	20	M1
Magnesium	mg/L	6.5	1	1	7.4	8.0	89	145	75-125	7	20	M1
Potassium	mg/L	3.0	1	1	3.9	4.2	96	127	75-125	8	20	M1
Sodium	mg/L	6.0	1	1	7.0	7.4	99	142	75-125	6	20	M1

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



QUALITY CONTROL DATA

Project: Plant Arkwright-CCR Ash Pond

Pace Project No.: 92682089

QC Batch: 792962 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92682089001, 92682089002, 92682089003, 92682089004, 92682089005

METHOD BLANK: 4109255 Matrix: Water

Associated Lab Samples: 92682089001, 92682089002, 92682089003, 92682089004, 92682089005

Blank Reporting Qualifiers Parameter Units Result Limit Analyzed Cobalt mg/L ND 0.0050 08/15/23 18:35 Lithium mg/L ND 0.030 08/15/23 18:35 Molybdenum mg/L ND 08/15/23 18:35 0.010

LABORATORY CONTROL SAMPLE: 4109256

Date: 08/18/2023 01:46 PM

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cobalt	mg/L	0.1	0.097	97	80-120	
Lithium	mg/L	0.1	0.11	107	80-120	
Molybdenum	mg/L	0.1	0.10	100	80-120	

MATRIX SPIKE & MATRIX SP	4109258											
			MS	MSD								
		92682086003	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Cobalt	mg/L	0.013	0.1	0.1	0.11	0.11	98	99	75-125	1	20	_
Lithium	mg/L	ND	0.1	0.1	0.080	0.080	79	80	75-125	1	20	
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	102	102	75-125	0	20	

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



QUALITY CONTROL DATA

Project: Plant Arkwright-CCR Ash Pond

Pace Project No.: 92682089

QC Batch: 793913 Analysis Method: SM 2540C-2015

QC Batch Method: SM 2540C-2015 Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92682089001, 92682089002, 92682089003, 92682089004, 92682089005

METHOD BLANK: 4113724 Matrix: Water

Associated Lab Samples: 92682089001, 92682089002, 92682089003, 92682089004, 92682089005

Blank Reporting

Parameter Units Result Limit Analyzed Qualifiers

Total Dissolved Solids mg/L ND 25.0 08/16/23 10:52

LABORATORY CONTROL SAMPLE: 4113725

Spike LCS LCS % Rec Conc. % Rec Limits Qualifiers Parameter Units Result **Total Dissolved Solids** mg/L 384 96 80-120

SAMPLE DUPLICATE: 4113726

Date: 08/18/2023 01:46 PM

92682086006 Dup Max **RPD** Parameter Units Result Result **RPD** Qualifiers 81.0 **Total Dissolved Solids** mg/L 76.0 6 10

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



QUALITY CONTROL DATA

Project: Plant Arkwright-CCR Ash Pond

Pace Project No.: 92682089

QC Batch: 793557 Analysis Method: SM 2320B-2011
QC Batch Method: SM 2320B-2011 Analysis Description: 2320B Alkalinity

Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92682089001, 92682089002, 92682089003, 92682089004, 92682089005

METHOD BLANK: 4112158 Matrix: Water

Associated Lab Samples: 92682089001, 92682089002, 92682089003, 92682089004, 92682089005

Blank Reporting Qualifiers Parameter Units Result Limit Analyzed Alkalinity, Total as CaCO3 ND 5.0 08/15/23 15:20 mg/L Alkalinity, Bicarbonate (CaCO3) mg/L ND 5.0 08/15/23 15:20

LABORATORY CONTROL SAMPLE: 4112159

Spike LCS LCS % Rec Parameter Units Conc. Result % Rec Limits Qualifiers Alkalinity, Total as CaCO3 52.2 104 80-120 mg/L 50

LABORATORY CONTROL SAMPLE: 4112160

Date: 08/18/2023 01:46 PM

LCS Spike LCS % Rec Conc. % Rec Limits Qualifiers Parameter Units Result Alkalinity, Total as CaCO3 mg/L 50 49.6 99 80-120

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4112161 4112162

MS MSD 92682122003 MS MSD MS MSD Spike Spike % Rec Max Parameter Units Result Conc. Conc. Result Result % Rec % Rec Limits RPD RPD Qual 50 50 Alkalinity, Total as CaCO3 154 212 220 116 131 80-120 3 25 M1 mg/L

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4112163 4112164

MSD MS 92682122004 Spike Spike MS MSD MS MSD % Rec Max Parameter Units Result Conc. Conc. Result Result % Rec % Rec **RPD** RPD Limits Qual Alkalinity, Total as CaCO3 mg/L 156 50 50 220 223 129 133 80-120 25 M1

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



QUALITY CONTROL DATA

Project: Plant Arkwright-CCR Ash Pond

LABORATORY CONTROL SAMPLE: 4400135

Date: 08/18/2023 01:46 PM

Pace Project No.: 92682089

QC Batch: 792926 Analysis Method: EPA 9056A

QC Batch Method: EPA 9056A Analysis Description: 9056 IC anions 28 Days

Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92682089001, 92682089002, 92682089003, 92682089004, 92682089005

METHOD BLANK: 4109134 Matrix: Water

Associated Lab Samples: 92682089001, 92682089002, 92682089003, 92682089004, 92682089005

		Blank	Reporting		
Parameter	Units	Result	Limit	Analyzed	Qualifiers
Chloride	mg/L	ND ND	1.0	08/11/23 11:35	
Fluoride	mg/L	ND	0.10	08/11/23 11:35	
Sulfate	mg/L	ND	1.0	08/11/23 11:35	

LABORATORY CONTROL SAMPLE.	4109135					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
Chloride	mg/L	50	48.1	96	90-110	
Fluoride	mg/L	2.5	2.5	100	90-110	
Sulfate	mg/L	50	48.2	96	90-110	

MATRIX SPIKE & MATRIX SP	IKE DUPL	ICATE: 4109	136		4109137							
			MS	MSD								
		92682086001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Chloride	mg/L	4.2	50	50	53.2	52.9	98	97	90-110	0	10	
Fluoride	mg/L	ND	2.5	2.5	2.4	2.4	95	95	90-110	0	10	
Sulfate	mg/L	ND	50	50	48.2	48.0	95	94	90-110	1	10	

MATRIX SPIKE & MATRIX SP	IKE DUPL	ICATE: 4109	138		4109139							
			MS	MSD								
		92682089005	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Chloride	mg/L	7.7	50	50	56.0	57.3	97	99	90-110	2	10	
Fluoride	mg/L	ND	2.5	2.5	2.4	2.5	94	96	90-110	2	10	
Sulfate	mg/L	4.4	50	50	51.0	53.9	93	99	90-110	5	10	

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



QUALIFIERS

Project: Plant Arkwright-CCR Ash Pond

Pace Project No.: 92682089

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

Date: 08/18/2023 01:46 PM

M1

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



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Arkwright-CCR Ash Pond

Pace Project No.: 92682089

Date: 08/18/2023 01:46 PM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92682089001	ARK-BC-0.8a	EPA 3010A	792976	EPA 6010D	
92682089002	ARK-BC-0.5.5	EPA 3010A	792976	EPA 6010D	793131
92682089003	ARK-BC-0.5.6	EPA 3010A	792976	EPA 6010D	793131
92682089004	ARK-BC-0.5.7	EPA 3010A	792976	EPA 6010D	793131
92682089005	ARK-BC-BR	EPA 3010A	792976	EPA 6010D	793131
92682089001	ARK-BC-0.8a	EPA 3005A	792962	EPA 6020B	793277
92682089002	ARK-BC-0.5.5	EPA 3005A	792962	EPA 6020B	793277
92682089003	ARK-BC-0.5.6	EPA 3005A	792962	EPA 6020B	793277
92682089004	ARK-BC-0.5.7	EPA 3005A	792962	EPA 6020B	793277
92682089005	ARK-BC-BR	EPA 3005A	792962	EPA 6020B	793277
92682089001	ARK-BC-0.8a	SM 2540C-2015	793913		
92682089002	ARK-BC-0.5.5	SM 2540C-2015	793913		
92682089003	ARK-BC-0.5.6	SM 2540C-2015	793913		
92682089004	ARK-BC-0.5.7	SM 2540C-2015	793913		
92682089005	ARK-BC-BR	SM 2540C-2015	793913		
92682089001	ARK-BC-0.8a	SM 2320B-2011	793557		
92682089002	ARK-BC-0.5.5	SM 2320B-2011	793557		
92682089003	ARK-BC-0.5.6	SM 2320B-2011	793557		
92682089004	ARK-BC-0.5.7	SM 2320B-2011	793557		
92682089005	ARK-BC-BR	SM 2320B-2011	793557		
92682089001	ARK-BC-0.8a	EPA 9056A	792926		
92682089002	ARK-BC-0.5.5	EPA 9056A	792926		
92682089003	ARK-BC-0.5.6	EPA 9056A	792926		
92682089004	ARK-BC-0.5.7	EPA 9056A	792926		
92682089005	ARK-BC-BR	EPA 9056A	792926		

Pace Analytical www.pucluss.com

CHAIN-OF-CUSTODY / Analytical Request Document

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

WK-CCR-ASSMT-202382 061 App. IV - As, Co, Li, Mo 2 Requested Due Date: Vilanta, GA 30339 Company: ARCADIS - Atlanta 8 ITEM # N uired Client Information: kelley.sharpe@ercadis.com ARK-BC-0.57 ARK-BC-BR ARK-BC-0.5.6 ARK-8C-0.5.5 ARK-BC-0.8a 2839 Paces Farry Rd (770)384-6584 Sample ids must be unique One Character per box. **SAMPLE ID** ADDITIONAL COSINENTS (A.Z, 0.9 / , .) MATRIX Drinking Water Water Wester Wester Wester Product Solificial Oil Whipe Air Other Tissue Required Project Information:
Report To: Kelley Sharps, Werren Johnson
Copy To: Ben Hodges, Joju Abraham Project Name: Purchase Order #: GPC82474-0003 MATRIX CODE (see valid codes to left) The Hard SAMPLE TYPE (G=GRAB C=COMP) Plant Arkwright/CCR-Ash Pond Closure WED BY A APPLICATION 7/15/015 1/9/11/17 hho! Salay START 100 1037 SAMPLER NAME AND SIGNATURE COLLECTED PRINT Name of SAMPLER: SIGNATURE of SAMPLER: END 8/10/13 DATE SAMPLE TEMP AT COLLECTION Invoice Information:
Attention:
Company Name:
Address: # OF CONTAINERS Pace Project Manager: Pace Profile #: 1583 Pace Quote: 346 THE Unpreserved H2SO4 HNO3 HÇI NaOH Na2S2O3 CORPTED BY AFFILIATION maiya.parks@pecslabs.com Methanol Other **Analyses Test** Y/N Total/Bicarb Alkalinity DATE Signed: CI, F. SO4 TDS App. III Metals - B, Ca App. IV Metals (Client List) 8-10 Metals - Mg, Na, K WO#:92682089 BILVIO Page : TEMP in C Residual Chlorine (Y/N) Received on SIAMPLE CONDITIONS (Y/N) Custod Sealed Cooler ₽ (Y/N) Samples Intact (Y/N)

A	Pace.
1 .	MALLYTICAL SERVICES

DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective	Date:	11/14	/2022

Laboratory receiving samples:	
	Mechanicsville Atlanta Kernersville
Sample Condition Upon Receipt Client Name Project	
Courier: Fed Ex UPS USPS Client	PM: IIP Due Date: 08/17/23
Commercial Pace Other:	CLIENT: GA-Arcadat1
Custody Seal Present? Yes No Seals Intact? Yes No	
	Date/Initials Person Examining Contents: 8-10-134
Packing Material: Bubble Wrap Bubble Bags None Other	Biological Tissue Frozen?
Thermometer:	Yes No N/A
Type of Ice: Wet Blue	□None
Cooler Temp: S2 Correction Factor: Add/Subtract (°C)	Town should be about for all the CO
	Temp should be above freezing to 6°C ☐Samples out of temp criteria. Samples on ice, cooling process
Cooler Temp Corrected (°C): USDA Regulated Soil (N/A, water sample)	has begun
Did samples originate in a quarantine zone within the United States: CA, NY, or SC	Did samples originate from a foreign source (internationally,
(check maps)? Yes No	including Hawaii and Puerto Rico)? Yes No
Chain of Custody Present?	Comments/Discrepancy:
Samples Arrived within Hold Time? Yes No HN/A 2.	
Short Hold Time Analysis (<72 hr.)?	
Rush Turn Around Time Requested?	-
Sufficient Volume?	
-Pace Containers Used?	
Containers Intact?	
Dissolved analysis: Samples Field Filtered?	
Sample Labels Match COC?	
-Includes Date/Time/ID/Analysis Matrix: W	
Headspace in VOA Vials (>5-6mm)?	
Trip Blank Present?	
Trip Blank Custody Seals Present? Yes No WA	
COMMENTS/SAMPLE DISCREPANCY	Field Data Required? Yes No
	Sept. Mar.
	of split containers:
CLIENT NOTIFICATION/RESOLUTION	
Person contacted: Date/Time:	
Date/Times	10:1
Project Manager SCURF Review:	Date:
Project Manager SRF Review:	Date:



DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

*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 #

WO#: 92682089

PM: IIP

Due Date: 08/17/23

CLIENT: GA-ArcadAtl

	BP4U-125 mL Plastic Unpreserved (N/A) (CI-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP45-125 mL Plastic H2SO4 (pH < 2) (CI-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP42-125 mL Plastic ZN Acetate & NaOH (>9)	BP48-1 25 mL Plastic NaOH (pH > 12) {CI-}	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (CI-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 ml. Amber Unpreserved (N/A) (CI-)	AG15-1 liter Amber H2SO4 {pH < 2}	AG3S- 250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCI (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)2504 (9.3-9.7)	AGOU-100 mL Amber Unpreserved (N/A) (CI-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1			2	i		X																						
2			7	1		X		1												-								4
3			2	,		X	\setminus																	/				
4			2			K	\sum						/											\angle				
5			2	/	/	X		\setminus					/	/								:		\angle				
6					/								/	/	/									\angle				
7					/	/							/	/										\angle	100			
8		-			/																							
9						\setminus																						
10					/	\angle	/						/											/				
11																								\angle				
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.5 Data Quality Evaluation

DATA USABILITY SUMMARY

Steven Elliott (Stantec) reviewed two data packages from GEL Laboratories (GEL) for the analysis of water samples collected August 8 through August 10, 2023, at the Georgia Power Arkwright Plant AP2 site. Samples were collected according to the Field Sampling Plan – Plant Arkwright (Amec Foster Wheeler, 2016).

Intended Use of Data: To delineate concentrations of constituents of concern in site groundwater.

Analyses requested included:

- SW-846 6020B Total Metals by inductively coupled plasma mass spectrometry (ICP/MS)
- SW-846 6020B Dissolved Metals (Fe & Mn) by 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
- SM 2320B Alkalinity, Total and Bicarbonate
- 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

Eleven (11) groundwater samples, one (1) field blank, one (1) equipment blank, and one (1) field duplicate sample 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 temperature ranges of 0.0 to 3.6°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

<u>Laboratory Method Blanks</u>. No contamination was detected in any of the laboratory method blanks with the following exception.

SDG 632699

Aluminum was detected in the method blank (1205501935) at a concentration (0.021 mg/L) below the reporting limit (RL). No qualification was required for associated sample results reported as greater than 10 times the blank concentration. Associated samples reported with detected concentrations less than 10 times the blank concentration have been qualified as estimated.

<u>Field Blanks</u>. Field blanks were analyzed for the full suite of sample analyses and all analytes were not detected with the following exceptions:

SDG 632699

 Boron was detected in the field blank ARK-AP2-FB-01 (08/08/2023) at a concentration above the laboratory RL. No qualification was required for associated sample results reported as greater than 10 times the blank concentration. Associated samples reported with detected concentrations less than 10 times the blank concentration have been qualified as estimated.

SDG 633126

• Chloride was detected in the equipment blank ARK-AP2-EB-01 (08/09/2023) at a concentration below the laboratory Reporting Limit (RL). No qualification was required for associated sample results reported as greater than 10 times the blank concentration.

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.

Field Precision

One set of field duplicate samples were collected for this sampling event (see Table 3a 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-19	632699001	632699	6020B, 7470A, 300, 353.2, 2540C, 2320B	08/08/2023
ARK-AP2-FD-01	632699002	632699	6020B, 7470A, 300, 353.2, 2540C	08/08/2023
ARK-ARGWC-22	632699003	632699	6020B, 7470A, 300, 353.2, 2540C, 2320B	08/08/2023
ARK-ARAMW-7	632699004	632699	6020B, 7470A, 300, 353.2, 2540C, 2320B	08/08/2023
ARK-AP2-FB-01	632699005	632699	6020B, 7470A, 300, 353.2, 2540C	08/08/2023
ARK-ARAMW-9	632699006	632699	6020B (D), 7470A, 300, 353.2, 2540C, 2320B	08/08/2023
ARK-ARAMW-2	632699007	632699	6020B, 7470A, 300, 353.2, 2540C, 2320B	08/08/2023
ARK-ARAMW-1	632699008	632699	6020B, 7470A, 300, 353.2, 2540C, 2320B	08/08/2023
ARK-ARGWC-23	632699009	632699	6020B, 7470A, 300, 353.2, 2540C, 2320B	08/08/2023
ARK-ARGWA-19	632699010	632699	6020B (D)	08/08/2023
ARK-ARGWC-22	632699011	632699	6020B, 7470A	08/08/2023
ARK-ARAMW-7	632699012	632699	6020B (D)	08/08/2023
ARK-ARAMW-9	632699013	632699	6020B	08/08/2023
ARK-ARAMW-2	632699014	632699	6020B (D)	08/08/2023
ARK-ARAMW-1	632699015	632699	6020B (D)	08/08/2023
ARK-ARGWC-23	632699016	632699	6020B (D)	08/08/2023
ARK-ARGWC-21	633126001	633126	6020B (D), 7470A, 300, 2540C, 2320B	08/09/2023
ARK-AP2-EB-01	633126002	633126	6020B, 7470A, 300, 2540C	08/09/2023

Field Identification	Laboratory Identification	SDG	Analyses	Sample Date
ARK-ARAMW-8	633126003	633126	6020B, 7470A, 300, 2540C, 2320B	08/9/2023
ARK-ARGWA-20	633126004	633126	6020B (D), 7470A, 300, 2540C, 2320B	08/10/2023
ARK-STN-TW22	633126005	633126	6020B, 7470A, 300, 2320B	08/10/2023
ARK-ARGWC-21	633126006	633126	353.2	08/09/2023
ARK-AP2-EB-01	633126007	633126	353.2	08/09/2023
ARK-ARAMW-8	633126008	633126	353.2	08/9/2023
ARK-ARGWA-20	633126009	633126	353.2	08/10/2023
ARK-STN-TW22	633126010	633126	353.2	08/10/2023
ARK-ARGWC-21	633126011	633126	6020B, 7470A	08/09/2023
ARK-ARAMW-8	633126012	633126	6020B (D)	08/09/2023
ARK-ARGWA-20	633126013	633126	6020B, 7470A	08/10/2023
ARK-STN-TW22	633126014	633126	6020B (D)	08/10/2023
ARK-ARGWA-19	632702001	632702	903.1, 904	08/08/2023
ARK-AP2-FD-01	632702002	632702	903.1, 904	08/08/2023
ARK-ARGWC-22	632702003	632702	903.1, 904	08/08/2023
ARK-ARAMW-7	632702004	632702	903.1, 904	08/08/2023
ARK-AP2-FB-01	632702005	632702	903.1, 904	08/08/2023
ARK-ARAMW-9	632702006	632702	903.1, 904	08/08/2023
ARK-ARAMW-2	632702007	632702	903.1, 904	08/08/2023
ARK-ARAMW-1	632702008	632702	903.1, 904	08/08/2023
ARK-ARGWC-23	632702009	632702	903.1, 904	08/08/2023
ARK-ARGWC-21	633128001	633128	903.1, 904	08/09/2023
ARK-AP2-EB-01	633128002	633128	903.1, 904	08/09/2023
ARK-ARAMW-8	633128003	633128	903.1, 904	08/9/2023
ARK-ARGWA-20	633128004	633128	903.1, 904	08/10/2023

D – dissolved (Fe, Mn)

Table 2 – Qualified Analytical Data

Field Identification	Analyte	Qualification / Code	Reason for Qualification
ARK-ARAMW-9	Boron	J+ / BFH	Detected in FB
ARK-ARGWA-19	Boron	J+ / BFH	Detected in FB
ARK-AP2-FD-01	Boron	J+ / BFH	Detected in FB
ARK-ARGWC-21	Aluminum	J+ / BLH	Detected in MB
ARGWC-22	Aluminum	J+ / BLH	Detected in MB
ARAMW-9	Aluminum	J+ / BLH	Detected in MB

BFH – Blank Field High – detected in the field blank (FB)

BLH – Blank Lab High – detected in the lab method blank (MB)

J – Estimated data; the reported quantitation limit or sample concentration is approximated due to exceedance of one or more QC requirements.

J+- The analyte was detected in an associated blank; estimated data with a high bias.

Table 3a - Field Precision

Field		Sample Result	Duplicate		
Identification	Analyte	(mg/L)	Result (mg/L)	RPD ^a	Qualified
ARK-ARGWA-19/	Sulfate	8.29	8.34	0.6%	А
ARK-AP2-FD-01	Chloride	6.37	6.27	1.6%	Α
	Boron	0.0199	0.0183	<5*RL, <2*RL	A*
	Calcium	8.51	8.36	1.8%	А
	Barium	0.0337	0.0334	<5*RL, <2*RL	A*
	Magnesium	3.36	NA	NC	-
	Potassium	2.08	NA	NC	-
	Sodium	9.51	NA	NC	-
	Lithium	0.00382	0.00368	<5*RL, <2*RL	A*
	Molybdenum	0.000421 J	0.000361	<5*RL, <2*RL	A*
	Nitrate/nitrite	1.83	1.89	0.4%	А
	TDS	62	67	3.2%	А
	Total Alkalinity	37	NA	NC	=
	Bicarbonate	37	NA	NC	-

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.

J – Estimated detected.

NA – not analyzed

NC – not calculated

Appendix C Statistical Analyses

GROUNDWATER STATS CONSULTING

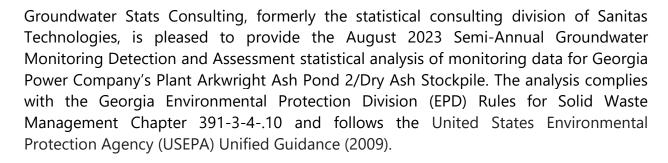
SWFPR

February 28, 2024

Southern Company Services Attn: Mr. Joju Abraham 241 Ralph McGill Blvd NE, Bin 10160 Atlanta, Georgia 30308-3374

Re: Plant Arkwright Ash Pond 2/Dry Ash Stockpile August 2023 Semi-Annual Sample Event

Dear Mr. Abraham,



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-19 and ARGWA-20
- o **Downgradient wells:** ARGWC-21, ARGWC-22, and ARGWC-23
- Assessment wells: ARAMW-1, ARAMW-2, ARAMW-7, ARAMW-8, and ARAMW-9

Assessment wells ARAMW-1 and ARAMW-2 were installed in late 2019, and wells ARAMW-7 and ARAMW-8 were installed in late 2020. Assessment well ARAMW-9 was first sampled in January 2023. Assessment wells with less than 4 samples did not require

formal statistics; therefore, these well/constituent pairs were only plotted on time series graphs and box plots. Assessment wells with 4 or more samples were additionally evaluated with confidence intervals.

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 program consists of the following constituents:

- o Georgia Appendix I: arsenic, barium, cadmium, lead, selenium, and silver
- o **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 I constituents were analyzed using interwell prediction limits and confidence intervals; data for Appendix III constituents were analyzed using interwell prediction limits; 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 2016 for all constituents follow this letter. For all constituents, a substitution of the most recent reporting limit is used for non-detect data.

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 previously provided to demonstrate that the selected statistical methods for the parameters listed above comply with the USEPA Unified Guidance and the Georgia Environmental Protection Division Rules for Solid Waste Management Chapter 391-3-4-.10. The EPA suggests the selected statistical

method should provide at least 55% power at 3 standard deviations or at least 80% power at 4 standard deviations. Power curves were based on the following:

Georgia EPD Appendix I Constituents:

- Semi-Annual Sampling
- Interwell Prediction Limits with 1-of-2 resample plan (all parameters)
- # Constituents: 5 (cadmium was 100% non-detect in downgradient wells)
- # Downgradient wells: 3

CCR Appendix III Constituents:

- Semi-Annual Sampling
- Interwell Prediction Limits with 1-of-2 resample plan (all parameters)
- # Constituents: 7
- # Downgradient wells: 3

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% nondetects (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 careful screening for any new outliers. In some cases, the earlier portion of data may require deselection 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 wells ARGWA-19, ARGWA-20, and ARGWC-21 for Appendix I, Appendix III, and Appendix IV 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. Outliers were flagged in downgradient wells, though there are no intrawell statistical analyses in the current report. This improves the estimate of downgradient confidence intervals and provides for possible future application of intrawell statistics. As noted below, current values that could result in exceedances were not flagged.

When the most recent values are identified as outliers in upgradient wells, those values are typically not flagged in the database (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) may be flagged as outliers if they are much higher than current reporting limits.

Additionally, when any values are flagged in the database as outliers, they are plotted in a disconnected and lighter symbol on the time series graph. The accompanying data

pages display the flagged value in a lighter font as well. A substitution of the most recent reporting limit was applied when varying detection limits existed in data. A summary of flagged values is included in Figure C.

<u>Seasonality</u>

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 Test Evaluation

While trends may be identified by visual inspection, a quantification of the trend and its significance is needed. The Sen's Slope/Mann Kendall trend test was used to evaluate all data at wells ARGWA-19, ARGWA-20, and ARGWC-21 to identify statistically significant increasing or decreasing trends. In the absence of suspected contamination, significant trending data are typically not included as part of the background data used for construction of prediction limits. This step serves to eliminate the trend and, thus, reduce variation in background. When statistically significant decreasing trends are present, all available data are evaluated to determine whether earlier concentration levels are significantly different than current reported concentrations and will be deselected as necessary. When any records of data are truncated for the reasons above, a summary report will be provided to show the date ranges used in construction of the statistical limits.

The results of the trend analyses were included with the previous screenings and showed a few statistically significant trends, both increasing and decreasing. No adjustments to the background period were made because the overall changes were relatively small. Since intrawell tests are not used in this current analysis, the background levels are not affected by trends in downgradient wells.

<u>Appendix III – Determination of Spatial Variation</u>

The Analysis of Variance (ANOVA) was used to statistically evaluate differences in average concentrations among upgradient wells, which assists in identifying the most appropriate statistical approach. Interwell tests, which compare downgradient well data to statistical limits constructed from pooled upgradient well data, are appropriate when average concentrations are similar across upgradient wells. Intrawell tests, which compare

compliance data from a single well to screened historical data within the same well, are appropriate when upgradient wells exhibit spatial variation; when statistical limits constructed from upgradient wells are not representative of the current background data population; and when downgradient water quality is unimpacted compared to upgradient water quality for the same parameter.

The ANOVA identified significant differences among upgradient well data for several constituents. While data were further tested for intrawell eligibility during the screening, interwell methods will be used for all Appendix I and Appendix III constituents in accordance with Georgia EPD requirements.

Prediction Limit Analysis of Appendix I & III Parameters – August 2023

All Appendix I and III parameters are analyzed using interwell prediction limits. Upgradient well data were re-assessed for potential outliers during this analysis. No additional values were flagged and a summary of flagged outliers follows this report (Figure C).

Interwell Prediction Limits

Interwell prediction limits, combined with a 1-of-2 resample plan, were constructed using all historical upgradient well data through August 2023 for Appendix I and III constituents (Figures D & E, respectively). As mentioned above, downgradient wells containing 100% non-detects did not require statistical analyses. Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent. The August 2023 sample from each downgradient well is compared to the background limit 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 and graphical results for the interwell prediction limits for Appendix I and III constituents limits follow this letter. No exceedances were identified for Appendix I well/constituent pairs. The following exceedances were identified for Appendix III well/constituent pairs:

Boron: ARGWC-21, ARGWC-22, and ARGWC-23
 Calcium: ARGWC-21, ARGWC-22, and ARGWC-23

Fluoride: ARGWC-21 and ARGWC-23
 pH: ARGWC-21 and ARGWC-23

Sulfate: ARGWC-21, ARGWC-22, and ARGWC-23
 TDS ARGWC-21, ARGWC-22, and ARGWC-23

<u>Trend Tests – Appendix III</u>

When prediction limit exceedances are identified in downgradient wells, data are further evaluated using the Sen's Slope/Mann Kendall trend test at the 99% confidence level to determine whether concentrations are statistically increasing, decreasing, or stable (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. Both a summary and graphical display of the trend test results follows this letter. Statistically significant trends were identified for the following well/constituent pairs:

Increasing:

Boron: ARGWC-21
Calcium: ARGWC-21
Fluoride: ARGWC-23
Sulfate: ARGWC-21
TDS: ARGWC-21

Decreasing:

• Sulfate: ARGWA-19 (upgradient)

Confidence Interval Analysis of Appendix I & IV Parameters – August 2023

For Appendix I and IV parameters, confidence intervals for each downgradient well/constituent pair were compared against corresponding Groundwater Protection Standards (GWPS). GWPS were developed as described below. Downgradient well/constituent pairs containing 100% non-detects do not require analysis. Data from upgradient wells for Appendix I and IV parameters are reassessed for outliers during each analysis. No additional values were flagged, and a summary of previously 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 2023 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 since 2016 for each of the Appendix I and IV constituents in accordance with the state requirements in each downgradient well (Figure I). The Sanitas software was used to calculate the tolerance limits and 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 pairs:

Cobalt: ARAMW-7Lithium: ARAMW-7

<u>Trend Test Evaluation – Appendix IV</u>

Assessment monitoring well/constituent pairs identified with confidence interval exceedances (which evaluate the average concentration of a group of measurements) are further evaluated using the Sen's Slope/Mann-Kendall trend test using 95% confidence (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 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. No significant trends were identified.

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for Plant Arkwright Ash Pond 2/Dry Ash Stockpile. If you have any questions or comments, please feel free to contact us.

For Groundwater Stats Consulting,

Kristina Rayner Senior Statistician

Andrew Collins Project Manager

Kristina Rayner

Sanitas™ v.10.0.06 Software licensed to Groundwater Stats Consulting. UG

100% Non-Detects: Appendix I & IV Downgradient and Assessment

Analysis Run 10/13/2023 11:00 AM View: Confidence Intervals
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Antimony (mg/L)

ARAMW-1, ARAMW-2, ARAMW-7, ARGWC-21, ARGWC-22, ARGWC-23

Arsenic (mg/L)

ARAMW-9

Beryllium (mg/L)

ARAMW-1, ARAMW-2, ARAMW-8, ARAMW-9, ARGWC-21

Cadmium (mg/L)

ARAMW-1, ARAMW-2, ARAMW-7, ARAMW-8, ARAMW-9, ARGWC-21, ARGWC-22, ARGWC-23

Chromium (mg/L)

ARAMW-1, ARAMW-2, ARAMW-7, ARAMW-8, ARAMW-9, ARGWC-23

Cobalt (mg/L)

ARAMW-9

Lead (mg/L)

ARAMW-1, ARAMW-2, ARAMW-8, ARAMW-9

Mercury (mg/L)

ARAMW-1, ARAMW-2, ARAMW-7, ARAMW-8, ARAMW-9, ARGWC-22, ARGWC-23

Molybdenum (mg/L)

ARGWC-21

Selenium (mg/L)

ARAMW-1, ARAMW-2, ARAMW-7, ARAMW-8, ARAMW-9, ARGWC-21, ARGWC-23

Silver (mg/L)

ARAMW-1, ARAMW-2, ARAMW-7, ARAMW-8, ARAMW-9, ARGWC-22, ARGWC-23

Thallium (mg/L)

ARAMW-1, ARAMW-2, ARAMW-7, ARAMW-8, ARAMW-9, ARGWC-21

Interwell Prediction Limits - Appendix I & IV - All Results (No Significant)

		Plant Ark	kwright Clie	ent: Souther	rn Company	Da	ta: Arl	kwright No 2	Pri	nted 10/19/2	2023, 8:	46 AM			
Constituent	Well	Upper Lim.	Lower Lim.	<u>Date</u>	Observ.	Sig.	Bg N	Bg Mean		Std. Dev.	%NDs	ND Adj.	Transform	n Alpha	Method
Arsenic (mg/L)	ARGWC-21	0.005	n/a	8/9/2023	0.005ND	No	68	n/a		n/a	86.76	n/a	n/a	0.0004166	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	ARGWC-22	0.005	n/a	8/8/2023	0.005ND	No	68	n/a		n/a	86.76	n/a	n/a	0.0004166	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	ARGWC-23	0.005	n/a	8/8/2023	0.005ND	No	68	n/a		n/a	86.76	n/a	n/a	0.0004166	NP Inter (NDs) 1 of 2
Barium (mg/L)	ARGWC-21	0.107	n/a	8/9/2023	0.0474	No	68	n/a		n/a	0	n/a	n/a	0.0004166	NP Inter (normality) 1 of 2
Barium (mg/L)	ARGWC-22	0.107	n/a	8/8/2023	0.0255	No	68	n/a		n/a	0	n/a	n/a	0.0004166	NP Inter (normality) 1 of 2
Barium (mg/L)	ARGWC-23	0.107	n/a	8/8/2023	0.0936	No	68	n/a		n/a	0	n/a	n/a	0.0004166	NP Inter (normality) 1 of 2
Lead (mg/L)	ARGWC-21	0.002	n/a	8/9/2023	0.002ND	No	68	n/a		n/a	86.76	n/a	n/a	0.0004166	NP Inter (NDs) 1 of 2
Lead (mg/L)	ARGWC-22	0.002	n/a	8/8/2023	0.002ND	No	68	n/a		n/a	86.76	n/a	n/a	0.0004166	NP Inter (NDs) 1 of 2
Lead (mg/L)	ARGWC-23	0.002	n/a	8/8/2023	0.002ND	No	68	n/a		n/a	86.76	n/a	n/a	0.0004166	NP Inter (NDs) 1 of 2
Selenium (mg/L)	ARGWC-22	0.005	n/a	8/8/2023	0.005ND	No	67	n/a		n/a	65.67	n/a	n/a	0.0004301	NP Inter (NDs) 1 of 2
Silver (mg/L)	ARGWC-21	0.001	n/a	8/9/2023	0.001ND	No	58	n/a		n/a	91.38	n/a	n/a	0.0005697	NP Inter (NDs) 1 of 2

Interwell Prediction Limits - Appendix III - Significant Results

		Plant Arkv	vright Clien	t: Southerr	Company	Data: Arkv	vright No 2 Pr	inted 10/13/20	23, 11:	32 AM			
Constituent	Well	Upper Lim.	Lower Lim.	<u>Date</u>	Observ.	Sig. Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transforn	<u>Alpha</u>	Method
Boron (mg/L)	ARGWC-21	0.092	n/a	8/9/2023	1.12	Yes 38	n/a	n/a	28.95	n/a	n/a	0.001277	NP Inter (normality) 1 of 2
Boron (mg/L)	ARGWC-22	0.092	n/a	8/8/2023	3.06	Yes 38	n/a	n/a	28.95	n/a	n/a	0.001277	NP Inter (normality) 1 of 2
Boron (mg/L)	ARGWC-23	0.092	n/a	8/8/2023	0.379	Yes 38	n/a	n/a	28.95	n/a	n/a	0.001277	NP Inter (normality) 1 of 2
Calcium (mg/L)	ARGWC-21	13.99	n/a	8/9/2023	82.9	Yes 38	3.222	0.2948	0	None	sqrt(x)	0.002505	Param Inter 1 of 2
Calcium (mg/L)	ARGWC-22	13.99	n/a	8/8/2023	196	Yes 38	3.222	0.2948	0	None	sqrt(x)	0.002505	Param Inter 1 of 2
Calcium (mg/L)	ARGWC-23	13.99	n/a	8/8/2023	66.6	Yes 38	3.222	0.2948	0	None	sqrt(x)	0.002505	Param Inter 1 of 2
Fluoride (mg/L)	ARGWC-21	0.148	n/a	8/9/2023	0.203	Yes 42	n/a	n/a	45.24	n/a	n/a	0.001066	NP Inter (normality) 1 of 2
Fluoride (mg/L)	ARGWC-23	0.148	n/a	8/8/2023	0.283	Yes 42	n/a	n/a	45.24	n/a	n/a	0.001066	NP Inter (normality) 1 of 2
pH (SU)	ARGWC-21	6.085	5.388	8/9/2023	6.6	Yes 41	5.737	0.1994	0	None	No	0.001253	Param Inter 1 of 2
pH (SU)	ARGWC-23	6.085	5.388	8/8/2023	6.33	Yes 41	5.737	0.1994	0	None	No	0.001253	Param Inter 1 of 2
Sulfate (mg/L)	ARGWC-21	21	n/a	8/9/2023	214	Yes 63	n/a	n/a	0	n/a	n/a	0.0004845	NP Inter (normality) 1 of 2
Sulfate (mg/L)	ARGWC-22	21	n/a	8/8/2023	719	Yes 63	n/a	n/a	0	n/a	n/a	0.0004845	NP Inter (normality) 1 of 2
Sulfate (mg/L)	ARGWC-23	21	n/a	8/8/2023	69.8	Yes 63	n/a	n/a	0	n/a	n/a	0.0004845	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	ARGWC-21	143.5	n/a	8/9/2023	520	Yes 36	105.8	21.33	0	None	No	0.002505	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	ARGWC-22	143.5	n/a	8/8/2023	1220	Yes 36	105.8	21.33	0	None	No	0.002505	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	ARGWC-23	143.5	n/a	8/8/2023	294	Yes 36	105.8	21.33	0	None	No	0.002505	Param Inter 1 of 2

Interwell Prediction Limits - Appendix III - All Results

		Plant Ark	wright Cli	ent: Souther	n Company	Data: Arl	wright No 2	Pri	inted 10/13/2	023, 11	:32 AM			
Constituent	Well	Upper Lim.	Lower Lin	n. Date	Observ.	Sig. Bg I	N Bg Mean		Std. Dev.	%NDs	ND Adj.	Transfor	m Alpha	Method
Boron (mg/L)	ARGWC-21	0.092	n/a	8/9/2023	1.12	Yes 38	n/a		n/a	28.95	n/a	n/a	0.001277	NP Inter (normality) 1 of 2
Boron (mg/L)	ARGWC-22	0.092	n/a	8/8/2023	3.06	Yes 38	n/a		n/a	28.95	n/a	n/a	0.001277	NP Inter (normality) 1 of 2
Boron (mg/L)	ARGWC-23	0.092	n/a	8/8/2023	0.379	Yes 38	n/a		n/a	28.95	n/a	n/a	0.001277	NP Inter (normality) 1 of 2
Calcium (mg/L)	ARGWC-21	13.99	n/a	8/9/2023	82.9	Yes 38	3.222		0.2948	0	None	sqrt(x)	0.002505	Param Inter 1 of 2
Calcium (mg/L)	ARGWC-22	13.99	n/a	8/8/2023	196	Yes 38	3.222		0.2948	0	None	sqrt(x)	0.002505	Param Inter 1 of 2
Calcium (mg/L)	ARGWC-23	13.99	n/a	8/8/2023	66.6	Yes 38	3.222		0.2948	0	None	sqrt(x)	0.002505	Param Inter 1 of 2
Chloride (mg/L)	ARGWC-21	16.2	n/a	8/9/2023	3.35	No 64	n/a		n/a	0	n/a	n/a	0.0004709	NP Inter (normality) 1 of 2
Chloride (mg/L)	ARGWC-22	16.2	n/a	8/8/2023	6.79	No 64	n/a		n/a	0	n/a	n/a	0.0004709	NP Inter (normality) 1 of 2
Chloride (mg/L)	ARGWC-23	16.2	n/a	8/8/2023	3.6	No 64	n/a		n/a	0	n/a	n/a	0.0004709	NP Inter (normality) 1 of 2
Fluoride (mg/L)	ARGWC-21	0.148	n/a	8/9/2023	0.203	Yes 42	n/a		n/a	45.24	n/a	n/a	0.001066	NP Inter (normality) 1 of 2
Fluoride (mg/L)	ARGWC-22	0.148	n/a	8/8/2023	0.1ND	No 42	n/a		n/a	45.24	n/a	n/a	0.001066	NP Inter (normality) 1 of 2
Fluoride (mg/L)	ARGWC-23	0.148	n/a	8/8/2023	0.283	Yes 42	n/a		n/a	45.24	n/a	n/a	0.001066	NP Inter (normality) 1 of 2
pH (SU)	ARGWC-21	6.085	5.388	8/9/2023	6.6	Yes 41	5.737		0.1994	0	None	No	0.001253	Param Inter 1 of 2
pH (SU)	ARGWC-22	6.085	5.388	8/8/2023	5.61	No 41	5.737		0.1994	0	None	No	0.001253	Param Inter 1 of 2
pH (SU)	ARGWC-23	6.085	5.388	8/8/2023	6.33	Yes 41	5.737		0.1994	0	None	No	0.001253	Param Inter 1 of 2
Sulfate (mg/L)	ARGWC-21	21	n/a	8/9/2023	214	Yes 63	n/a		n/a	0	n/a	n/a	0.0004845	NP Inter (normality) 1 of 2
Sulfate (mg/L)	ARGWC-22	21	n/a	8/8/2023	719	Yes 63	n/a		n/a	0	n/a	n/a	0.0004845	NP Inter (normality) 1 of 2
Sulfate (mg/L)	ARGWC-23	21	n/a	8/8/2023	69.8	Yes 63	n/a		n/a	0	n/a	n/a	0.0004845	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	ARGWC-21	143.5	n/a	8/9/2023	520	Yes 36	105.8		21.33	0	None	No	0.002505	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	ARGWC-22	143.5	n/a	8/8/2023	1220	Yes 36	105.8		21.33	0	None	No	0.002505	Param Inter 1 of 2
Total Dissolved Solids (mg/l)	ARGWC-23	143 5	n/a	8/8/2023	294	Yes 36	105.8		21 33	0	None	No	0.002505	Param Inter 1 of 2

Trend Tests - Prediction Limit Exceedances - Significant Results

	Plant Arkwright	Client: Southern Company	Data: Ar	kwright No 2	Print	ed 10/13	/2023, 1	1:49 AM			
Constituent	Well	Slope	Calc.	Critical	Sig.	<u>N</u>	%NDs	Normality	<u>Xform</u>	<u>Alpha</u>	Method
Boron (mg/L)	ARGWC-21	0.0716	137	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	ARGWC-21	5.478	135	74	Yes	19	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	ARGWC-23	0.1263	88	63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	ARGWA-19 (bg)	-0.2188	-217	-161	Yes	32	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	ARGWC-21	8.273	378	161	Yes	32	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	ARGWC-21	31.32	121	68	Yes	18	0	n/a	n/a	0.01	NP

Trend Tests - Prediction Limit Exceedances - All Results

	Plant Arkwright	Client: Southern Company	Data: Ar	kwright No 2	Print	ed 10/13	/2023, 1 ⁻	1:50 AM			
Constituent	Well	Slope	Calc.	Critical	Sig.	<u>N</u>	%NDs	Normality	Xform	<u>Alpha</u>	Method
Boron (mg/L)	ARGWA-19 (bg)	0	21	74	No	19	36.84	n/a	n/a	0.01	NP
Boron (mg/L)	ARGWA-20 (bg)	0.005321	65	74	No	19	21.05	n/a	n/a	0.01	NP
Boron (mg/L)	ARGWC-21	0.0716	137	74	Yes	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	ARGWC-22	0	8	63	No	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	ARGWC-23	0.01446	29	63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	ARGWA-19 (bg)	-0.4773	-48	-74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	ARGWA-20 (bg)	0.249	64	74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	ARGWC-21	5.478	135	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	ARGWC-22	0	7	63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	ARGWC-23	1.41	34	63	No	17	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	ARGWA-19 (bg)	0	14	87	No	21	38.1	n/a	n/a	0.01	NP
Fluoride (mg/L)	ARGWA-20 (bg)	0	-9	-87	No	21	52.38	n/a	n/a	0.01	NP
Fluoride (mg/L)	ARGWC-21	0.007085	33	87	No	21	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	ARGWC-23	0.1263	88	63	Yes	17	0	n/a	n/a	0.01	NP
pH (SU)	ARGWA-19 (bg)	0.002899	4	81	No	20	0	n/a	n/a	0.01	NP
pH (SU)	ARGWA-20 (bg)	0.002459	8	87	No	21	0	n/a	n/a	0.01	NP
pH (SU)	ARGWC-21	-0.03265	-66	-87	No	21	0	n/a	n/a	0.01	NP
pH (SU)	ARGWC-23	-0.01164	-9	-63	No	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	ARGWA-19 (bg)	-0.2188	-217	-161	Yes	32	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	ARGWA-20 (bg)	-0.01894	-47	-152	No	31	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	ARGWC-21	8.273	378	161	Yes	32	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	ARGWC-22	-0.5044	-7	-63	No	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	ARGWC-23	0.9535	14	63	No	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	ARGWA-19 (bg)	-5.194	-60	-68	No	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	ARGWA-20 (bg)	0	11	68	No	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	ARGWC-21	31.32	121	68	Yes	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	ARGWC-22	-17.34	-30	-58	No	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	ARGWC-23	0	-6	-58	No	16	0	n/a	n/a	0.01	NP

Upper Tolerance Limits

Plant Arkwright Client: Southern Company Data: Arkwright No 2 Printed 10/13/2023, 11:56 AM

Constituent	Upper Lim.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	<u>Alpha</u>	Method
Antimony (mg/L)	0.003	30	n/a	n/a	100	n/a	n/a	0.2146	NP Inter(NDs)
Arsenic (mg/L)	0.005	68	n/a	n/a	86.76	n/a	n/a	0.03056	NP Inter(NDs)
Barium (mg/L)	0.107	68	n/a	n/a	0	n/a	n/a	0.03056	NP Inter(normality)
Beryllium (mg/L)	0.0005	34	n/a	n/a	91.18	n/a	n/a	0.1748	NP Inter(NDs)
Cadmium (mg/L)	0.001	66	n/a	n/a	98.48	n/a	n/a	0.03387	NP Inter(NDs)
Chromium (mg/L)	0.01	38	n/a	n/a	23.68	n/a	n/a	0.1424	NP Inter(normality)
Cobalt (mg/L)	0.001	40	n/a	n/a	65	n/a	n/a	0.1285	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	2.33	38	n/a	n/a	0	n/a	n/a	0.1424	NP Inter(normality)
Fluoride (mg/L)	0.148	42	n/a	n/a	45.24	n/a	n/a	0.116	NP Inter(normality)
Lead (mg/L)	0.002	68	n/a	n/a	86.76	n/a	n/a	0.03056	NP Inter(NDs)
Lithium (mg/L)	0.013	40	n/a	n/a	42.5	n/a	n/a	0.1285	NP Inter(normality)
Mercury (mg/L)	0.0002	30	n/a	n/a	93.33	n/a	n/a	0.2146	NP Inter(NDs)
Molybdenum (mg/L)	0.001	36	n/a	n/a	86.11	n/a	n/a	0.1578	NP Inter(NDs)
Selenium (mg/L)	0.005	67	n/a	n/a	65.67	n/a	n/a	0.03217	NP Inter(NDs)
Silver (mg/L)	0.001	58	n/a	n/a	91.38	n/a	n/a	0.05105	NP Inter(NDs)
Thallium (mg/L)	0.002	30	n/a	n/a	96.67	n/a	n/a	0.2146	NP Inter(NDs)

PLANT	ARKWRIGH1	Γ AP #2 GWPS		
		CCR-Rule	Background	
Constituent Name	MCL	Specified	Limit	GWPS
Antimony, Total (mg/L)	0.006		0.003	0.006
Arsenic, Total (mg/L)	0.01		0.005	0.01
Barium, Total (mg/L)	2		0.11	2
Beryllium, Total (mg/L)	0.004		0.0005	0.004
Cadmium, Total (mg/L)	0.005		0.001	0.005
Chromium, Total (mg/L)	0.1		0.01	0.1
Cobalt, Total (mg/L)	n/a	0.006	0.001	0.006
Combined Radium, Total (pCi/L)	5		2.33	5
Fluoride, Total (mg/L)	4		0.15	4
Lead, Total (mg/L)	n/a	0.015	0.002	0.015
Lithium, Total (mg/L)	n/a	0.04	0.013	0.04
Mercury, Total (mg/L)	0.002		0.0002	0.002
Molybdenum, Total (mg/L)	n/a	0.1	0.001	0.1
Selenium, Total (mg/L)	0.05		0.005	0.05
Silver, Total (mg/L)	n/a		0.001	0.001
Thallium, Total (mg/L)	0.002		0.002	0.002

^{*}MCL = Maximum Contaminant Level

^{*}GWPS = Groundwater Protection Standard

^{*}CCR = Coal Combustion Residuals

Confidence Intervals Summary Table - Significant Results

Plant Arkwright Client: Southern Company Data: Arkwright No 2 Printed 10/13/2023, 12:06 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig. N	<u>Mean</u>	Std. Dev.	%NDs	ND Adj.	Transform	<u>Alpha</u>	Method
Cobalt (mg/L)	ARAMW-7	0.07871	0.03458	0.006	Yes 7	0.05713	0.02447	0	None	x^3	0.01	Param.
Lithium (mg/L)	ARAMW-7	0.0655	0.05767	0.04	Yes 7	0.06159	0.003298	0	None	No	0.01	Param.

Confidence Intervals Summary Table - All Results

Plant Arkwright Client: Southern Company Data: Arkwright No 2 Printed 10/13/2023, 12:06 PM

Constituent	Well	Upper Lim	n. Lower Lim.	Compliance	Sig.	<u>N</u>	<u>Mean</u>	Std. Dev.	%NDs	ND Adj.	Transform	<u>Alpha</u>	Method
Antimony (mg/L)	ARAMW-8	0.003	0.00134	0.006	No	5	0.002668	0.0007424	80	None	No	0.031	NP (NDs)
Arsenic (mg/L)	ARAMW-1	0.005	0.00233	0.01	No	8	0.004666	0.000944	87.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	ARAMW-2	0.0457	0.004386	0.01	No	8	0.02402	0.02717	0	None	x^(1/3)	0.01	Param.
Arsenic (mg/L)	ARAMW-7	0.005	0.00035	0.01	No	6	0.00316	0.002189	50	None	No	0.0155	NP (normality)
Arsenic (mg/L)	ARAMW-8	0.005	0.00031	0.01	No	6	0.002972	0.002305	50	None	No	0.0155	NP (normality)
Arsenic (mg/L)	ARGWC-21	0.005	0.00207	0.01	No	34	0.003494	0.001661	52.94	None	No	0.01	NP (NDs)
Arsenic (mg/L)	ARGWC-22	0.005	0.00066	0.01	No	16	0.003978	0.001869	75	None	No	0.01	NP (NDs)
Arsenic (mg/L)	ARGWC-23	0.005	0.00075	0.01	No	16	0.004154	0.00182	81.25	None	No	0.01	NP (NDs)
Barium (mg/L)	ARAMW-1	0.05308	0.04397	2	No	8	0.04853	0.004295	0	None	No	0.01	Param.
Barium (mg/L)	ARAMW-2	0.14	0.067	2	No	8	0.09181	0.02753	0	None	No	0.004	NP (normality)
Barium (mg/L)	ARAMW-7	0.03483	0.02184	2	No	6	0.02833	0.00473	0	None	No	0.01	Param.
Barium (mg/L)	ARAMW-8	0.1224	0.08756	2	No	6	0.105	0.0127	0	None	No	0.01	Param.
Barium (mg/L)	ARGWC-21	0.1	0.044	2	No		0.06834	0.03428	0	None	No	0.01	NP (normality)
Barium (mg/L)	ARGWC-22	0.04906	0.02955	2	No	16	0.04005	0.01602	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	ARGWC-23	0.1491	0.09733	2	No	16	0.1232	0.0398	0	None	No	0.01	Param.
Beryllium (mg/L)	ARAMW-7	0.0025	0.000236	0.004		6	0.001384	0.001223	50	None	No		NP (normality)
Beryllium (mg/L)	ARGWC-22	0.0025	0.00023	0.004		15		0.000125	66.67	None	No	0.01	NP (NDs)
Beryllium (mg/L)	ARGWC-23	0.0005	0.00033	0.004	No	15		0.00004389	93.33	None	No	0.01	NP (NDs)
Chromium (mg/L)	ARGWC-23	0.0003	0.00033	0.004	No	19	0.0004887	0.00004389	94.74	None	No	0.01	NP (NDs)
, - ,												0.01	, ,
Chromium (mg/L)	ARGWC-22	0.01 0.001	0.0048 0.00035	0.1		16 9	0.009675	0.0013	93.75 0	None	No	0.002	NP (NDs) NP (normality)
Cobalt (mg/L)	ARAMW-1			0.006						None	No No		, ,,
Cobalt (mg/L)	ARAMW-2	0.003072	0.002117	0.006	No		0.002594	0.0004943	0	None	No	0.01	Param.
Cobalt (mg/L)	ARAMW-7	0.07871	0.03458	0.006	Yes		0.05713	0.02447	0	None	x^3	0.01	Param.
Cobalt (mg/L)	ARAMW-8	0.005631	0.00256	0.006	No		0.004096	0.001293	0	None	No	0.01	Param.
Cobalt (mg/L)	ARGWC-21	0.0019	0.0007	0.006		20	0.001316	0.0005999	0	None	No	0.01	NP (normality)
Cobalt (mg/L)	ARGWC-22	0.008291	0.002588	0.006		17	0.006004	0.005185	0	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	ARGWC-23	0.002238	0.0008255	0.006	No		0.001652	0.001313	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	ARAMW-1	2.894	0.3446	5	No		1.551	1.405	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	ARAMW-2	4.208	2.169	5	No	8	3.189	0.962	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	ARAMW-7	5.264	4.116	5	No	6	4.69	0.418	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	ARAMW-8	2.764	0.007706	5	No	6	1.04	1.243	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	ARGWC-21	1.143	0.5604	5	No	19	0.9819	0.7745	0	None	ln(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	ARGWC-22	1.094	0.3362	5	No	16	0.7813	0.7044	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	ARGWC-23	0.706	0.1455	5	No	16	0.4897	0.5722	0	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	ARAMW-1	0.2271	0.1592	4	No	9	0.1931	0.03517	0	None	No	0.01	Param.
Fluoride (mg/L)	ARAMW-2	0.1357	0.07228	4	No	9	0.104	0.03286	11.11	None	No	0.01	Param.
Fluoride (mg/L)	ARAMW-7	0.11	0.032	4	No	7	0.07714	0.03245	42.86	None	No	0.008	NP (normality)
Fluoride (mg/L)	ARAMW-8	0.2658	0.1542	4	No	7	0.21	0.04695	0	None	No	0.01	Param.
Fluoride (mg/L)	ARGWC-21	0.1565	0.08641	4	No	21	0.137	0.1074	0	None	ln(x)	0.01	Param.
Fluoride (mg/L)	ARGWC-22	0.0979	0.04	4	No	17	0.07882	0.05991	17.65	None	No	0.01	NP (normality)
Fluoride (mg/L)	ARGWC-23	0.366	0.2099	4	No	17	0.2879	0.1246	0	None	No	0.01	Param.
Lead (mg/L)	ARAMW-7	0.002	0.00013	0.015	No	6	0.001688	0.0007634	83.33	None	No	0.0155	NP (NDs)
Lead (mg/L)	ARGWC-21	0.002	0.00026	0.015	No	34	0.001894	0.0004289	94.12	None	No	0.01	NP (NDs)
Lead (mg/L)	ARGWC-22	0.002	0.00022	0.015	No	16	0.001773	0.0006218	87.5	None	No	0.01	NP (NDs)
Lead (mg/L)	ARGWC-23	0.002	0.00026	0.015	No	16	0.001778	0.0006082	87.5	None	No	0.01	NP (NDs)
Lithium (mg/L)	ARAMW-1	0.009867	0.008372	0.04	No	10	0.009089	0.0009949	0	None	x^3	0.01	Param.
Lithium (mg/L)	ARAMW-2	0.036	0.019	0.04	No	10	0.02887	0.02073	0	None	No	0.011	NP (normality)
Lithium (mg/L)	ARAMW-7	0.0655	0.05767	0.04	Yes	7	0.06159	0.003298	0	None	No	0.01	Param.
Lithium (mg/L)	ARAMW-8	0.006719	0.005207	0.04	No	7	0.005986	0.0007869	0	None	x^4	0.01	Param.
Lithium (mg/L)	ARGWC-21	0.01215	0.009736	0.04	No	20	0.01095	0.002129	0	None	No	0.01	Param.
Lithium (mg/L)	ARGWC-22	0.02454	0.01523	0.04	No	17	0.01989	0.007428	0	None	No	0.01	Param.
Lithium (mg/L)	ARGWC-23	0.04604	0.02833	0.04	No	17	0.03719	0.01413	0	None	No	0.01	Param.
Mercury (mg/L)	ARGWC-21	0.0002	0.000073	0.002	No	15	0.0001915	0.00003279	93.33	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	ARAMW-1	0.00807	0.004699	0.1	No	9	0.006384	0.001745	0	None	No	0.01	Param.
Molybdenum (mg/L)	ARAMW-2	0.015	0.000491	0.1	No	9	0.008722	0.007449	55.56	None	No	0.002	NP (NDs)

Confidence Intervals Summary Table - All Results

Plant Arkwright Client: Southern Company Data: Arkwright No 2 Printed 10/13/2023, 12:06 PM

Constituent	Well	Upper Lim	. Lower Lim.	Compliance	Sig	<u>N</u>	<u>Mean</u>	Std. Dev.	%NDs	ND Adj.	Transform	<u>Alpha</u>	Method
Molybdenum (mg/L)	ARAMW-7	0.0012	0.000379	0.1	No	7	0.0009399	0.0002583	71.43	None	No	0.008	NP (NDs)
Molybdenum (mg/L)	ARAMW-8	0.2118	0.0568	0.1	No	7	0.1343	0.06523	0	None	No	0.01	Param.
Molybdenum (mg/L)	ARGWC-22	0.015	0.000514	0.1	No	16	0.008801	0.007268	56.25	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	ARGWC-23	0.06318	0.0438	0.1	No	16	0.05137	0.01838	0	None	x^2	0.01	Param.
Selenium (mg/L)	ARGWC-22	0.005	0.002	0.05	No	16	0.004812	0.00075	93.75	None	No	0.01	NP (NDs)
Silver (mg/L)	ARGWC-21	0.001	0.001	0.001	No	29	0.0009803	0.0001058	93.1	None	No	0.01	NP (NDs)
Thallium (mg/L)	ARGWC-22	0.002	0.00034	0.002	No	13	0.001518	0.0007608	69.23	None	No	0.01	NP (NDs)
Thallium (mg/L)	ARGWC-23	0.002	0.00028	0.002	No	13	0.0016	0.0007601	76.92	None	No	0.01	NP (NDs)

Trend Tests - Confidence Interval Exceedances - All Results (No Significant)

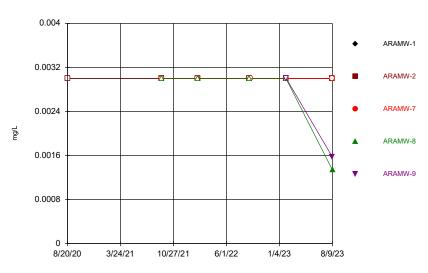
	Plant Arkwright	Client: Southern Company	Southern Company Data: Arkwright No 2		Printed 10/13/2023, 12:09 PM						
Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	<u>Xform</u>	<u>Alpha</u>	Method
Cobalt (mg/L)	ARAMW-7	0.005034	1	15	No	7	0	n/a	n/a	0.05	NP
Cobalt (mg/L)	ARGWA-19 (bg)	0	-3	-62	No	20	80	n/a	n/a	0.05	NP
Cobalt (mg/L)	ARGWA-20 (bg)	0	-42	-62	No	20	50	n/a	n/a	0.05	NP
Lithium (mg/L)	ARAMW-7	0	-1	-15	No	7	0	n/a	n/a	0.05	NP
Lithium (mg/L)	ARGWA-19 (bg)	-0.0002284	-56	-62	No	20	5	n/a	n/a	0.05	NP
Lithium (mg/L)	ARGWA-20 (bg)	0	-2	-62	No	20	80	n/a	n/a	0.05	NP

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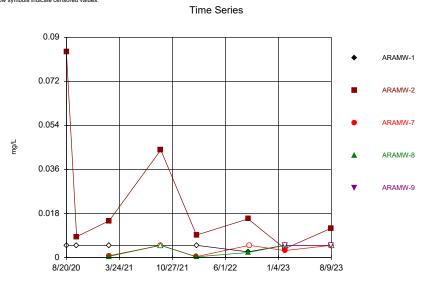
FIGURE A.





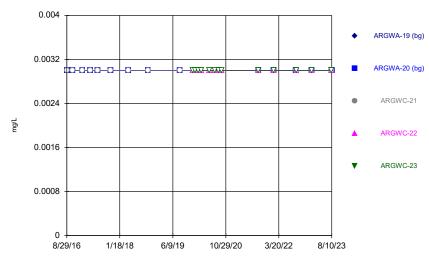
Constituent: Antimony Analysis Run 10/19/2023 8:39 AM View: Descriptive Plant Arkwright Client: Southern Company Data: Arkwright No 2

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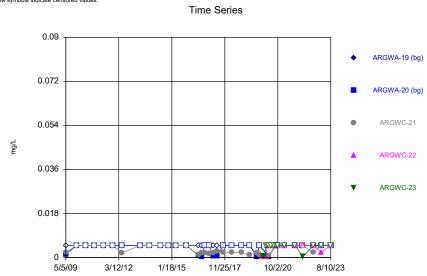


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Plant Arkwright Client: Southern Company Data: Arkwright No 2

Time Series

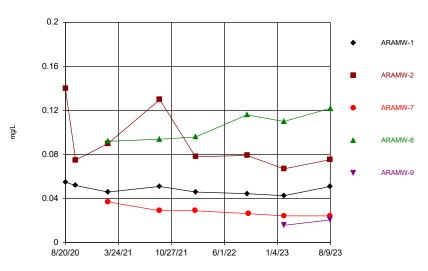


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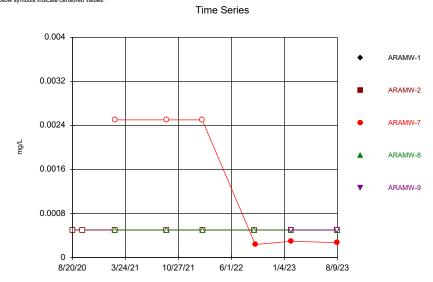
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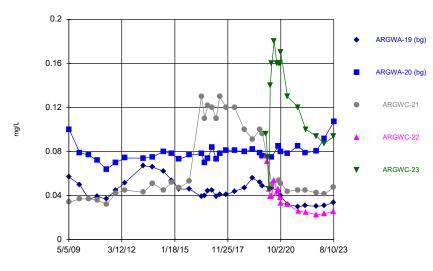
Constituent: Barium Analysis Run 10/19/2023 8:39 AM View: Descriptive Plant Arkwright Client: Southern Company Data: Arkwright No 2

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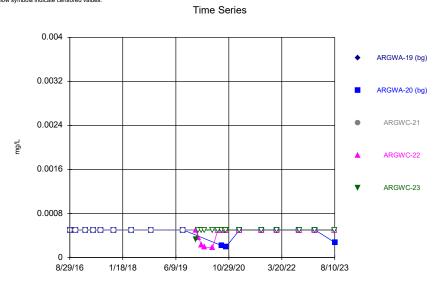


Constituent: Beryllium Analysis Run 10/19/2023 8:39 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Time Series

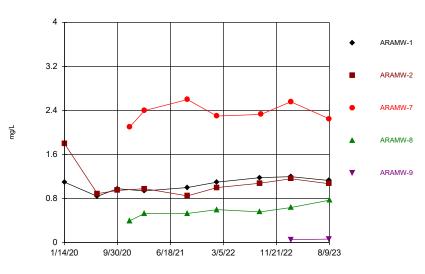


Constituent: Barium Analysis Run 10/19/2023 8:39 AM View: Descriptive Plant Arkwright Client: Southern Company Data: Arkwright No 2



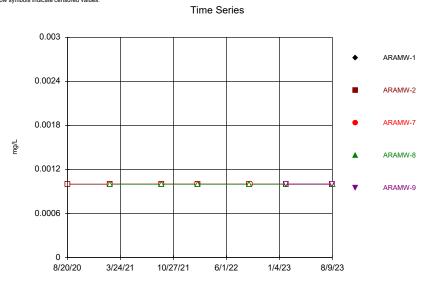
Constituent: Beryllium Analysis Run 10/19/2023 8:39 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2





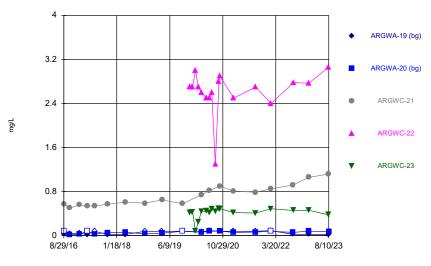
Constituent: Boron Analysis Run 10/19/2023 8:39 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

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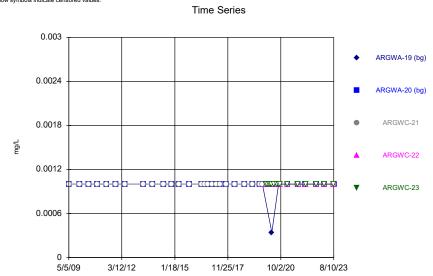


Constituent: Cadmium Analysis Run 10/19/2023 8:39 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

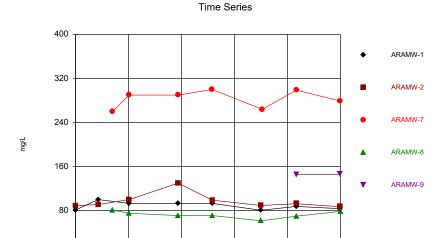
Time Series



Constituent: Boron Analysis Run 10/19/2023 8:39 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2



Constituent: Cadmium Analysis Run 10/19/2023 8:39 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2



Constituent: Calcium Analysis Run 10/19/2023 8:39 AM View: Descriptive Plant Arkwright Client: Southern Company Data: Arkwright No 2

5/9/22

12/23/22

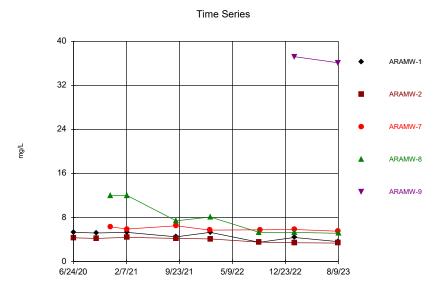
9/23/21

8/9/23

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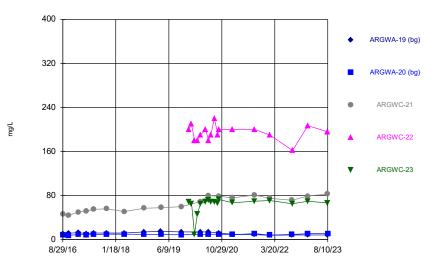
6/24/20

2/7/21



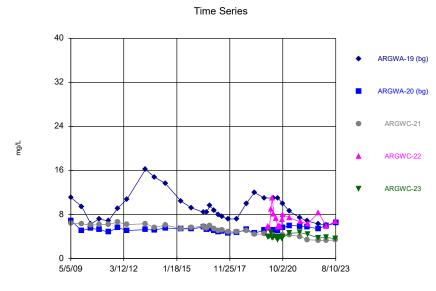
Constituent: Chloride Analysis Run 10/19/2023 8:39 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Time Series



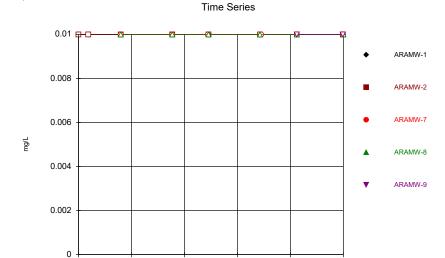
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Constituent: Chloride Analysis Run 10/19/2023 8:39 AM View: Descriptive Plant Arkwright Client: Southern Company Data: Arkwright No 2

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Constituent: Chromium Analysis Run 10/19/2023 8:39 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

6/1/22

10/27/21

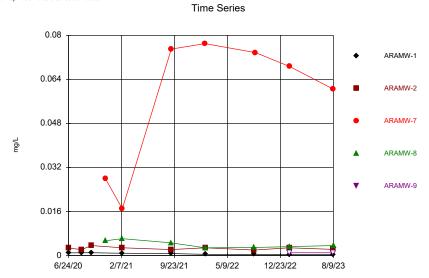
1/4/23

8/9/23

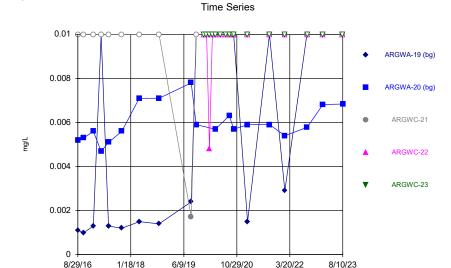


8/20/20

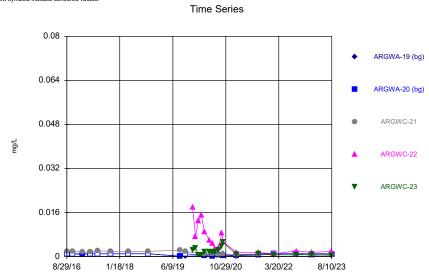
3/24/21



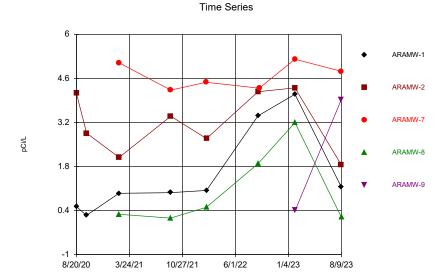
Constituent: Cobalt Analysis Run 10/19/2023 8:40 AM View: Descriptive Plant Arkwright Client: Southern Company Data: Arkwright No 2



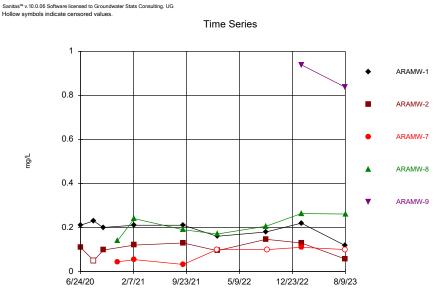
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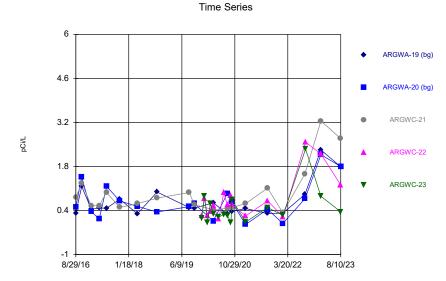
Constituent: Cobalt Analysis Run 10/19/2023 8:40 AM View: Descriptive Plant Arkwright Client: Southern Company Data: Arkwright No 2



Constituent: Combined Radium 226 + 228 Analysis Run 10/19/2023 8:40 AM View: Descriptive Plant Arkwright Client: Southern Company Data: Arkwright No 2

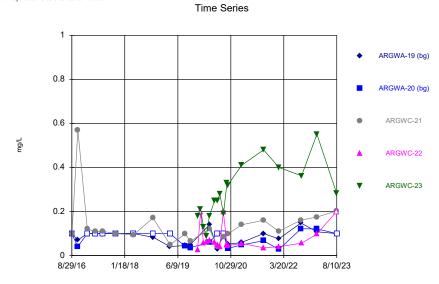


Constituent: Fluoride Analysis Run 10/19/2023 8:40 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2



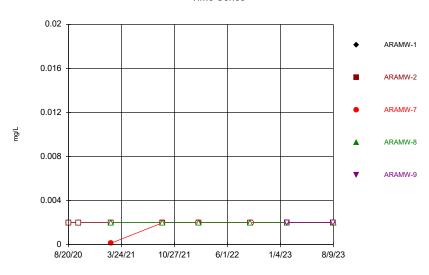
Constituent: Combined Radium 226 + 228 Analysis Run 10/19/2023 8:40 AM View: Descriptive
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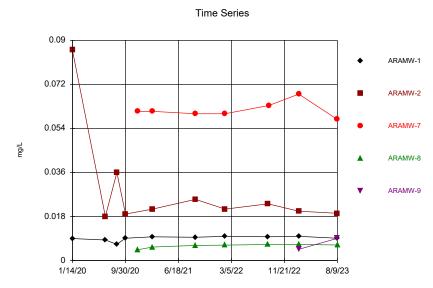
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Plant Arkwright Client: Southern Company Data: Arkwright No 2





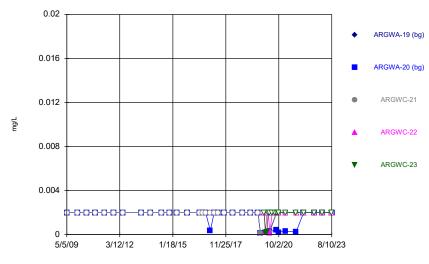
Constituent: Lead Analysis Run 10/19/2023 8:40 AM View: Descriptive Plant Arkwright Client: Southern Company Data: Arkwright No 2

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Constituent: Lithium Analysis Run 10/19/2023 8:40 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2





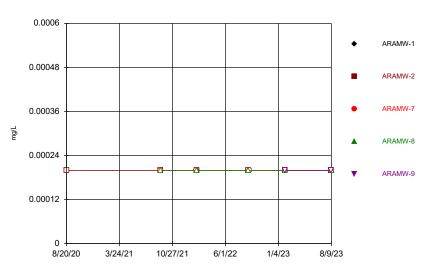
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Plant Arkwright Client: Southern Company Data: Arkwright No 2

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Time Series 0.09 ARGWA-19 (bg) 0.072 ARGWA-20 (bg) ARGWC-21 0.054 mg/L ARGWC-22 0.036 ARGWC-23 0.018 8/29/16 1/18/18 6/9/19 10/29/20 3/20/22 8/10/23

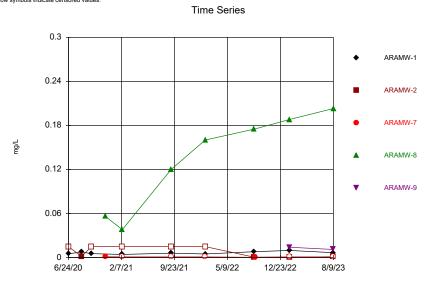
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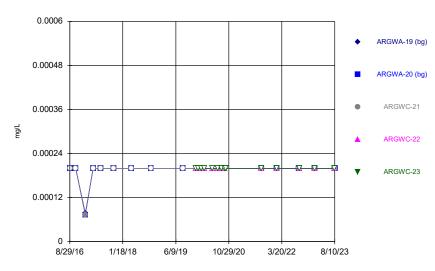
Constituent: Mercury Analysis Run 10/19/2023 8:40 AM View: Descriptive Plant Arkwright Client: Southern Company Data: Arkwright No 2

Sanitas[™] v.10.0.06 Software licensed to Groundwater Stats Consulting. UG Hollow symbols indicate censored values.

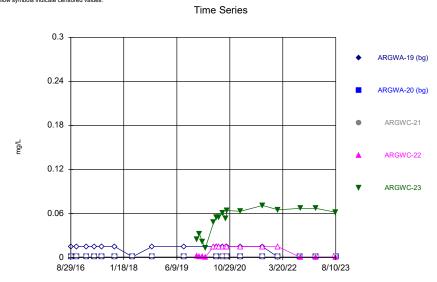


Constituent: Molybdenum Analysis Run 10/19/2023 8:40 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Time Series



Constituent: Mercury Analysis Run 10/19/2023 8:40 AM View: Descriptive Plant Arkwright Client: Southern Company Data: Arkwright No 2



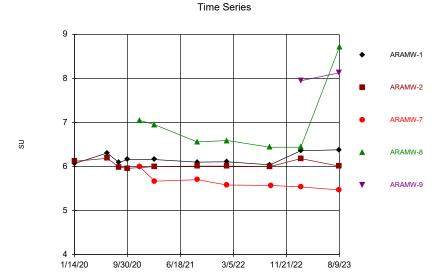
Constituent: Molybdenum Analysis Run 10/19/2023 8:40 AM View: Descriptive Plant Arkwright Client: Southern Company Data: Arkwright No 2

Sanitas™ v.10.0.06 Software licensed to Groundwater Stats Consulting. UG

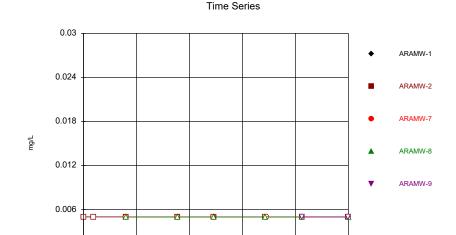
8/20/20

3/24/21

Hollow symbols indicate censored values.



Constituent: pH Analysis Run 10/19/2023 8:40 AM View: Descriptive Plant Arkwright Client: Southern Company Data: Arkwright No 2



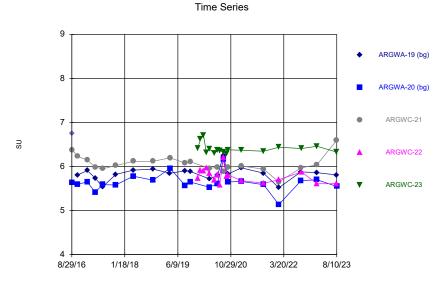
Constituent: Selenium Analysis Run 10/19/2023 8:40 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

6/1/22

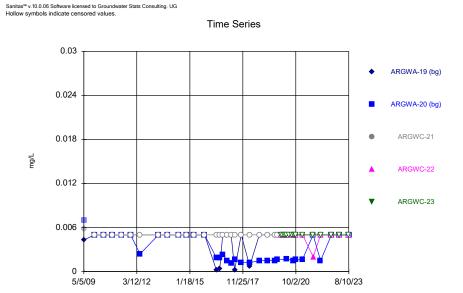
1/4/23

8/9/23

10/27/21

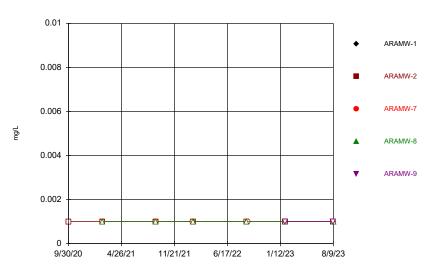


Constituent: pH Analysis Run 10/19/2023 8:40 AM View: Descriptive Plant Arkwright Client: Southern Company Data: Arkwright No 2



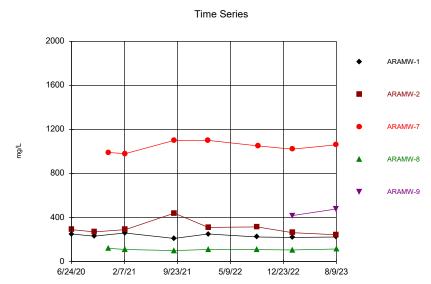
Constituent: Selenium Analysis Run 10/19/2023 8:40 AM View: Descriptive Plant Arkwright Client: Southern Company Data: Arkwright No 2





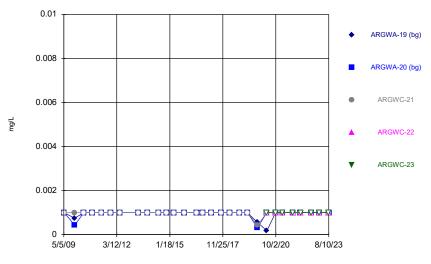
Constituent: Silver Analysis Run 10/19/2023 8:40 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

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Constituent: Sulfate Analysis Run 10/19/2023 8:40 AM View: Descriptive Plant Arkwright Client: Southern Company Data: Arkwright No 2





Constituent: Silver Analysis Run 10/19/2023 8:40 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

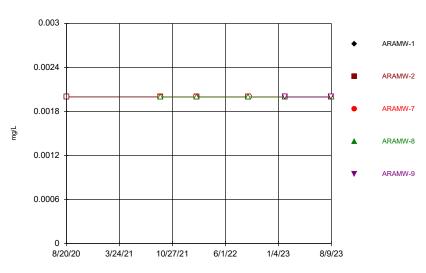
Sanitas™ v.10.0.06 Software licensed to Groundwater Stats Consulting. UG

Time Series 2000 ARGWA-19 (bg) 1600 ARGWA-20 (bg) ARGWC-21 1200 mg/L ARGWC-22 800 ARGWC-23 400 5/5/09 3/12/12 1/18/15 11/25/17 10/2/20 8/10/23

Constituent: Sulfate Analysis Run 10/19/2023 8:40 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Sanitas™ v.10.0.06 Software licensed to Groundwater Stats Consulting. UG Hollow symbols indicate censored values





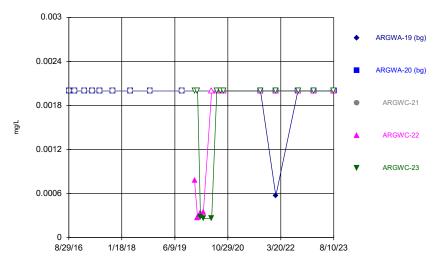
Constituent: Thallium Analysis Run 10/19/2023 8:40 AM View: Descriptive Plant Arkwright Client: Southern Company Data: Arkwright No 2

Sanitas™ v.10.0.06 Software licensed to Groundwater Stats Consulting. UG

Time Series 2000 ARAMW-1 1600 ARAMW-2 ARAMW-7 1200 mg/L ARAMW-8 800 ARAMW-9 400 9/30/20 4/26/21 11/21/21 6/17/22 1/12/23 8/9/23

Constituent: Total Dissolved Solids Analysis Run 10/19/2023 8:40 AM View: Descriptive Plant Arkwright Client: Southern Company Data: Arkwright No 2

Time Series



Constituent: Thallium Analysis Run 10/19/2023 8:40 AM View: Descriptive Plant Arkwright Client: Southern Company Data: Arkwright No 2

Sanitas™ v.10.0.06 Software licensed to Groundwater Stats Consulting. UG

Time Series 2000 ARGWA-19 (bg) 1600 ARGWA-20 (bg) ARGWC-21 1200 mg/L ARGWC-22 800 ARGWC-23 8/29/16 1/18/18 6/9/19 10/29/20 3/20/22 8/10/23

Constituent: Total Dissolved Solids Analysis Run 10/19/2023 8:40 AM View: Descriptive Plant Arkwright Client: Southern Company Data: Arkwright No 2

 $\label{lem:constituent: Antimony (mg/L)} Constituent: Antimony (mg/L) & Analysis Run 10/19/2023 8:41 AM & View: Descriptive \\ Plant Arkwright & Client: Southern Company & Data: Arkwright No 2 \\ \\$

	ARAMW-1	ARAMW-2	ARAMW-7	ARAMW-8	ARAMW-9
8/20/2020	<0.003	<0.003			
9/9/2021	<0.003			<0.003	
9/10/2021		<0.003	<0.003		
2/2/2022			<0.003		
2/3/2022	<0.003	<0.003		<0.003	
9/2/2022	<0.003	<0.003		<0.003	
9/7/2022			<0.003		
1/31/2023	<0.003	<0.003	<0.003	<0.003	
2/1/2023					<0.003
8/8/2023	<0.003	<0.003	<0.003		0.00158 (J)
8/9/2023				0.00134 (J)	

Constituent: Antimony (mg/L) Analysis Run 10/19/2023 8:41 AM View: Descriptive Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-19 (bg)	ARGWA-20 (bg)	ARGWC-21	ARGWC-22	ARGWC-23
8/29/2016	<0.003	<0.003			
8/30/2016			<0.003		
10/24/2016	<0.003	<0.003			
10/26/2016			<0.003		
1/25/2017	<0.003	< 0.003	<0.003		
4/10/2017	<0.003	<0.003	<0.003		
6/19/2017	<0.003		<0.003		
6/20/2017		<0.003			
10/24/2017	<0.003	<0.003	<0.003		
4/9/2018		< 0.003			
4/10/2018	<0.003		<0.003		
10/16/2018	<0.003	< 0.003	<0.003		
8/20/2019	<0.003	<0.003	<0.003		
12/16/2019				<0.003	<0.003
1/14/2020				<0.003	<0.003
2/11/2020				<0.003	<0.003
3/9/2020				<0.003	<0.003
5/27/2020				<0.003	<0.003
7/15/2020				<0.003	<0.003
8/19/2020	<0.003	<0.003		<0.003	
8/20/2020					<0.003
8/21/2020			<0.003		
9/22/2020				<0.003	<0.003
9/7/2021	<0.003				
9/8/2021		<0.003	<0.003		
9/9/2021					<0.003
9/10/2021				<0.003	
2/1/2022	<0.003	<0.003	<0.003		
2/2/2022				<0.003	
2/3/2022					<0.003
9/1/2022	<0.003		<0.003		
9/2/2022		<0.003			
9/6/2022				<0.003	<0.003
1/31/2023	<0.003		<0.003	<0.003	<0.003
2/1/2023		<0.003			
8/8/2023	<0.003			<0.003	<0.003
8/9/2023			<0.003		
8/10/2023		< 0.003			

Constituent: Arsenic (mg/L) Analysis Run 10/19/2023 8:41 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARAMW-1	ARAMW-2	ARAMW-7	ARAMW-8	ARAMW-9	
8/20/2020	<0.005	0.084				
9/30/2020	<0.005					
10/1/2020		0.0085				
2/10/2021	<0.005					
2/11/2021		0.015	0.00075 (J)	0.00046 (J)		
9/9/2021	<0.005			<0.005		
9/10/2021		0.044	<0.005			
2/2/2022			0.00035 (J)			
2/3/2022	<0.005	0.0092		0.00031 (J)		
9/2/2022	0.00233 (J)	0.0158		0.00206 (J)		
9/7/2022			<0.005			
1/31/2023	<0.005	0.00363 (J)	0.00286 (J)	<0.005		
2/1/2023					<0.005	
8/8/2023	<0.005	0.012	<0.005		<0.005	
8/9/2023				<0.005		

Constituent: Arsenic (mg/L) Analysis Run 10/19/2023 8:41 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

					,	
	ARGWA-19 (bg)	ARGWA-20 (bg)	ARGWC-21	ARGWC-22	ARGWC-23	
5/5/2009	<0.005					
5/14/2009			0.0022			
5/15/2009		0.0015				
12/5/2009	<0.005	<0.005	<0.005			
6/1/2010	<0.005	<0.005				
6/2/2010			<0.005			
11/11/2010	<0.005	<0.005	<0.005			
5/17/2011	<0.005	<0.005	<0.005			
11/8/2011	<0.005	<0.005	<0.005			
5/16/2012	<0.005	<0.005	0.002 (J)			
5/14/2013	<0.005	<0.005	<0.005			
11/5/2013	<0.005	<0.005	<0.005			
6/9/2014	<0.005	<0.005	<0.005			
11/18/2014		<0.005	<0.005			
11/19/2014						
4/14/2015	<0.005	<0.005	<0.005			
10/29/2015			<0.005			
11/4/2015	<0.005	<0.005				
6/22/2016	<0.005	0.00084 (J)				
6/23/2016	3.000	0.00007 (0)	0.0011 (J)			
8/29/2016	<0.005	0.00049 (J)	3.5511 (0)			
	~0.00 3	0.00043 (0)	0.002			
8/30/2016	<0.005	<0.00E	0.002			
10/24/2016		<0.005	0.0010 / 1			
10/26/2016		10.005	0.0019 (J)			
1/25/2017	<0.005	<0.005	0.0017			
4/10/2017	<0.005	0.00056 (J)	0.002			
6/19/2017	<0.005		0.0026			
6/20/2017		0.00068 (J)				
10/24/2017	<0.005	<0.005	0.0021			
4/9/2018		<0.005				
4/10/2018	<0.005		0.0022			
10/16/2018	<0.005	<0.005	0.0021			
3/26/2019	<0.005					
3/27/2019		<0.005	0.0011 (J)			
8/20/2019	0.00036 (J)	0.00047 (J)	0.002			
10/7/2019	<0.005	<0.005				
10/8/2019			0.0012 (J)			
12/16/2019			.,	0.00066 (J)	0.00075 (J)	
1/14/2020				0.00038 (J)	0.00042 (J)	
2/11/2020				0.0004 (J)	<0.005	
3/9/2020				<0.005	<0.005	
4/6/2020		0.00042 (J)		0.000	0.000	
4/7/2020	0.0006 (J)	0.00072 (0)	0.00054 (J)	<0.005	<0.005	
5/27/2020	0.0000 (3)		0.00034 (3)			
				<0.005	<0.005	
7/15/2020	<0.00F	<0.00E		<0.005	<0.005	
8/19/2020	<0.005	<0.005		<0.005	-0.005	
8/20/2020					<0.005	
8/21/2020			<0.005			
9/22/2020				<0.005	<0.005	
9/29/2020	<0.005					
9/30/2020		<0.005		<0.005		
10/1/2020			<0.005		<0.005	

Constituent: Arsenic (mg/L) Analysis Run 10/19/2023 8:41 AM View: Descriptive Plant Arkwright Client: Southern Company Data: Arkwright No 2

2/9/2021	ARGWA-19 (bg) <0.005	ARGWA-20 (bg) <0.005	ARGWC-21	ARGWC-22	ARGWC-23
2/10/2021	0.000	0.000	<0.005	<0.005	<0.005
9/7/2021	<0.005				
9/8/2021		<0.005	<0.005		
9/9/2021					<0.005
9/10/2021				<0.005	
2/1/2022	<0.005	<0.005	<0.005		
2/2/2022				<0.005	
2/3/2022					0.0003 (J)
9/1/2022	<0.005		0.00207 (J)		
9/2/2022		<0.005			
9/6/2022				<0.005	<0.005
1/31/2023	<0.005		<0.005	0.00221 (J)	<0.005
2/1/2023		<0.005			
8/8/2023	<0.005			<0.005	<0.005
8/9/2023			<0.005		
8/10/2023		<0.005			

Constituent: Barium (mg/L) Analysis Run 10/19/2023 8:41 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARAMW-1	ARAMW-2	ARAMW-7	ARAMW-8	ARAMW-9
8/20/2020	0.055	0.14			
9/30/2020	0.052				
10/1/2020		0.075			
2/10/2021	0.046				
2/11/2021		0.09	0.037	0.092	
9/9/2021	0.051			0.094	
9/10/2021		0.13	0.029		
2/2/2022			0.029		
2/3/2022	0.046	0.078		0.096	
9/2/2022	0.0445	0.0792		0.116	
9/7/2022			0.0263		
1/31/2023	0.0427	0.067	0.0243	0.11	
2/1/2023					0.0158
8/8/2023	0.051	0.0753	0.0244		0.0207
8/9/2023				0.122	
8/9/2023				0.122	

Constituent: Barium (mg/L) Analysis Run 10/19/2023 8:41 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

						_
	ARGWA-19 (bg)	ARGWA-20 (bg)	ARGWC-21	ARGWC-22	ARGWC-23	
5/5/2009	0.057					
5/14/200	9		0.034			
5/15/200	9	0.1				
12/5/200	9 0.05	0.079	0.037			
6/1/2010	0.037	0.077				
6/2/2010)		0.037			
11/11/20	0.039	0.072	0.036			
5/17/201	1 0.037	0.064	0.032			
11/8/201	1 0.045	0.07	0.042			
5/16/201	2 0.0518	0.0741	0.0451			
5/14/201	3 0.067	0.074	0.043			
11/5/201	3 0.066	0.075	0.051			
6/9/2014		0.08	0.045			
11/18/20		0.078	0.052			
11/19/20						
4/14/201		0.073	0.047			
10/29/20		0.0.0	0.047			
11/4/201		0.077	0.000			
6/22/201		0.078	0.13			
6/23/201		0.07	0.13			
8/29/201		0.07	0.11			
8/30/201		0.0700	0.11			
10/24/20		0.0738	0.400			
10/26/20			0.122			
1/25/201		0.084	0.12			
4/10/201		0.073	0.11			
6/19/201			0.13			
6/20/201		0.078				
10/24/20	0.041	0.081	0.12			
4/9/2018	1	0.081				
4/10/201	8 0.044		0.12			
10/16/20	0.047	0.08	0.1			
3/26/201	9 0.056					
3/27/201	9	0.082	0.091			
8/20/201	9 0.052	0.079	0.1			
10/7/201		0.076				
10/8/201			0.096			
12/16/20				0.076	0.096	
1/14/202				0.071	0.075	
2/11/202				0.046	0.046	
3/9/2020				0.039	0.14	
4/6/2020		0.075		0.000	0.17	
		5.075	0.05	0.04	0.16	
4/7/2020			บ.บอ	0.04	0.16	
5/27/202				0.054	0.18	
7/15/202		0.005		0.043	0.16	
8/19/202		0.085		0.046		
8/20/202					0.16	
8/21/202			0.054			
9/22/202				0.038	0.16	
9/29/202						
9/30/202	20	0.08		0.033		
10/1/202	20		0.051		0.17	

Constituent: Barium (mg/L) Analysis Run 10/19/2023 8:41 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

2/9/2021 0.032 0.078 2/10/2021 0.03 0.044 0.032 0.13 9/8/2021 0.03 0.045 0.026 9/9/2021 0.031 0.079 0.045 2/1/2022 0.031 0.079 0.045 2/2/2022 0.031 0.079 0.045 9/1/2022 0.0303 0.0425 0.1 9/2/2022 0.0806 0.0226 0.0939 1/31/2023 0.031 0.0414 0.0237 0.0872 2/1/2023 0.0337 0.0919 0.0255 0.0936 8/9/2023 0.0337 0.0474 0.0255 0.0936 8/10/2023 0.107 0.0474 0.0474 0.0474		ARGWA-19 (bg)	ARGWA-20 (bg)	ARGWC-21	ARGWC-22	ARGWC-23
9/7/2021 0.03 9/8/2021 0.085 0.045 9/9/2021 0.12 9/10/2021 0.031 0.079 0.045 2/1/2022 0.031 0.079 0.045 2/3/2022 0.0303 0.0425 0.1 9/1/2022 0.0303 0.0425 0.026 9/6/2022 0.0806 0.0237 0.0872 1/31/2023 0.031 0.0414 0.0237 0.0872 2/1/2023 0.0337 0.0474 0.0255 0.0936 8/9/2023 0.0337 0.0474 0.0255 0.0936	2/9/2021	0.032	0.078			
9/8/2021 0.085 0.045 9/9/2021 0.026 0.026 2/1/2022 0.031 0.079 0.045 2/2/2022 0.0303 0.0425 9/1/2022 0.0303 0.0425 9/2/2022 0.0303 0.0806 9/6/2022 0.031 0.0414 0.0237 0.0872 1/31/2023 0.0337 0.0919 0.0255 0.0936 8/9/2023 0.0337 0.0474 0.0255 0.0936	2/10/2021			0.044	0.032	0.13
9/9/2021 0.12 9/10/2021 0.031 0.079 0.045 2/2/2022 0.031 0.079 0.025 2/3/2022 0.0303 0.0425 0.1 9/2/2022 0.0303 0.0806 0.0226 0.0939 1/31/2023 0.031 0.0414 0.0237 0.0872 2/1/2023 0.0337 0.0919 0.0255 0.0936 8/9/2023 0.0337 0.0474 0.0474	9/7/2021	0.03				
9/10/2021 0.031 0.079 0.045 2/2/2022 0.031 0.079 0.025 2/3/2022 0.0303 0.0425 0.1 9/1/2022 0.0806 0.0226 0.0939 1/31/2023 0.031 0.0414 0.0237 0.0872 2/1/2023 0.0337 0.0919 0.0255 0.0936 8/9/2023 0.0337 0.0474 0.0474	9/8/2021		0.085	0.045		
2/1/2022 0.031 0.079 0.045 2/2/2022 0.025 0.025 2/3/2022 0.0303 0.0425 9/2/2022 0.0806 0.0226 0.0939 1/31/2023 0.031 0.0414 0.0237 0.0872 2/1/2023 0.0337 0.0919 0.0255 0.0936 8/9/2023 0.0337 0.0474 0.0474	9/9/2021					0.12
2/2/2022 0.0303 0.0425 9/1/2022 0.0303 0.0425 9/2/2022 0.0806 0.0226 0.0939 1/31/2023 0.031 0.0414 0.0237 0.0872 2/1/2023 0.0337 0.0919 0.0255 0.0936 8/9/2023 0.0337 0.0474 0.0255 0.0936	9/10/2021				0.026	
2/3/2022 0.0303 0.0425 9/2/2022 0.0806 9/6/2022 0.031 0.0226 0.0939 1/31/2023 0.031 0.0414 0.0237 0.0872 2/1/2023 0.0337 0.0919 8/8/2023 0.0337 0.0474 0.0255 0.0936	2/1/2022	0.031	0.079	0.045		
9/1/2022 0.0303 0.0425 9/2/2022 0.0806 0.0226 0.0939 1/31/2023 0.031 0.0414 0.0237 0.0872 2/1/2023 0.0337 0.0919 8/8/2023 0.0337 0.0474 0.0255 0.0936	2/2/2022				0.025	
9/2/2022 0.0806 9/6/2022 0.0226 0.0939 1/31/2023 0.031 0.0414 0.0237 0.0872 2/1/2023 0.0919 8/8/2023 0.0337 0.0255 0.0936 8/9/2023 0.0474	2/3/2022					0.1
9/6/2022 0.0226 0.0939 1/31/2023 0.031 0.0414 0.0237 0.0872 2/1/2023 0.0919 8/8/2023 0.0337 0.0255 0.0936 8/9/2023 0.0474	9/1/2022	0.0303		0.0425		
1/31/2023 0.031 0.0414 0.0237 0.0872 2/1/2023 0.0919 8/8/2023 0.0337 0.0255 0.0936 8/9/2023 0.0474	9/2/2022		0.0806			
2/1/2023 0.0919 8/8/2023 0.0337 0.0255 0.0936 8/9/2023 0.0474	9/6/2022				0.0226	0.0939
8/8/2023 0.0337 0.0255 0.0936 8/9/2023 0.0474	1/31/2023	0.031		0.0414	0.0237	0.0872
8/9/2023 0.0474	2/1/2023		0.0919			
	8/8/2023	0.0337			0.0255	0.0936
8/10/2023 0.107	8/9/2023			0.0474		
	8/10/2023		0.107			

Constituent: Beryllium (mg/L) Analysis Run 10/19/2023 8:41 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARAMW-1	ARAMW-2	ARAMW-7	ARAMW-8	ARAMW-9
8/20/2020	<0.0005	<0.0005			
9/30/2020	<0.0005				
10/1/2020		<0.0005			
2/10/2021	<0.0005				
2/11/2021		<0.0005	<0.0025	<0.0005	
9/9/2021	<0.0005			<0.0005	
9/10/2021		<0.0005	<0.0025		
2/2/2022			<0.0025		
2/3/2022	<0.0005	<0.0005		<0.0005	
9/2/2022	<0.0005	<0.0005		<0.0005	
9/7/2022			0.000236 (J)		
1/31/2023	<0.0005	<0.0005	0.000296 (J)	<0.0005	
2/1/2023					<0.0005
8/8/2023	<0.0005	<0.0005	0.000272 (J)		<0.0005
8/9/2023				<0.0005	

Constituent: Beryllium (mg/L) Analysis Run 10/19/2023 8:41 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

				•	
	ARGWA-19 (bg)	ARGWA-20 (bg)	ARGWC-21	ARGWC-22	ARGWC-23
8/29/2016	<0.0005	<0.0005			
8/30/2016			<0.0005		
10/24/2016	<0.0005	<0.0005			
10/26/2016			<0.0005		
1/25/2017	<0.0005	<0.0005	<0.0005		
4/10/2017	<0.0005	<0.0005	<0.0005		
6/19/2017	<0.0005		<0.0005		
6/20/2017		<0.0005			
10/24/2017	<0.0005	<0.0005	<0.0005		
4/9/2018		<0.0005			
4/10/2018	<0.0005		<0.0005		
10/16/2018	<0.0005	<0.0005	<0.0005		
8/20/2019	<0.0005	<0.0005	<0.0005		
12/16/2019				0.0005 (J)	0.00033 (J)
1/14/2020				0.00036 (J)	<0.0005
2/11/2020				0.00023	<0.0005
3/9/2020				0.00019	<0.0005
5/27/2020				0.00018 (J)	<0.0005
7/15/2020				<0.0005	<0.0005
8/19/2020	<0.0005	0.00022 (J)		<0.0005	
8/20/2020					<0.0005
8/21/2020			<0.0005		
9/22/2020				<0.0005	<0.0005
9/29/2020	<0.0005				
9/30/2020		0.00019 (J)		<0.0005	
10/1/2020			<0.0005		<0.0005
2/9/2021	<0.0005	<0.0005			
2/10/2021			<0.0005	<0.0005	<0.0005
9/7/2021	<0.0005				
9/8/2021		<0.0005	<0.0005		
9/9/2021					<0.0005
9/10/2021				<0.0005	
2/1/2022	<0.0005	<0.0005	<0.0005		
2/2/2022				<0.0005	
2/3/2022					<0.0005
9/1/2022	<0.0005		<0.0005		
9/2/2022		<0.0005			
9/6/2022				<0.0005	<0.0005
1/31/2023	<0.0005		<0.0005	<0.0005	<0.0005
2/1/2023		<0.0005			
8/8/2023	<0.0005			<0.0005	<0.0005
8/9/2023			<0.0005		
8/10/2023		0.000275 (J)			

Constituent: Boron (mg/L) Analysis Run 10/19/2023 8:41 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARAMW-1	ARAMW-2	ARAMW-7	ARAMW-8	ARAMW-9
1/14/2020	1.1	1.8			
6/24/2020	0.84	0.89			
9/30/2020	0.98				
10/1/2020		0.95			
11/30/2020			2.1		
12/1/2020				0.4	
2/10/2021	0.94				
2/11/2021		0.98	2.4	0.53	
9/9/2021	1			0.53	
9/10/2021		0.85	2.6		
2/2/2022			2.3		
2/3/2022	1.1	1		0.6	
9/2/2022	1.18	1.08		0.558	
9/7/2022			2.33		
1/31/2023	1.2	1.16	2.56	0.637	
2/1/2023					0.055
8/8/2023	1.13	1.07	2.25		0.0666
8/9/2023				0.77	

Constituent: Boron (mg/L) Analysis Run 10/19/2023 8:41 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

					. ,	
	ARGWA-19 (bg)	ARGWA-20 (bg)	ARGWC-21	ARGWC-22	ARGWC-23	
8/29/2016	0.024 (J)	<0.08				
8/30/2016	• •		0.57			
10/24/2016	0.0339 (J)	0.0194 (J)				
10/26/2016	. ,	.,	0.502			
1/25/2017	0.048 (J)	0.026 (J)	0.56			
4/10/2017	0.022 (J)	<0.08	0.54			
6/19/2017	<0.08		0.54			
6/20/2017		0.032 (J)	-			
10/24/2017	0.021 (J)	0.054	0.57			
4/9/2018	02. (0)	0.06	2.07			
4/10/2018	0.022 (J)	2.00	0.61			
10/16/2018	<0.08	0.036 (J)	0.59			
3/26/2019	<0.08	0.030 (0)	0.03			
	~0.00	0.046 (!)	0.65			
3/27/2019	10.00	0.046 (J)	0.65			
10/7/2019	<0.08	<0.08				
10/8/2019			0.58			
12/16/2019				2.7	0.42	
1/14/2020				2.7	0.43	
2/11/2020				3	0.079 (J)	
3/9/2020				2.7	0.25	
4/6/2020		0.063 (J)				
4/7/2020	0.072 (J)		0.74	2.6	0.44	
5/27/2020				2.5	0.45	
6/24/2020				2.5		
6/25/2020	0.091	0.081	0.82		0.42	
7/15/2020				2.6	0.49	
8/19/2020				1.3		
8/20/2020					0.44	
9/22/2020				2.8	0.5	
9/29/2020	<0.08					
9/30/2020		0.083		2.9		
10/1/2020			0.9	-	0.49	
2/9/2021	<0.08	0.059 (J)	2.0		2	
2/10/2021	-0.00	0.000 (0)	0.81	2.5	0.42	
	<0.08		0.01	2.0	U.42	
9/7/2021	<0.08	0.064 ())	0.70			
9/8/2021		0.064 (J)	0.79		0.44	
9/9/2021				0.7	0.41	
9/10/2021				2.7		
2/1/2022	0.092	<0.08	0.85			
2/2/2022				2.4		
2/3/2022					0.49	
9/1/2022	0.0238		0.921			
9/2/2022		0.0597				
9/6/2022				2.78	0.458	
1/31/2023	0.0234		1.06	2.77	0.459	
2/1/2023		0.0816				
8/8/2023	0.0199			3.06	0.379	
8/9/2023			1.12			
8/10/2023		0.0714				

Constituent: Cadmium (mg/L) Analysis Run 10/19/2023 8:41 AM View: Descriptive Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARAMW-1	ARAMW-2	ARAMW-7	ARAMW-8	ARAMW-9
8/20/2020	<0.001	<0.001			
2/10/2021	<0.001				
2/11/2021		<0.001	<0.001	<0.001	
9/9/2021	<0.001			<0.001	
9/10/2021		<0.001	<0.001		
2/2/2022			<0.001		
2/3/2022	<0.001	<0.001		<0.001	
9/2/2022	<0.001	<0.001		<0.001	
9/7/2022			<0.001		
1/31/2023	<0.001	<0.001	<0.001	<0.001	
2/1/2023					<0.001
8/8/2023	<0.001	<0.001	<0.001		<0.001
8/9/2023				<0.001	

Constituent: Cadmium (mg/L) Analysis Run 10/19/2023 8:41 AM View: Descriptive Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-19 (bg)	ARGWA-20 (bg)	ARGWC-21	ARGWC-22	ARGWC-23	
5/5/2009	<0.001					
5/14/2009			<0.001			
5/15/2009		<0.001				
12/5/2009	<0.001	<0.001	<0.001			
6/1/2010	<0.001	<0.001				
6/2/2010			<0.001			
11/11/2010	<0.001	<0.001	<0.001			
5/17/2011	<0.001	<0.001	<0.001			
11/8/2011	<0.001	<0.001	<0.001			
5/16/2012	<0.001	<0.001	<0.001			
5/14/2013	<0.001	<0.001	<0.001			
11/5/2013	<0.001	<0.001	<0.001			
6/9/2014	<0.001	<0.001	<0.001			
11/18/2014		<0.001	<0.001			
11/19/2014	<0.001					
4/14/2015	<0.001	<0.001	<0.001			
10/29/2015			<0.001			
11/4/2015	<0.001	<0.001				
6/22/2016	<0.001	<0.001				
6/23/2016			<0.001			
8/29/2016	<0.001	<0.001				
8/30/2016			<0.001			
10/24/2016	<0.001	<0.001				
10/26/2016	0.001	0.001	<0.001			
1/25/2017	<0.001	<0.001	<0.001			
4/10/2017	<0.001	<0.001	<0.001			
6/19/2017	<0.001	-U.UU I	<0.001			
6/20/2017	-0.001	<0.001	-0.001			
10/24/2017	<0.001	<0.001	<0.001			
4/9/2018	-0.00 i	<0.001	-U.UU1			
4/9/2018	<0.001	~U.UU1	<0.001			
		<0.001				
10/16/2018	<0.001	<0.001	<0.001			
3/26/2019	<0.001	<0.001	<0.001			
3/27/2019	<0.001	<0.001	<0.001			
8/20/2019	<0.001	<0.001	<0.001			
10/7/2019	<0.001	<0.001	-0.004			
10/8/2019			<0.001	-0.004	-0.001	
12/16/2019				<0.001	<0.001	
1/14/2020				<0.001	<0.001	
2/11/2020				<0.001	<0.001	
3/9/2020				<0.001	<0.001	
4/6/2020		<0.001				
4/7/2020	0.00034 (J)		<0.001	<0.001	<0.001	
5/27/2020				<0.001	<0.001	
7/15/2020				<0.001	<0.001	
8/19/2020	<0.001	<0.001		<0.001		
8/20/2020					<0.001	
8/21/2020			<0.001			
9/22/2020				<0.001	<0.001	
2/9/2021	<0.001	<0.001				
2/10/2021			<0.001	<0.001	<0.001	
9/7/2021	<0.001					

Constituent: Cadmium (mg/L) Analysis Run 10/19/2023 8:41 AM View: Descriptive Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-19 (bg)	ARGWA-20 (bg)	ARGWC-21	ARGWC-22	ARGWC-23
9/8/2021		<0.001	<0.001		
9/9/2021					<0.001
9/10/2021				<0.001	
2/1/2022	<0.001	<0.001	<0.001		
2/2/2022				<0.001	
2/3/2022					<0.001
9/1/2022	<0.001		<0.001		
9/2/2022		<0.001			
9/6/2022				<0.001	<0.001
1/31/2023	<0.001		<0.001	<0.001	<0.001
2/1/2023		<0.001			
8/8/2023	<0.001			<0.001	<0.001
8/9/2023			<0.001		
8/10/2023		<0.001			

Constituent: Calcium (mg/L) Analysis Run 10/19/2023 8:41 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

		ARAMW-1	ARAMW-2	ARAMW-7	ARAMW-8	ARAMW-9
6/24/2	020	81	89			
9/30/2	020	100				
10/1/2	020		91			
11/30/	2020			260		
12/1/2	020				81	
2/10/2	021	93				
2/11/2	021		100	290	75	
9/9/20	21	93			71	
9/10/2	021		130	290		
2/2/20	22			300		
2/3/20	22	93	99		71	
9/2/20	22	80.5	89.2		61.4	
9/7/20	22			264		
1/31/2	023	87.7	92.5	299	69.8	
2/1/20	23					145
8/8/20	23	83.4	87.1	279		146
8/9/20	23				78.6	

Constituent: Calcium (mg/L) Analysis Run 10/19/2023 8:41 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

·	ARGWA-19 (bg)	ARGWA-20 (bg)	ARGWC-21	ARGWC-22	ARGWC-23
8/29/2016	11	8.3			
8/30/2016			46		
10/24/2016	11.5	7.66			
10/26/2016			44.3		
1/25/2017	13	9.4	50		
4/10/2017	11	8.6	52		
6/19/2017	12		55		
6/20/2017		9.4			
10/24/2017	12	9.9	56		
4/9/2018		9.9			
4/10/2018	12		51		
10/16/2018	14	9.8	57		
3/26/2019	15				
3/27/2019		9.2	58		
10/7/2019	14	8.9			
10/8/2019		-	60		
12/16/2019			- -	200	69
1/14/2020				210	65
2/11/2020				180	10
3/9/2020				180	46
4/6/2020		9.5		.00	
4/7/2020	14	0.0	69	190	65
5/27/2020	1-7		00	200	69
6/24/2020				180	
6/25/2020	14	9.6	80	100	72
7/15/2020	14	3.0	00	190	68
8/19/2020				220	00
8/20/2020				220	69
9/22/2020				190	66
9/29/2020	12			190	00
9/30/2020	12	9.9		200	
		9.9	70	200	70
10/1/2020 2/9/2021	0.7	0.2	79		73
2/9/2021	9.7	9.2	76	200	67
	0.2		76	200	67
9/7/2021	9.2	11	01		
9/8/2021		11	81		70
9/9/2021				200	70
9/10/2021	Q	9.3	75	200	
2/1/2022	8	8.3	/0	100	
2/2/2022				190	74
2/3/2022	9.52		71 5		71
9/1/2022	8.52	0.49	71.5		
9/2/2022		9.48		100	05.0
9/6/2022	0.5		70.4	162	65.2
1/31/2023	8.5	10.0	79.1	207	69.9
2/1/2023	0.54	10.8		100	202
8/8/2023	8.51			196	66.6
8/9/2023			82.9		
8/10/2023		11			

Constituent: Chloride (mg/L) Analysis Run 10/19/2023 8:41 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARAMW-1	ARAMW-2	ARAMW-7	ARAMW-8	ARAMW-9
6/24/2020	5.3	4.3			
9/30/2020	5.2				
10/1/2020		4.2			
11/30/2020			6.3		
12/1/2020				12	
2/10/2021	5.3				
2/11/2021		4.4	5.9	12	
9/9/2021	4.5			7.4	
9/10/2021		4.2	6.5		
2/2/2022			5.7		
2/3/2022	5.3	4.1		8.1	
9/2/2022	3.5	3.54		5.31	
9/7/2022			5.78		
1/31/2023	4.36	3.4	5.82	5.3	
2/1/2023					37.2
8/8/2023	3.61	3.35	5.5		36.1
8/9/2023				5.13	

Constituent: Chloride (mg/L) Analysis Run 10/19/2023 8:41 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-19 (bg)	ARGWA-20 (bg)	ARGWC-21	ARGWC-22	ARGWC-23	
5/5/2009	11.1					
5/14/2009			6.38			
5/15/2009		6.86				
12/5/2009	9.46	5.06	6.28			
6/1/2010	6.32	5.47				
6/2/2010			6.1			
11/11/2010	7.16	5.26	6.1461			
5/17/2011	6.84	4.8	6.17			
11/8/2011	9.13	5.62	6.6			
5/16/2012	10.8	5.1	6.18			
5/14/2013	16.2	5.25	6.32			
11/5/2013	14.8	5.19	5.65			
6/9/2014	13.6	5.55	6.08			
4/14/2015	10.4	5.39	5.43			
10/29/2015			5.62			
11/4/2015	9.19	5.38				
6/22/2016	8.4	5.7				
6/23/2016	5. .	2.,	5.9			
8/29/2016	8.4	5.3	5.0			
8/30/2016	U. T	J.J	5.5			
10/24/2016	9.6	5.4	5.5			
10/24/2016	9.0	J. 4	6			
	9 7	E 1	6			
1/25/2017	8.7	5.1	5.4			
4/10/2017	8	4.9	5.1			
6/19/2017	7.6	-	5.2			
6/20/2017	7.0	5	4.0			
10/24/2017	7.2	4.6	4.9			
4/9/2018		4.7				
4/10/2018	7.2		4.8			
10/16/2018	10	5.3	5.1			
3/26/2019	12					
3/27/2019		4.6	4.4			
10/7/2019	11	5.2				
10/8/2019			4.5			
12/16/2019				5.8	3.9	
1/14/2020				5.5	4	
2/11/2020				9	4.7	
3/9/2020				11	3.7	
4/6/2020		5.2				
4/7/2020	11		4.2	8.1	3.8	
5/27/2020				7.3	4	
6/24/2020				5.7		
6/25/2020	11	5.1	3.7		3.4	
7/15/2020				6	3.9	
8/19/2020				5.7		
8/20/2020				-	3.9	
9/22/2020				7.1	3.6	
9/29/2020	10			***	0.0	
9/30/2020	10	5.6		8		
		5.0	43	U	3.8	
10/1/2020	9.6	6	4.3		3.8	
2/9/2021	8.6	6	43	7.4	4.6	
2/10/2021			4.3	7.4	4.6	

Constituent: Chloride (mg/L) Analysis Run 10/19/2023 8:41 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-19 (bg)	ARGWA-20 (bg)	ARGWC-21	ARGWC-22	ARGWC-23
9/7/2021	7.4				
9/8/2021		5.9	4		
9/9/2021					4.7
9/10/2021				6.7	
2/1/2022	6.8	5.7	3.4		
2/2/2022				6.3	
2/3/2022					4.4
9/1/2022	6.27		3.34		
9/2/2022		5.44			
9/6/2022				8.34	3.73
1/31/2023	6.04		3.3	5.88	3.84
2/1/2023		6			
8/8/2023	6.37			6.79	3.6
8/9/2023			3.35		
8/10/2023		6.5			

Constituent: Chromium (mg/L) Analysis Run 10/19/2023 8:41 AM View: Descriptive Plant Arkwright Client: Southern Company Data: Arkwright No 2

		ARAMW-1	ARAMW-2	ARAMW-7	ARAMW-8	ARAMW-9
8/20/	/2020	<0.01	<0.01			
9/30/	/2020	<0.01				
10/1	/2020		<0.01			
2/10	/2021	<0.01				
2/11	/2021		<0.01	<0.01	<0.01	
9/9/2	2021	<0.01			<0.01	
9/10/	/2021		<0.01	<0.01		
2/2/2	2022			<0.01		
2/3/2	2022	<0.01	<0.01		<0.01	
9/2/2	2022	<0.01	<0.01		<0.01	
9/7/2	2022			<0.01		
1/31	/2023	<0.01	<0.01	<0.01	<0.01	
2/1/2	2023					<0.01
8/8/2	2023	<0.01	<0.01	<0.01		<0.01
8/9/2	2023				<0.01	

Constituent: Chromium (mg/L) Analysis Run 10/19/2023 8:41 AM View: Descriptive Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-19 (bg)	ARGWA-20 (bg)	ARGWC-21	ARGWC-22	ARGWC-23
8/29/2016	0.0011 (J)	0.0052			
8/30/2016			<0.01		
10/24/2016	0.001 (J)	0.0053 (J)			
10/26/2016			<0.01		
1/25/2017	0.0013 (J)	0.0056	<0.01		
4/10/2017	<0.01	0.0047	<0.01		
6/19/2017	0.0013 (J)		<0.01		
6/20/2017		0.0051			
10/24/2017	0.0012 (J)	0.0056	<0.01		
4/9/2018		0.0071			
4/10/2018	0.0015 (J)		<0.01		
10/16/2018	0.0014 (J)	0.0071	<0.01		
8/20/2019	0.0024	0.0078	0.0017 (J)		
10/7/2019	<0.01	0.0059			
10/8/2019			<0.01		
12/16/2019				<0.01	<0.01
1/14/2020				<0.01	<0.01
2/11/2020				0.0048	<0.01
3/9/2020				<0.01	<0.01
4/6/2020		0.0057			
4/7/2020	<0.01		<0.01	<0.01	<0.01
5/27/2020				<0.01	<0.01
7/15/2020				<0.01	<0.01
8/19/2020	<0.01	0.0063		<0.01	
8/20/2020					<0.01
8/21/2020			<0.01		
9/22/2020				<0.01	<0.01
9/29/2020	<0.01				
9/30/2020		0.0057		<0.01	
10/1/2020			<0.01		<0.01
2/9/2021	0.0015 (J)	0.0059			
2/10/2021			<0.01	<0.01	<0.01
9/7/2021	<0.01				
9/8/2021		0.0059	<0.01		
9/9/2021					<0.01
9/10/2021				<0.01	
2/1/2022	0.0029	0.0054	<0.01		
2/2/2022				<0.01	
2/3/2022					<0.01
9/1/2022	<0.01		<0.01		
9/2/2022		0.00578 (J)			
9/6/2022				<0.01	<0.01
1/31/2023	<0.01		<0.01	<0.01	<0.01
2/1/2023		0.00682 (J)			
8/8/2023	<0.01			<0.01	<0.01
8/9/2023			<0.01		
8/10/2023		0.00684 (J)			

Constituent: Cobalt (mg/L) Analysis Run 10/19/2023 8:41 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARAMW-1	ARAMW-2	ARAMW-7	ARAMW-8	ARAMW-9
6/24/2020	0.00097 (J)	0.0027			
8/20/2020	0.001 (J)	0.0022 (J)			
9/30/2020	0.001 (J)				
10/1/2020		0.0036			
11/30/2020			0.028		
12/1/2020				0.0054	
2/10/2021	0.00082 (J)				
2/11/2021		0.0028	0.017	0.0061	
9/9/2021	0.00072 (J)			0.0046	
9/10/2021		0.0022 (J)	0.075		
2/2/2022			0.077		
2/3/2022	0.00045 (J)	0.0028		0.0028	
9/2/2022	0.000449 (J)	0.002		0.00292	
9/7/2022			0.0737		
1/31/2023	0.000399 (J)	0.00282	0.0687	0.00321	
2/1/2023					<0.001
8/8/2023	0.00035 (J)	0.00223	0.0605		<0.001
8/9/2023				0.00364	

Constituent: Cobalt (mg/L) Analysis Run 10/19/2023 8:41 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

·	ARGWA-19 (bg)	ARGWA-20 (bg)	ARGWC-21	ARGWC-22	ARGWC-23
8/29/2016	6 <0.001	<0.001			
8/30/2016			0.0018 (J)		
10/24/201		<0.001			
10/26/201			0.0018 (J)		
1/25/2017		0.00076 (J)	0.0017 (J)		
4/10/2017		<0.001	0.0017 (U)		
6/19/2017		-0.001	0.0010 (J) 0.0021 (J)		
		<0.001	J.UUZ 1 (J)		
6/20/2017		<0.001	0.0010 / 1		
10/24/201		<0.001	0.0019 (J)		
4/9/2018		<0.001	0.0040.75		
4/10/2018			0.0019 (J)		
10/16/201		<0.001	0.0019 (J)		
8/20/2019		0.00015 (J)	0.0023		
10/7/2019	9 0.00011 (J)	<0.001			
10/8/2019	9		0.0018		
12/16/201	19			0.018	0.0023
1/14/2020)			0.0072	0.0031
2/11/2020)			0.013	0.00056
3/9/2020				0.015	0.00061 (J)
4/6/2020		0.00039 (J)			
4/7/2020	0.00038 (J)	•	0.00087	0.009	0.0016
5/27/2020				0.0059	0.0017 (J)
6/24/2020				0.0047	(-)
6/25/2020		0.00015 (J)	0.00097 (J)	0.00.7	0.0014 (J)
7/15/2020		3.000.0(0)	3.00007 (0)	0.0027	0.0017 (J)
		0.0006471		0.0027	0.0017 (0)
8/19/2020		0.00064 (J)		0.0032	0.0022 (1)
8/20/2020			0.00000 (1)		0.0023 (J)
8/21/2020			0.00066 (J)		
9/22/2020				0.0085	0.0036
9/29/2020					
9/30/2020)	0.00031 (J)		0.0055	
10/1/2020)		0.00082 (J)		0.0052
2/9/2021	0.00016 (J)	0.00038 (J)			
2/10/2021	1		0.00063 (J)	0.0015 (J)	0.00072 (J)
9/7/2021	<0.001				
9/8/2021		0.0005 (J)	0.0007 (J)		
9/9/2021		. ,			0.0009 (J)
9/10/2021	1			0.0015 (J)	
2/1/2022		<0.001	0.0007 (J)	(-)	
2/2/2022			3.000. (0)	0.001 (J)	
				0.001 (3)	0.00063 (J)
2/3/2022			0.00060 (1)		0.00003 (J)
9/1/2022		10.004	0.00069 (J)		
9/2/2022		<0.001			
9/6/2022				0.00198	0.000588 (J)
1/31/2023			0.000659 (J)	0.00154	0.000742 (J)
2/1/2023		0.000458 (J)			
8/8/2023	<0.001			0.00184	0.00044 (J)
8/9/2023			0.000813 (J)		
8/10/2023	3	0.000814 (J)			

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/19/2023 8:41 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARAMW-1	ARAMW-2	ARAMW-7	ARAMW-8	ARAMW-9
8/20/2020	0.527	4.13			
9/30/2020	0.249 (U)				
10/1/2020		2.86			
2/10/2021	0.949				
2/11/2021		2.09	5.1	0.285 (U)	
9/9/2021	0.972			0.16 (U)	
9/10/2021		3.4	4.23		
2/2/2022			4.48		
2/3/2022	1.04	2.69		0.51	
9/2/2022	3.41	4.18		1.89	
9/7/2022			4.29		
1/31/2023	4.1	4.3	5.21	3.2	
2/1/2023					0.413 (U)
8/8/2023	1.16 (U)	1.86	4.83		3.92
8/9/2023				0.193 (U)	

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/19/2023 8:41 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

				-	
	ARGWA-19 (bg)	ARGWA-20 (bg)	ARGWC-21	ARGWC-22	ARGWC-23
8/29/2016	0.324 (U)	0.508 (U)			
8/30/2016			0.832		
10/24/2016	1.17 (U)	1.46			
10/26/2016			1.27		
1/25/2017	0.443 (U)	0.377 (U)	0.549		
4/10/2017	0.483	0.132 (U)	0.556		
6/19/2017	0.478		0.976		
6/20/2017		1.17			
10/24/2017	0.764	0.704	0.504		
4/9/2018		0.539			
4/10/2018	0.3 (U)		0.621		
10/16/2018	0.991	0.354 (U)	0.796		
8/20/2019	0.498	0.53	0.978		
10/7/2019	0.476 (U)	0.621 (U)			
10/8/2019			0.588		
12/16/2019				0.229 (U)	0.166 (U)
1/14/2020				0.783	0.869
2/11/2020				0.229 (U)	0.0291 (U)
3/9/2020				0.365	0.626
4/6/2020		0.072 (U)			
4/7/2020	0.651		0.433 (U)	0.567	0.296 (U)
5/27/2020				0.143 (U)	0.192 (U)
7/15/2020				0.97	0.279 (U)
8/19/2020	0.294 (U)	0.94		0.587 (U)	
8/20/2020					0.242 (U)
8/21/2020			0.472		
9/22/2020				0.884	0.0177 (U)
9/29/2020	0.372 (U)				
9/30/2020		0.679		0.602	
10/1/2020			0.496 (U)		0.749
2/9/2021	0.466 (U)	-0.0396 (U)			
2/10/2021			0.625	0.233 (U)	0.0408 (U)
9/7/2021	0.31 (U)				
9/8/2021		0.44 (U)	1.12		
9/9/2021					0.498
9/10/2021				0.713	
2/1/2022	0.319 (U)	-0.00713 (U)	0.331 (U)		
2/2/2022				0.195 (U)	
2/3/2022					0.248 (U)
9/1/2022	0.913		1.57		
9/2/2022		0.783			
9/6/2022				2.58	2.36
1/31/2023	2.33		3.25	2.2	0.859 (U)
2/1/2023		2.18			
8/8/2023	1.8			1.22 (U)	0.363 (U)
8/9/2023			2.69		
8/10/2023		1.8			

Constituent: Fluoride (mg/L) Analysis Run 10/19/2023 8:41 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARAMW-1	ARAMW-2	ARAMW-7	ARAMW-8	ARAMW-9
6/24/2020	0.21	0.11			
8/20/2020	0.23	<0.1			
9/30/2020	0.2				
10/1/2020		0.098 (J)			
11/30/2020			0.044 (J)		
12/1/2020				0.14	
2/10/2021	0.21				
2/11/2021		0.12	0.054 (J)	0.24	
9/9/2021	0.21			0.19	
9/10/2021		0.13	0.032 (J)		
2/2/2022			<0.1		
2/3/2022	0.16	0.095 (J)		0.17	
9/2/2022	0.18	0.146		0.206	
9/7/2022			<0.1		
1/31/2023	0.22 (J)	0.13 (J)	0.11 (J)	0.263 (J)	
2/1/2023					0.938
8/8/2023	0.118	0.0571 (J)	<0.1		0.837
8/9/2023				0.261	

Constituent: Fluoride (mg/L) Analysis Run 10/19/2023 8:41 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-19 (bg)	ARGWA-20 (bg)	ARGWC-21	ARGWC-22	ARGWC-23
8/29/2016	<0.1	<0.1			
8/30/2016			0.099 (J)		
10/24/2016	0.07 (J)	0.04 (J)			
10/26/2016			0.57		
1/25/2017	<0.1	<0.1	0.12 (J)		
4/10/2017	<0.1	<0.1	0.11 (J)		
6/19/2017	<0.1		0.11 (J)		
6/20/2017		<0.1	•		
10/24/2017	<0.1	<0.1	0.1 (J)		
4/9/2018		<0.1	` '		
4/10/2018	<0.1		0.094 (J)		
10/16/2018	0.083 (J)	<0.1	0.17 (J)		
3/26/2019	0.041 (J)	=	(0)		
3/27/2019	0.041 (0)	<0.1	0.05 (J)		
8/20/2019	0.045 (J)	0.042 (J)			
			0.098 (J)		
10/7/2019	0.049 (J)	0.036 (J)	0.065 / 1)		
10/8/2019			0.065 (J)	0.036 (1)	0.1971
12/16/2019				0.026 (J)	0.18 (J)
1/14/2020				<0.2	0.21
2/11/2020				0.056	0.13
3/9/2020				0.064 (J)	0.089 (J)
4/6/2020		0.059 (J)			
4/7/2020	0.14		0.12	0.068 (J)	0.18
5/27/2020				0.06 (J)	0.25
6/24/2020				0.048 (J)	
6/25/2020	0.03 (J)	<0.1	0.041 (J)		0.25
7/15/2020				0.04 (J)	0.28
8/19/2020	<0.1	<0.1		<0.2	
8/20/2020					0.19
8/21/2020			0.084 (J)		
9/22/2020				0.049 (J)	0.33
9/29/2020	0.051 (J)			. ,	
9/30/2020	(-)	0.032 (J)		0.045 (J)	
10/1/2020		»· (3)	0.098 (J)	(0)	0.32
2/9/2021	0.059 (J)	0.048 (J)	0.000 (0)		0.02
2/10/2021	0.000 (0)	5.0-10 (0)	0.14	0.055 (J)	0.41
9/7/2021	0.1		J. 14	0.055 (3)	0.41
	0.1	0.067 (1)	0.16		
9/8/2021		0.067 (J)	0.16		0.49
9/9/2021				0.005 ())	0.48
9/10/2021				0.035 (J)	
2/1/2022	0.076 (J)	0.028 (J)	0.11		
2/2/2022				0.04 (J)	
2/3/2022					0.4
9/1/2022	0.148		0.161		
9/2/2022		0.122			
9/6/2022				0.056 (J)	0.362
1/31/2023	0.108 (J)		0.175 (J)	0.0979 (J)	0.551 (J)
2/1/2023		0.121			
8/8/2023	<0.1			<0.2	0.283
8/9/2023			0.203		
8/10/2023		<0.1			

Constituent: Lead (mg/L) Analysis Run 10/19/2023 8:41 AM View: Descriptive Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARAMW-1	ARAMW-2	ARAMW-7	ARAMW-8	ARAMW-9
8/20/2020	<0.002	<0.002			
9/30/2020	<0.002				
10/1/2020		<0.002			
2/10/2021	<0.002				
2/11/2021		<0.002	0.00013 (J)	<0.002	
9/9/2021	<0.002			<0.002	
9/10/2021		<0.002	<0.002		
2/2/2022			<0.002		
2/3/2022	<0.002	<0.002		<0.002	
9/2/2022	<0.002	<0.002		<0.002	
9/7/2022			<0.002		
1/31/2023	<0.002	<0.002	<0.002	<0.002	
2/1/2023					<0.002
8/8/2023	<0.002	<0.002	<0.002		<0.002
8/9/2023				<0.002	

Constituent: Lead (mg/L) Analysis Run 10/19/2023 8:41 AM View: Descriptive Plant Arkwright Client: Southern Company Data: Arkwright No 2

			Fidill	Arkwright Chefit. C	odulem Company	Data. Arkwright No 2		
	ARGWA-19 (bg)	ARGWA-20 (bg)	ARGWC-21	ARGWC-22	ARGWC-23			
5/5/2009	<0.002							
5/14/2009			<0.002					
5/15/2009		<0.002						
12/5/2009	<0.002	<0.002	<0.002					
6/1/2010	<0.002	<0.002						
6/2/2010			<0.002					
11/11/2010	<0.002	<0.002	<0.002					
5/17/2011	<0.002	<0.002	<0.002					
11/8/2011	<0.002	<0.002	<0.002					
5/16/2012	<0.002	<0.002	<0.002					
5/14/2013	<0.002	<0.002	<0.002					
11/5/2013	<0.002	<0.002	<0.002					
6/9/2014	<0.002	<0.002	<0.002					
11/18/2014		<0.002	<0.002					
11/19/2014	<0.002							
4/14/2015	<0.002	<0.002	<0.002					
10/29/2015			<0.002					
11/4/2015	<0.002	<0.002						
6/22/2016	<0.002	<0.002						
6/23/2016	5.552	0.002	<0.002					
8/29/2016	<0.002	<0.002	0.002					
8/30/2016	10.002	-0.002	<0.002					
10/24/2016	<0.002	<0.002	10.002					
10/24/2016	10.002	10.002	<0.002					
1/25/2017	<0.002	0.00037 (J)	<0.002					
4/10/2017	<0.002	<0.002	<0.002					
6/19/2017	<0.002	~0.002	<0.002					
6/20/2017	~0.002	<0.002	~0.002					
10/24/2017	<0.002	<0.002	<0.002					
4/9/2018	\0.002	<0.002	<0.002					
4/10/2018	<0.002	<0.002	<0.002					
		-0.002						
10/16/2018	<0.002	<0.002	<0.002					
3/26/2019	<0.002	.0.000						
3/27/2019	<0.002	<0.002	<0.002					
8/20/2019	<0.002	<0.002	<0.002					
10/7/2019	0.00018 (J)	0.00014 (J)	0.00015 ())					
10/8/2019			0.00015 (J)	<0.002	<0.000			
12/16/2019					<0.002			
1/14/2020				0.00022 (J)	0.00018 (J)			
2/11/2020				<0.002	0.00026 (J)			
3/9/2020		0.00000 (1)		<0.002	<0.002			
4/6/2020	0.0000= ("	0.00033 (J)	0.00000 ()	0.0004.4.11	0.000			
4/7/2020	0.00037 (J)		0.00026 (J)	0.00014 (J)	<0.002			
5/27/2020				<0.002	<0.002			
7/15/2020	.0.000	0.00000 ("		<0.002	<0.002			
8/19/2020	<0.002	0.00039 (J)		<0.002				
8/20/2020					<0.002			
8/21/2020			<0.002					
9/22/2020				<0.002	<0.002			
9/29/2020	<0.002							
9/30/2020		0.00022 (J)		<0.002				
10/1/2020			<0.002		<0.002			

Constituent: Lead (mg/L) Analysis Run 10/19/2023 8:41 AM View: Descriptive Plant Arkwright Client: Southern Company Data: Arkwright No 2

2/9/2021	ARGWA-19 (bg) <0.002	ARGWA-20 (bg) 0.00033 (J)	ARGWC-21	ARGWC-22	ARGWC-23
2/10/2021		(-,	<0.002	<0.002	<0.002
9/7/2021	<0.002				
9/8/2021		0.00024 (J)	<0.002		
9/9/2021					<0.002
9/10/2021				<0.002	
2/1/2022	<0.002	<0.002	<0.002		
2/2/2022				<0.002	
2/3/2022					<0.002
9/1/2022	<0.002		<0.002		
9/2/2022		<0.002			
9/6/2022				<0.002	<0.002
1/31/2023	<0.002		<0.002	<0.002	<0.002
2/1/2023		<0.002			
8/8/2023	<0.002			<0.002	<0.002
8/9/2023			<0.002		
8/10/2023		<0.002			

Constituent: Lithium (mg/L) Analysis Run 10/19/2023 8:41 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARAMW-1	ARAMW-2	ARAMW-7	ARAMW-8	ARAMW-9
1/14/2020	0.009	0.086			
6/24/2020	0.0084	0.018			
8/20/2020	0.0066	0.036			
9/30/2020	0.0091				
10/1/2020		0.019			
11/30/2020			0.061		
12/1/2020				0.0044 (J)	
2/10/2021	0.0097				
2/11/2021		0.021	0.061	0.0055	
9/9/2021	0.0095			0.0062	
9/10/2021		0.025	0.06		
2/2/2022			0.06		
2/3/2022	0.0099	0.021		0.0063	
9/2/2022	0.0097 (J)	0.0232		0.00654 (J)	
9/7/2022			0.0634		
1/31/2023	0.0099 (J)	0.0202	0.068	0.00659 (J)	
2/1/2023					0.00463 (J)
8/8/2023	0.00909 (J)	0.0193	0.0577		0.00907 (J)
8/9/2023				0.00637 (J)	

Constituent: Lithium (mg/L) Analysis Run 10/19/2023 8:41 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

				I Idili Air	wright Cheft. Ood	and Company Data. Arwington 2
		ARGWA-19 (bg)	ARGWA-20 (bg)	ARGWC-21	ARGWC-22	ARGWC-23
8	/29/2016	0.0048 (J)	<0.01			
8	/30/2016			0.0092		
1	0/24/2016	<0.05	<0.01			
1	0/26/2016			0.0071 (J)		
1	/25/2017	0.0052	<0.01	0.0087		
	/10/2017	0.0034 (J)	<0.01	0.0074		
	/19/2017	0.0036 (J)		0.0079		
	/20/2017		<0.01			
	0/24/2017	0.0051	<0.01	0.0097		
	/9/2018		0.0021 (J)			
4	/10/2018	0.0057		0.012		
	0/16/2018	0.0048 (J)	0.0018 (J)	0.01		
	/20/2019	0.0044 (J)	<0.01	0.0098		
	0/7/2019	0.013	0.0066			
	0/8/2019			0.015		
	2/16/2019				0.027	0.02
	/14/2020				0.034	0.022
	/11/2020				0.01	0.0078
	/9/2020				0.0071	0.013
	/6/2020		<0.01			
	/7/2020	0.0053		0.011	0.012	0.032
	/27/2020				0.017	0.037
	/24/2020				0.023	
	/25/2020	0.0053	<0.01	0.013		0.043
	/15/2020				0.021	0.042
	/19/2020	0.0038 (J)	<0.01		0.026	
	/20/2020	(-,				0.036
	/21/2020			0.013		
	/22/2020				0.014	0.039
	/29/2020	0.0041 (J)				
	/30/2020	. ,	<0.01		0.014	
	0/1/2020			0.012		0.04
	/9/2021	0.0038 (J)	<0.01			
	/10/2021	. ,		0.012	0.022	0.044
	/7/2021	0.0034 (J)				
9	/8/2021		<0.01	0.012		
	/9/2021					0.045
	/10/2021				0.021	
	/1/2022	0.0039 (J)	0.0015 (J)	0.012		
2	/2/2022				0.02	
2	/3/2022					0.052
9	/1/2022	0.00359 (J)		0.0116		
9	/2/2022		<0.01			
9	/6/2022				0.0136	0.0578
	/31/2023	0.00424 (J)		0.0124	0.0284	0.0499
2	/1/2023		<0.01			
	/8/2023	0.00382 (J)			0.028	0.0517
	/9/2023			0.0131		
8	/10/2023		<0.01			

Constituent: Mercury (mg/L) Analysis Run 10/19/2023 8:41 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARAMW-1	ARAMW-2	ARAMW-7	ARAMW-8	ARAMW-9
8/20/2020	<0.0002	<0.0002			
9/9/2021	<0.0002			<0.0002	
9/10/2021		<0.0002	<0.0002		
2/2/2022			<0.0002		
2/3/2022	<0.0002	<0.0002		<0.0002	
9/2/2022	<0.0002	<0.0002		<0.0002	
9/7/2022			<0.0002		
1/31/2023	<0.0002	<0.0002	<0.0002	<0.0002	
2/1/2023					<0.0002
8/8/2023	<0.0002	<0.0002	<0.0002		<0.0002
8/9/2023				<0.0002	

Constituent: Mercury (mg/L) Analysis Run 10/19/2023 8:41 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-19 (bg)	ARGWA-20 (bg)	ARGWC-21	ARGWC-22	ARGWC-23
8/29/2016	<0.0002	<0.0002			
8/30/2016			<0.0002		
10/24/2016	<0.0002	<0.0002			
10/26/2016			<0.0002		
1/25/2017	7.7E-05 (J)	7.2E-05 (J)	7.3E-05 (J)		
4/10/2017	<0.0002	<0.0002	<0.0002		
6/19/2017	<0.0002		<0.0002		
6/20/2017		<0.0002			
10/24/2017	<0.0002	<0.0002	<0.0002		
4/9/2018		<0.0002			
4/10/2018	<0.0002		<0.0002		
10/16/2018	<0.0002	<0.0002	<0.0002		
8/20/2019	<0.0002	<0.0002	<0.0002		
12/16/2019				<0.0002	<0.0002
1/14/2020				<0.0002	<0.0002
2/11/2020				<0.0002	<0.0002
3/9/2020				<0.0002	<0.0002
5/27/2020				<0.0002	<0.0002
7/15/2020				<0.0002	<0.0002
8/19/2020	<0.0002	<0.0002		<0.0002	
8/20/2020					<0.0002
8/21/2020			<0.0002		
9/22/2020				<0.0002	<0.0002
10/1/2020					<0.0002
9/7/2021	<0.0002				
9/8/2021		<0.0002	<0.0002		
9/9/2021					<0.0002
9/10/2021				<0.0002	
2/1/2022	<0.0002	<0.0002	<0.0002	0.0002	
2/2/2022	0.0002	0.0002	0.0002	<0.0002	
2/3/2022				-0.0002	<0.0002
9/1/2022	<0.0002		<0.0002		-0.0002
9/2/2022	-0.0002	<0.0002	-0.0002		
9/6/2022		-0.0002		<0.0002	<0.0002
1/31/2023	<0.0002		<0.0002	<0.0002	<0.0002
2/1/2023	~U.UUU∠	<0.0002	-U.UUUZ	~0.000 ∠	~U.UUUZ
	<0.0002	~U.UUUZ		<0.0002	<0.0002
8/8/2023 8/9/2023	<0.0002		<0.0002	<0.0002	<0.0002
		<0.0002	~U.UUUZ		
8/10/2023		<0.0002			

Constituent: Molybdenum (mg/L) Analysis Run 10/19/2023 8:41 AM View: Descriptive Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARAMW-1	ARAMW-2	ARAMW-7	ARAMW-8	ARAMW-9
6/24/2020	0.0051 (J)	<0.015			
8/20/2020	0.0076 (J)	0.0013 (J)			
9/30/2020	0.0054 (J)				
10/1/2020		<0.015			
11/30/2020			0.0012 (J)		
12/1/2020				0.056	
2/10/2021	0.0043 (J)				
2/11/2021		<0.015	<0.001	0.038	
9/9/2021	0.0059 (J)			0.12	
9/10/2021		<0.015	<0.001		
2/2/2022			<0.001		
2/3/2022	0.0049 (J)	<0.015		0.16	
9/2/2022	0.00785	0.000603 (J)		0.175	
9/7/2022			0.000379 (J)		
1/31/2023	0.00974	0.000491 (J)	<0.001	0.188	
2/1/2023					0.014
8/8/2023	0.00667	0.0011	<0.001		0.0109
8/9/2023				0.203	

Constituent: Molybdenum (mg/L) Analysis Run 10/19/2023 8:41 AM View: Descriptive Plant Arkwright Client: Southern Company Data: Arkwright No 2

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	ARGWA-19 (bg)	ARGWA-20 (bg)	ARGWC-21	ARGWC-22	ARGWC-23
8/29/2016	<0.015	<0.001			
8/30/2016			<0.001		
10/24/2016	<0.015	<0.001			
10/26/2016			<0.001		
1/25/2017	<0.015	<0.001	<0.001		
4/10/2017	<0.015	<0.001	<0.001		
6/19/2017	<0.015		<0.001		
6/20/2017		<0.001			
10/24/2017	<0.015	<0.001	<0.001		
4/9/2018		<0.001			
4/10/2018	0.00096 (J)		<0.001		
10/16/2018	<0.015	<0.001	<0.001		
8/20/2019	<0.015	<0.001	<0.001		
12/16/2019				0.0018 (J)	0.025
1/14/2020				0.0012 (J)	0.032
2/11/2020				0.00093	0.021
3/9/2020				0.00067	0.013 (J)
5/27/2020				<0.015	0.048
6/24/2020				<0.015	
6/25/2020	<0.015	<0.001	<0.001		0.055
7/15/2020				<0.015	0.055
8/19/2020	<0.015	<0.001		<0.015	
8/20/2020					0.061
8/21/2020			<0.001		
9/22/2020				<0.015	0.053
9/29/2020	<0.015				
9/30/2020		<0.001		<0.015	•••
10/1/2020	0.045	.0.004	<0.001		0.064
2/9/2021	<0.015	<0.001		.0.045	0.000
2/10/2021	<0.01E		<0.001	<0.015	0.063
9/7/2021	<0.015	<0.001	<0.001		
9/8/2021		<0.001	<0.001		0.071
9/9/2021				-0.01E	0.071
9/10/2021 2/1/2022	0.00067 (1)	~0.001	<0.001	<0.015	
2/1/2022	0.00067 (J)	<0.001	<0.001	<0.015	
2/3/2022				<0.015	0.065
9/1/2022	0.000501 (J)		<0.001		0.005
9/2/2022	0.000301 (3)	<0.001	~ 0.001		
9/6/2022		-0.001		0.000203 (J)	0.067
1/31/2023	0.000395 (J)		<0.001	0.000203 (J) 0.000496 (J)	0.0671
2/1/2023	0.000333 (0)	<0.001	-0.001	3.000+30 (0)	0.0071
8/8/2023	0.000421 (J)	3.00 .		0.000514 (J)	0.0618
8/9/2023	1.000 .21 (0)		<0.001	2.0000.7 (0)	
8/10/2023		<0.001	3.00.		

Constituent: pH (SU) Analysis Run 10/19/2023 8:41 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARAMW-1	ARAMW-2	ARAMW-7	ARAMW-8	ARAMW-9
1/14/2020	6.07	6.12			
6/24/2020	6.31	6.19			
8/20/2020	6.09	5.99			
9/30/2020	6.16				
10/1/2020		5.96			
11/30/2020			6		
12/1/2020				7.05	
2/10/2021	6.16				
2/11/2021		6	5.67	6.95	
9/9/2021	6.1			6.56	
9/10/2021		6.01	5.7		
2/2/2022			5.58		
2/3/2022	6.11	6.01		6.59	
9/2/2022	6.04	6		6.44	
9/7/2022			5.57		
1/31/2023	6.36	6.18	5.54	6.44	
2/1/2023					7.95
8/8/2023	6.38	6.01	5.47		8.13
8/9/2023				8.71	

Constituent: pH (SU) Analysis Run 10/19/2023 8:41 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-19 (bg)	ARGWA-20 (bg)	ARGWC-21	ARGWC-22	ARGWC-23
8/29/2016	6.75 (o)	5.64			
8/30/2016			6.38		
10/24/2016	5.81	5.6			
10/26/2016			6.23		
1/25/2017	5.91	5.65	6.15		
4/10/2017	5.74	5.42	5.99		
6/19/2017	5.54		5.95		
6/20/2017		5.59			
10/24/2017	5.82	5.58	6.02		
4/9/2018		5.78			
4/10/2018	5.92		6.12		
10/16/2018	5.94	5.69	6.12		
3/26/2019	5.85				
3/27/2019		5.96	6.2		
8/20/2019	5.9	5.57	6.08		
10/7/2019	5.89	5.65			
10/8/2019			6.11		
12/16/2019				5.74	6.41
1/14/2020				5.91	6.62
2/11/2020				5.9	6.71
3/9/2020				5.97	6.32
4/6/2020		5.53			
4/7/2020	5.72		5.96	5.84	6.4
5/27/2020				5.69	6.3
6/24/2020				5.82	
6/25/2020	5.8	5.61	5.98		6.37
7/15/2020				5.58	6.36
8/19/2020	6.25	6.16		6.21	
8/20/2020					6.33
8/21/2020			5.89		
9/22/2020				5.77	6.29
9/29/2020	5.83				
9/30/2020		5.65		5.81	
10/1/2020			5.99		6.38
2/9/2021	5.97	5.66			
2/10/2021			6.01	5.68	6.37
9/7/2021	5.85				
9/8/2021		5.59	5.94		
9/9/2021					6.35
9/10/2021				5.62	
2/1/2022	5.52	5.14	5.65		
2/2/2022				5.7	
2/3/2022					6.44
9/1/2022	5.88		5.97		
9/2/2022		5.68	-		
9/6/2022				5.88	6.41
1/31/2023	5.86		6.04	5.61	6.46
2/1/2023		5.7		- · - ·	
8/8/2023	5.81			5.61	6.33
8/9/2023	-		6.6	-	
8/10/2023		5.55	-		
·-					

Constituent: Selenium (mg/L) Analysis Run 10/19/2023 8:41 AM View: Descriptive Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARAMW-1	ARAMW-2	ARAMW-7	ARAMW-8	ARAMW-9
			CI ICIVI VV=7	AI VAIVIVV=0	AI VAIVIVV-3
8/20/2020	<0.005	<0.005			
9/30/2020	<0.005				
10/1/2020		<0.005			
2/10/2021	<0.005				
2/11/2021		<0.005	<0.005	<0.005	
9/9/2021	<0.005			<0.005	
9/10/2021		<0.005	<0.005		
2/2/2022			<0.005		
2/3/2022	<0.005	<0.005		<0.005	
9/2/2022	<0.005	<0.005		<0.005	
9/7/2022			<0.005		
1/31/2023	<0.005	<0.005	<0.005	<0.005	
2/1/2023					<0.005
8/8/2023	<0.005	<0.005	<0.005		<0.005
8/9/2023				<0.005	

Constituent: Selenium (mg/L) Analysis Run 10/19/2023 8:41 AM View: Descriptive Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ADOMA 40 //- \	ADCIMA 20 //- `	ADOMO 04	ADCIMC 22	ADCIMO 22
E/E/2000	ARGWA-19 (bg)	ARGWA-20 (bg)	ARGWC-21	ARGWC-22	ARGWC-23
5/5/2009	0.0043		0.0058 (-)		
5/14/2009		0.007 (c)	0.0058 (o)		
5/15/2009	<0.00E	0.007 (o)	<0.00E		
12/5/2009	<0.005	<0.005	<0.005		
6/1/2010	<0.005	<0.005	-0.005		
6/2/2010	.0.005	.0.005	<0.005		
11/11/2010	<0.005	<0.005	<0.005		
5/17/2011	<0.005	<0.005	<0.005		
11/8/2011	<0.005	<0.005	<0.005		
5/16/2012	<0.005	0.0024 (J)	<0.005		
5/14/2013	<0.005	<0.005	<0.005		
11/5/2013	<0.005	<0.005	<0.005		
6/9/2014	<0.005	<0.005	<0.005		
11/18/2014		<0.005	<0.005		
11/19/2014	<0.005				
4/14/2015	<0.005	<0.005	<0.005		
10/29/2015			<0.005		
11/4/2015	<0.005	<0.005			
6/22/2016	0.00025 (J)	0.0019			
6/23/2016			<0.005		
8/29/2016	0.0004 (J)	0.0019			
8/30/2016			<0.005		
10/24/2016	<0.005	0.0023 (J)			
10/26/2016		. ,	<0.005		
1/25/2017	<0.005	0.0015	<0.005		
4/10/2017	<0.005	0.0011 (J)	<0.005		
6/19/2017	0.00025 (J)	(0)	<0.005		
6/20/2017	(0)	0.0016			
10/24/2017	<0.005	0.0010 0.0012 (J)	<0.005		
	~ 0.003		\U.UUJ		
4/9/2018	0.0007471	0.0012 (J)	<0.00E		
4/10/2018	0.00074 (J)	0.0015	<0.005		
10/16/2018	<0.005	0.0015	<0.005		
3/26/2019	<0.005				
3/27/2019		0.0015	<0.005		
8/20/2019	<0.005	0.0015 (J)	<0.005		
10/7/2019	<0.005	0.0016 (J)			
10/8/2019			<0.005		
12/16/2019				<0.005	<0.005
1/14/2020				<0.005	<0.005
2/11/2020				<0.005	<0.005
3/9/2020				<0.005	<0.005
4/6/2020		0.0017 (J)			
4/7/2020	<0.005		<0.005	<0.005	<0.005
5/27/2020				<0.005	<0.005
7/15/2020				<0.005	<0.005
8/19/2020	<0.005	0.0015 (J)		<0.005	
8/20/2020		. ,			<0.005
8/21/2020			<0.005		-
9/22/2020				<0.005	<0.005
9/29/2020	<0.005			-	-
9/30/2020		0.0016 (J)		<0.005	
10/1/2020		3.0010 (0)	<0.005	-0.003	<0.005
10/1/2020			٠٥.٥٥٥		٠٥.٥٥٥

 $\label{lem:constituent: Selenium (mg/L)} Constituent: Selenium (mg/L) & Analysis Run 10/19/2023 8:41 AM & View: Descriptive \\ Plant Arkwright & Client: Southern Company & Data: Arkwright No 2 & Client: Southern Company & Client: Arkwright No 2 & Client: Southern Company & Client: Arkwright No 2 & Client: Southern Company & Client: Arkwright No 2 & Client: Southern Company & Client: Arkwright No 2 & Client: Arkwright$

2/9/2021	ARGWA-19 (bg) <0.005	ARGWA-20 (bg) 0.0016 (J)	ARGWC-21	ARGWC-22	ARGWC-23
2/10/2021	-0.000	0.0010 (0)	<0.005	<0.005	<0.005
9/7/2021	<0.005				
9/8/2021		<0.005	<0.005		
9/9/2021					<0.005
9/10/2021				0.002 (J)	
2/1/2022	<0.005	0.0015 (J)	<0.005		
2/2/2022				<0.005	
2/3/2022					<0.005
9/1/2022	<0.005		<0.005		
9/2/2022		<0.005			
9/6/2022				<0.005	<0.005
1/31/2023	<0.005		<0.005	<0.005	<0.005
2/1/2023		<0.005			
8/8/2023	<0.005			<0.005	<0.005
8/9/2023			<0.005		
8/10/2023		<0.005			

Constituent: Silver (mg/L) Analysis Run 10/19/2023 8:41 AM View: Descriptive Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARAMW-1	ARAMW-2	ARAMW-7	ARAMW-8	ARAMW-9
9/30/2020	<0.001				
10/1/2020		<0.001			
2/10/2021	<0.001				
2/11/2021		<0.001	<0.001	<0.001	
9/9/2021	<0.001			<0.001	
9/10/2021		<0.001	<0.001		
2/2/2022			<0.001		
2/3/2022	<0.001	<0.001		<0.001	
9/2/2022	<0.001	<0.001		<0.001	
9/7/2022			<0.001		
1/31/2023	<0.001	<0.001	<0.001	<0.001	
2/1/2023					<0.001
8/8/2023	<0.001	<0.001	<0.001		<0.001
8/9/2023				<0.001	

Constituent: Silver (mg/L) Analysis Run 10/19/2023 8:41 AM View: Descriptive Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-19 (bg)	ARGWA-20 (bg)	ARGWC-21	ARGWC-22	ARGWC-23
5/5/2009	<0.001				
5/14/2009			<0.001		
5/15/2009		<0.001			
12/5/2009	0.00075	0.00043	0.001		
6/1/2010	<0.001	<0.001			
6/2/2010			<0.001		
11/11/2010	<0.001	<0.001	<0.001		
5/17/2011	<0.001	<0.001	<0.001		
11/8/2011	<0.001	<0.001	<0.001		
5/16/2012	<0.001	<0.001	<0.001		
5/14/2013	<0.001	<0.001	<0.001		
11/5/2013	<0.001	<0.001	<0.001		
6/9/2014	<0.001	<0.001	<0.001		
11/18/2014		<0.001	<0.001		
11/19/2014	<0.001				
4/14/2015	<0.001	<0.001	<0.001		
10/29/2015			<0.001		
11/4/2015	<0.001	<0.001			
6/22/2016	<0.001	<0.001			
6/23/2016	0.00	0.001	<0.001		
10/24/2016	<0.001	<0.001	0.001		
10/26/2016	10.001	10.001	<0.001		
4/10/2017	<0.001	<0.001	<0.001		
10/24/2017	<0.001	<0.001	<0.001		
4/9/2018	10.001	<0.001	-0.001		
4/10/2018	<0.001	40.001	<0.001		
10/16/2018	<0.001	<0.001	<0.001		
3/26/2019	<0.001	40.001	10.001		
3/27/2019	40.001	<0.001	<0.001		
10/7/2019	0.000E6 (1)		<0.001		
10/7/2019	0.00056 (J)	0.00031 (J)	0.00043 (J)		
4/6/2020		<0.001	0.00043 (3)		
4/7/2020	0.00018 (J)	<0.001	<0.001	<0.001	<0.001
9/29/2020	<0.001		<0.001	<0.001	V0.001
9/30/2020	~0.001	<0.001		<0.001	
10/1/2020		\0.001	<0.001	~0.001	<0.001
2/9/2021	<0.001	<0.001	-U.UU I		**.001
2/10/2021	~U.UU I	~∪.∪∪ I	<0.001	<0.001	<0.001
9/7/2021	<0.001		<0.001	<0.001	<0.001
9/8/2021	~U.UU I	<0.001	<0.001		
		~U.UU I	~U.UU1		<0.001
9/9/2021				<0.001	<0.001
9/10/2021	<0.001	<0.001	<0.001	<0.001	
2/1/2022	<0.001	<0.001	<0.001	<0.001	
2/2/2022				<0.001	40.001
2/3/2022	10.001		-0.001		<0.001
9/1/2022	<0.001	.0.004	<0.001		
9/2/2022		<0.001			
9/6/2022	.0.051		.0.051	<0.001	<0.001
1/31/2023	<0.001		<0.001	<0.001	<0.001
2/1/2023		<0.001			
8/8/2023	<0.001			<0.001	<0.001
8/9/2023			<0.001		

Constituent: Silver (mg/L) Analysis Run 10/19/2023 8:41 AM View: Descriptive Plant Arkwright Client: Southern Company Data: Arkwright No 2

ARGWA-19 (bg) ARGWA-20 (bg) ARGWC-21

ARGWC-22

ARGWC-23

8/10/2023

<0.001

Constituent: Sulfate (mg/L) Analysis Run 10/19/2023 8:41 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARAMW-1	ARAMW-2	ARAMW-7	ARAMW-8	ARAMW-9
6/24/2020	250	290			
9/30/2020	230				
10/1/2020		270			
11/30/2020			990		
12/1/2020				120	
2/10/2021	260				
2/11/2021		290	980	110	
9/9/2021	210			100	
9/10/2021		440	1100		
2/2/2022			1100		
2/3/2022	250	310		110	
9/2/2022	223	315		108	
9/7/2022			1050		
1/31/2023	218	262	1020	105	
2/1/2023					417
8/8/2023	223	243	1060		477
8/9/2023				114	

Constituent: Sulfate (mg/L) Analysis Run 10/19/2023 8:41 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-19 (bg)	ARGWA-20 (bg)	ARGWC-21	ARGWC-22	ARGWC-23
5/5/2009	15.9				
5/14/2009			129		
5/15/2009		41.3 (o)			
12/5/2009	15.1	16.2	136		
6/1/2010	12.7	18.2			
6/2/2010			138		
11/11/2010	11.5	16.5	131.49		
5/17/2011	11.2	16	132		
11/8/2011	11.3	21	138		
5/16/2012	9.38	17.7	132		
5/14/2013	8.74	19.5	129		
11/5/2013	9.12	18.3	122		
6/9/2014	8.61	18.6	131		
4/14/2015	8.45	18.8	128		
10/29/2015			134		
11/4/2015	9.01	17.4			
6/22/2016	9.3	18			
6/23/2016			150		
8/29/2016	8.7	18			
8/30/2016			140		
10/24/2016	9.3	18			
10/26/2016			160		
1/25/2017	8.8	19	150		
4/10/2017	7.8	16	140		
6/19/2017	8.6		160		
6/20/2017		18			
10/24/2017	9.1	19	160		
4/9/2018		18			
4/10/2018	7.9		170		
10/16/2018	8.2	18	170		
3/26/2019	6.1				
3/27/2019		15	170		
10/7/2019	7.4	17			
10/8/2019		.,	170		
12/16/2019				770	66
1/14/2020				930	68
2/11/2020				660	18
3/9/2020				630	49
4/6/2020		15			
4/7/2020	8.4		180	710	58
5/27/2020				720	65
6/24/2020				810	
6/25/2020	9.8	16	210	-	77
7/15/2020	-	-	-	820	78
8/19/2020				1000	
8/20/2020					69
9/22/2020				720	68
9/29/2020	8.4			.20	
9/30/2020	JT	15		650	
10/1/2020		.5	210	550	64
2/9/2021	10	16	210		V1
2/10/2021	10	10	220	750	67
L, 1012UZ I			220	750	··

Constituent: Sulfate (mg/L) Analysis Run 10/19/2023 8:41 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-19 (bg)	ARGWA-20 (bg)	ARGWC-21	ARGWC-22	ARGWC-23
9/7/2021	9.9				
9/8/2021		16	230		
9/9/2021					72
9/10/2021				760	
2/1/2022	10	18	230		
2/2/2022				720	
2/3/2022					64
9/1/2022	8.38		221		
9/2/2022		18.5			
9/6/2022				667	65.3
1/31/2023	7.55		260	751	55.5
2/1/2023		19.3			
8/8/2023	8.29			719	69.8
8/9/2023			214		
8/10/2023		18.5			

Constituent: Thallium (mg/L) Analysis Run 10/19/2023 8:41 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARAMW-1	ARAMW-2	ARAMW-7	ARAMW-8	ARAMW-9	
8/20/2020	<0.002	<0.002				
9/9/2021	<0.002			<0.002		
9/10/2021		<0.002	<0.002			
2/2/2022			<0.002			
2/3/2022	<0.002	<0.002		<0.002		
9/2/2022	<0.002	<0.002		<0.002		
9/7/2022			<0.002			
1/31/2023	<0.002	<0.002	<0.002	<0.002		
2/1/2023					<0.002	
8/8/2023	<0.002	<0.002	<0.002		<0.002	
8/9/2023				<0.002		

Constituent: Thallium (mg/L) Analysis Run 10/19/2023 8:41 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-19 (bg)	ARGWA-20 (bg)	ARGWC-21	ARGWC-22	ARGWC-23
8/29/2016	<0.002	<0.002			
8/30/2016			<0.002		
10/24/2016	<0.002	<0.002			
10/26/2016			<0.002		
1/25/2017	<0.002	<0.002	<0.002		
4/10/2017	<0.002	<0.002	<0.002		
6/19/2017	<0.002		<0.002		
6/20/2017		<0.002			
10/24/2017	<0.002	<0.002	<0.002		
4/9/2018		<0.002			
4/10/2018	<0.002		<0.002		
10/16/2018	<0.002	<0.002	<0.002		
8/20/2019	<0.002	<0.002	<0.002		
12/16/2019				0.00078 (J)	<0.002
1/14/2020				0.00027 (J)	<0.002
2/11/2020				0.00034	0.00028 (J)
3/9/2020				0.00035 (J)	0.00026 (J)
5/27/2020				<0.002	0.00026 (J)
7/15/2020				<0.002	<0.002
8/19/2020	<0.002	<0.002		<0.002	
8/20/2020					<0.002
8/21/2020			<0.002		
9/22/2020				<0.002	<0.002
9/7/2021	<0.002				
9/8/2021		<0.002	<0.002		
9/9/2021					<0.002
9/10/2021				<0.002	
2/1/2022	0.00057 (J)	<0.002	<0.002		
2/2/2022				<0.002	
2/3/2022					<0.002
9/1/2022	<0.002		<0.002		
9/2/2022		<0.002			
9/6/2022				<0.002	<0.002
1/31/2023	<0.002		<0.002	<0.002	<0.002
2/1/2023		<0.002			
8/8/2023	<0.002			<0.002	<0.002
8/9/2023			<0.002		
8/10/2023		<0.002			

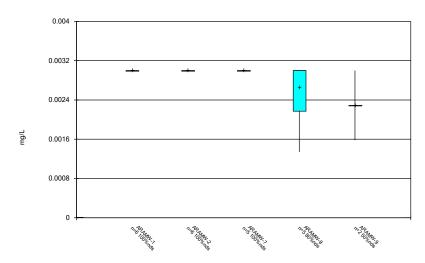
Constituent: Total Dissolved Solids (mg/L) Analysis Run 10/19/2023 8:41 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARAMW-1	ARAMW-2	ARAMW-7	ARAMW-8	ARAMW-9
9/30/2020	520				
10/1/2020		530			
11/30/2020			1600		
12/1/2020				420	
2/10/2021	560				
2/11/2021		590	1600	380	
9/9/2021	560			260	
9/10/2021		870	1700		
2/2/2022			1700		
2/3/2022	560	590		410	
9/2/2022	546	664		385	
9/7/2022			1610		
1/31/2023	527	591	1630	392	
2/1/2023					857
8/8/2023	524	548	1620		852
8/9/2023				436	

Constituent: Total Dissolved Solids (mg/L) Analysis Run 10/19/2023 8:41 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

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	ARGWA-19 (bg)	ARGWA-20 (bg)	ARGWC-21	ARGWC-22	ARGWC-23
8/29/2016	130	100			
8/30/2016			350		
10/24/2016	108	91			
10/26/2016			357		
1/25/2017	120	90	320		
4/10/2017	128 (D)	110	380		
6/19/2017	86		370		
6/20/2017		72			
10/24/2017	120	110	420		
4/9/2018		100			
4/10/2018	120		370		
10/16/2018	140	110	380		
3/26/2019	170				
3/27/2019		100	400		
10/7/2019	150	87			
10/8/2019			420		
12/16/2019				1300	320
1/14/2020				1400	340
2/11/2020				1300	110
3/9/2020				1200	210
4/6/2020		90			
4/7/2020	120		460	1300	290
5/27/2020				1300	320
7/15/2020				1400	310
8/19/2020				1400	
8/20/2020					310
9/22/2020				1300	310
9/29/2020	110				
9/30/2020		82		1200	
10/1/2020			500		290
2/9/2021	110	100			
2/10/2021			510	1200	290
9/7/2021	110				
9/8/2021		120	560		
9/9/2021					320
9/10/2021				1300	
2/1/2022	91	100	520		
2/2/2022				1200	
2/3/2022					320
9/1/2022	81		537		
9/2/2022		101			
9/6/2022				1180	305
1/31/2023	95		526	1320	299
2/1/2023		90			
8/8/2023	62			1220	294
8/9/2023			520		
8/10/2023		105			

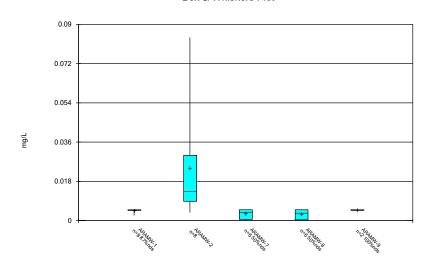
FIGURE B.



Constituent: Antimony Analysis Run 10/19/2023 8:42 AM View: Descriptive Plant Arkwright Client: Southern Company Data: Arkwright No 2

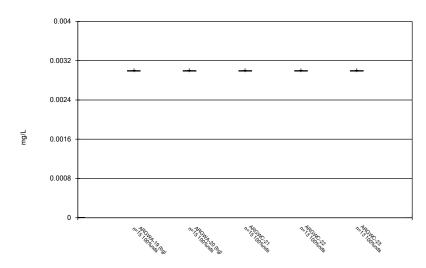
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Box & Whiskers Plot



Constituent: Arsenic Analysis Run 10/19/2023 8:42 AM View: Descriptive Plant Arkwright Client: Southern Company Data: Arkwright No 2

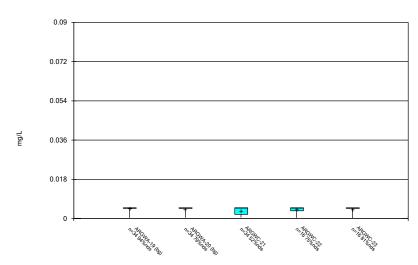
Box & Whiskers Plot



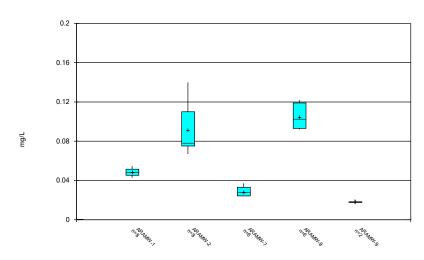
Constituent: Antimony Analysis Run 10/19/2023 8:42 AM View: Descriptive Plant Arkwright Client: Southern Company Data: Arkwright No 2

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Box & Whiskers Plot



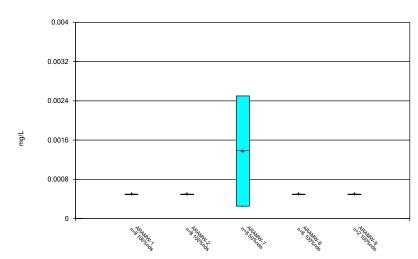
Constituent: Arsenic Analysis Run 10/19/2023 8:42 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2



Constituent: Barium Analysis Run 10/19/2023 8:42 AM View: Descriptive Plant Arkwright Client: Southern Company Data: Arkwright No 2

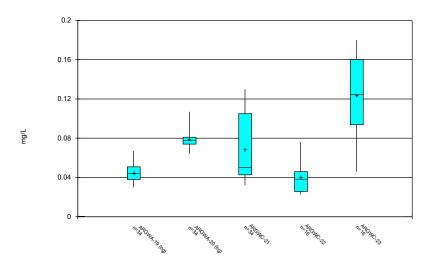
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Box & Whiskers Plot



Constituent: Beryllium Analysis Run 10/19/2023 8:42 AM View: Descriptive Plant Arkwright Client: Southern Company Data: Arkwright No 2

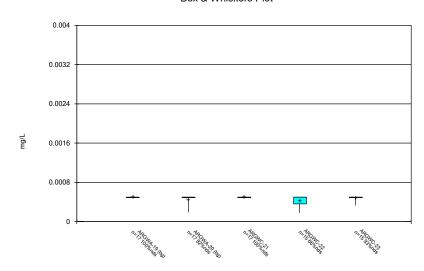
Box & Whiskers Plot



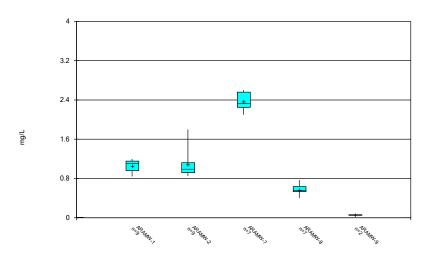
Constituent: Barium Analysis Run 10/19/2023 8:42 AM View: Descriptive Plant Arkwright Client: Southern Company Data: Arkwright No 2

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Box & Whiskers Plot



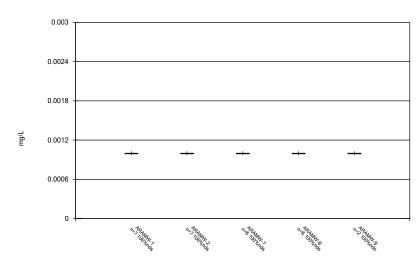
Constituent: Beryllium Analysis Run 10/19/2023 8:42 AM View: Descriptive Plant Arkwright Client: Southern Company Data: Arkwright No 2



Constituent: Boron Analysis Run 10/19/2023 8:42 AM View: Descriptive Plant Arkwright Client: Southern Company Data: Arkwright No 2

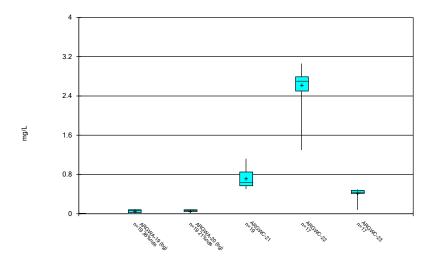
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Box & Whiskers Plot



Constituent: Cadmium Analysis Run 10/19/2023 8:42 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

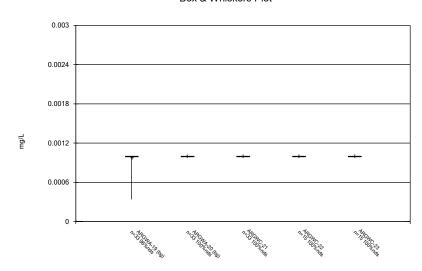
Box & Whiskers Plot



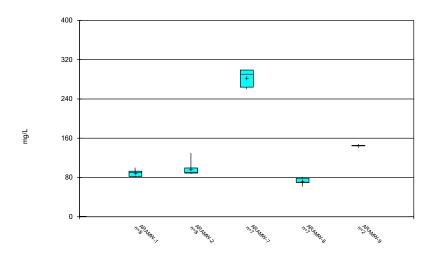
Constituent: Boron Analysis Run 10/19/2023 8:42 AM View: Descriptive Plant Arkwright Client: Southern Company Data: Arkwright No 2

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Box & Whiskers Plot



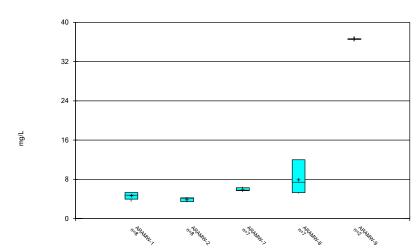
Constituent: Cadmium Analysis Run 10/19/2023 8:42 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2



Constituent: Calcium Analysis Run 10/19/2023 8:42 AM View: Descriptive Plant Arkwright Client: Southern Company Data: Arkwright No 2

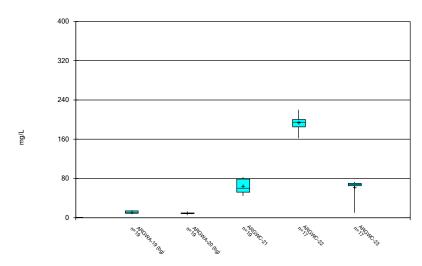
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Box & Whiskers Plot



Constituent: Chloride Analysis Run 10/19/2023 8:42 AM View: Descriptive Plant Arkwright Client: Southern Company Data: Arkwright No 2

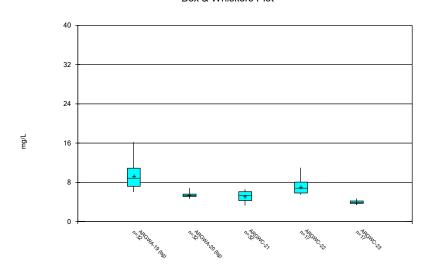
Box & Whiskers Plot



Constituent: Calcium Analysis Run 10/19/2023 8:42 AM View: Descriptive Plant Arkwright Client: Southern Company Data: Arkwright No 2

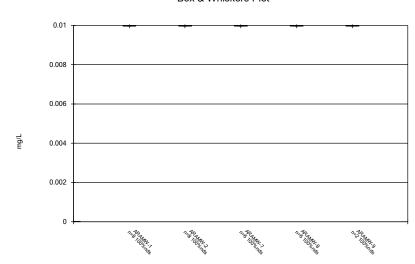
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Box & Whiskers Plot



Constituent: Chloride Analysis Run 10/19/2023 8:42 AM View: Descriptive Plant Arkwright Client: Southern Company Data: Arkwright No 2

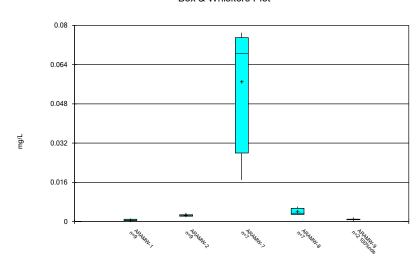




Constituent: Chromium Analysis Run 10/19/2023 8:42 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

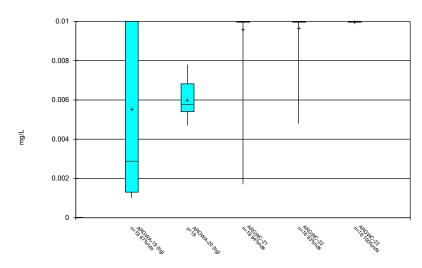
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Box & Whiskers Plot



Constituent: Cobalt Analysis Run 10/19/2023 8:42 AM View: Descriptive Plant Arkwright Client: Southern Company Data: Arkwright No 2

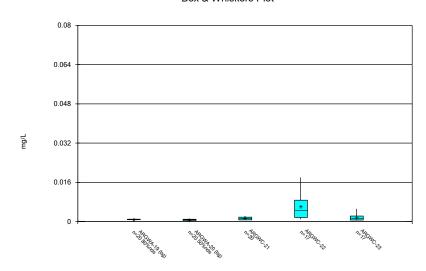
Box & Whiskers Plot



Constituent: Chromium Analysis Run 10/19/2023 8:42 AM View: Descriptive Plant Arkwright Client: Southern Company Data: Arkwright No 2

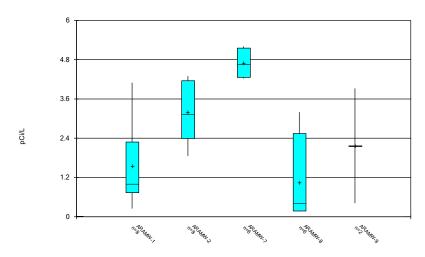
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Box & Whiskers Plot



Constituent: Cobalt Analysis Run 10/19/2023 8:42 AM View: Descriptive Plant Arkwright Client: Southern Company Data: Arkwright No 2

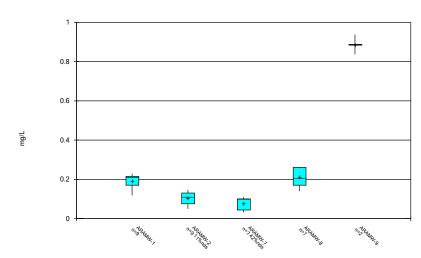
Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 10/19/2023 8:42 AM View: Descriptive Plant Arkwright Client: Southern Company Data: Arkwright No 2

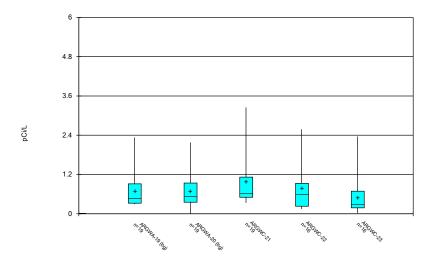
Sanitas™ v.10.0.06 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot



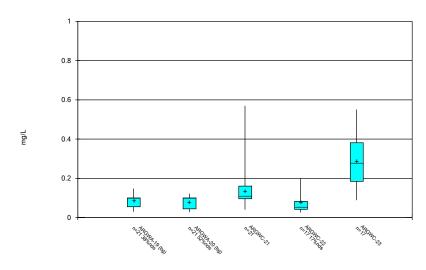
Constituent: Fluoride Analysis Run 10/19/2023 8:42 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Box & Whiskers Plot

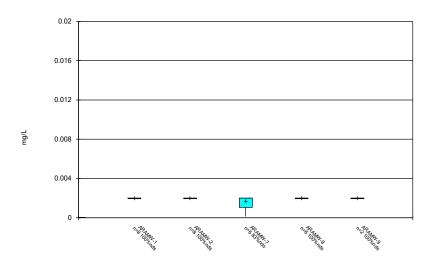


Constituent: Combined Radium 226 + 228 Analysis Run 10/19/2023 8:42 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Box & Whiskers Plot



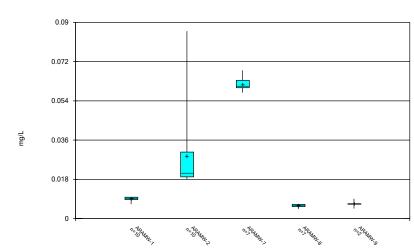
Constituent: Fluoride Analysis Run 10/19/2023 8:42 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2



Constituent: Lead Analysis Run 10/19/2023 8:42 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

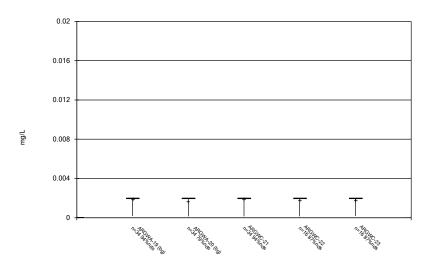
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Box & Whiskers Plot



Constituent: Lithium Analysis Run 10/19/2023 8:42 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

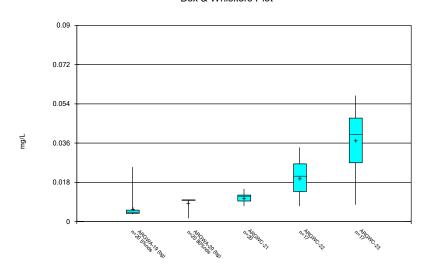
Box & Whiskers Plot



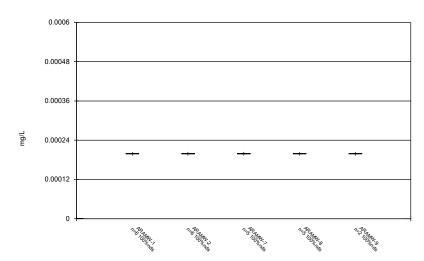
Constituent: Lead Analysis Run 10/19/2023 8:42 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

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Box & Whiskers Plot



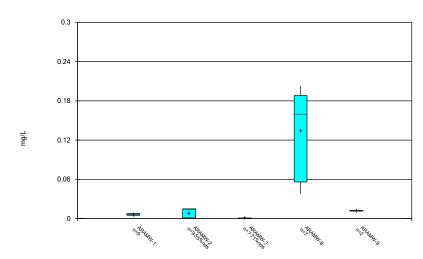
Constituent: Lithium Analysis Run 10/19/2023 8:42 AM View: Descriptive Plant Arkwright Client: Southern Company Data: Arkwright No 2



Constituent: Mercury Analysis Run 10/19/2023 8:42 AM View: Descriptive Plant Arkwright Client: Southern Company Data: Arkwright No 2

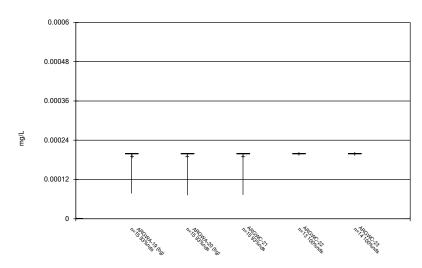
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Box & Whiskers Plot



Constituent: Molybdenum Analysis Run 10/19/2023 8:42 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

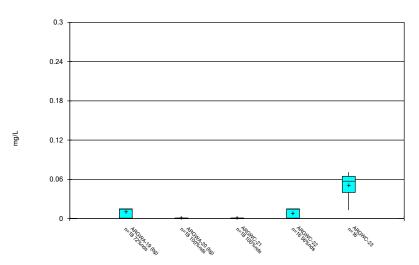
Box & Whiskers Plot



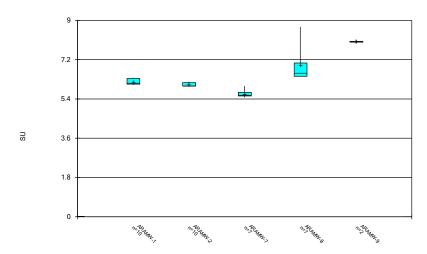
Constituent: Mercury Analysis Run 10/19/2023 8:42 AM View: Descriptive Plant Arkwright Client: Southern Company Data: Arkwright No 2

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Box & Whiskers Plot



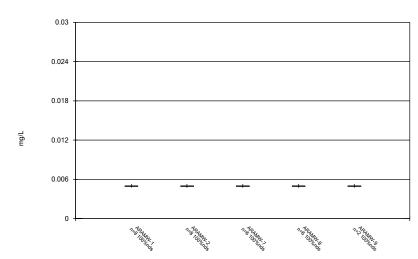
Constituent: Molybdenum Analysis Run 10/19/2023 8:42 AM View: Descriptive Plant Arkwright Client: Southern Company Data: Arkwright No 2



Constituent: pH Analysis Run 10/19/2023 8:42 AM View: Descriptive Plant Arkwright Client: Southern Company Data: Arkwright No 2

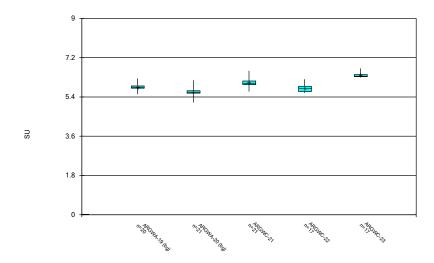
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Box & Whiskers Plot



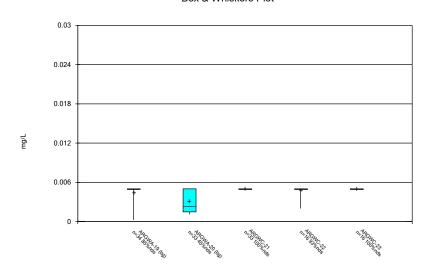
Constituent: Selenium Analysis Run 10/19/2023 8:42 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Box & Whiskers Plot

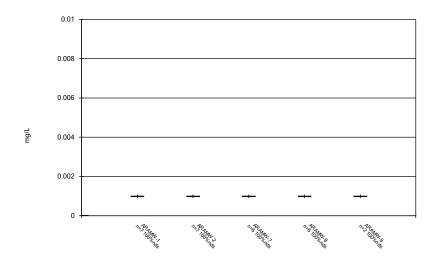


Constituent: pH Analysis Run 10/19/2023 8:42 AM View: Descriptive Plant Arkwright Client: Southern Company Data: Arkwright No 2

Box & Whiskers Plot



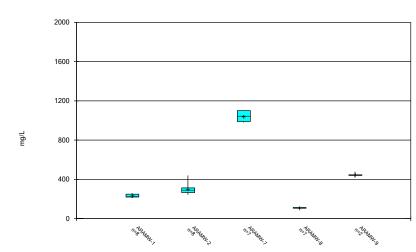
Constituent: Selenium Analysis Run 10/19/2023 8:42 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2



Constituent: Silver Analysis Run 10/19/2023 8:42 AM View: Descriptive Plant Arkwright Client: Southern Company Data: Arkwright No 2

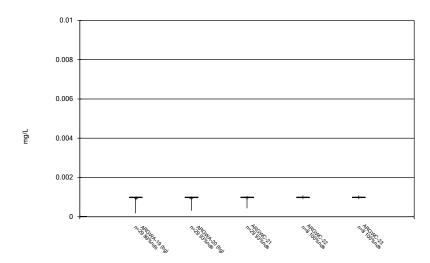
Sanitas™ v.10.0.06 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot



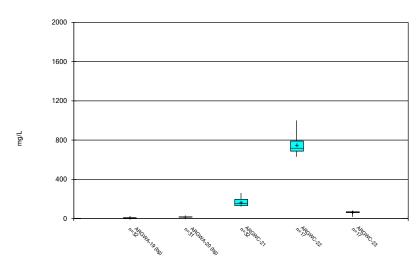
Constituent: Sulfate Analysis Run 10/19/2023 8:42 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Box & Whiskers Plot

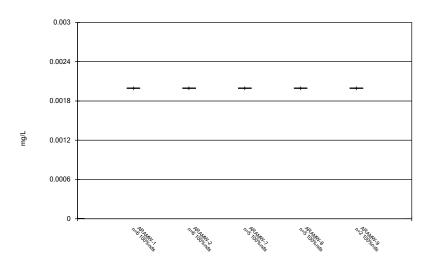


Constituent: Silver Analysis Run 10/19/2023 8:42 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Box & Whiskers Plot



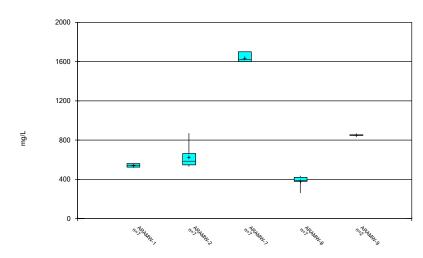
Constituent: Sulfate Analysis Run 10/19/2023 8:42 AM View: Descriptive Plant Arkwright Client: Southern Company Data: Arkwright No 2



Constituent: Thallium Analysis Run 10/19/2023 8:42 AM View: Descriptive Plant Arkwright Client: Southern Company Data: Arkwright No 2

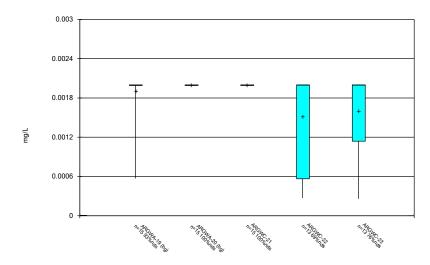
Sanitas™ v.10.0.06 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot



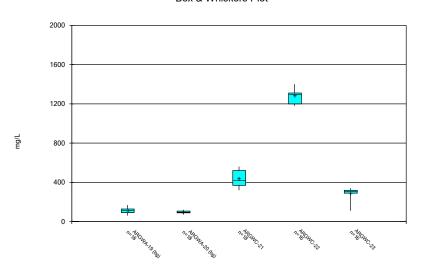
Constituent: Total Dissolved Solids Analysis Run 10/19/2023 8:42 AM View: Descriptive Plant Arkwright Client: Southern Company Data: Arkwright No 2

Box & Whiskers Plot



Constituent: Thallium Analysis Run 10/19/2023 8:42 AM View: Descriptive Plant Arkwright Client: Southern Company Data: Arkwright No 2

Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 10/19/2023 8:42 AM View: Descriptive Plant Arkwright Client: Southern Company Data: Arkwright No 2

FIGURE C.

Outlier Summary

Plant Arkwright Client: Southern Company Data: Arkwright No 2 Printed 10/13/2023, 12:24 PM

ARGWA-19 pH (SU)

ARGWA-20 Selenium (mg/L)

ARGWA-20 Sulfate (mg/L)

ARGWA-20 Sulfate (mg/L)

5/14/2009 0.0058 (o)

5/15/2009 0.007 (o) 41.3 (o)

8/29/2016 6.75 (o)

FIGURE D.

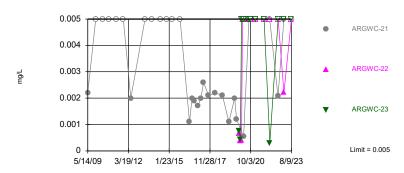
Interwell Prediction Limits - Appendix I & IV - All Results (No Significant)

	Plant Arkwright Client: Southern Compar		rn Company	Data: Arkwright No 2			Printed 10/19/2023, 8:46 AM								
Constituent	Well	Upper Lim.	Lower Lim.	<u>Date</u>	Observ.	Sig.	Bg N	Bg Mean		Std. Dev.	%NDs	ND Adj.	Transform	n Alpha	Method
Arsenic (mg/L)	ARGWC-21	0.005	n/a	8/9/2023	0.005ND	No	68	n/a		n/a	86.76	n/a	n/a	0.0004166	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	ARGWC-22	0.005	n/a	8/8/2023	0.005ND	No	68	n/a		n/a	86.76	n/a	n/a	0.0004166	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	ARGWC-23	0.005	n/a	8/8/2023	0.005ND	No	68	n/a		n/a	86.76	n/a	n/a	0.0004166	NP Inter (NDs) 1 of 2
Barium (mg/L)	ARGWC-21	0.107	n/a	8/9/2023	0.0474	No	68	n/a		n/a	0	n/a	n/a	0.0004166	NP Inter (normality) 1 of 2
Barium (mg/L)	ARGWC-22	0.107	n/a	8/8/2023	0.0255	No	68	n/a		n/a	0	n/a	n/a	0.0004166	NP Inter (normality) 1 of 2
Barium (mg/L)	ARGWC-23	0.107	n/a	8/8/2023	0.0936	No	68	n/a		n/a	0	n/a	n/a	0.0004166	NP Inter (normality) 1 of 2
Lead (mg/L)	ARGWC-21	0.002	n/a	8/9/2023	0.002ND	No	68	n/a		n/a	86.76	n/a	n/a	0.0004166	NP Inter (NDs) 1 of 2
Lead (mg/L)	ARGWC-22	0.002	n/a	8/8/2023	0.002ND	No	68	n/a		n/a	86.76	n/a	n/a	0.0004166	NP Inter (NDs) 1 of 2
Lead (mg/L)	ARGWC-23	0.002	n/a	8/8/2023	0.002ND	No	68	n/a		n/a	86.76	n/a	n/a	0.0004166	NP Inter (NDs) 1 of 2
Selenium (mg/L)	ARGWC-22	0.005	n/a	8/8/2023	0.005ND	No	67	n/a		n/a	65.67	n/a	n/a	0.0004301	NP Inter (NDs) 1 of 2
Silver (mg/L)	ARGWC-21	0.001	n/a	8/9/2023	0.001ND	No	58	n/a		n/a	91.38	n/a	n/a	0.0005697	NP Inter (NDs) 1 of 2

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Within Limit

Prediction Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 68 background values. 86.76% NDs. Annual per-constituent alpha = 0.002497. Individual comparison alpha = 0.0004166 (1 of 2). Comparing 3 points to limit.

Constituent: Arsenic Analysis Run 10/19/2023 8:45 AM View: PLs - App I
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Prediction Limit

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Within Limit

0.005
0.004
0.003
0.002
0.002
0.002
0.000
0.001

ARGWC-21

ARGWC-22

5/14/09 3/19/12 1/23/15 11/28/17 10/3/20

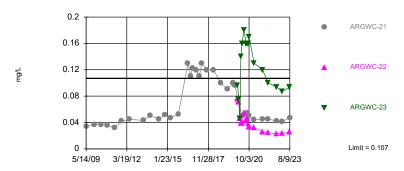
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 68 background values. 86.76% NDs. Annual per-constituent alpha = 0.002497. Individual comparison alpha = 0.0004166 (1 of 2). Comparing 3 points to limit.

Limit = 0.002

8/9/23

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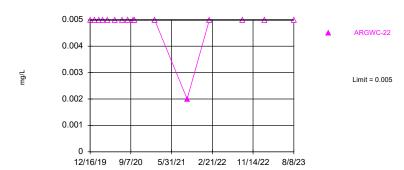


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 68 background values. Annual per-constituent alpha = 0.002497. Individual comparison alpha = 0.0004166 (1 of 2). Comparing 3 points to limit.

Constituent: Barium Analysis Run 10/19/2023 8:45 AM View: PLs - App I
Plant Arkwright Client: Southern Company Data: Arkwright No 2

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Within Limit Prediction Limit
Interwell Non-parametric

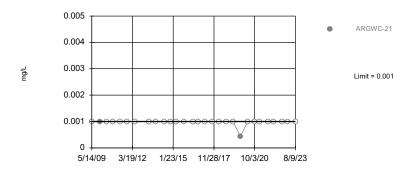


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 67 background values. 65.67% NDs. Annual per-constituent alpha = 0.002578. Individual comparison alpha = 0.0004301 (1 of 2). Assumes 2 future values.

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Within Limit

Prediction Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 58 background values. 91.38% NDs. Annual per-constituent alpha = 0.003413. Individual comparison alpha = 0.0005697 (1 of 2). Assumes 2 future values.

Constituent: Silver Analysis Run 10/19/2023 8:46 AM View: PLs - App I
Plant Arkwright Client: Southern Company Data: Arkwright No 2



Constituent: Arsenic (mg/L) Analysis Run 10/19/2023 8:46 AM View: PLs - App I

Plant Arkwright Client: Southern Company Data: Arkwright No 2

_							
		ARGWA-19 (bg)	ARGWC-21	ARGWA-20 (bg)	ARGWC-23	ARGWC-22	
	5/5/2009	<0.005		, -,			
	5/14/2009		0.0022				
	5/15/2009			0.0015			
	12/5/2009	<0.005	<0.005	<0.005			
	6/1/2010	<0.005	-	<0.005			
	6/2/2010	-0.000	<0.005	-0.003			
		<0.00E		<0.00E			
	11/11/2010	<0.005	<0.005	<0.005			
	5/17/2011	<0.005	<0.005	<0.005			
	11/8/2011	<0.005	<0.005	<0.005			
	5/16/2012	<0.005	0.002 (J)	<0.005			
	5/14/2013	<0.005	<0.005	<0.005			
	11/5/2013	<0.005	<0.005	<0.005			
	6/9/2014	<0.005	<0.005	<0.005			
	11/18/2014		<0.005	<0.005			
	11/19/2014	<0.005					
	4/14/2015	<0.005	<0.005	<0.005			
	10/29/2015		<0.005				
	11/4/2015	<0.005		<0.005			
	6/22/2016	<0.005		0.00084 (J)			
	6/23/2016		0.0011 (J)				
	8/29/2016	<0.005		0.00049 (J)			
	8/30/2016		0.002	• •			
	10/24/2016	<0.005		<0.005			
	10/26/2016		0.0019 (J)				
	1/25/2017	<0.005	0.0017	<0.005			
	4/10/2017	<0.005	0.0017				
				0.00056 (J)			
	6/19/2017	<0.005	0.0026	0.00068 (1)			
	6/20/2017	-0.005	0.0001	0.00068 (J)			
	10/24/2017	<0.005	0.0021	<0.005			
	4/9/2018			<0.005			
	4/10/2018	<0.005	0.0022				
	10/16/2018	<0.005	0.0021	<0.005			
	3/26/2019	<0.005					
	3/27/2019		0.0011 (J)	<0.005			
	8/20/2019	0.00036 (J)	0.002	0.00047 (J)			
	10/7/2019	<0.005		<0.005			
	10/8/2019		0.0012 (J)				
	12/16/2019				0.00075 (J)	0.00066 (J)	
	1/14/2020				0.00042 (J)	0.00038 (J)	
	2/11/2020				<0.005	0.0004 (J)	
	3/9/2020				<0.005	<0.005	
	4/6/2020			0.00042 (J)			
	4/7/2020	0.0006 (J)	0.00054 (J)	` '	<0.005	<0.005	
	5/27/2020	(0)			<0.005	<0.005	
	7/15/2020				<0.005	<0.005	
	8/19/2020	<0.005		<0.005	-0.000	<0.005	
		-0.000		-0.000	<0.005	\0.003	
	8/20/2020		<0.00F		~ 0.005		
	8/21/2020		<0.005		-0.005	-0.005	
	9/22/2020				<0.005	<0.005	
	9/29/2020	<0.005					
	9/30/2020			<0.005		<0.005	
	10/1/2020		<0.005		<0.005		

Constituent: Arsenic (mg/L) Analysis Run 10/19/2023 8:46 AM View: PLs - App I

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-19 (bg)	ARGWC-21	ARGWA-20 (bg)	ARGWC-23	ARGWC-22
2/9/2021	<0.005		<0.005		
2/10/2021		<0.005		<0.005	<0.005
9/7/2021	<0.005				
9/8/2021		<0.005	<0.005		
9/9/2021				<0.005	
9/10/2021					<0.005
2/1/2022	<0.005	<0.005	<0.005		
2/2/2022					<0.005
2/3/2022				0.0003 (J)	
9/1/2022	<0.005	0.00207 (J)			
9/2/2022			<0.005		
9/6/2022				<0.005	<0.005
1/31/2023	<0.005	<0.005		<0.005	0.00221 (J)
2/1/2023			<0.005		
8/8/2023	<0.005			<0.005	<0.005
8/9/2023		<0.005			
8/10/2023			<0.005		

Constituent: Barium (mg/L) Analysis Run 10/19/2023 8:46 AM View: PLs - App I

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-19 (bg)	ARGWC-21	ARGWA-20 (bg)	ARGWC-23	ARGWC-22
5/5/2009	0.057				
5/14/2009		0.034			
5/15/2009			0.1		
12/5/2009	0.05	0.037	0.079		
6/1/2010	0.037		0.077		
6/2/2010		0.037			
11/11/2010	0.039	0.036	0.072		
5/17/2011	0.037	0.032	0.064		
11/8/2011	0.045	0.042	0.07		
5/16/2012	0.0518	0.0451	0.0741		
5/14/2013	0.067	0.043	0.074		
11/5/2013	0.066	0.051	0.075		
6/9/2014	0.062	0.045	0.08		
11/18/2014		0.052	0.078		
11/19/2014	0.054				
4/14/2015	0.046	0.047	0.073		
10/29/2015	0.070	0.047	0.070		
11/4/2015	0.046	0.000	0.077		
6/22/2016	0.046		0.077		
6/23/2016	0.038	0.13	0.070		
	0.04	0.13	0.07		
8/29/2016	0.04	0.11	0.07		
8/30/2016	0.0444	0.11	0.0700		
10/24/2016	0.0444	0.100	0.0738		
10/26/2016	0.045	0.122	0.004		
1/25/2017	0.045	0.12	0.084		
4/10/2017	0.039	0.11	0.073		
6/19/2017	0.041	0.13			
6/20/2017			0.078		
10/24/2017	0.041	0.12	0.081		
4/9/2018			0.081		
4/10/2018	0.044	0.12			
10/16/2018	0.047	0.1	0.08		
3/26/2019	0.056				
3/27/2019		0.091	0.082		
8/20/2019	0.052	0.1	0.079		
10/7/2019	0.049		0.076		
10/8/2019		0.096			
12/16/2019				0.096	0.076
1/14/2020				0.075	0.071
2/11/2020				0.046	0.046
3/9/2020				0.14	0.039
4/6/2020			0.075		
4/7/2020	0.047	0.05		0.16	0.04
5/27/2020				0.18	0.054
7/15/2020				0.16	0.043
8/19/2020	0.044		0.085		0.046
8/20/2020				0.16	
8/21/2020		0.054			
9/22/2020				0.16	0.038
9/29/2020	0.04				
9/30/2020	:		0.08		0.033
10/1/2020		0.051	5.55	0.17	0.000
. 5/ 1/2020		0.001		J	

Constituent: Barium (mg/L) Analysis Run 10/19/2023 8:46 AM View: PLs - App I

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-19 (bg)	ARGWC-21	ARGWA-20 (bg)	ARGWC-23	ARGWC-22
2/9/2021	0.032		0.078		
2/10/2021		0.044		0.13	0.032
9/7/2021	0.03				
9/8/2021		0.045	0.085		
9/9/2021				0.12	
9/10/2021					0.026
2/1/2022	0.031	0.045	0.079		
2/2/2022					0.025
2/3/2022				0.1	
9/1/2022	0.0303	0.0425			
9/2/2022			0.0806		
9/6/2022				0.0939	0.0226
1/31/2023	0.031	0.0414		0.0872	0.0237
2/1/2023			0.0919		
8/8/2023	0.0337			0.0936	0.0255
8/9/2023		0.0474			
8/10/2023			0.107		

Constituent: Lead (mg/L) Analysis Run 10/19/2023 8:46 AM View: PLs - App I
Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ADC:444 12 " :	ADC:4:0 5:	ADOM/A 22 " :	4 POWO 00	ADOMO 00
E /E /0.2.2	ARGWA-19 (bg)	ARGWC-21	ARGWA-20 (bg)	ARGWC-23	ARGWC-22
5/5/2009	<0.002	0.000			
5/14/2009		<0.002			
5/15/2009			<0.002		
12/5/2009	<0.002	<0.002	<0.002		
6/1/2010	<0.002		<0.002		
6/2/2010		<0.002			
11/11/2010	<0.002	<0.002	<0.002		
5/17/2011	<0.002	<0.002	<0.002		
11/8/2011	<0.002	<0.002	<0.002		
5/16/2012	<0.002	<0.002	<0.002		
5/14/2013	<0.002	<0.002	<0.002		
11/5/2013	<0.002	<0.002	<0.002		
6/9/2014	<0.002	<0.002	<0.002		
11/18/2014		<0.002	<0.002		
11/19/2014	<0.002				
4/14/2015	<0.002	<0.002	<0.002		
10/29/2015		<0.002			
11/4/2015	<0.002	-	<0.002		
6/22/2016	<0.002		<0.002		
6/23/2016	-0.002	<0.002	-0.002		
8/29/2016	<0.002	~0.00Z	<0.002		
	NU.UU2	<0.003	~ 0.00∠		
8/30/2016	z0.000	<0.002	<0.000		
10/24/2016	<0.002	<0.000	<0.002		
10/26/2016	-0.000	<0.002	0.00007.11		
1/25/2017	<0.002	<0.002	0.00037 (J)		
4/10/2017	<0.002	<0.002	<0.002		
6/19/2017	<0.002	<0.002			
6/20/2017			<0.002		
10/24/2017	<0.002	<0.002	<0.002		
4/9/2018			<0.002		
4/10/2018	<0.002	<0.002			
10/16/2018	<0.002	<0.002	<0.002		
3/26/2019	<0.002				
3/27/2019		<0.002	<0.002		
8/20/2019	<0.002	<0.002	<0.002		
10/7/2019	0.00018 (J)		0.00014 (J)		
10/8/2019	.,	0.00015 (J)	• •		
12/16/2019		- \-/		<0.002	<0.002
1/14/2020				0.00018 (J)	0.00022 (J)
2/11/2020				0.00016 (J)	<0.002
3/9/2020				<0.002	<0.002
4/6/2020			0.00033 (J)	~U.UUZ	~U.UUZ
	0.0002777	0.00026 (J)	0.00033 (3)	<0.002	0.0001471
4/7/2020	0.00037 (J)	∪.∪∪∪∠ō (J)		<0.002	0.00014 (J)
5/27/2020				<0.002	<0.002
7/15/2020				<0.002	<0.002
8/19/2020	<0.002		0.00039 (J)		<0.002
8/20/2020				<0.002	
8/21/2020		<0.002			
9/22/2020				<0.002	<0.002
9/29/2020	<0.002				
9/30/2020			0.00022 (J)		<0.002
10/1/2020		<0.002		<0.002	

Constituent: Lead (mg/L) Analysis Run 10/19/2023 8:46 AM View: PLs - App I
Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-19 (bg)	ARGWC-21	ARGWA-20 (bg)	ARGWC-23	ARGWC-22
2/9/2021	<0.002		0.00033 (J)		
2/10/2021		<0.002		<0.002	<0.002
9/7/2021	<0.002				
9/8/2021		<0.002	0.00024 (J)		
9/9/2021				<0.002	
9/10/2021					<0.002
2/1/2022	<0.002	<0.002	<0.002		
2/2/2022					<0.002
2/3/2022				<0.002	
9/1/2022	<0.002	<0.002			
9/2/2022			<0.002		
9/6/2022				<0.002	<0.002
1/31/2023	<0.002	<0.002		<0.002	<0.002
2/1/2023			<0.002		
8/8/2023	<0.002			<0.002	<0.002
8/9/2023		<0.002			
8/10/2023			<0.002		

Constituent: Selenium (mg/L) Analysis Run 10/19/2023 8:46 AM View: PLs - App I

Plant Arkwright Client: Southern Company Data: Arkwright No 2

			Flant Arkwright Chent. Southern Company	Data: Arkwright No 2
	ARGWA-19 (bg)	ARGWA-20 (bg)	RGWC-22	
5/5/2009	0.0043			
5/15/2009		0.007 (o)		
12/5/2009	<0.005	<0.005		
6/1/2010	<0.005	<0.005		
11/11/2010	<0.005	<0.005		
5/17/2011	<0.005	<0.005		
11/8/2011	<0.005	<0.005		
5/16/2012	<0.005	0.0024 (J)		
5/14/2013	<0.005	<0.005		
11/5/2013	<0.005	<0.005		
6/9/2014	<0.005	<0.005		
11/18/2014		<0.005		
11/19/2014	<0.005			
4/14/2015	<0.005	<0.005		
11/4/2015	<0.005	<0.005		
6/22/2016	0.00025 (J)	0.0019		
8/29/2016	0.0004 (J)	0.0019		
10/24/2016	<0.005	0.0023 (J)		
1/25/2017	<0.005	0.0015		
4/10/2017	<0.005	0.0011 (J)		
6/19/2017	0.00025 (J)	(1)		
6/20/2017	(-,	0.0016		
10/24/2017	<0.005	0.0012 (J)		
4/9/2018		0.0012 (J)		
4/10/2018	0.00074 (J)	(0)		
10/16/2018	<0.005	0.0015		
3/26/2019	<0.005			
3/27/2019		0.0015		
8/20/2019	<0.005	0.0015 (J)		
10/7/2019	<0.005	0.0016 (J)		
12/16/2019	0.000	0.00.0 (0)	0.005	
1/14/2020			0.005	
2/11/2020			0.005	
3/9/2020			0.005	
4/6/2020		0.0017 (J)		
4/7/2020	<0.005	(5)	0.005	
5/27/2020			0.005	
7/15/2020			0.005	
8/19/2020	<0.005	0.0015 (J)	0.005	
9/22/2020		(1)	0.005	
9/29/2020	<0.005			
9/30/2020		0.0016 (J)	0.005	
2/9/2021	<0.005	0.0016 (J)		
2/10/2021		(1)	0.005	
9/7/2021	<0.005			
9/8/2021		<0.005		
9/10/2021			.002 (J)	
2/1/2022	<0.005	0.0015 (J)	`,	
2/2/2022	y	(3)	0.005	
9/1/2022	<0.005			
9/2/2022	y	<0.005		
9/6/2022		-	0.005	

Constituent: Selenium (mg/L) Analysis Run 10/19/2023 8:46 AM View: PLs - App I

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-19 (bg)	ARGWA-20 (bg)	ARGWC-22
1/31/2023	<0.005		<0.005
2/1/2023		<0.005	
8/8/2023	<0.005		<0.005
8/10/2023		<0.005	

Constituent: Silver (mg/L) Analysis Run 10/19/2023 8:46 AM View: PLs - App I

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-19 (bg)	ARGWC-21	ARGWA-20 (bg)		
5/5/2009	<0.001				
5/14/2009		<0.001			
5/15/2009			<0.001		
12/5/2009	0.00075	0.001	0.00043		
6/1/2010	<0.001		<0.001		
6/2/2010		<0.001			
11/11/2010	<0.001	<0.001	<0.001		
5/17/2011	<0.001	<0.001	<0.001		
11/8/2011	<0.001	<0.001	<0.001		
5/16/2012	<0.001	<0.001	<0.001		
5/14/2013	<0.001	<0.001	<0.001		
11/5/2013	<0.001	<0.001	<0.001		
6/9/2014	<0.001	<0.001	<0.001		
11/18/2014		<0.001	<0.001		
11/19/2014	<0.001				
4/14/2015	<0.001	<0.001	<0.001		
10/29/2015		<0.001			
11/4/2015	<0.001		<0.001		
6/22/2016	<0.001		<0.001		
6/23/2016		<0.001			
10/24/2016	<0.001		<0.001		
10/26/2016		<0.001			
4/10/2017	<0.001	<0.001	<0.001		
10/24/2017	<0.001	<0.001	<0.001		
4/9/2018			<0.001		
4/10/2018	<0.001	<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	0.00056 (J)		0.00031 (J)		
10/8/2019		0.00043 (J)			
4/6/2020			<0.001		
4/7/2020	0.00018 (J)	<0.001			
9/29/2020	<0.001				
9/30/2020			<0.001		
10/1/2020		<0.001			
2/9/2021	<0.001		<0.001		
2/10/2021		<0.001			
9/7/2021	<0.001				
9/8/2021		<0.001	<0.001		
2/1/2022	<0.001	<0.001	<0.001		
9/1/2022	<0.001	<0.001			
9/2/2022			<0.001		
1/31/2023	<0.001	<0.001			
2/1/2023			<0.001		
8/8/2023	<0.001				
8/9/2023		<0.001			
8/10/2023			<0.001		

FIGURE E.

Interwell Prediction Limits - Appendix III - Significant Results

		Plant Arkwright Client: Southern Company		Data: Arkv	vright No 2 Pr	inted 10/13/20	23, 11:	32 AM					
Constituent	Well	Upper Lim.	Lower Lim.	<u>Date</u>	Observ.	Sig. Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transforn	<u>Alpha</u>	Method
Boron (mg/L)	ARGWC-21	0.092	n/a	8/9/2023	1.12	Yes 38	n/a	n/a	28.95	n/a	n/a	0.001277	NP Inter (normality) 1 of 2
Boron (mg/L)	ARGWC-22	0.092	n/a	8/8/2023	3.06	Yes 38	n/a	n/a	28.95	n/a	n/a	0.001277	NP Inter (normality) 1 of 2
Boron (mg/L)	ARGWC-23	0.092	n/a	8/8/2023	0.379	Yes 38	n/a	n/a	28.95	n/a	n/a	0.001277	NP Inter (normality) 1 of 2
Calcium (mg/L)	ARGWC-21	13.99	n/a	8/9/2023	82.9	Yes 38	3.222	0.2948	0	None	sqrt(x)	0.002505	Param Inter 1 of 2
Calcium (mg/L)	ARGWC-22	13.99	n/a	8/8/2023	196	Yes 38	3.222	0.2948	0	None	sqrt(x)	0.002505	Param Inter 1 of 2
Calcium (mg/L)	ARGWC-23	13.99	n/a	8/8/2023	66.6	Yes 38	3.222	0.2948	0	None	sqrt(x)	0.002505	Param Inter 1 of 2
Fluoride (mg/L)	ARGWC-21	0.148	n/a	8/9/2023	0.203	Yes 42	n/a	n/a	45.24	n/a	n/a	0.001066	NP Inter (normality) 1 of 2
Fluoride (mg/L)	ARGWC-23	0.148	n/a	8/8/2023	0.283	Yes 42	n/a	n/a	45.24	n/a	n/a	0.001066	NP Inter (normality) 1 of 2
pH (SU)	ARGWC-21	6.085	5.388	8/9/2023	6.6	Yes 41	5.737	0.1994	0	None	No	0.001253	Param Inter 1 of 2
pH (SU)	ARGWC-23	6.085	5.388	8/8/2023	6.33	Yes 41	5.737	0.1994	0	None	No	0.001253	Param Inter 1 of 2
Sulfate (mg/L)	ARGWC-21	21	n/a	8/9/2023	214	Yes 63	n/a	n/a	0	n/a	n/a	0.0004845	NP Inter (normality) 1 of 2
Sulfate (mg/L)	ARGWC-22	21	n/a	8/8/2023	719	Yes 63	n/a	n/a	0	n/a	n/a	0.0004845	NP Inter (normality) 1 of 2
Sulfate (mg/L)	ARGWC-23	21	n/a	8/8/2023	69.8	Yes 63	n/a	n/a	0	n/a	n/a	0.0004845	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	ARGWC-21	143.5	n/a	8/9/2023	520	Yes 36	105.8	21.33	0	None	No	0.002505	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	ARGWC-22	143.5	n/a	8/8/2023	1220	Yes 36	105.8	21.33	0	None	No	0.002505	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	ARGWC-23	143.5	n/a	8/8/2023	294	Yes 36	105.8	21.33	0	None	No	0.002505	Param Inter 1 of 2

Interwell Prediction Limits - Appendix III - All Results

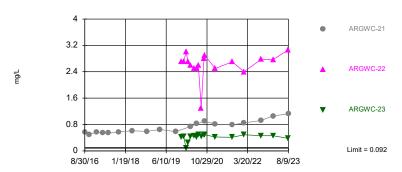
	Plant Arkwright Client: Southern Compar		n Company	Data: Arkwright No 2 Printed 10/1				Printed 10/13/2023, 11:32 AM						
Constituent	Well	Upper Lim.	Lower Lin	n. Date	Observ.	Sig. Bg I	N Bg Mean		Std. Dev.	%NDs	ND Adj.	Transfor	m Alpha	Method
Boron (mg/L)	ARGWC-21	0.092	n/a	8/9/2023	1.12	Yes 38	n/a		n/a	28.95	n/a	n/a	0.001277	NP Inter (normality) 1 of 2
Boron (mg/L)	ARGWC-22	0.092	n/a	8/8/2023	3.06	Yes 38	n/a		n/a	28.95	n/a	n/a	0.001277	NP Inter (normality) 1 of 2
Boron (mg/L)	ARGWC-23	0.092	n/a	8/8/2023	0.379	Yes 38	n/a		n/a	28.95	n/a	n/a	0.001277	NP Inter (normality) 1 of 2
Calcium (mg/L)	ARGWC-21	13.99	n/a	8/9/2023	82.9	Yes 38	3.222		0.2948	0	None	sqrt(x)	0.002505	Param Inter 1 of 2
Calcium (mg/L)	ARGWC-22	13.99	n/a	8/8/2023	196	Yes 38	3.222		0.2948	0	None	sqrt(x)	0.002505	Param Inter 1 of 2
Calcium (mg/L)	ARGWC-23	13.99	n/a	8/8/2023	66.6	Yes 38	3.222		0.2948	0	None	sqrt(x)	0.002505	Param Inter 1 of 2
Chloride (mg/L)	ARGWC-21	16.2	n/a	8/9/2023	3.35	No 64	n/a		n/a	0	n/a	n/a	0.0004709	NP Inter (normality) 1 of 2
Chloride (mg/L)	ARGWC-22	16.2	n/a	8/8/2023	6.79	No 64	n/a		n/a	0	n/a	n/a	0.0004709	NP Inter (normality) 1 of 2
Chloride (mg/L)	ARGWC-23	16.2	n/a	8/8/2023	3.6	No 64	n/a		n/a	0	n/a	n/a	0.0004709	NP Inter (normality) 1 of 2
Fluoride (mg/L)	ARGWC-21	0.148	n/a	8/9/2023	0.203	Yes 42	n/a		n/a	45.24	n/a	n/a	0.001066	NP Inter (normality) 1 of 2
Fluoride (mg/L)	ARGWC-22	0.148	n/a	8/8/2023	0.1ND	No 42	n/a		n/a	45.24	n/a	n/a	0.001066	NP Inter (normality) 1 of 2
Fluoride (mg/L)	ARGWC-23	0.148	n/a	8/8/2023	0.283	Yes 42	n/a		n/a	45.24	n/a	n/a	0.001066	NP Inter (normality) 1 of 2
pH (SU)	ARGWC-21	6.085	5.388	8/9/2023	6.6	Yes 41	5.737		0.1994	0	None	No	0.001253	Param Inter 1 of 2
pH (SU)	ARGWC-22	6.085	5.388	8/8/2023	5.61	No 41	5.737		0.1994	0	None	No	0.001253	Param Inter 1 of 2
pH (SU)	ARGWC-23	6.085	5.388	8/8/2023	6.33	Yes 41	5.737		0.1994	0	None	No	0.001253	Param Inter 1 of 2
Sulfate (mg/L)	ARGWC-21	21	n/a	8/9/2023	214	Yes 63	n/a		n/a	0	n/a	n/a	0.0004845	NP Inter (normality) 1 of 2
Sulfate (mg/L)	ARGWC-22	21	n/a	8/8/2023	719	Yes 63	n/a		n/a	0	n/a	n/a	0.0004845	NP Inter (normality) 1 of 2
Sulfate (mg/L)	ARGWC-23	21	n/a	8/8/2023	69.8	Yes 63	n/a		n/a	0	n/a	n/a	0.0004845	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	ARGWC-21	143.5	n/a	8/9/2023	520	Yes 36	105.8		21.33	0	None	No	0.002505	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	ARGWC-22	143.5	n/a	8/8/2023	1220	Yes 36	105.8		21.33	0	None	No	0.002505	Param Inter 1 of 2
Total Dissolved Solids (mg/l)	ARGWC-23	143 5	n/a	8/8/2023	294	Yes 36	105.8		21 33	0	None	No	0.002505	Param Inter 1 of 2

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Exceeds Limit: ARGWC-21, ARGWC-22, ARGWC-23

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 38 background values. 28.95% NDs. Annual perconstituent alpha = 0.00764. Individual comparison alpha = 0.001277 (1 of 2). Comparing 3 points to limit.

Constituent: Boron Analysis Run 10/13/2023 11:10 AM View: PL's App III
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Prediction Limit

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Within Limit

Interwell Non-parametric

20
16
12
ARGWC-21

ARGWC-22

ARGWC-23

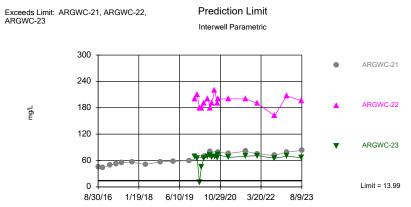
5/14/09 3/19/12 1/23/15 11/28/17 10/3/20

Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 64 background values. Annual per-constituent alpha = 0.002822. Individual comparison alpha = 0.004709 (1 of 2). Comparing 3 points to limit.

Limit = 16.2

8/9/23

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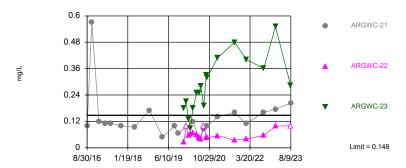
Background Data Summary (based on square root transformation): Mean=3.222, Std. Dev.=0.2948, n=38. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9262, critical = 0.916. Kappa = 1.758 (c=7, w=3, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.002505. Comparing 3 points to limit.

Constituent: Calcium Analysis Run 10/13/2023 11:10 AM View: PL's App III
Plant Arkwright Client: Southern Company Data: Arkwright No 2

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Exceeds Limit: ARGWC-21, ARGWC-23

Prediction Limit
Interwell Non-parametric

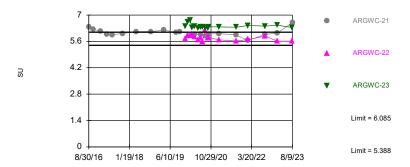


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 42 background values. 45.24% NDs. Annual perconstituent alpha = 0.006378. Individual comparison alpha = 0.001066 (1 of 2). Comparing 3 points to limit.

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Exceeds Limits: ARGWC-21, ARGWC-23

Prediction Limit
Interwell Parametric



Background Data Summary: Mean=5.737, Std. Dev.=0.1994, n=41. Normality test: Shapiro Wilk @alpha = 0.01, culculated = 0.9719, critical = 0.92. Kappa = 1.747 (c=7, w=3, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.001253. Comparing 3 points to limit.

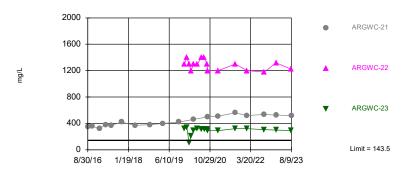
Constituent: pH Analysis Run 10/13/2023 11:11 AM View: PL's App III

Plant Arkwright Client: Southern Company Data: Arkwright No 2

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Exceeds Limit: ARGWC-21, ARGWC-22, ARGWC-23

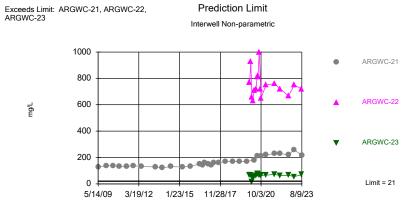
Prediction Limit
Interwell Parametric



Background Data Summary: Mean=105.8, Std. Dev.=21.33, n=36. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9602, critical = 0.912. Kappa = 1.766 (c=7, w=3, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.002505. Comparing 3 points to limit.

Constituent: Total Dissolved Solids Analysis Run 10/13/2023 11:11 AM View: PL's App III
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Sanitas™ v.10.0.06 Software licensed to Groundwater Stats Consulting. UG



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 63 background values. Annual per-constituent alpha = 0.002904. Individual comparison alpha = 0.0024845 (1 of 2). Comparing 3 points to limit.

Constituent: Sulfate Analysis Run 10/13/2023 11:11 AM View: PL's App III
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Constituent: Boron (mg/L) Analysis Run 10/13/2023 11:32 AM View: PL's App III
Plant Arkwright Client: Southern Company Data: Arkwright No 2

				3	,
	ARGWA-19 (bg)	ARGWA-20 (bg)	ARGWC-21	ARGWC-23	ARGWC-22
8/29/2016	0.024 (J)	<0.08			
8/30/2016			0.57		
10/24/2016	0.0339 (J)	0.0194 (J)			
10/26/2016			0.502		
1/25/2017	0.048 (J)	0.026 (J)	0.56		
4/10/2017	0.022 (J)	<0.08	0.54		
6/19/2017	<0.08		0.54		
6/20/2017		0.032 (J)			
10/24/2017	0.021 (J)	0.054	0.57		
4/9/2018		0.06			
4/10/2018	0.022 (J)		0.61		
10/16/2018	<0.08	0.036 (J)	0.59		
3/26/2019	<0.08				
3/27/2019		0.046 (J)	0.65		
10/7/2019	<0.08	<0.08			
10/8/2019			0.58		
12/16/2019				0.42	2.7
1/14/2020				0.43	2.7
2/11/2020				0.079 (J)	3
3/9/2020				0.25	2.7
4/6/2020		0.063 (J)			
4/7/2020	0.072 (J)		0.74	0.44	2.6
5/27/2020				0.45	2.5
6/24/2020					2.5
6/25/2020	0.091	0.081	0.82	0.42	
7/15/2020				0.49	2.6
8/19/2020					1.3
8/20/2020				0.44	
9/22/2020				0.5	2.8
9/29/2020	<0.08				
9/30/2020		0.083			2.9
10/1/2020			0.9	0.49	
2/9/2021	<0.08	0.059 (J)			
2/10/2021			0.81	0.42	2.5
9/7/2021	<0.08				
9/8/2021		0.064 (J)	0.79		
9/9/2021				0.41	
9/10/2021					2.7
2/1/2022	0.092	<0.08	0.85		
2/2/2022					2.4
2/3/2022				0.49	
9/1/2022	0.0238		0.921		
9/2/2022		0.0597			
9/6/2022				0.458	2.78
1/31/2023	0.0234		1.06	0.459	2.77
2/1/2023		0.0816			
8/8/2023	0.0199			0.379	3.06
8/9/2023			1.12		
8/10/2023		0.0714			

Constituent: Calcium (mg/L) Analysis Run 10/13/2023 11:32 AM View: PL's App III
Plant Arkwright Client: Southern Company Data: Arkwright No 2

				3	3
	ARGWA-19 (bg)	ARGWA-20 (bg)	ARGWC-21	ARGWC-23	ARGWC-22
8/29/2016	11	8.3			
8/30/2016			46		
10/24/2016	11.5	7.66			
10/26/2016			44.3		
1/25/2017	13	9.4	50		
4/10/2017	11	8.6	52		
6/19/2017	12		55		
6/20/2017		9.4			
10/24/2017	12	9.9	56		
4/9/2018		9.9			
4/10/2018	12		51		
10/16/2018	14	9.8	57		
3/26/2019	15				
3/27/2019		9.2	58		
10/7/2019	14	8.9			
10/8/2019			60		
12/16/2019				69	200
1/14/2020				65	210
2/11/2020				10	180
3/9/2020				46	180
4/6/2020		9.5			
4/7/2020	14		69	65	190
5/27/2020				69	200
6/24/2020					180
6/25/2020	14	9.6	80	72	
7/15/2020				68	190
8/19/2020					220
8/20/2020				69	
9/22/2020				66	190
9/29/2020	12			00	
9/30/2020	12	9.9			200
10/1/2020		3.3	79	73	200
	0.7	9.2	19	73	
2/9/2021	9.7	3.2	76	67	200
2/10/2021	0.2		76	67	200
9/7/2021	9.2	11	0.1		
9/8/2021		11	81	70	
9/9/2021				70	200
9/10/2021	0	0.0	75		200
2/1/2022	8	8.3	75		100
2/2/2022					190
2/3/2022				71	
9/1/2022	8.52		71.5		
9/2/2022		9.48			
9/6/2022				65.2	162
1/31/2023	8.5		79.1	69.9	207
2/1/2023		10.8			
8/8/2023	8.51			66.6	196
8/9/2023			82.9		
8/10/2023		11			

Constituent: Chloride (mg/L) Analysis Run 10/13/2023 11:32 AM View: PL's App III
Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-19 (bg)	ARGWC-21	ARGWA-20 (bg)	ARGWC-22	ARGWC-23
5/5/2009	11.1				
5/14/2009		6.38			
5/15/2009			6.86		
12/5/2009	9.46	6.28	5.06		
6/1/2010	6.32		5.47		
6/2/2010		6.1			
11/11/2010	7.16	6.1461	5.26		
5/17/2011	6.84	6.17	4.8		
11/8/2011	9.13	6.6	5.62		
5/16/2012	10.8	6.18	5.1		
5/14/2013	16.2	6.32	5.25		
11/5/2013	14.8	5.65	5.19		
6/9/2014	13.6	6.08	5.55		
4/14/2015	10.4	5.43	5.39		
10/29/2015		5.62			
11/4/2015	9.19		5.38		
6/22/2016	8.4		5.7		
6/23/2016		5.9			
8/29/2016	8.4		5.3		
8/30/2016		5.5			
10/24/2016	9.6		5.4		
10/26/2016		6			
1/25/2017	8.7	5.4	5.1		
4/10/2017	8	5.1	4.9		
6/19/2017	7.6	5.2			
6/20/2017			5		
10/24/2017	7.2	4.9	4.6		
4/9/2018			4.7		
4/10/2018	7.2	4.8			
10/16/2018	10	5.1	5.3		
3/26/2019	12				
3/27/2019		4.4	4.6		
10/7/2019	11		5.2		
10/8/2019		4.5		F 0	
12/16/2019				5.8	3.9
1/14/2020				5.5	4
2/11/2020				9	4.7
3/9/2020			E 2	11	3.7
4/6/2020 4/7/2020	11	4.2	5.2	8.1	3.8
	11	4.2		8.1 7.3	
5/27/2020 6/24/2020				7.3 5.7	4
6/25/2020	11	3.7	5.1	3.7	3.4
	11	3.1	J. I	6	
7/15/2020 8/19/2020				6 5.7	3.9
8/19/2020				3.7	3.9
				7.1	
9/22/2020 9/29/2020	10			7.1	3.6
9/30/2020	10		5.6	8	
10/1/2020		4.3	5.0	o	3.8
	8.6	4.3	6		J.U
2/9/2021 2/10/2021	8.6	4.3	6	7.4	4.6
ZI 1UIZUZ I		4.3		7.4	4.U

Constituent: Chloride (mg/L) Analysis Run 10/13/2023 11:32 AM View: PL's App III
Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-19 (bg)	ARGWC-21	ARGWA-20 (bg)	ARGWC-22	ARGWC-23	
9/7/2021	7.4					
9/8/2021		4	5.9			
9/9/2021					4.7	
9/10/2021				6.7		
2/1/2022	6.8	3.4	5.7			
2/2/2022				6.3		
2/3/2022					4.4	
9/1/2022	6.27	3.34				
9/2/2022			5.44			
9/6/2022				8.34	3.73	
1/31/2023	6.04	3.3		5.88	3.84	
2/1/2023			6			
8/8/2023	6.37			6.79	3.6	
8/9/2023		3.35				
8/10/2023			6.5			

Constituent: Fluoride (mg/L) Analysis Run 10/13/2023 11:32 AM View: PL's App III
Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-19 (bg)	ARGWA-20 (bg)	ARGWC-21	ARGWC-23	ARGWC-22
8/29/2016	<0.1	<0.1			
8/30/2016			0.099 (J)		
10/24/2016	0.07 (J)	0.04 (J)			
10/26/2016			0.57		
1/25/2017	<0.1	<0.1	0.12 (J)		
4/10/2017	<0.1	<0.1	0.11 (J)		
6/19/2017	<0.1		0.11 (J)		
6/20/2017		<0.1			
10/24/2017	<0.1	<0.1	0.1 (J)		
4/9/2018		<0.1			
4/10/2018	<0.1		0.094 (J)		
10/16/2018		<0.1	0.17 (J)		
3/26/2019	0.041 (J)		. ,		
3/27/2019		<0.1	0.05 (J)		
8/20/2019	0.045 (J)	0.042 (J)	0.098 (J)		
			J.U30 (J)		
10/7/2019	0.049 (J)	0.036 (J)	0.065 / 1)		
10/8/2019			0.065 (J)	0.40 (1)	0.000 (1)
12/16/2019				0.18 (J)	0.026 (J)
1/14/2020				0.21	<0.1
2/11/2020				0.13	0.056
3/9/2020				0.089 (J)	0.064 (J)
4/6/2020		0.059 (J)			
4/7/2020	0.14		0.12	0.18	0.068 (J)
5/27/2020				0.25	0.06 (J)
6/24/2020					0.048 (J)
6/25/2020	0.03 (J)	<0.1	0.041 (J)	0.25	
7/15/2020				0.28	0.04 (J)
8/19/2020	<0.1	<0.1			<0.1
8/20/2020	-	-		0.19	-
8/21/2020			0.084 (J)	55	
9/22/2020			0.004 (3)	0.33	0.049 (J)
	0.051 / 1)			0.55	0.043 (0)
9/29/2020	0.051 (J)	0.000 ("			0.045 (1)
9/30/2020		0.032 (J)			0.045 (J)
10/1/2020			0.098 (J)	0.32	
2/9/2021	0.059 (J)	0.048 (J)			
2/10/2021			0.14	0.41	0.055 (J)
9/7/2021	0.1				
9/8/2021		0.067 (J)	0.16		
9/9/2021				0.48	
9/10/2021					0.035 (J)
2/1/2022	0.076 (J)	0.028 (J)	0.11		
2/2/2022					0.04 (J)
2/3/2022				0.4	
9/1/2022	0.148		0.161		
9/2/2022	-	0.122			
9/6/2022				0.362	0.056 (J)
1/31/2023	0.108 / 1\		0.175 (J)	0.552 0.551 (J)	0.0979 (J)
	0.108 (J)	0.121	0.175 (3)	0.551 (3)	0.0373 (3)
2/1/2023	-0.1	0.121		0.202	-0.1
8/8/2023	<0.1			0.283	<0.1
8/9/2023			0.203		
8/10/2023		<0.1			

Constituent: pH (SU) Analysis Run 10/13/2023 11:32 AM View: PL's App III
Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-20 (bg)	ARGWC-21	ARGWA-19 (bg)	ARGWC-23	ARGWC-22
8/29/2016	5.64		6.75 (o)		
8/30/2016		6.38			
10/24/2016	5.6		5.81		
10/26/2016		6.23			
1/25/2017	5.65	6.15	5.91		
4/10/2017	5.42	5.99	5.74		
6/19/2017		5.95	5.54		
6/20/2017	5.59	0.00	0.01		
10/24/2017	5.58	6.02	5.82		
4/9/2018	5.78	0.02	5.62		
	3.76	6.10	F 02		
4/10/2018	5.00	6.12	5.92		
10/16/2018	5.69	6.12	5.94		
3/26/2019			5.85		
3/27/2019	5.96	6.2			
8/20/2019	5.57	6.08	5.9		
10/7/2019	5.65		5.89		
10/8/2019		6.11			
12/16/2019				6.41	5.74
1/14/2020				6.62	5.91
2/11/2020				6.71	5.9
3/9/2020				6.32	5.97
4/6/2020	5.53				
4/7/2020		5.96	5.72	6.4	5.84
5/27/2020				6.3	5.69
6/24/2020					5.82
6/25/2020	5.61	5.98	5.8	6.37	
7/15/2020				6.36	5.58
8/19/2020	6.16		6.25		6.21
8/20/2020				6.33	
8/21/2020		5.89			
9/22/2020		0.00		6.29	5.77
9/29/2020			5.83	0.23	6.77
	E 6E		5.65		E 01
9/30/2020	5.65	E 00		6 20	5.81
10/1/2020	E 66	5.99	5.07	6.38	
2/9/2021	5.66	6.01	5.97	6.27	F C0
2/10/2021		6.01	5.05	6.37	5.68
9/7/2021	5.50	5.04	5.85		
9/8/2021	5.59	5.94			
9/9/2021				6.35	
9/10/2021					5.62
2/1/2022	5.14	5.65	5.52		
2/2/2022					5.7
2/3/2022				6.44	
9/1/2022		5.97	5.88		
9/2/2022	5.68				
9/6/2022				6.41	5.88
1/31/2023		6.04	5.86	6.46	5.61
2/1/2023	5.7				
8/8/2023			5.81	6.33	5.61
8/9/2023		6.6			
8/10/2023	5.55				

 $\label{lem:constituent: Sulfate (mg/L)} Constituent: Sulfate (mg/L) \quad Analysis Run \ 10/13/2023 \ 11:32 \ AM \quad View: PL's \ App \ III \\ Plant Arkwright \quad Client: Southern Company \quad Data: Arkwright \ No \ 2$

	ARGWA-19 (bg)	ARGWC-21	ARGWA-20 (bg)	ARGWC-23	ARGWC-22
5/5/2009	15.9				
5/14/2009		129			
5/15/2009			41.3 (o)		
12/5/2009	15.1	136	16.2		
6/1/2010	12.7		18.2		
6/2/2010		138			
11/11/2010	11.5	131.49	16.5		
5/17/2011	11.2	132	16		
11/8/2011	11.3	138	21		
5/16/2012	9.38	132	17.7		
5/14/2013	8.74	129	19.5		
11/5/2013	9.12	122	18.3		
6/9/2014	8.61	131	18.6		
4/14/2015	8.45	128	18.8		
10/29/2015	0.40	134	10.0		
11/4/2015	9.01	154	17.4		
6/22/2016	9.01		17.4		
6/23/2016	5.5	150	10		
	9.7	130	10		
8/29/2016 8/30/2016	8.7	140	18		
	0.2	140	10		
10/24/2016	9.3	100	18		
10/26/2016		160	10		
1/25/2017	8.8	150	19		
4/10/2017	7.8	140	16		
6/19/2017	8.6	160			
6/20/2017	0.4	100	18		
10/24/2017	9.1	160	19		
4/9/2018			18		
4/10/2018	7.9	170			
10/16/2018	8.2	170	18		
3/26/2019	6.1				
3/27/2019		170	15		
10/7/2019	7.4		17		
10/8/2019		170			
12/16/2019				66	770
1/14/2020				68	930
2/11/2020				18	660
3/9/2020				49	630
4/6/2020			15		
4/7/2020	8.4	180		58	710
5/27/2020				65	720
6/24/2020					810
6/25/2020	9.8	210	16	77	
7/15/2020				78	820
8/19/2020					1000
8/20/2020				69	
9/22/2020				68	720
9/29/2020	8.4				
9/30/2020			15		650
10/1/2020		210		64	
2/9/2021	10		16		
2/10/2021		220		67	750

 $\label{lem:constituent: Sulfate (mg/L)} Constituent: Sulfate (mg/L) \quad Analysis Run \ 10/13/2023 \ 11:32 \ AM \quad View: PL's \ App \ III \\ Plant Arkwright \quad Client: Southern Company \quad Data: Arkwright \ No \ 2$

ARGWA-19 (bg)	ARGWC-21	ARGWA-20 (bg)	ARGWC-23	ARGWC-22
9.9		(0,		
	230	16		
			72	
				760
10	230	18		
				720
			64	
8.38	221			
		18.5		
			65.3	667
7.55	260		55.5	751
		19.3		
8.29			69.8	719
	214			
		18.5		
	10 8.38 7.55	9.9 230 10 230 8.38 221 7.55 260 8.29	9.9 230 16 10 230 18 8.38 221 18.5 7.55 260 19.3 8.29 214	9.9 230 16 72 10 230 18 8.38 221 18.5 65.3 7.55 260 55.5 19.3 8.29 69.8

 $\label{local_constituent: Total Dissolved Solids (mg/L) Analysis Run 10/13/2023 11:32 AM \quad View: PL's App III \\ Plant Arkwright \quad Client: Southern Company \quad Data: Arkwright No 2$

						. ,
	A	ARGWA-19 (bg)	ARGWA-20 (bg)	ARGWC-21	ARGWC-23	ARGWC-22
8/29/20		130	100			
8/30/20)16			350		
10/24/2	2016 1	108	91			
10/26/2	2016			357		
1/25/20	017 1	120	90	320		
4/10/20	017 1	128 (D)	110	380		
6/19/20)17 8	36		370		
6/20/20)17		72			
10/24/2	2017 1	120	110	420		
4/9/201	18		100			
4/10/20)18 1	120		370		
10/16/2	2018 1	140	110	380		
3/26/20)19 1	170				
3/27/20)19		100	400		
10/7/20	019 1	150	87			
10/8/20)19			420		
12/16/2	2019				320	1300
1/14/20)20				340	1400
2/11/20)20				110	1300
3/9/202					210	1200
4/6/202			90			
4/7/202	20 1	120		460	290	1300
5/27/20					320	1300
7/15/20)20				310	1400
8/19/20						1400
8/20/20	020				310	
9/22/20)20				310	1300
9/29/20	020 1	110				
9/30/20)20		82			1200
10/1/20				500	290	
2/9/202		110	100			
2/10/20)21			510	290	1200
9/7/202		110				
9/8/202			120	560		
9/9/202					320	
9/10/20						1300
2/1/202		91	100	520		
2/2/202						1200
2/3/202					320	
9/1/202		31		537		
9/2/202			101			
9/6/202					305	1180
1/31/20		95		526	299	1320
2/1/202			90			
8/8/202		62			294	1220
8/9/202				520		
8/10/20			105			
	-		-			

FIGURE F.

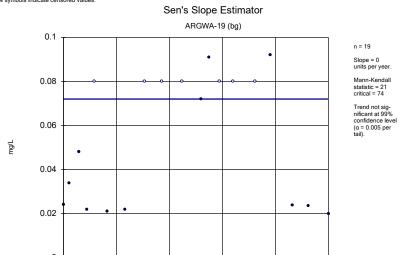
Trend Tests - Prediction Limit Exceedances - Significant Results

	Plant Arkwright	Client: Southern Company	Data: Ar	kwright No 2	Print	ed 10/13	/2023, 1	1:49 AM			
Constituent	Well	Slope	Calc.	Critical	Sig.	<u>N</u>	%NDs	Normality	<u>Xform</u>	<u>Alpha</u>	Method
Boron (mg/L)	ARGWC-21	0.0716	137	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	ARGWC-21	5.478	135	74	Yes	19	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	ARGWC-23	0.1263	88	63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	ARGWA-19 (bg)	-0.2188	-217	-161	Yes	32	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	ARGWC-21	8.273	378	161	Yes	32	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	ARGWC-21	31.32	121	68	Yes	18	0	n/a	n/a	0.01	NP

Trend Tests - Prediction Limit Exceedances - All Results

	Plant Arkwright	Client: Southern Company	Data: Ar	kwright No 2	Print	ed 10/13	/2023, 1 ⁻	1:50 AM			
Constituent	Well	Slope	Calc.	Critical	Sig.	<u>N</u>	%NDs	Normality	Xform	<u>Alpha</u>	Method
Boron (mg/L)	ARGWA-19 (bg)	0	21	74	No	19	36.84	n/a	n/a	0.01	NP
Boron (mg/L)	ARGWA-20 (bg)	0.005321	65	74	No	19	21.05	n/a	n/a	0.01	NP
Boron (mg/L)	ARGWC-21	0.0716	137	74	Yes	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	ARGWC-22	0	8	63	No	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	ARGWC-23	0.01446	29	63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	ARGWA-19 (bg)	-0.4773	-48	-74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	ARGWA-20 (bg)	0.249	64	74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	ARGWC-21	5.478	135	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	ARGWC-22	0	7	63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	ARGWC-23	1.41	34	63	No	17	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	ARGWA-19 (bg)	0	14	87	No	21	38.1	n/a	n/a	0.01	NP
Fluoride (mg/L)	ARGWA-20 (bg)	0	-9	-87	No	21	52.38	n/a	n/a	0.01	NP
Fluoride (mg/L)	ARGWC-21	0.007085	33	87	No	21	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	ARGWC-23	0.1263	88	63	Yes	17	0	n/a	n/a	0.01	NP
pH (SU)	ARGWA-19 (bg)	0.002899	4	81	No	20	0	n/a	n/a	0.01	NP
pH (SU)	ARGWA-20 (bg)	0.002459	8	87	No	21	0	n/a	n/a	0.01	NP
pH (SU)	ARGWC-21	-0.03265	-66	-87	No	21	0	n/a	n/a	0.01	NP
pH (SU)	ARGWC-23	-0.01164	-9	-63	No	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	ARGWA-19 (bg)	-0.2188	-217	-161	Yes	32	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	ARGWA-20 (bg)	-0.01894	-47	-152	No	31	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	ARGWC-21	8.273	378	161	Yes	32	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	ARGWC-22	-0.5044	-7	-63	No	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	ARGWC-23	0.9535	14	63	No	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	ARGWA-19 (bg)	-5.194	-60	-68	No	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	ARGWA-20 (bg)	0	11	68	No	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	ARGWC-21	31.32	121	68	Yes	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	ARGWC-22	-17.34	-30	-58	No	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	ARGWC-23	0	-6	-58	No	16	0	n/a	n/a	0.01	NP

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Plant Arkwright Client: Southern Company Data: Arkwright No 2

10/28/20

3/19/22

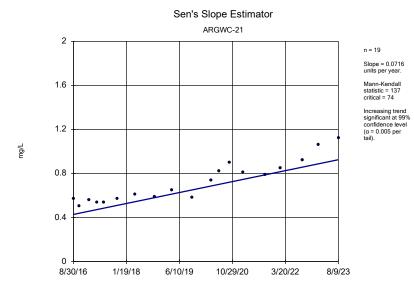
8/8/23

6/9/19

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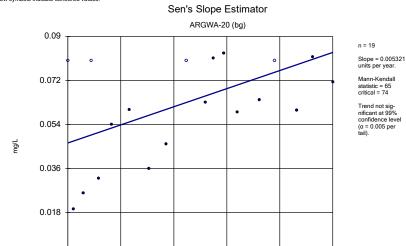
8/29/16

1/18/18



Constituent: Boron Analysis Run 10/13/2023 11:44 AM View: Trend Tests
Plant Arkwright Client: Southern Company Data: Arkwright No 2

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Plant Arkwright Client: Southern Company Data: Arkwright No 2

10/29/20

3/20/22

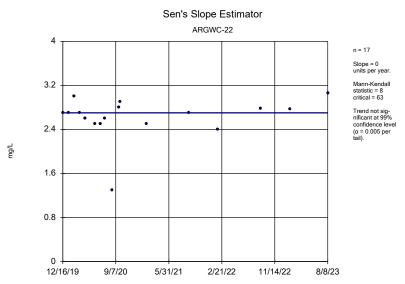
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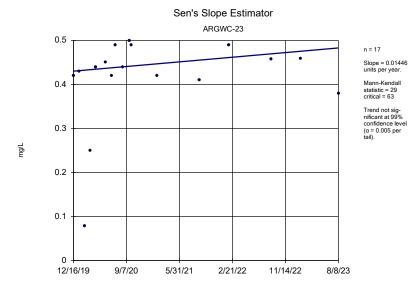
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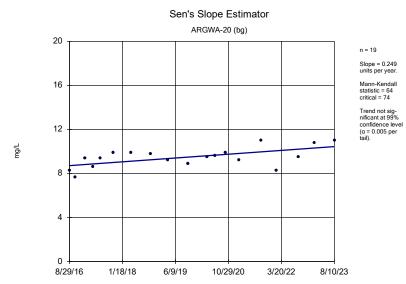
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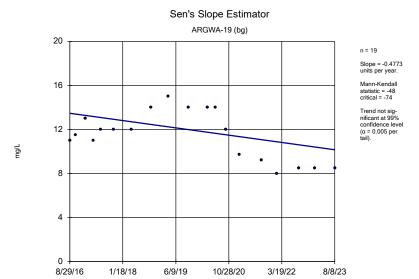
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Plant Arkwright Client: Southern Company Data: Arkwright No 2

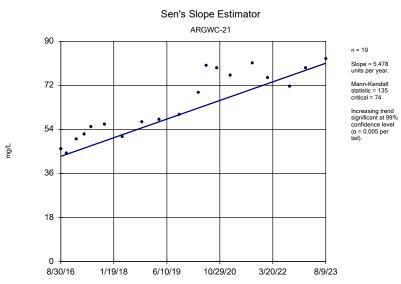


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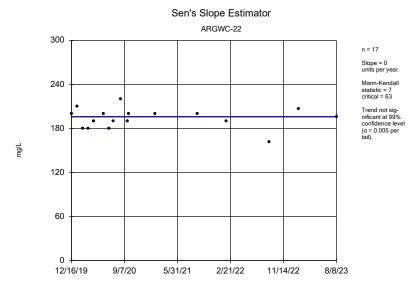


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Plant Arkwright Client: Southern Company Data: Arkwright No 2

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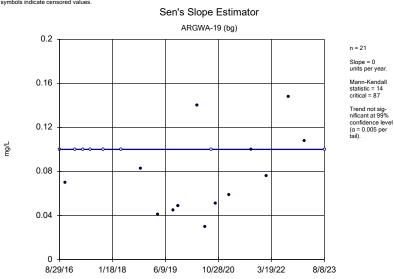


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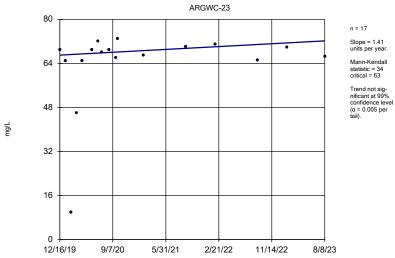
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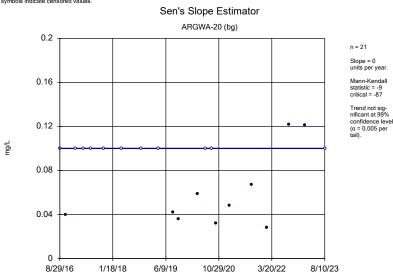
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Sen's Slope Estimator

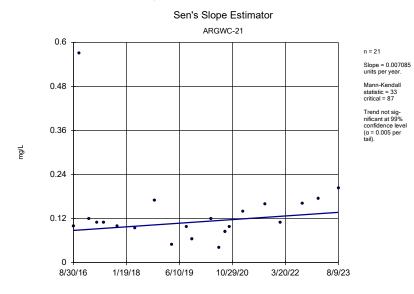


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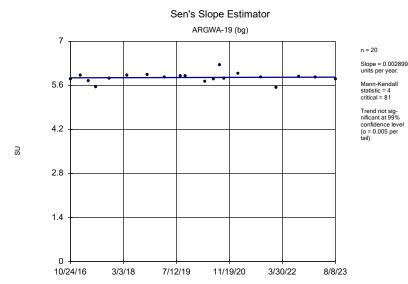
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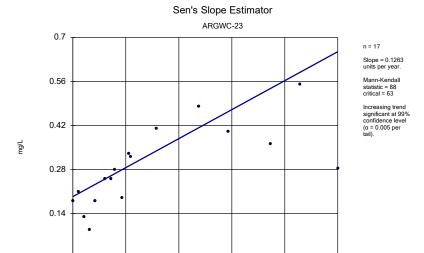
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Plant Arkwright Client: Southern Company Data: Arkwright No 2



Constituent: Fluoride Analysis Run 10/13/2023 11:44 AM View: Trend Tests
Plant Arkwright Client: Southern Company Data: Arkwright No 2



Constituent: pH Analysis Run 10/13/2023 11:44 AM View: Trend Tests
Plant Arkwright Client: Southern Company Data: Arkwright No 2



Constituent: Fluoride Analysis Run 10/13/2023 11:44 AM View: Trend Tests
Plant Arkwright Client: Southern Company Data: Arkwright No 2

2/21/22

8/8/23

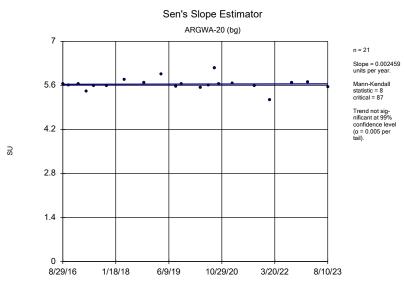
11/14/22

5/31/21

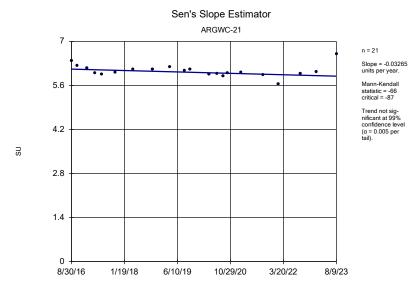
9/7/20

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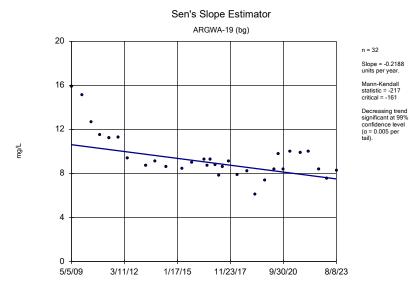
12/16/19



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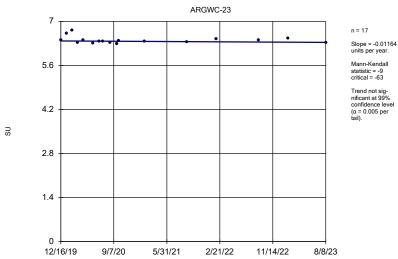


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Plant Arkwright Client: Southern Company Data: Arkwright No 2



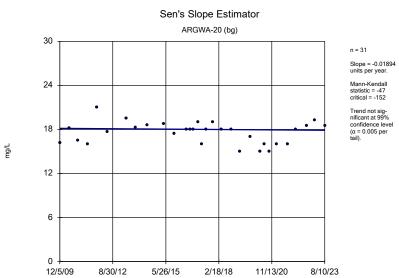
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Plant Arkwright Client: Southern Company Data: Arkwright No 2

Sen's Slope Estimator

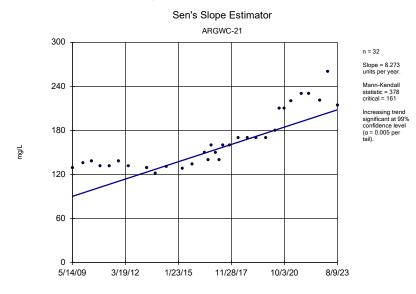


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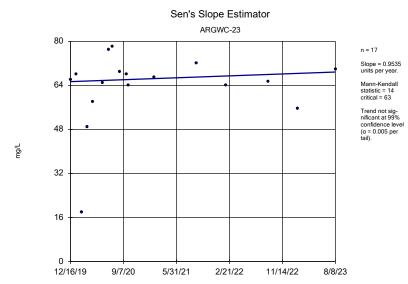
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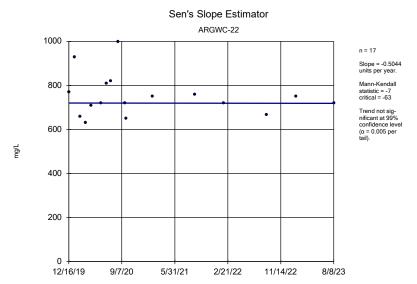
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Plant Arkwright Client: Southern Company Data: Arkwright No 2



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Plant Arkwright Client: Southern Company Data: Arkwright No 2

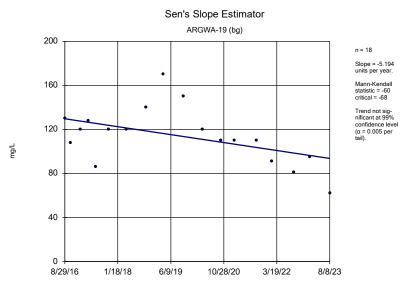


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Plant Arkwright Client: Southern Company Data: Arkwright No 2



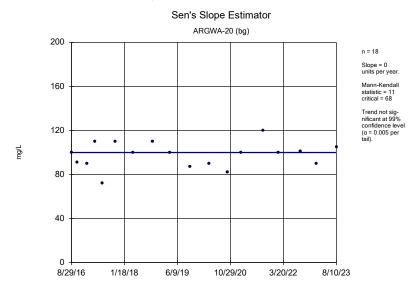
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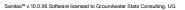


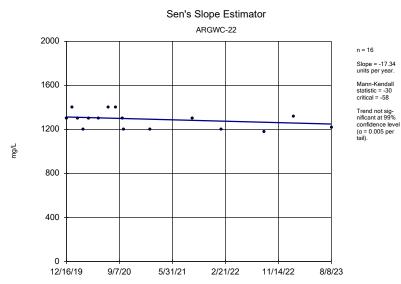
Constituent: Total Dissolved Solids Analysis Run 10/13/2023 11:44 AM View: Trend Tests

Plant Arkwright Client: Southern Company Data: Arkwright No 2

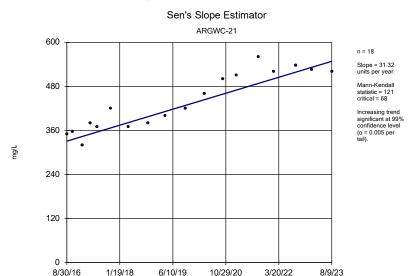


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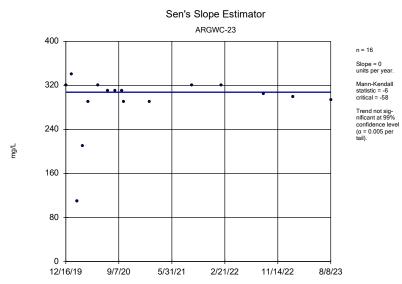
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Constituent: Total Dissolved Solids Analysis Run 10/13/2023 11:44 AM View: Trend Tests Plant Arkwright Client: Southern Company Data: Arkwright No 2

8/30/16

1/19/18



Constituent: Total Dissolved Solids Analysis Run 10/13/2023 11:44 AM View: Trend Tests Plant Arkwright Client: Southern Company Data: Arkwright No 2

FIGURE G.

Upper Tolerance Limits

Plant Arkwright Client: Southern Company Data: Arkwright No 2 Printed 10/13/2023, 11:56 AM

Constituent	Upper Lim.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	<u>Alpha</u>	Method
Antimony (mg/L)	0.003	30	n/a	n/a	100	n/a	n/a	0.2146	NP Inter(NDs)
Arsenic (mg/L)	0.005	68	n/a	n/a	86.76	n/a	n/a	0.03056	NP Inter(NDs)
Barium (mg/L)	0.107	68	n/a	n/a	0	n/a	n/a	0.03056	NP Inter(normality)
Beryllium (mg/L)	0.0005	34	n/a	n/a	91.18	n/a	n/a	0.1748	NP Inter(NDs)
Cadmium (mg/L)	0.001	66	n/a	n/a	98.48	n/a	n/a	0.03387	NP Inter(NDs)
Chromium (mg/L)	0.01	38	n/a	n/a	23.68	n/a	n/a	0.1424	NP Inter(normality)
Cobalt (mg/L)	0.001	40	n/a	n/a	65	n/a	n/a	0.1285	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	2.33	38	n/a	n/a	0	n/a	n/a	0.1424	NP Inter(normality)
Fluoride (mg/L)	0.148	42	n/a	n/a	45.24	n/a	n/a	0.116	NP Inter(normality)
Lead (mg/L)	0.002	68	n/a	n/a	86.76	n/a	n/a	0.03056	NP Inter(NDs)
Lithium (mg/L)	0.013	40	n/a	n/a	42.5	n/a	n/a	0.1285	NP Inter(normality)
Mercury (mg/L)	0.0002	30	n/a	n/a	93.33	n/a	n/a	0.2146	NP Inter(NDs)
Molybdenum (mg/L)	0.001	36	n/a	n/a	86.11	n/a	n/a	0.1578	NP Inter(NDs)
Selenium (mg/L)	0.005	67	n/a	n/a	65.67	n/a	n/a	0.03217	NP Inter(NDs)
Silver (mg/L)	0.001	58	n/a	n/a	91.38	n/a	n/a	0.05105	NP Inter(NDs)
Thallium (mg/L)	0.002	30	n/a	n/a	96.67	n/a	n/a	0.2146	NP Inter(NDs)

FIGURE H.

PLANT ARKWRIGHT AP #2 GWPS											
		CCR-Rule	Background								
Constituent Name	MCL	Specified	Limit	GWPS							
Antimony, Total (mg/L)	0.006		0.003	0.006							
Arsenic, Total (mg/L)	0.01		0.005	0.01							
Barium, Total (mg/L)	2		0.11	2							
Beryllium, Total (mg/L)	0.004		0.0005	0.004							
Cadmium, Total (mg/L)	0.005		0.001	0.005							
Chromium, Total (mg/L)	0.1		0.01	0.1							
Cobalt, Total (mg/L)	n/a	0.006	0.001	0.006							
Combined Radium, Total (pCi/L)	5		2.33	5							
Fluoride, Total (mg/L)	4		0.15	4							
Lead, Total (mg/L)	n/a	0.015	0.002	0.015							
Lithium, Total (mg/L)	n/a	0.04	0.013	0.04							
Mercury, Total (mg/L)	0.002		0.0002	0.002							
Molybdenum, Total (mg/L)	n/a	0.1	0.001	0.1							
Selenium, Total (mg/L)	0.05		0.005	0.05							
Silver, Total (mg/L)	n/a		0.001	0.001							
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 Intervals Summary Table - Significant Results

Plant Arkwright Client: Southern Company Data: Arkwright No 2 Printed 10/13/2023, 12:06 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig. N	<u>Mean</u>	Std. Dev.	%NDs	ND Adj.	Transform	<u>Alpha</u>	Method
Cobalt (mg/L)	ARAMW-7	0.07871	0.03458	0.006	Yes 7	0.05713	0.02447	0	None	x^3	0.01	Param.
Lithium (mg/L)	ARAMW-7	0.0655	0.05767	0.04	Yes 7	0.06159	0.003298	0	None	No	0.01	Param.

Confidence Intervals Summary Table - All Results

Plant Arkwright Client: Southern Company Data: Arkwright No 2 Printed 10/13/2023, 12:06 PM

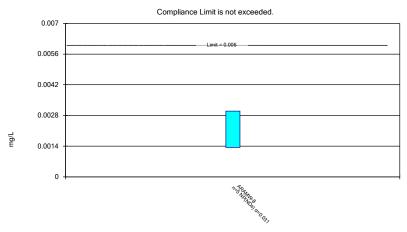
Constituent	Well	Upper Lim	n. Lower Lim.	Compliance	Sig.	<u>N</u>	<u>Mean</u>	Std. Dev.	%NDs	ND Adj.	Transform	<u>Alpha</u>	Method
Antimony (mg/L)	ARAMW-8	0.003	0.00134	0.006	No	5	0.002668	0.0007424	80	None	No	0.031	NP (NDs)
Arsenic (mg/L)	ARAMW-1	0.005	0.00233	0.01	No	8	0.004666	0.000944	87.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	ARAMW-2	0.0457	0.004386	0.01	No	8	0.02402	0.02717	0	None	x^(1/3)	0.01	Param.
Arsenic (mg/L)	ARAMW-7	0.005	0.00035	0.01	No	6	0.00316	0.002189	50	None	No	0.0155	NP (normality)
Arsenic (mg/L)	ARAMW-8	0.005	0.00031	0.01	No	6	0.002972	0.002305	50	None	No	0.0155	NP (normality)
Arsenic (mg/L)	ARGWC-21	0.005	0.00207	0.01	No	34	0.003494	0.001661	52.94	None	No	0.01	NP (NDs)
Arsenic (mg/L)	ARGWC-22	0.005	0.00066	0.01	No	16	0.003978	0.001869	75	None	No	0.01	NP (NDs)
Arsenic (mg/L)	ARGWC-23	0.005	0.00075	0.01	No	16	0.004154	0.00182	81.25	None	No	0.01	NP (NDs)
Barium (mg/L)	ARAMW-1	0.05308	0.04397	2	No	8	0.04853	0.004295	0	None	No	0.01	Param.
Barium (mg/L)	ARAMW-2	0.14	0.067	2	No	8	0.09181	0.02753	0	None	No	0.004	NP (normality)
Barium (mg/L)	ARAMW-7	0.03483	0.02184	2	No	6	0.02833	0.00473	0	None	No	0.01	Param.
Barium (mg/L)	ARAMW-8	0.1224	0.08756	2	No	6	0.105	0.0127	0	None	No	0.01	Param.
Barium (mg/L)	ARGWC-21	0.1	0.044	2	No		0.06834	0.03428	0	None	No	0.01	NP (normality)
Barium (mg/L)	ARGWC-22	0.04906	0.02955	2	No	16	0.04005	0.01602	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	ARGWC-23	0.1491	0.09733	2	No	16	0.1232	0.0398	0	None	No	0.01	Param.
Beryllium (mg/L)	ARAMW-7	0.0025	0.000236	0.004		6	0.001384	0.001223	50	None	No		NP (normality)
Beryllium (mg/L)	ARGWC-22	0.0025	0.00023	0.004		15		0.000125	66.67	None	No	0.01	NP (NDs)
Beryllium (mg/L)	ARGWC-23	0.0005	0.00033	0.004	No	15		0.00004389	93.33	None	No	0.01	NP (NDs)
Chromium (mg/L)	ARGWC-23	0.0003	0.00033	0.004	No	19	0.0004887	0.00004389	94.74	None	No	0.01	NP (NDs)
, - ,												0.01	, ,
Chromium (mg/L)	ARGWC-22	0.01 0.001	0.0048 0.00035	0.1		16 9	0.009675	0.0013	93.75 0	None	No	0.002	NP (NDs) NP (normality)
Cobalt (mg/L)	ARAMW-1			0.006						None	No No		, ,,
Cobalt (mg/L)	ARAMW-2	0.003072	0.002117	0.006	No		0.002594	0.0004943	0	None	No	0.01	Param.
Cobalt (mg/L)	ARAMW-7	0.07871	0.03458	0.006	Yes		0.05713	0.02447	0	None	x^3	0.01	Param.
Cobalt (mg/L)	ARAMW-8	0.005631	0.00256	0.006	No		0.004096	0.001293	0	None	No	0.01	Param.
Cobalt (mg/L)	ARGWC-21	0.0019	0.0007	0.006		20	0.001316	0.0005999	0	None	No	0.01	NP (normality)
Cobalt (mg/L)	ARGWC-22	0.008291	0.002588	0.006		17	0.006004	0.005185	0	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	ARGWC-23	0.002238	0.0008255	0.006	No		0.001652	0.001313	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	ARAMW-1	2.894	0.3446	5	No		1.551	1.405	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	ARAMW-2	4.208	2.169	5	No	8	3.189	0.962	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	ARAMW-7	5.264	4.116	5	No	6	4.69	0.418	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	ARAMW-8	2.764	0.007706	5	No	6	1.04	1.243	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	ARGWC-21	1.143	0.5604	5	No	19	0.9819	0.7745	0	None	ln(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	ARGWC-22	1.094	0.3362	5	No	16	0.7813	0.7044	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	ARGWC-23	0.706	0.1455	5	No	16	0.4897	0.5722	0	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	ARAMW-1	0.2271	0.1592	4	No	9	0.1931	0.03517	0	None	No	0.01	Param.
Fluoride (mg/L)	ARAMW-2	0.1357	0.07228	4	No	9	0.104	0.03286	11.11	None	No	0.01	Param.
Fluoride (mg/L)	ARAMW-7	0.11	0.032	4	No	7	0.07714	0.03245	42.86	None	No	0.008	NP (normality)
Fluoride (mg/L)	ARAMW-8	0.2658	0.1542	4	No	7	0.21	0.04695	0	None	No	0.01	Param.
Fluoride (mg/L)	ARGWC-21	0.1565	0.08641	4	No	21	0.137	0.1074	0	None	ln(x)	0.01	Param.
Fluoride (mg/L)	ARGWC-22	0.0979	0.04	4	No	17	0.07882	0.05991	17.65	None	No	0.01	NP (normality)
Fluoride (mg/L)	ARGWC-23	0.366	0.2099	4	No	17	0.2879	0.1246	0	None	No	0.01	Param.
Lead (mg/L)	ARAMW-7	0.002	0.00013	0.015	No	6	0.001688	0.0007634	83.33	None	No	0.0155	NP (NDs)
Lead (mg/L)	ARGWC-21	0.002	0.00026	0.015	No	34	0.001894	0.0004289	94.12	None	No	0.01	NP (NDs)
Lead (mg/L)	ARGWC-22	0.002	0.00022	0.015	No	16	0.001773	0.0006218	87.5	None	No	0.01	NP (NDs)
Lead (mg/L)	ARGWC-23	0.002	0.00026	0.015	No	16	0.001778	0.0006082	87.5	None	No	0.01	NP (NDs)
Lithium (mg/L)	ARAMW-1	0.009867	0.008372	0.04	No	10	0.009089	0.0009949	0	None	x^3	0.01	Param.
Lithium (mg/L)	ARAMW-2	0.036	0.019	0.04	No	10	0.02887	0.02073	0	None	No	0.011	NP (normality)
Lithium (mg/L)	ARAMW-7	0.0655	0.05767	0.04	Yes	7	0.06159	0.003298	0	None	No	0.01	Param.
Lithium (mg/L)	ARAMW-8	0.006719	0.005207	0.04	No	7	0.005986	0.0007869	0	None	x^4	0.01	Param.
Lithium (mg/L)	ARGWC-21	0.01215	0.009736	0.04	No	20	0.01095	0.002129	0	None	No	0.01	Param.
Lithium (mg/L)	ARGWC-22	0.02454	0.01523	0.04	No	17	0.01989	0.007428	0	None	No	0.01	Param.
Lithium (mg/L)	ARGWC-23	0.04604	0.02833	0.04	No	17	0.03719	0.01413	0	None	No	0.01	Param.
Mercury (mg/L)	ARGWC-21	0.0002	0.000073	0.002	No	15	0.0001915	0.00003279	93.33	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	ARAMW-1	0.00807	0.004699	0.1	No	9	0.006384	0.001745	0	None	No	0.01	Param.
Molybdenum (mg/L)	ARAMW-2	0.015	0.000491	0.1	No	9	0.008722	0.007449	55.56	None	No	0.002	NP (NDs)

Confidence Intervals Summary Table - All Results

Plant Arkwright Client: Southern Company Data: Arkwright No 2 Printed 10/13/2023, 12:06 PM

Constituent	Well	Upper Lim	. Lower Lim.	Compliance	Sig	<u>N</u>	<u>Mean</u>	Std. Dev.	%NDs	ND Adj.	Transform	<u>Alpha</u>	Method
Molybdenum (mg/L)	ARAMW-7	0.0012	0.000379	0.1	No	7	0.0009399	0.0002583	71.43	None	No	0.008	NP (NDs)
Molybdenum (mg/L)	ARAMW-8	0.2118	0.0568	0.1	No	7	0.1343	0.06523	0	None	No	0.01	Param.
Molybdenum (mg/L)	ARGWC-22	0.015	0.000514	0.1	No	16	0.008801	0.007268	56.25	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	ARGWC-23	0.06318	0.0438	0.1	No	16	0.05137	0.01838	0	None	x^2	0.01	Param.
Selenium (mg/L)	ARGWC-22	0.005	0.002	0.05	No	16	0.004812	0.00075	93.75	None	No	0.01	NP (NDs)
Silver (mg/L)	ARGWC-21	0.001	0.001	0.001	No	29	0.0009803	0.0001058	93.1	None	No	0.01	NP (NDs)
Thallium (mg/L)	ARGWC-22	0.002	0.00034	0.002	No	13	0.001518	0.0007608	69.23	None	No	0.01	NP (NDs)
Thallium (mg/L)	ARGWC-23	0.002	0.00028	0.002	No	13	0.0016	0.0007601	76.92	None	No	0.01	NP (NDs)

Non-Parametric Confidence Interval

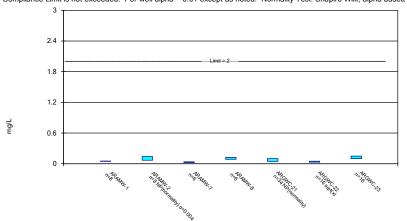


Constituent: Antimony Analysis Run 10/13/2023 12:04 PM View: Confidence Intervals
Plant Arkwright Client: Southern Company Data: Arkwright No 2

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Parametric and Non-Parametric (NP) Confidence Interval

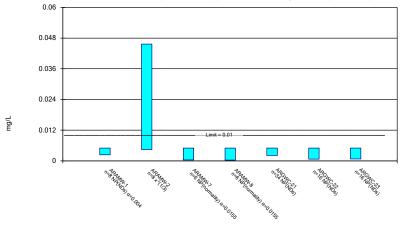
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 10/13/2023 12:04 PM View: Confidence Intervals
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

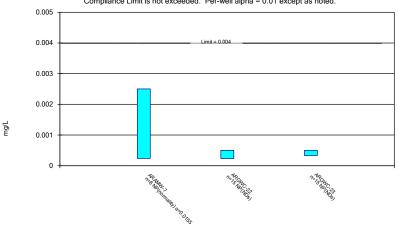


Constituent: Arsenic Analysis Run 10/13/2023 12:04 PM View: Confidence Intervals
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Sanitas™ v.10.0.06 Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

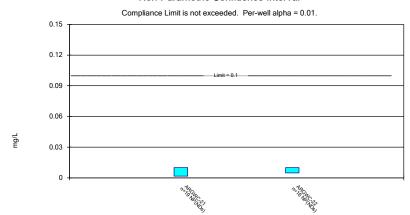
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Beryllium Analysis Run 10/13/2023 12:04 PM View: Confidence Intervals

Plant Arkwright Client: Southern Company Data: Arkwright No 2

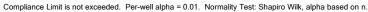
Non-Parametric Confidence Interval

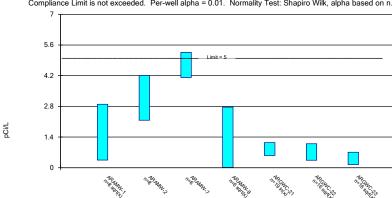


Constituent: Chromium Analysis Run 10/13/2023 12:04 PM View: Confidence Intervals Plant Arkwright Client: Southern Company Data: Arkwright No 2

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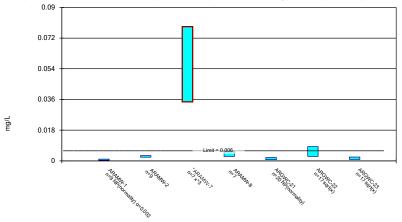
Parametric Confidence Interval





Parametric and Non-Parametric (NP) Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

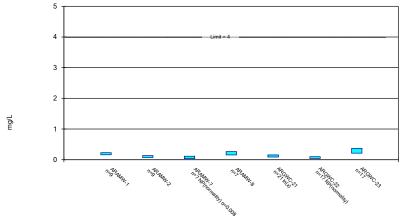


Constituent: Cobalt Analysis Run 10/13/2023 12:04 PM View: Confidence Intervals Plant Arkwright Client: Southern Company Data: Arkwright No 2

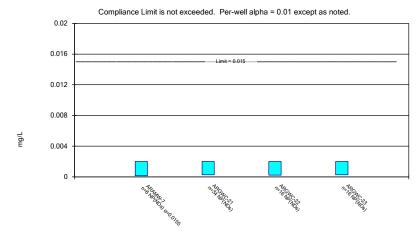
Sanitas™ v.10.0.06 Software licensed to Groundwater Stats Consulting. UG

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.



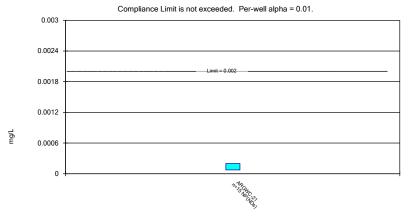
Non-Parametric Confidence Interval



Constituent: Lead Analysis Run 10/13/2023 12:04 PM View: Confidence Intervals
Plant Arkwright Client: Southern Company Data: Arkwright No 2

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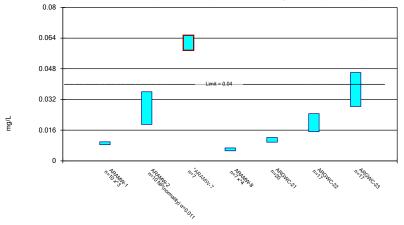
Non-Parametric Confidence Interval



Constituent: Mercury Analysis Run 10/13/2023 12:04 PM View: Confidence Intervals Plant Arkwright Client: Southern Company Data: Arkwright No 2

Parametric and Non-Parametric (NP) Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

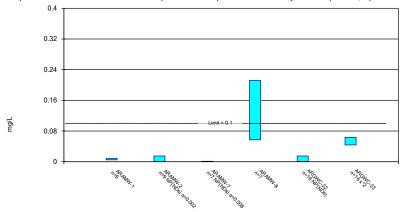


Constituent: Lithium Analysis Run 10/13/2023 12:04 PM View: Confidence Intervals
Plant Arkwright Client: Southern Company Data: Arkwright No 2

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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.



Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

0.04

0.04

0.024

0.012

Constituent: Selenium Analysis Run 10/13/2023 12:04 PM View: Confidence Intervals
Plant Arkwright Client: Southern Company Data: Arkwright No 2

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Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

0.004

0.0024

0.0016

0.0008

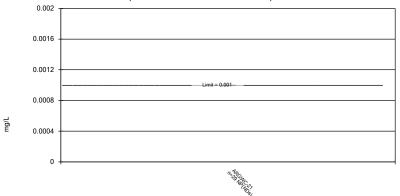
Constituent: Thallium Analysis Run 10/13/2023 12:04 PM View: Confidence Intervals

Plant Arkwright Client: Southern Company Data: Arkwright No 2

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Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Silver Analysis Run 10/13/2023 12:04 PM View: Confidence Intervals
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Constituent: Antimony (mg/L) Analysis Run 10/13/2023 12:06 PM View: Confidence Intervals
Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARAMW-8
9/9/2021	<0.003
2/3/2022	<0.003
9/2/2022	<0.003
1/31/2023	<0.003
8/9/2023	0.00134 (J)
Mean	0.002668
Std. Dev.	0.0007424
Upper Lim.	0.003
Lower Lim.	0.00134

Constituent: Arsenic (mg/L) Analysis Run 10/13/2023 12:06 PM View: Confidence Intervals
Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARAMW-1	ARAMW-2	ARAMW-7	ARAMW-8	ARGWC-21	ARGWC-22	ARGWC-23
5/14/2009					0.0022		
12/5/2009					<0.005		
6/2/2010					<0.005		
11/11/2010					<0.005		
5/17/2011					<0.005		
11/8/2011					<0.005		
5/16/2012					0.002 (J)		
5/14/2013					<0.005		
11/5/2013					<0.005		
6/9/2014					<0.005		
11/18/2014					<0.005		
4/14/2015					<0.005		
10/29/2015					<0.005		
6/23/2016					0.0011 (J)		
8/30/2016					0.002		
10/26/2016					0.0019 (J)		
1/25/2017					0.0017		
4/10/2017					0.002		
6/19/2017					0.0026		
10/24/2017					0.0021		
4/10/2018					0.0022		
10/16/2018					0.0021		
3/27/2019					0.0011 (J)		
8/20/2019					0.002		
10/8/2019					0.0012 (J)		
12/16/2019					(1)	0.00066 (J)	0.00075 (J)
1/14/2020						0.00038 (J)	0.00042 (J)
2/11/2020						0.0004 (J)	<0.005
3/9/2020						<0.005	<0.005
4/7/2020					0.00054 (J)	<0.005	<0.005
5/27/2020					(,,	<0.005	<0.005
7/15/2020						<0.005	<0.005
8/19/2020						<0.005	
8/20/2020	<0.005	0.084					<0.005
8/21/2020					<0.005		
9/22/2020						<0.005	<0.005
9/30/2020	<0.005					<0.005	
10/1/2020		0.0085			<0.005		<0.005
2/10/2021	<0.005				<0.005	<0.005	<0.005
2/11/2021		0.015	0.00075 (J)	0.00046 (J)			
9/8/2021			. ,	. ,	<0.005		
9/9/2021	<0.005			<0.005			<0.005
9/10/2021		0.044	<0.005			<0.005	
2/1/2022					<0.005		
2/2/2022			0.00035 (J)			<0.005	
2/3/2022	<0.005	0.0092		0.00031 (J)			0.0003 (J)
9/1/2022				. ,	0.00207 (J)		
9/2/2022	0.00233 (J)	0.0158		0.00206 (J)	`,		
9/6/2022	.,			.,		<0.005	<0.005
9/7/2022			<0.005				
1/31/2023	<0.005	0.00363 (J)	0.00286 (J)	<0.005	<0.005	0.00221 (J)	<0.005
8/8/2023	<0.005	0.012	<0.005			<0.005	<0.005

Constituent: Arsenic (mg/L) Analysis Run 10/13/2023 12:06 PM View: Confidence Intervals
Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARAMW-1	ARAMW-2	ARAMW-7	ARAMW-8	ARGWC-21	ARGWC-22	ARGWC-23
8/9/2023				<0.005	<0.005		
Mean	0.004666	0.02402	0.00316	0.002972	0.003494	0.003978	0.004154
Std. Dev.	0.000944	0.02717	0.002189	0.002305	0.001661	0.001869	0.00182
Upper Lim.	0.005	0.0457	0.005	0.005	0.005	0.005	0.005
Lower Lim.	0.00233	0.004386	0.00035	0.00031	0.00207	0.00066	0.00075

Constituent: Barium (mg/L) Analysis Run 10/13/2023 12:06 PM View: Confidence Intervals

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARAMW-1	ARAMW-2	ARAMW-7	ARAMW-8	ARGWC-21	ARGWC-22	ARGWC-23
5/14/2009					0.034		
12/5/2009					0.037		
6/2/2010					0.037		
11/11/2010					0.036		
5/17/2011					0.032		
11/8/2011					0.042		
5/16/2012					0.0451		
5/14/2013					0.043		
11/5/2013					0.051		
6/9/2014					0.045		
11/18/2014					0.052		
4/14/2015					0.032		
10/29/2015					0.053		
6/23/2016					0.13		
8/30/2016					0.11		
10/26/2016					0.122		
1/25/2017					0.12		
4/10/2017					0.11		
6/19/2017					0.13		
10/24/2017					0.12		
4/10/2018					0.12		
10/16/2018					0.1		
3/27/2019					0.091		
8/20/2019					0.1		
10/8/2019					0.096		
12/16/2019						0.076	0.096
1/14/2020						0.071	0.075
2/11/2020						0.046	0.046
3/9/2020						0.039	0.14
4/7/2020					0.05	0.04	0.16
5/27/2020						0.054	0.18
7/15/2020						0.043	0.16
8/19/2020						0.046	
8/20/2020	0.055	0.14					0.16
8/21/2020					0.054		
9/22/2020						0.038	0.16
9/30/2020	0.052					0.033	
10/1/2020		0.075			0.051		0.17
2/10/2021	0.046				0.044	0.032	0.13
2/11/2021		0.09	0.037	0.092			
9/8/2021					0.045		
9/9/2021	0.051			0.094			0.12
9/10/2021		0.13	0.029			0.026	
2/1/2022					0.045		
2/2/2022			0.029			0.025	
2/3/2022	0.046	0.078		0.096			0.1
9/1/2022	-	-		-	0.0425		
9/2/2022	0.0445	0.0792		0.116			
9/6/2022	0.0	3.0.02		20		0.0226	0.0939
9/7/2022			0.0263			3.0220	
1/31/2023	0.0427	0.067	0.0263	0.11	0.0414	0.0237	0.0872
8/8/2023	0.0427	0.067	0.0243	0.11	0.0714	0.0257	0.0936
3/3/2023	0.031	0.0755	0.0244			0.0233	0.0000

Constituent: Barium (mg/L) Analysis Run 10/13/2023 12:06 PM View: Confidence Intervals
Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARAMW-1	ARAMW-2	ARAMW-7	ARAMW-8	ARGWC-21	ARGWC-22	ARGWC-23
8/9/2023				0.122	0.0474		
Mean	0.04853	0.09181	0.02833	0.105	0.06834	0.04005	0.1232
Std. Dev.	0.004295	0.02753	0.00473	0.0127	0.03428	0.01602	0.0398
Upper Lim.	0.05308	0.14	0.03483	0.1224	0.1	0.04906	0.1491
Lower Lim.	0.04397	0.067	0.02184	0.08756	0.044	0.02955	0.09733

Constituent: Beryllium (mg/L) Analysis Run 10/13/2023 12:06 PM View: Confidence Intervals
Plant Arkwright Client: Southern Company Data: Arkwright No 2

12/16/2010	AMW-7	ARGWC-22	ARGWC-23
12/16/2019		0.0005 (J)	0.00033 (J)
1/14/2020		0.00036 (J)	<0.0005
2/11/2020		0.00023	<0.0005
3/9/2020		0.00019	<0.0005
5/27/2020		0.00018 (J)	<0.0005
7/15/2020		<0.0005	<0.0005
8/19/2020		<0.0005	
8/20/2020			<0.0005
9/22/2020		<0.0005	<0.0005
9/30/2020		<0.0005	
10/1/2020			<0.0005
2/10/2021		<0.0005	<0.0005
2/11/2021 <0.0	0025		
9/9/2021			<0.0005
9/10/2021 <0.0	0025	<0.0005	
2/2/2022 <0.0	0025	<0.0005	
2/3/2022			<0.0005
9/6/2022		<0.0005	<0.0005
9/7/2022 0.00	00236 (J)		
1/31/2023 0.00	00296 (J)	<0.0005	<0.0005
8/8/2023 0.00	00272 (J)	<0.0005	<0.0005
Mean 0.00	01384	0.0004307	0.0004887
Std. Dev. 0.00	01223	0.000125	4.389E-05
Upper Lim. 0.00	025	0.0005	0.0005
Lower Lim. 0.00	00236	0.00023	0.00033

Constituent: Chromium (mg/L) Analysis Run 10/13/2023 12:06 PM View: Confidence Intervals
Plant Arkwright Client: Southern Company Data: Arkwright No 2

		ARGWC-21	ARGWC-22
8/30/2	2016	<0.01	
10/26	/2016	<0.01	
1/25/2	2017	<0.01	
4/10/2	2017	<0.01	
6/19/2	2017	<0.01	
10/24	/2017	<0.01	
4/10/2	2018	<0.01	
10/16	/2018	<0.01	
8/20/2	2019	0.0017 (J)	
10/8/2	2019	<0.01	
12/16	/2019		<0.01
1/14/2	2020		<0.01
2/11/2	2020		0.0048
3/9/20	020		<0.01
4/7/20	020	<0.01	<0.01
5/27/2	2020		<0.01
7/15/2	2020		<0.01
8/19/2	2020		<0.01
8/21/2	2020	<0.01	
9/22/2	2020		<0.01
9/30/2	2020		<0.01
10/1/2	2020	<0.01	
2/10/2	2021	<0.01	<0.01
9/8/20)21	<0.01	
9/10/2	2021		<0.01
2/1/20)22	<0.01	
2/2/20)22		<0.01
9/1/20)22	<0.01	
9/6/20)22		<0.01
1/31/2	2023	<0.01	<0.01
8/8/20)23		<0.01
8/9/20)23	<0.01	
Mean		0.009563	0.009675
Std. D	Dev.	0.001904	0.0013
Uppe	r Lim.	0.01	0.01
Lowe	r Lim.	0.0017	0.0048

Constituent: Cobalt (mg/L) Analysis Run 10/13/2023 12:06 PM View: Confidence Intervals
Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARAMW-1	ARAMW-2	ARAMW-7	ARAMW-8	ARGWC-21	ARGWC-22	ARGWC-23
8/30/2016					0.0018 (J)		
10/26/2016					0.0018 (J)		
1/25/2017					0.0017 (J)		
4/10/2017					0.0016 (J)		
6/19/2017					0.0021 (J)		
10/24/2017					0.0019 (J)		
4/10/2018					0.0019 (J)		
10/16/2018					0.0019 (J)		
8/20/2019					0.0023		
10/8/2019					0.0018		
12/16/2019					0.0010	0.018	0.0023
1/14/2020						0.0072	0.0023
2/11/2020						0.0072	0.0051
3/9/2020					0.00007	0.015	0.00061 (J)
4/7/2020					0.00087	0.009	0.0016
5/27/2020						0.0059	0.0017 (J)
6/24/2020	0.00097 (J)	0.0027				0.0047	
6/25/2020					0.00097 (J)		0.0014 (J)
7/15/2020						0.0027	0.0017 (J)
8/19/2020						0.0032	
8/20/2020	0.001 (J)	0.0022 (J)					0.0023 (J)
8/21/2020					0.00066 (J)		
9/22/2020						0.0085	0.0036
9/30/2020	0.001 (J)					0.0055	
10/1/2020		0.0036			0.00082 (J)		0.0052
11/30/2020			0.028				
12/1/2020				0.0054			
2/10/2021	0.00082 (J)				0.00063 (J)	0.0015 (J)	0.00072 (J)
2/11/2021		0.0028	0.017	0.0061			
9/8/2021					0.0007 (J)		
9/9/2021	0.00072 (J)			0.0046			0.0009 (J)
9/10/2021		0.0022 (J)	0.075			0.0015 (J)	
2/1/2022					0.0007 (J)		
2/2/2022			0.077			0.001 (J)	
2/3/2022	0.00045 (J)	0.0028		0.0028			0.00063 (J)
9/1/2022					0.00069 (J)		
9/2/2022	0.000449 (J)	0.002		0.00292			
9/6/2022						0.00198	0.000588 (J)
9/7/2022			0.0737				
1/31/2023	0.000399 (J)	0.00282	0.0687	0.00321	0.000659 (J)	0.00154	0.000742 (J)
8/8/2023	0.00035 (J)	0.00223	0.0605		(,	0.00184	0.00044 (J)
8/9/2023	0.00000 (0)	0.00220	0.0000	0.00364	0.000813 (J)	0.00101	0.00011(0)
Mean	0.0006842	0.002594	0.05713	0.004096	0.001316	0.006004	0.001652
Std. Dev.	0.0000342	0.002394	0.03713	0.004090	0.0005999	0.005185	0.001032
Upper Lim.	0.0002748	0.0004943	0.02447	0.001293	0.0003999	0.003183	0.001313
				0.003631	0.0019		
Lower Lim.	0.00035	0.002117	0.03458	0.00250	0.0007	0.002588	0.0008255

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/13/2023 12:06 PM View: Confidence Intervals
Plant Arkwright Client: Southern Company Data: Arkwright No 2

		ARAMW-1	ARAMW-2	ARAMW-7	ARAMW-8	ARGWC-21	ARGWC-22	ARGWC-23
8/	/30/2016					0.832		
10	0/26/2016					1.27		
1/	/25/2017					0.549		
4/	/10/2017					0.556		
6/	/19/2017					0.976		
10	0/24/2017					0.504		
4/	/10/2018					0.621		
10	0/16/2018					0.796		
8/	/20/2019					0.978		
10	0/8/2019					0.588		
12	2/16/2019						0.229 (U)	0.166 (U)
1/	/14/2020						0.783	0.869
2/	/11/2020						0.229 (U)	0.0291 (U)
3/	/9/2020						0.365	0.626
4/	/7/2020					0.433 (U)	0.567	0.296 (U)
5/	/27/2020						0.143 (U)	0.192 (U)
7/	/15/2020						0.97	0.279 (U)
8/	/19/2020						0.587 (U)	
8/	/20/2020	0.527	4.13					0.242 (U)
8/	/21/2020					0.472		
9/	/22/2020						0.884	0.0177 (U)
9/	/30/2020	0.249 (U)					0.602	
10	0/1/2020		2.86			0.496 (U)		0.749
2/	/10/2021	0.949				0.625	0.233 (U)	0.0408 (U)
2/	/11/2021		2.09	5.1	0.285 (U)			
9/	/8/2021					1.12		
9/	/9/2021	0.972			0.16 (U)			0.498
9/	/10/2021		3.4	4.23			0.713	
2/	/1/2022					0.331 (U)		
2/	/2/2022			4.48			0.195 (U)	
2/	/3/2022	1.04	2.69		0.51			0.248 (U)
9/	/1/2022					1.57		
9/	/2/2022	3.41	4.18		1.89			
9/	/6/2022						2.58	2.36
9/	/7/2022			4.29				
1/	/31/2023	4.1	4.3	5.21	3.2	3.25	2.2	0.859 (U)
8/	/8/2023	1.16 (U)	1.86	4.83			1.22 (U)	0.363 (U)
8/	/9/2023				0.193 (U)	2.69		
М	lean	1.551	3.189	4.69	1.04	0.9819	0.7813	0.4897
S	td. Dev.	1.405	0.962	0.418	1.243	0.7745	0.7044	0.5722
U	pper Lim.	2.894	4.208	5.264	2.764	1.143	1.094	0.706
Lo	ower Lim.	0.3446	2.169	4.116	0.007706	0.5604	0.3362	0.1455

Constituent: Fluoride (mg/L) Analysis Run 10/13/2023 12:06 PM View: Confidence Intervals
Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARAMW-1	ARAMW-2	ARAMW-7	ARAMW-8	ARGWC-21	ARGWC-22	ARGWC-23
8/30/2016					0.099 (J)		
10/26/2016					0.57		
1/25/2017					0.12 (J)		
4/10/2017					0.11 (J)		
6/19/2017					0.11 (J)		
10/24/2017					0.1 (J)		
4/10/2018					0.094 (J)		
10/16/2018					0.17 (J)		
3/27/2019					0.05 (J)		
8/20/2019					0.098 (J)		
10/8/2019					0.065 (J)		
12/16/2019						0.026 (J)	0.18 (J)
1/14/2020						<0.2	0.21
2/11/2020						0.056	0.13
3/9/2020						0.064 (J)	0.089 (J)
4/7/2020					0.12	0.068 (J)	0.18
5/27/2020						0.06 (J)	0.25
6/24/2020	0.21	0.11				0.048 (J)	
6/25/2020					0.041 (J)		0.25
7/15/2020						0.04 (J)	0.28
8/19/2020						<0.2	
8/20/2020	0.23	<0.1					0.19
8/21/2020					0.084 (J)		
9/22/2020						0.049 (J)	0.33
9/30/2020	0.2					0.045 (J)	
10/1/2020		0.098 (J)			0.098 (J)		0.32
11/30/2020			0.044 (J)				
12/1/2020				0.14			
2/10/2021	0.21				0.14	0.055 (J)	0.41
2/11/2021		0.12	0.054 (J)	0.24			
9/8/2021					0.16		
9/9/2021	0.21			0.19			0.48
9/10/2021		0.13	0.032 (J)			0.035 (J)	
2/1/2022					0.11		
2/2/2022			<0.1			0.04 (J)	
2/3/2022	0.16	0.095 (J)		0.17			0.4
9/1/2022					0.161		
9/2/2022	0.18	0.146		0.206			
9/6/2022						0.056 (J)	0.362
9/7/2022			<0.1				
1/31/2023	0.22 (J)	0.13 (J)	0.11 (J)	0.263 (J)	0.175 (J)	0.0979 (J)	0.551 (J)
8/8/2023	0.118	0.0571 (J)	<0.1			<0.2	0.283
8/9/2023				0.261	0.203		
Mean	0.1931	0.104	0.07714	0.21	0.137	0.07882	0.2879
Std. Dev.	0.03517	0.03286	0.03245	0.04695	0.1074	0.05991	0.1246
Upper Lim.	0.2271	0.1357	0.11	0.2658	0.1565	0.0979	0.366
Lower Lim.	0.1592	0.07228	0.032	0.1542	0.08641	0.04	0.2099

Constituent: Lead (mg/L) Analysis Run 10/13/2023 12:06 PM View: Confidence Intervals

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARAMW-7	ARGWC-21	ARGWC-22	ARGWC-23
5/14/2009		<0.002		
12/5/2009		<0.002		
6/2/2010		<0.002		
11/11/2010		<0.002		
5/17/2011		<0.002		
11/8/2011		<0.002		
5/16/2012		<0.002		
5/14/2013		<0.002		
11/5/2013		<0.002		
6/9/2014		<0.002		
11/18/2014		<0.002		
4/14/2015		<0.002		
10/29/2015		<0.002		
6/23/2016		<0.002		
8/30/2016		<0.002		
10/26/2016		<0.002		
1/25/2017		<0.002		
4/10/2017		<0.002		
6/19/2017		<0.002		
10/24/2017		<0.002		
4/10/2018		<0.002		
10/16/2018		<0.002		
3/27/2019		<0.002		
8/20/2019		<0.002		
10/8/2019		0.00015 (J)		
12/16/2019			<0.002	<0.002
1/14/2020			0.00022 (J)	0.00018 (J)
2/11/2020			<0.002	0.00026 (J)
3/9/2020			<0.002	<0.002
4/7/2020		0.00026 (J)	0.00014 (J)	<0.002
5/27/2020		. ,	<0.002	<0.002
7/15/2020			<0.002	<0.002
8/19/2020			<0.002	
8/20/2020			0.002	<0.002
8/21/2020		<0.002		-0.002
9/22/2020		~U.UUZ	<0.002	<0.002
9/30/2020			<0.002	~U.UUZ
		<0.002	~ 0.002	<0.002
10/1/2020		<0.002	<0.002	<0.002
2/10/2021	0.00040.7.0	<0.002	<0.002	<0.002
2/11/2021	0.00013 (J)	0.005		
9/8/2021		<0.002		
9/9/2021				<0.002
9/10/2021	<0.002		<0.002	
2/1/2022		<0.002		
2/2/2022	<0.002		<0.002	
2/3/2022				<0.002
9/1/2022		<0.002		
9/6/2022			<0.002	<0.002
9/7/2022	<0.002			
1/31/2023	<0.002	<0.002	<0.002	<0.002
8/8/2023	<0.002		<0.002	<0.002
		<0.002		
8/9/2023		<0.002		

Constituent: Lead (mg/L) Analysis Run 10/13/2023 12:06 PM View: Confidence Intervals

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARAMW-7	ARGWC-21	ARGWC-22	ARGWC-23
Mean	0.001688	0.001894	0.001773	0.001778
Std. Dev.	0.0007634	0.0004289	0.0006218	0.0006082
Upper Lim.	0.002	0.002	0.002	0.002
Lower Lim.	0.00013	0.00026	0.00022	0.00026

Constituent: Lithium (mg/L) Analysis Run 10/13/2023 12:06 PM View: Confidence Intervals
Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARAMW-1	ARAMW-2	ARAMW-7	ARAMW-8	ARGWC-21	ARGWC-22	ARGWC-23
8/30/2016					0.0092		
10/26/2016					0.0071 (J)		
1/25/2017					0.0087		
4/10/2017					0.0074		
6/19/2017					0.0079		
10/24/2017					0.0097		
4/10/2018					0.012		
10/16/2018					0.01		
8/20/2019					0.0098		
10/8/2019					0.015		
12/16/2019						0.027	0.02
1/14/2020	0.009	0.086				0.034	0.022
2/11/2020	0.003	0.000				0.01	0.0078
3/9/2020						0.0071	0.0076
					0.011		
4/7/2020					0.011	0.012	0.032
5/27/2020	0.0004	0.010				0.017	0.037
6/24/2020	0.0084	0.018			0.040	0.023	0.040
6/25/2020					0.013		0.043
7/15/2020						0.021	0.042
8/19/2020						0.026	
8/20/2020	0.0066	0.036					0.036
8/21/2020					0.013		
9/22/2020						0.014	0.039
9/30/2020	0.0091					0.014	
10/1/2020		0.019			0.012		0.04
11/30/2020			0.061				
12/1/2020				0.0044 (J)			
2/10/2021	0.0097				0.012	0.022	0.044
2/11/2021		0.021	0.061	0.0055			
9/8/2021					0.012		
9/9/2021	0.0095			0.0062			0.045
9/10/2021		0.025	0.06			0.021	
2/1/2022					0.012		
2/2/2022			0.06			0.02	
2/3/2022	0.0099	0.021		0.0063			0.052
9/1/2022					0.0116		
9/2/2022	0.0097 (J)	0.0232		0.00654 (J)			
9/6/2022						0.0136	0.0578
9/7/2022			0.0634				
1/31/2023	0.0099 (J)	0.0202	0.068	0.00659 (J)	0.0124	0.0284	0.0499
8/8/2023	0.00909 (J)	0.0193	0.0577			0.028	0.0517
8/9/2023	(,,			0.00637 (J)	0.0131		
Mean	0.009089	0.02887	0.06159	0.005986	0.01095	0.01989	0.03719
Std. Dev.	0.0009949	0.02073	0.003298	0.0007869	0.002129	0.007428	0.01413
Upper Lim.	0.009867	0.036	0.0655	0.006719	0.002123	0.02454	0.04604
Lower Lim.	0.008372	0.019	0.05767	0.005207	0.009736	0.01523	0.02833
LOWER LIIII.	0.000372	0.013	0.00707	0.003207	0.000730	0.01023	0.02000

Constituent: Mercury (mg/L) Analysis Run 10/13/2023 12:06 PM View: Confidence Intervals
Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWC-21
8/30/2016	<0.0002
10/26/2016	<0.0002
1/25/2017	7.3E-05 (J)
4/10/2017	<0.0002
6/19/2017	<0.0002
10/24/2017	<0.0002
4/10/2018	<0.0002
10/16/2018	<0.0002
8/20/2019	<0.0002
8/21/2020	<0.0002
9/8/2021	<0.0002
2/1/2022	<0.0002
9/1/2022	<0.0002
1/31/2023	<0.0002
8/9/2023	<0.0002
Mean	0.0001915
Std. Dev.	3.279E-05
Upper Lim.	0.0002
Lower Lim.	7.3E-05

 $Constituent: \ Molybdenum \ (mg/L) \quad \ Analysis \ Run \ 10/13/2023 \ 12:06 \ PM \quad View: \ Confidence \ Intervals$

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARAMW-1	ARAMW-2	ARAMW-7	ARAMW-8	ARGWC-22	ARGWC-23
12/16/2019					0.0018 (J)	0.025
1/14/2020					0.0012 (J)	0.032
2/11/2020					0.00093	0.021
3/9/2020					0.00067	0.013 (J)
5/27/2020					<0.015	0.048
6/24/2020	0.0051 (J)	<0.015			<0.015	
6/25/2020						0.055
7/15/2020					<0.015	0.055
8/19/2020					<0.015	
8/20/2020	0.0076 (J)	0.0013 (J)				0.061
9/22/2020					<0.015	0.053
9/30/2020	0.0054 (J)				<0.015	
10/1/2020		<0.015				0.064
11/30/2020			0.0012 (J)			
12/1/2020				0.056		
2/10/2021	0.0043 (J)				<0.015	0.063
2/11/2021		<0.015	<0.001	0.038		
9/9/2021	0.0059 (J)			0.12		0.071
9/10/2021		<0.015	<0.001		<0.015	
2/2/2022			<0.001		<0.015	
2/3/2022	0.0049 (J)	<0.015		0.16		0.065
9/2/2022	0.00785	0.000603 (J)		0.175		
9/6/2022					0.000203 (J)	0.067
9/7/2022			0.000379 (J)			
1/31/2023	0.00974	0.000491 (J)	<0.001	0.188	0.000496 (J)	0.0671
8/8/2023	0.00667	0.0011	<0.001		0.000514 (J)	0.0618
8/9/2023				0.203		
Mean	0.006384	0.008722	0.0009399	0.1343	0.008801	0.05137
Std. Dev.	0.001745	0.007449	0.0002583	0.06523	0.007268	0.01838
Upper Lim.	0.00807	0.015	0.0012	0.2118	0.015	0.06318
Lower Lim.	0.004699	0.000491	0.000379	0.0568	0.000514	0.0438

Constituent: Selenium (mg/L) Analysis Run 10/13/2023 12:06 PM View: Confidence Intervals
Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWC-22
12/16/2019	<0.005
1/14/2020	<0.005
2/11/2020	<0.005
3/9/2020	<0.005
4/7/2020	<0.005
5/27/2020	<0.005
7/15/2020	<0.005
8/19/2020	<0.005
9/22/2020	<0.005
9/30/2020	<0.005
2/10/2021	<0.005
9/10/2021	0.002 (J)
2/2/2022	<0.005
9/6/2022	<0.005
1/31/2023	<0.005
8/8/2023	<0.005
Mean	0.004812
Std. Dev.	0.00075
Upper Lim.	0.005
Lower Lim.	0.002

Constituent: Silver (mg/L) Analysis Run 10/13/2023 12:06 PM View: Confidence Intervals
Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWC-21
5/14/2009	<0.001
12/5/2009	0.001
6/2/2010	<0.001
11/11/2010	<0.001
5/17/2011	<0.001
11/8/2011	<0.001
5/16/2012	<0.001
5/14/2013	<0.001
11/5/2013	<0.001
6/9/2014	<0.001
11/18/2014	<0.001
4/14/2015	<0.001
10/29/2015	<0.001
6/23/2016	<0.001
10/26/2016	<0.001
4/10/2017	<0.001
10/24/2017	<0.001
4/10/2018	<0.001
10/16/2018	<0.001
3/27/2019	<0.001
10/8/2019	0.00043 (J)
4/7/2020	<0.001
10/1/2020	<0.001
2/10/2021	<0.001
9/8/2021	<0.001
2/1/2022	<0.001
9/1/2022	<0.001
1/31/2023	<0.001
8/9/2023	<0.001
Mean	0.0009803
Std. Dev.	0.0001058
Upper Lim.	0.001
Lower Lim.	0.001

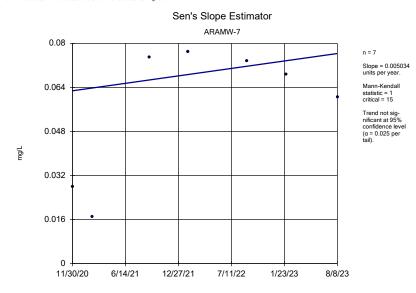
Constituent: Thallium (mg/L) Analysis Run 10/13/2023 12:06 PM View: Confidence Intervals
Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWC-22	ARGWC-23
12/16/2019	0.00078 (J)	<0.002
1/14/2020	0.00027 (J)	<0.002
2/11/2020	0.00034	0.00028 (J)
3/9/2020	0.00035 (J)	0.00026 (J)
5/27/2020	<0.002	0.00026 (J)
7/15/2020	<0.002	<0.002
8/19/2020	<0.002	
8/20/2020		<0.002
9/22/2020	<0.002	<0.002
9/9/2021		<0.002
9/10/2021	<0.002	
2/2/2022	<0.002	
2/3/2022		<0.002
9/6/2022	<0.002	<0.002
1/31/2023	<0.002	<0.002
8/8/2023	<0.002	<0.002
Mean	0.001518	0.0016
Std. Dev.	0.0007608	0.0007601
Upper Lim.	0.002	0.002
Lower Lim.	0.00034	0.00028

FIGURE J.

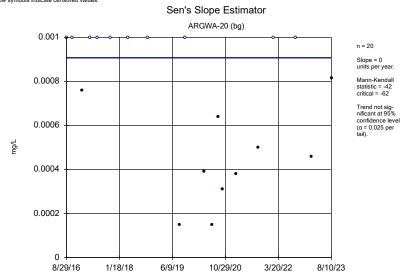
Trend Tests - Confidence Interval Exceedances - All Results (No Significant)

	Plant Arkwright	Client: Southern Company	Data: Arkwright No 2		Printed 10/13/2023, 12:09 PM						
Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	<u>Xform</u>	<u>Alpha</u>	Method
Cobalt (mg/L)	ARAMW-7	0.005034	1	15	No	7	0	n/a	n/a	0.05	NP
Cobalt (mg/L)	ARGWA-19 (bg)	0	-3	-62	No	20	80	n/a	n/a	0.05	NP
Cobalt (mg/L)	ARGWA-20 (bg)	0	-42	-62	No	20	50	n/a	n/a	0.05	NP
Lithium (mg/L)	ARAMW-7	0	-1	-15	No	7	0	n/a	n/a	0.05	NP
Lithium (mg/L)	ARGWA-19 (bg)	-0.0002284	-56	-62	No	20	5	n/a	n/a	0.05	NP
Lithium (mg/L)	ARGWA-20 (bg)	0	-2	-62	No	20	80	n/a	n/a	0.05	NP

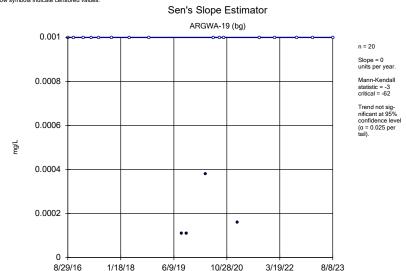


Constituent: Cobalt Analysis Run 10/13/2023 12:07 PM View: Trend Tests - App IV
Plant Arkwright Client: Southern Company Data: Arkwright No 2

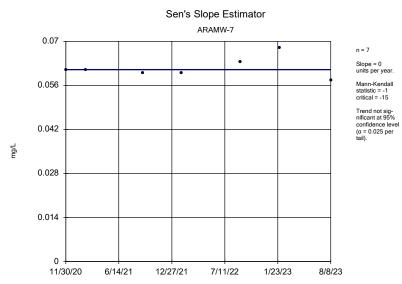




Constituent: Cobalt Analysis Run 10/13/2023 12:07 PM View: Trend Tests - App IV
Plant Arkwright Client: Southern Company Data: Arkwright No 2



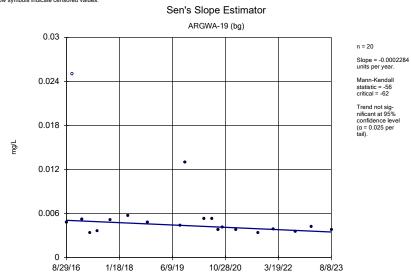
Constituent: Cobalt Analysis Run 10/13/2023 12:07 PM View: Trend Tests - App IV
Plant Arkwright Client: Southern Company Data: Arkwright No 2



Constituent: Lithium Analysis Run 10/13/2023 12:07 PM View: Trend Tests - App IV

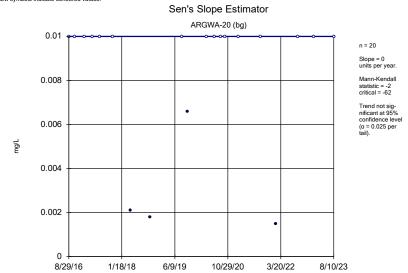
Plant Arkwright Client: Southern Company Data: Arkwright No 2

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Plant Arkwright Client: Southern Company Data: Arkwright No 2

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Constituent: Lithium Analysis Run 10/13/2023 12:07 PM View: Trend Tests - App IV
Plant Arkwright Client: Southern Company Data: Arkwright No 2