



**2023 SEMI-ANNUAL GROUNDWATER
MONITORING REPORT**

Plant Arkwright
Ash Pond 1 (AP-1) Landfill
Macon, Georgia

February 28, 2024

Prepared for:

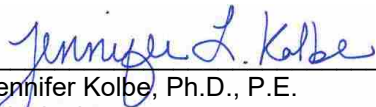


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**2023 Semi-Annual Groundwater Monitoring Report
Plant Arkwright Ash Pond 1 Landfill**

CERTIFICATION STATEMENT


This 2023 Semi-Annual Groundwater Monitoring Report, Plant Arkwright, Ash Pond 1 Landfill has been prepared in compliance with the Interim Groundwater Monitoring Plan submitted to the Georgia Environmental Protection Division on September 24, 2021. Plant Arkwright AP-1 Landfill closed according to Solid Waste Management Tracking Number 011-030D(LI) since July 30, 2010. This report has been prepared 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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Date 2/28/2024



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Executive Summary

This summary of the *2023 Semi-Annual Groundwater Monitoring Report* provides the status of the groundwater monitoring program from July 2023 through December 2023 at the Georgia Power Company (Georgia Power) former Plant Arkwright Ash Pond 1 (AP-1) Landfill. This summary was prepared by Stantec Consulting Services Inc. (Stantec) on behalf of Georgia Power.

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 31-acre AP-1 Landfill is located south of the former plant area and is bordered by the Ocmulgee River, Beaverdam Creek, and a Norfolk Southern Railroad line. When in operation, the coal-fired Plant Arkwright power plant consisted of four 40-megawatt units. In the years before retirement, the plant was used primarily to provide peaking power and operated approximately 40 to 60 days per year. Plant Arkwright was retired in 2002 and decommissioned in 2003. The AP-1 Landfill received a closure certificate on July 30, 2010, under Solid Waste Permit Number 011-030D(LI). AP-1 Landfill is currently in post-closure care.

A coal combustion residuals (CCR) unit solid waste handling permit application, dated November 2018, was submitted to the Georgia Environmental Protection Division (GA EPD) pursuant to the requirements of Georgia Administrative Code Rule 391-3-4-.10. Per the 2018 permit submittal, Georgia Power has elected to remove CCR material from AP-1 Landfill and place it in a lined landfill. The Groundwater Monitoring Plan, Revision 1, is a minor modification to Solid Waste Permit Number 011-030D(LI) and an interim plan, as requested by GA EPD on March 23, 2021, to be used until the new CCR unit solid waste handling permit is issued and a permanent groundwater monitoring system is established for AP-1 Landfill. Monitoring and reporting utilizing the existing interim groundwater monitoring network will be conducted on a semi-annual basis in accordance with the Groundwater Monitoring Plan until CCR removal activities require the interim piezometers to be abandoned. Groundwater monitoring at AP-1 Landfill has been initiated in order to meet GA EPD requirements. A minor modification was submitted to GA EPD on June 15, 2023 for the abandonment of AP1PZ-6 and removal of AP1PZ-6 from the groundwater monitoring system in support of initial construction. AP1PZ-6 was abandoned on June 21, 2023.

During the 2023 semi-annual reporting period, Stantec conducted one semi-annual groundwater sampling event in October 2023. Samples were analyzed for the full suites of Appendix III and Appendix IV constituents listed in Title 40, Code of Federal Regulations, Part 257.

Georgia Power will continue semi-annual groundwater monitoring and reporting at the AP-1 Landfill. Reports will be provided to GA EPD semi-annually.



Plant Arkwright AP-1 Landfill



Acronyms / Abbreviations

| | |
|---------------|---------------------------------------------------------|
| 40 CFR | Title 40 Code of Federal Regulations |
| AP-1 | Ash Pond 1 |
| CCR | Coal Combustion Residuals |
| District | Washington Slope District |
| DO | Dissolved Oxygen |
| GA EPD | Georgia Environmental Protection Division |
| Georgia Power | Georgia Power Company |
| 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 1 Landfill Site |
| Stantec | Stantec Consulting Services, Inc. |
| US EPA | United States Environmental Protection Agency |



1.0 Introduction

This *2023 Semi-Annual Groundwater Monitoring Report* has been prepared to document groundwater monitoring activities conducted at the Georgia Power Company (Georgia Power) former Plant Arkwright Ash Pond-1 (AP-1) Landfill Site (Site).

Groundwater monitoring and reporting for Plant Arkwright AP-1 Landfill are performed in accordance with the Interim Groundwater Monitoring Plan, Revision 1 (Jacobs, 2021), submitted to Georgia Environmental Protection Division (GA EPD) on September 24, 2021. Per the 2018 CCR permit submittal, Georgia Power has elected to remove CCR material from AP-1 Landfill and place it in a lined landfill. This interim plan is a minor modification to Solid Waste Permit Number 011-030D(LI), as requested by GA EPD on March 23, 2021. Groundwater monitoring at the Site will be conducted in accordance with this Groundwater Monitoring Plan until the new coal combustion residuals (CCR) unit solid waste handling permit is issued and a permanent groundwater monitoring network is established for AP-1 Landfill. This 2023 semi-annual report documents the activities completed between July 2023 and December 2023. One groundwater monitoring event was conducted during this monitoring period in October 2023.

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 31-acre AP-1 Landfill is located south of the former plant area and is bordered by the Ocmulgee River, Beaverdam Creek, and a Norfolk Southern Railroad line (Figure 2). 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-1 Landfill was constructed prior to 1958 and was closed with two feet of soil cover and vegetation in 1990. Regrading and stabilization of the riverbank and creek bank occurred in two phases in 2004 and 2007. Additionally, the slopes and top of AP-1 Landfill were regraded by relocating CCR and placing additional cover soil (Jacobs, 2018).

AP-1 Landfill received a Closure Certificate on July 30, 2010, under Solid Waste Permit Number 011-030D(LI) and is currently in post-closure care. Because the unit ceased receiving waste prior to October 19, 2015, the AP-1 Landfill is exempt from the requirements in Title 40 Code of Federal Regulations (40 CFR) Part 257 Subpart D – Standards for the Disposal of Coal Combustion Residuals in Landfills and Surface Impoundments, as specified in 40 CFR §257.50 (d) and (e). As such, a CCR unit solid waste handling permit application package for the AP-1 Landfill was submitted to GA EPD in November 2018 and is currently under review.

1.2 Regional Geology & Hydrogeologic Setting

The geology and hydrogeology of the Plant Arkwright 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



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Plant Arkwright Ash Pond 1 Landfill

1.0 Introduction

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 advanced at the Site indicate overburden thickness ranging from 22 to 62 feet, overlying a thin layer (5 to 10 feet) of partially weathered rock (PWR) above a more competent bedrock. The underlying bedrock consists of quartzofeldspathic gneiss, hornblende gneiss, and schist (Jacobs, 2021).

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 PWR 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 interim piezometers were installed to evaluate the uppermost occurrence of groundwater at the Site and from the groundwater monitoring system for AP-1 Landfill (Figure 2).



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1.0 Introduction

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 (overburden) hydrostratigraphic unit (Jacobs, 2021). Groundwater level gauging data from the Site show stable water level trends and the potentiometric surface maps depict groundwater flowing to the east, southeast, and northeast, in the direction of the Ocmulgee River and Beaverdam Creek (Figure 3).

1.3 Groundwater Monitoring System

Georgia Power installed a temporary groundwater monitoring system within the uppermost aquifer at the Site. Wells were located to serve as upgradient or downgradient monitoring points based on the groundwater flow direction (Table 1). The piezometer locations are depicted in Figure 2. Due to access constraints and safety concerns, downgradient wells at AP-1 Landfill were installed through CCR and will be removed during the closure by removal of the unit. A permanent groundwater monitoring system will be established following closure as noted in the 2018 CCR permit application.



2.0 Groundwater Monitoring Activities

The following describes monitoring-related activities performed between July 2023 and December 2023. Samples were collected from each of the piezometers 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-1 Landfill during this monitoring period.

Piezometer AP1PZ-6 was abandoned in June of 2023 due to construction activities involving ash removal on the southern tip of the landfill and groundwater sampling for the Fall of 2023 was completed for piezometer AP1PZ-6 on June 13, 2023 prior to the abandonment. The remaining AP-1 Landfill piezometers were sampled in October 2023.

2.1 Piezometer Installation and Maintenance

Piezometers 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)). Well inspection forms are included in Appendix A. In October 2023, the piezometers were inspected. There was no need for corrective actions for the wells at AP-1 Landfill during this reporting period. .

2.2 Additional Surface Water Sampling

Due to the close proximity of Beaverdam Creek and the Ocmulgee River in the downgradient direction, Georgia Power proactively collected surface water samples. Surface water samples were collected from four locations along the Ocmulgee River and two locations along Beaverdam Creek in October 2023, as depicted in Figure 2. Surface water samples were collected in accordance with U.S. Environmental Protection Agency (US EPA) Region 4 *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 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 report associated with the October 2023 sampling event is provided in Appendix B. Georgia Power will continue collecting the surface water samples semi-annually during interim groundwater monitoring.



3.0 Sample Methodology & Analyses

The semi-annual groundwater sampling event completed in June (AP1PZ-6 only) and October 2023 for AP-1 Landfill includes sampling for the constituents listed in 40 CFR Part 257 Appendix III and Appendix IV. Groundwater analytical data and chain-of-custody records are located in Appendix B. The following sections describe methods used to conduct groundwater monitoring at the Site.

3.1 Groundwater Elevation Measurements and Flow Direction

Prior to each sampling event, the static groundwater levels were measured in each piezometer at AP-1 Landfill. The water level indicator was properly decontaminated between each piezometer. Groundwater elevations are summarized in Table 3. The recorded groundwater levels were used to determine the groundwater elevations in each piezometer and develop potentiometric surface contour maps (Figure 3). Review of the figures indicates that the apparent groundwater flow direction in the uppermost aquifer is to the east, southeast, and northeast, in the direction of the Ocmulgee River and 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-1 Landfill was calculated using a derivation of Darcy's Law. Specifically,

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

Where:

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

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

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

n_e = Effective porosity (unitless)

The general groundwater flow velocities were calculated for AP-1 Landfill based on hydraulic gradients, average hydraulic conductivity based on previous slug test data, and an estimated effective porosity of 0.20 for silty-sand (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 October 9, 2023 are presented in Table 4. The results for groundwater flow velocities ranged from 0.005 feet/day in the southern portion of the Site to 0.122 feet/day in the northeastern portion of the Site (1.9 and 44.6 feet/year, respectively) on October 9, 2023. 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 June (AP1PZ-6 only) and October 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). Piezometers 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 \pm 0.1 Standard Units
- Specific conductance \pm 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. 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 40 CFR Part 257 Appendix III and Appendix IV constituents. 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 for June (AP1PZ-6 only) and October 2023, and the corresponding formal analytical reports are in Appendix B.

The October 2023 surface water samples were also analyzed for 40 CFR Part 257 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 for October 2023, and the corresponding formal analytical report 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.



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3.0 Sample Methodology & Analyses

Blind field duplicate samples were collected by filling additional containers at the same location during the sampling events at a rate of one QA/QC sample per 10 groundwater samples. Field blanks were also collected to evaluate ambient conditions at the sampling locations at a rate of one QA/QC sample per 10 groundwater samples.

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

The analytical results provided in Tables 5 and 6 provide concentrations from the June (AP1PZ-6 only) and October 2023 groundwater 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 and the results are considered valid.



4.0 Groundwater and Surface Water Results

The analytical data for the 40 CFR Part 257 Appendix III and IV constituents for the October 2023 groundwater monitoring event and for the October 2023 surface water sampling event, are summarized in Table 5 and Table 6, respectively. The complete laboratory and field data sheets are included in Appendix B.



5.0 Monitoring Program Status

The AP-1 Landfill is currently in post-closure care. Groundwater monitoring has been initiated at the request of GA EPD. Georgia Power will continue routine groundwater monitoring and reporting at the Site. Reports will be submitted to the GA EPD semi-annually.



6.0 Conclusions & Future Actions

This *2023 Semi-Annual Groundwater Monitoring Report* was prepared to fulfill the requirements of the Interim Groundwater Monitoring Plan (Jacobs, 2021). Due to construction activities at the Site, groundwater sampling for the Fall of 2023 was completed for piezometer AP1PZ-6 on June 13, 2023, for the AP-1 Landfill. The remaining AP-1 Landfill piezometers were sampled in October 2023.. The next semi-annual sampling event is scheduled for January 2024. The January 2024 semi-annual monitoring event will include sampling and analysis of the full suites of 40 CFR Part 257 Appendix III and IV constituents.



7.0 References

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TABLES



TABLE 1
SUMMARY OF PIEZOMETER CONSTRUCTION
Georgia Power Company - Plant Arkwright
AP-1 Landfill
Macon, Georgia

| Well | Installation Date | Northing ⁽¹⁾ | Easting ⁽¹⁾ | Top of Casing Elevation (feet NAVD88) ⁽²⁾ | Ground Surface Elevation (feet NAVD88) ⁽²⁾ | Top of Screen Elevation (feet NAVD88) ⁽³⁾ | Bottom of Screen Elevation (feet NAVD88) ⁽³⁾ | Screen Length (feet) | Groundwater Zone Screened | Hydraulic Location |
|----------|-------------------|-------------------------|------------------------|------------------------------------------------------|-------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------|----------------------|---------------------------|--------------------|
| AP1GWA-1 | 4/20/2018 | 1066048.91 | 2439462.98 | 345.44 | 342.28 | 318.6 | 308.6 | 10.0 | Overburden/ Bedrock | Upgradient |
| AP1GWA-2 | 4/20/2018 | 1065095.10 | 2439623.37 | 341.42 | 338.55 | 320.9 | 310.9 | 10.0 | Overburden/ Bedrock | Upgradient |
| AP1PZ-1 | 5/1/2021 | 1062799.79 | 2440164.34 | 338.97 | 335.92 | 261.9 | 251.9 | 10.0 | Overburden/ Bedrock | Downgradient |
| AP1PZ-2 | 5/2/2021 | 1062573.21 | 2440300.14 | 339.58 | 336.64 | 287.5 | 277.5 | 10.0 | Bedrock | Downgradient |
| AP1PZ-3 | 5/4/2021 | 1062286.28 | 2440387.36 | 338.57 | 335.50 | 281.7 | 271.7 | 10.0 | Overburden/ Bedrock | Downgradient |
| AP1PZ-4 | 5/11/2021 | 1061989.86 | 2440520.65 | 338.36 | 334.98 | 281.4 | 271.4 | 10.0 | Overburden | Downgradient |
| AP1PZ-5 | 5/13/2021 | 1061645.61 | 2440599.18 | 339.81 | 336.61 | 283.1 | 273.1 | 10.0 | Overburden | Downgradient |
| AP1PZ-6* | 5/13/2021 | 1061273.40 | 2440714.78 | 347.56 | 344.25 | 285.4 | 275.4 | 10.0 | Overburden/PWR | Downgradient |
| AP1PZ-7 | 5/15/2021 | 1061483.62 | 2440573.47 | 340.91 | 337.56 | 273.7 | 263.7 | 10.0 | Overburden | Downgradient |
| AP1PZ-8 | 5/16/2021 | 1061721.72 | 2440362.39 | 338.31 | 334.94 | 282.7 | 272.7 | 10.0 | Overburden/PWR | Downgradient |
| AP1PZ-9 | 5/17/2021 | 1062083.33 | 2440187.59 | 337.62 | 334.14 | 291.4 | 281.4 | 10.0 | Bedrock | Downgradient |
| AP1PZ-10 | 5/19/2021 | 1062334.74 | 2440116.05 | 338.38 | 335.07 | 292.4 | 282.4 | 10.0 | Bedrock | Downgradient |
| AP1PZ-11 | 5/26/2021 | 1062615.94 | 2440044.48 | 338.98 | 335.78 | 276.2 | 266.2 | 10.0 | Overburden | Downgradient |

Notes:

1. Horizontal locations were referenced to Georgia State Plane West, North American Datum of 1983 (NAD 83).
2. Elevations are feet referenced to North American Vertical Datum of 1988 (NAVD 88).
3. Screen elevations were calculated using total depth and length of bottom sump.
4. PWR indicates Partially Weathered Rock.
5. * = Abandoned. AP1PZ-6 was abandoned on June 20 and 21, 2023.

TABLE 2
GROUNDWATER SAMPLING EVENT SUMMARY
Georgia Power Company - Plant Arkwright
AP-1 Landfill
Macon, Georgia

| Well ID | Hydraulic Location | Summary of Sampling Event |
|------------------------------------------------------|--------------------|---------------------------|
| | | October 9-11, 2023 |
| Purpose of Sampling Event | | Monitoring |
| AP-1 LANDFILL INTERIM MONITORING WELL NETWORK | | |
| AP1GWA-1 | Upgradient | X |
| AP1GWA-2 | Upgradient | X |
| AP1PZ-1 | Downgradient | X |
| AP1PZ-2 | Downgradient | X |
| AP1PZ-3 | Downgradient | X |
| AP1PZ-4 | Downgradient | X |
| AP1PZ-5 | Downgradient | X |
| AP1PZ-6* | Downgradient | X |
| AP1PZ-7 | Downgradient | X |
| AP1PZ-8 | Downgradient | X |
| AP1PZ-9 | Downgradient | X |
| AP1PZ-10 | Downgradient | X |
| AP1PZ-11 | Downgradient | X |

Notes:

X - Indicates well sampled during event

* AP1PZ-6 was sampled on June 13, 2023 and abandoned on June 20 and 21, 2023.

TABLE 3
SUMMARY OF GROUNDWATER ELEVATIONS
Georgia Power Company - Plant Arkwright
AP-1 Landfill
Macon, Georgia

| Well ID | Top of Casing Elevation (feet NAVD88) ⁽¹⁾ | Depth to Water (feet below TOC) ⁽²⁾ | Groundwater Elevation (feet NAVD88) ⁽¹⁾ |
|------------------|---------------------------------------------------------|---------------------------------------------------|-------------------------------------------------------|
| Measurement Date | | 10/9/2023 | |
| AP1GWA-1 | 345.44 | 26.96 | 318.48 |
| AP1GWA-2 | 341.42 | 19.67 | 321.75 |
| AP1PZ-1 | 338.97 | 45.73 | 293.24 |
| AP1PZ-2 | 339.58 | 43.04 | 296.54 |
| AP1PZ-3 | 338.57 | 43.65 | 294.92 |
| AP1PZ-4 | 338.36 | 48.02 | 290.34 |
| AP1PZ-5 | 339.81 | 49.55 | 290.26 |
| AP1PZ-7 | 340.91 | 50.93 | 289.98 |
| AP1PZ-8 | 338.31 | 47.34 | 290.97 |
| AP1PZ-9 | 337.62 | 42.14 | 295.48 |
| AP1PZ-10 | 338.38 | 39.96 | 298.42 |
| AP1PZ-11 | 338.98 | 41.23 | 297.75 |

Notes:

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

TABLE 4
GROUNDWATER FLOW VELOCITY CALCULATIONS
Georgia Power Company - Plant Arkwright
AP-1 Landfill
Macon, Georgia

| Potentiometric Map Date | Location | Groundwater Elevations in Well Pairs (h ₁ , h ₂) (feet) | | Change in Elevation (Δh) (feet) | Distance Measured (L) (feet) | Hydraulic Gradient (i) (feet/foot) | Average Hydraulic Conductivity (K) (feet/day) | Estimated Effective Porosity (n _e) | Calculated Groundwater Flow Velocity (V) (feet/day) | Calculated Groundwater Flow Velocity (V) (feet/year) |
|----------------------------|------------------------|-----------------------------------------------------------------------------------------|--------|---------------------------------------|------------------------------------|------------------------------------------|--------------------------------------------------------|------------------------------------------------------|--------------------------------------------------------------|---------------------------------------------------------------|
| | | | | | | | | | | |
| October 9, 2023 | AP1PZ-10 to AP1PZ-5 | 298.42 | 290.26 | 8.16 | 842 | 0.010 | 0.11 | 0.2 | 0.005 | 1.9 |
| | AP1PZ-11 to AP1PZ-1 | 297.75 | 293.24 | 4.51 | 222 | 0.020 | 1.20 | 0.2 | 0.122 | 44.6 |

Notes:

1. The geometric mean of the in-situ hydraulic conductivity (K) slug test values for AP1PZ-10 and AP1PZ-5 used for AP1PZ-10 to AP1PZ-5 calculation; the slug test K value for AP1PZ-11 used for the AP1PZ-11 to AP1PZ-1 calculation.
2. 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.

TABLE 5
ANALYTICAL DATA SUMMARY - GROUNDWATER, OCTOBER 2023
Georgia Power Company - Plant Arkwright
AP-1 Landfill
Macon, Georgia

| Substance | Well ID | | | | | | | | | | | | | |
|--------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------------|-------------|-------------|-------------|-------------|-------------|
| | AP1GWA-1 | AP1GWA-2 | AP1PZ-1 | AP1PZ-2 | AP1PZ-3 | AP1PZ-4 | AP1PZ-5 | AP1PZ-6 | AP1PZ-7 | AP1PZ-8 | AP1PZ-9 | AP1PZ-10 | AP1PZ-11 | |
| | 10/9/2023 | 10/9/2023 | 10/9/2023 | 10/9/2023 | 10/10/2023 | 10/10/2023 | 10/10/2023 | 6/13/2023 | 10/10/2023 | 10/10/2023 | 10/11/2023 | 10/10/2023 | 10/10/2023 | |
| APPENDIX III | Boron | 0.108 | 0.0734 | 0.355 | 0.470 | 1.71 | 4.02 | 7.16 | 6.95 | 2.76 | 2.88 | 0.707 | 0.357 | 0.143 |
| | Calcium | 19.3 | 6.91 | 33.2 | 205 | 434 | 418 | 589 | 460 | 383 | 311 | 72.3 | 90.4 | 27.6 |
| | Chloride | 1.77 | 1.81 | 3.13 | 2.98 | 4.77 | 5.59 | 7.01 | 7.77 | 6.29 | 2.72 | 8.68 | 10.9 | 1.20 |
| | Fluoride | 0.426 | 0.225 | 0.279 | 0.262 | < 0.165 | 0.565 | 0.409 J | < 0.500 | 0.270 J | 0.292 | 0.964 | 0.647 | 0.202 |
| | Sulfate | 58.3 | 2.17 | 105 | 801 | 1290 | 1370 | 1970 | 2480 | 1370 | 680 | 308 | 231 | 54.3 |
| | TDS | 139 | 52.0 | 211 | 1170 | 1830 | 2030 | 3080 | 3340 | 1960 | 1370 | 527 | 499 | 198 |
| | pH | 5.29 | 5.99 | 6.41 | 5.98 | 5.61 | 6.28 | 6.05 | 5.33 | 6.27 | 6.6 | 5.17 | 6.3 | 6.67 |
| APPENDIX IV | Antimony | < 0.00100 | < 0.00100 | < 0.00100 | < 0.00100 | < 0.00100 | < 0.00100 | < 0.00100 | < 0.00300 | < 0.00100 | < 0.00100 | < 0.00100 | < 0.00100 | < 0.00100 |
| | Arsenic | 0.00219 J | 0.00255 J | 0.00222 J | < 0.00200 | < 0.00200 | 0.00302 J | 0.00493 J | 0.00324 J | 0.00399 J | 0.00326 J | 0.00224 J | 0.00382 J | 0.00303 J |
| | Barium | 0.0609 | 0.0580 | 0.0422 | 0.0300 | 0.0254 | 0.0395 | 0.0362 | 0.0228 | 0.0421 | 0.0449 | 0.0252 | 0.0347 | 0.0234 |
| | Beryllium | 0.00187 | < 0.000200 | < 0.000200 | < 0.000200 | < 0.000200 | < 0.000200 | < 0.000200 | 0.00172 | < 0.000200 | < 0.000200 | 0.000523 | < 0.000200 | < 0.000200 |
| | Cadmium | 0.000410 J | < 0.000300 | < 0.000300 | 0.000689 J | 0.00195 | < 0.000300 | < 0.000300 | < 0.00100 | < 0.000300 | 0.00125 | 0.00112 | < 0.000300 | < 0.000300 |
| | Chromium | 0.00462 J | 0.00340 J | < 0.00300 | < 0.00300 | < 0.00300 | < 0.00300 | < 0.00300 | < 0.0100 | < 0.00300 | < 0.00300 | < 0.00300 | < 0.00300 | < 0.00300 |
| | Cobalt | 0.00672 | 0.0112 | 0.000610 J | 0.169 | 0.0639 | 0.000518 J | 0.0631 | 0.415 | 0.00123 | 0.00118 | 0.100 | 0.00140 | < 0.000300 |
| | Lead | < 0.000500 | < 0.000500 | < 0.000500 | < 0.000500 | < 0.000500 | < 0.000500 | < 0.000500 | < 0.00200 | < 0.000500 | < 0.000500 | < 0.000500 | < 0.000500 | < 0.000500 |
| | Lithium | 0.00944 J | < 0.00300 | 0.00408 J | 0.0214 | 0.0659 | 0.00657 J | 0.343 | 0.00923 J | 0.00302 J | 0.00315 J | 0.145 | 0.0189 | < 0.00300 |
| | Mercury | < 0.0000670 | < 0.0000670 | < 0.0000670 | < 0.0000670 | < 0.0000670 | < 0.0000670 | < 0.0000670 | < 0.000200 | < 0.0000670 | < 0.0000670 | < 0.0000670 | < 0.0000670 | < 0.0000670 |
| | Molybdenum | < 0.000200 | < 0.000200 | 0.000437 J | < 0.000200 | 0.000299 J | 0.00398 | 0.0437 | < 0.00100 | 0.00367 | 0.729 | 0.000323 J | 0.00214 | 0.000342 J |
| | Radium | 4.31 | 6.78 | 4.93 | 7.40 | 12.5 | 5.33 | 4.50 | 3.69 | 1.64 U | 3.27 | 5.37 | 11.6 | 1.77 U |
| | Selenium | 0.00299 J | < 0.00150 | < 0.00150 | < 0.00150 | < 0.00150 | < 0.00150 | < 0.00150 | 0.00251 J | < 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 | < 0.00200 | < 0.000600 | < 0.000600 | < 0.000600 | < 0.000600 | < 0.000600 |

Notes:

- Results for constituents are reported in milligrams per liter (mg/L). pH values are reported in standard units (s.u.)
- Radium results are reported in picocuries per liter (pCi/L).
- < indicates the constituent was not detected above the analytical method detection limit (MDL)
- J indicates the constituent was detected at such low levels that the precision of the laboratory instruments could not produce a reliable value.
Therefore, the value displayed (value J) is qualified by the laboratory as an estimated number.
- TDS indicates total dissolved solids.
- 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.
- AP1PZ-6 sampled on June 13, 2023 prior to abandonment on June 21, 2023.

TABLE 6
ANALYTICAL DATA SUMMARY - SURFACE WATER, OCTOBER 2023
Georgia Power Company - Plant Arkwright
AP-1 Landfill
Macon, Georgia

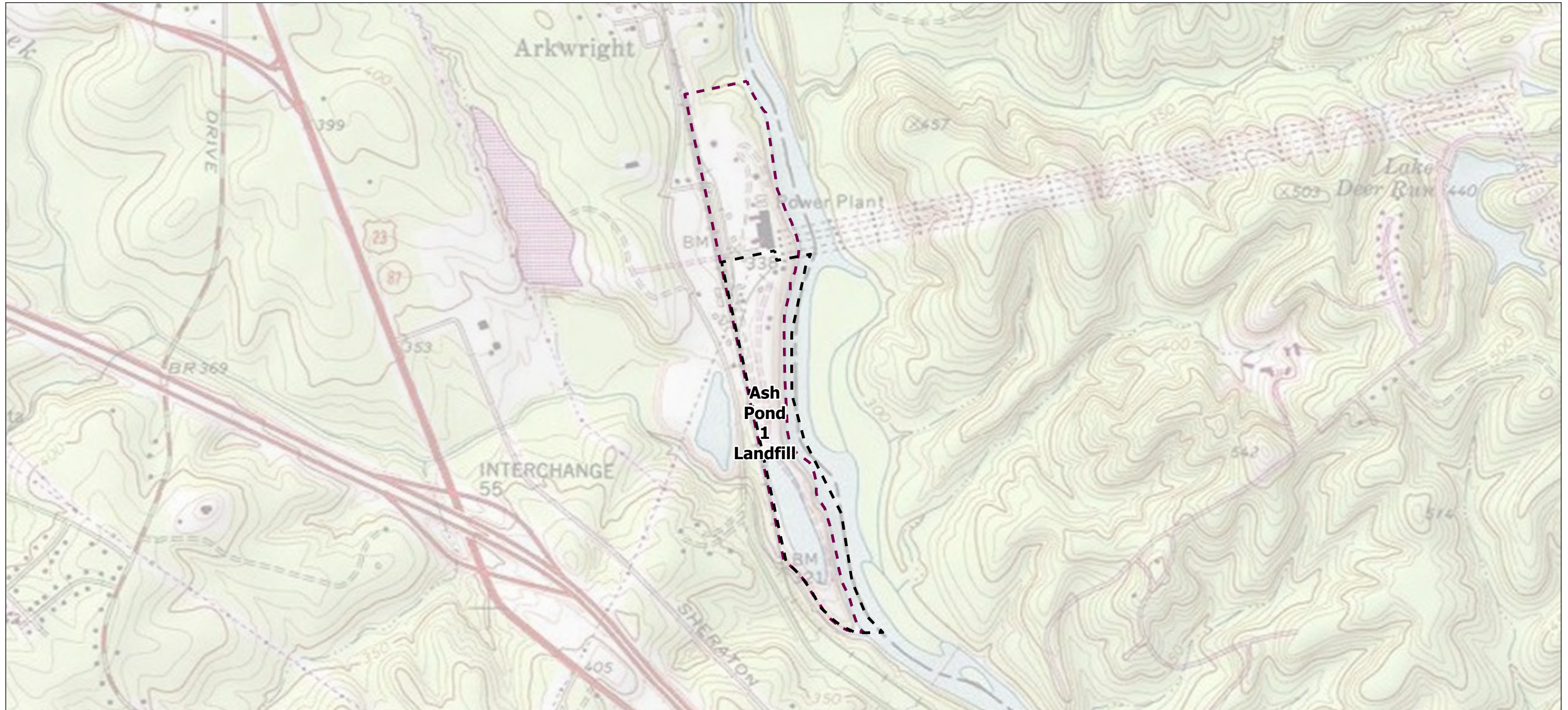
| Substance | | Surface Water Sample Location | | | | | |
|----------------------------|-------------------------------|-------------------------------|-----------|-----------|-----------|-----------|-----------|
| | | OR-0.8 | OR-0.3 | OR-0.1 | OR+0.25 | BC-0.3 | BC-0.1 |
| | | 10/3/2023 | 10/3/2023 | 10/3/2023 | 10/3/2023 | 10/3/2023 | 10/3/2023 |
| APPENDIX III | Boron | <0.027 | <0.027 | <0.027 | <0.027 | <0.027 | 0.045 |
| | Calcium | 7.4 | 7.2 | 7.4 | 7.2 | 12.9 | 15.0 |
| | Chloride | 9.0 | 9.0 | 8.9 | 9.0 | 9.3 | 9.2 |
| | Fluoride | <0.050 | <0.050 | <0.050 | <0.050 | 0.16 | 0.14 |
| | Sulfate | 6.4 | 6.3 | 6.4 | 6.5 | 11.6 | 14.7 |
| | TDS | 72.0 | 66.0 | 72.0 | 67.0 | 99.0 | 110 |
| | pH | 7.32 | 7.45 | 7.71 | 7.74 | 7.77 | 7.72 |
| APPENDIX IV | Antimony | <0.0012 | <0.0012 | <0.0012 | <0.0012 | <0.0012 | <0.0012 |
| | Arsenic | <0.0037 | <0.0037 | <0.0037 | <0.0037 | <0.0037 | <0.0037 |
| | Barium | 0.021 | 0.020 | 0.021 | 0.019 | 0.037 | 0.036 |
| | Beryllium | <0.000054 | <0.000054 | <0.000054 | <0.000054 | <0.000054 | <0.000054 |
| | Cadmium | <0.00011 | <0.00011 | <0.00011 | <0.00011 | <0.00011 | <0.00011 |
| | Chromium | <0.0011 | <0.0011 | <0.0011 | <0.0011 | <0.0011 | <0.0011 |
| | Cobalt | <0.00039 | <0.00039 | <0.00039 | <0.00039 | <0.00039 | <0.00039 |
| | Lead | <0.00012 | <0.00012 | <0.00012 | <0.00012 | <0.00012 | <0.00012 |
| | Lithium | <0.00073 | <0.00073 | <0.00073 | <0.00073 | <0.00073 | <0.00073 |
| | Mercury | <0.00013 | <0.00013 | <0.00013 | <0.00013 | <0.00013 | <0.00013 |
| | Molybdenum | <0.00074 | <0.00074 | <0.00074 | <0.00074 | <0.00074 | <0.00074 |
| | Radium | 0.106 | 0.160 | 0.549 | 0.187 | 0.302 | 0.297 |
| | Selenium | <0.0014 | <0.0014 | <0.0014 | <0.0014 | <0.0014 | <0.0014 |
| | Thallium | <0.00018 | <0.00018 | <0.00018 | <0.00018 | <0.00018 | <0.00018 |
| ADDITIONAL ANALYTES | Total Alkalinity | 32.7 | 32.4 | 33.1 | 33.1 | 60.9 | 61.8 |
| | Bicarbonate Alkalinity | 32.7 | 32.4 | 33.1 | 33.1 | 60.9 | 61.8 |
| | Magnesium | 2.0 | 2.0 | 2.0 | 2.0 | 5.5 | 6.4 |
| | Potassium | 3.6 | 3.5 | 3.3 | 3.4 | 2.7 | 2.8 |
| | Sodium | 9.4 | 9.1 | 9.5 | 9.2 | 11.2 | 11.3 |



Notes:

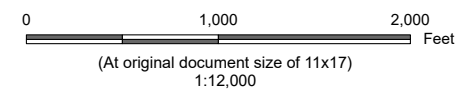
1. Results for constituents are reported in milligrams per liter (mg/L). pH values are reported in standard units (s.u.).
2. Radium results are reported in picocuries per liter (pCi/L).
3. < indicates the constituent was not detected above the analytical method detection limit (MDL)
4. TDS indicates 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.

FIGURES





- Legend
-  Ash Pond 1 Landfill Permit Boundary
 -  Ash Pond 1 Tax Parcel



Project Location
Macon, Georgia

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

Client/Project
Georgia Power
2023 Semi-Annual Groundwater Monitoring Report
Plant Arkwright Ash Pond 1 Landfill

Figure No.

1

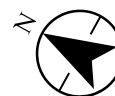
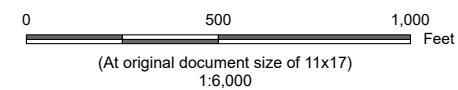
Title

Site Location Map

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



- Legend**
- Piezometer
 - ⊕ Well
 - ⊕ Abandoned Piezometer
 - ⊕ Surface Water Sampling Location
 - Beaverdam Creek
 - Ash Pond 1 Landfill Permit Boundary
 - Limit of Client Imagery (dated 1/22/2024)



Project Location
Macon, Georgia

Prepared by DMB on 2/26/2024
TR by CS on 2/26/2024
IR by JK on 2/26/2024

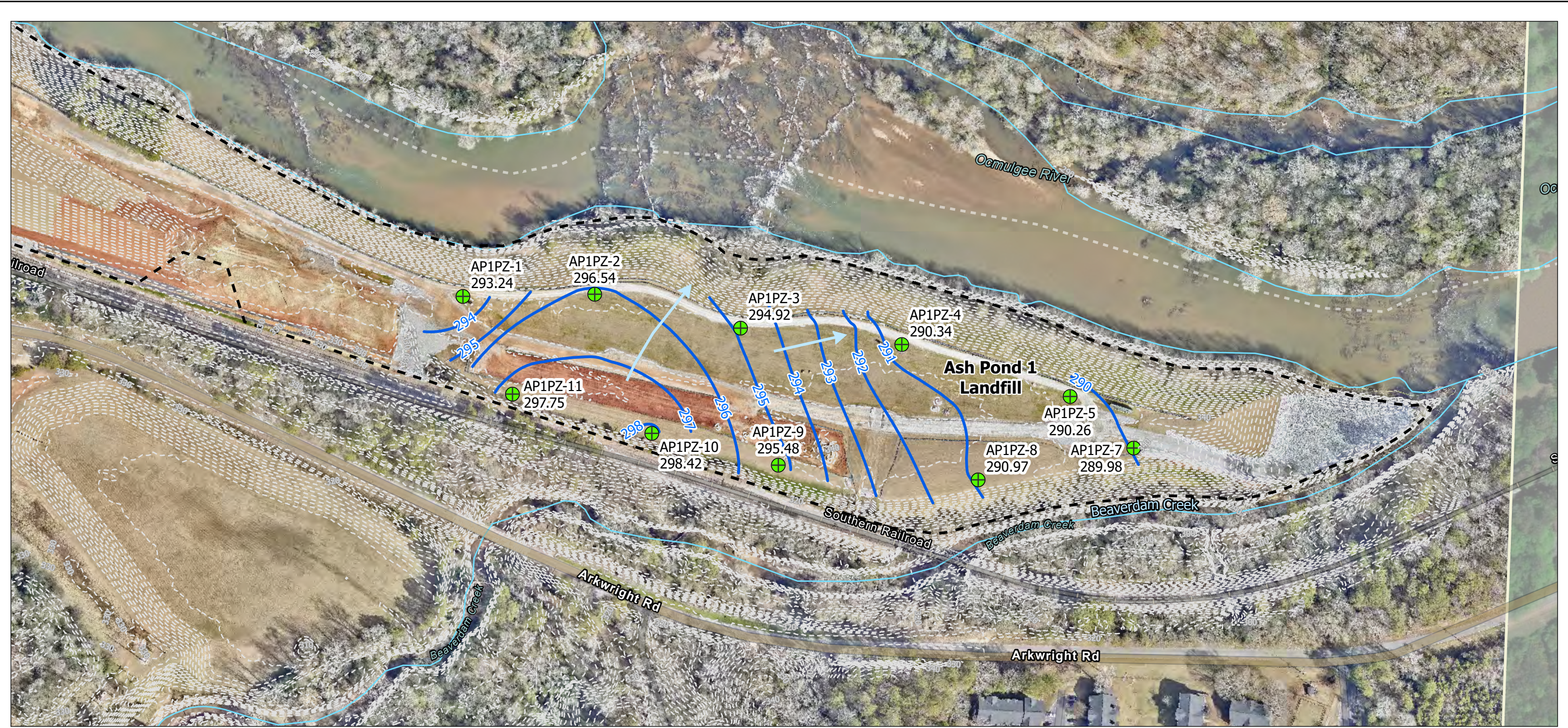
Client/Project
Georgia Power
2023 Semi-Annual Groundwater Monitoring Report
Plant Arkwright Ash Pond 1 Landfill
175569434

Figure No.

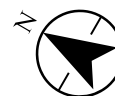
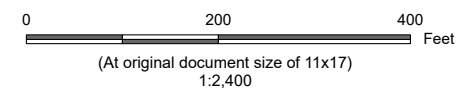
2

Title

**Piezometer and Surface Water
Sample Locations Map**



- Legend**
- ⊕ Piezometer Location
 - Beaverdam Creek/Ocmulgee River (Approximate)
 - Interpreted Groundwater Flow Direction
 - Potentiometric Surface Contour Oct 2023 (feet (ft) NAVD88)
 - Topographic Contour 2024 (2 ft interval)
 - Approximate Limits of Ash Pond 1 Landfill
 - Limit of Client Imagery (dated 1/22/2024)
 - 293.24 Groundwater Elevation (ft NAVD88)
 - AP1GWA-1 and AP1GWA-2 not included in contouring



Project Location
Macon, Georgia

Client/Project
Georgia Power
2023 Semi-Annual Groundwater Monitoring Report
Plant Arkwright Ash Pond 1 Landfill

Figure No.
3

Title
**Potentiometric Surface Contour
Map AP-1 Landfill - October 9, 2023**

Prepared by DMB on 2/26/2024
TR by CS on 2/26/2024
IR by JK on 2/26/2024
175569434

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: 10/9/2023
 Monitoring Well No.: AP1GWA-1
 Priority Maintenance Item Identified: N/A

| | Description | Yes | No | NA | Comments |
|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----|----|----------|
| 1 | Location/Identification | | | | |
| a | Is the well visible and accessible? | X | | | |
| b | Is the well properly identified with the correct well ID? | X | | | |
| c | Is the well in a high traffic area and does the well require protection from traffic? | | X | | |
| d | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X | | | |
| 2 | Protective Casing | | | | |
| a | Is the protective casing free from apparent damage and able to be secured? | X | | | |
| b | Is the casing free of degradation or deterioration? | X | | | |
| c | Does the casing have a functioning weep hole? | X | | | |
| d | Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | X | | | |
| e | Is the well locked and is the lock in good condition? | X | | | |
| 3 | Surface pad | | | | |
| a | Is the well pad in good condition (not cracked or broken)? | X | | | |
| b | Is the well pad sloped away from the protective casing? | X | | | |
| c | 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). | X | | | |
| e | Is the pad surface clean (not covered with sediment or debris)? | X | | | |
| 4 | Internal casing | | | | |
| a | 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)? | X | | | |
| c | Is the well properly vented for equilibrium of air pressure? | X | | | |
| d | Is the survey point clearly marked on the inner casing? | X | | | |
| e | Is the depth of the well consistent with the original well log? | X | | | |
| 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) | X | | | |
| 5 | Sampling (Groundwater Wells Only) | | | | |
| 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 | | | |
| c | Does the well require redevelopment (low-flow, turbid)? | | X | | |

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

N/A

Prepared By / Date: John Myer 10/9/2023

DL/SME Review By / Date:

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: 10/9/2023
 Monitoring Well No.: AP1GWA-2
 Priority Maintenance Item Identified: Missing dedicated tubing.

| Description | | Yes | No | NA | Comments |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----|----|------------------------------------------------------------------------|
| 1 | Location/Identification | | | | |
| a | Is the well visible and accessible? | X | | | |
| b | Is the well properly identified with the correct well ID? | X | | | |
| c | Is the well in a high traffic area and does the well require protection from traffic? | X | | | Well is located at the confluence of two high-traffic roads; truck can |
| d | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X | | | |
| 2 | Protective Casing | | | | |
| a | Is the protective casing free from apparent damage and able to be secured? | X | | | |
| b | Is the casing free of degradation or deterioration? | X | | | |
| c | Does the casing have a functioning weep hole? | X | | | |
| d | Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | X | | | |
| e | Is the well locked and is the lock in good condition? | X | | | |
| 3 | Surface pad | | | | |
| a | Is the well pad in good condition (not cracked or broken)? | X | | | |
| b | Is the well pad sloped away from the protective casing? | X | | | |
| c | 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). | X | | | |
| e | Is the pad surface clean (not covered with sediment or debris)? | X | | | |
| 4 | Internal casing | | | | |
| a | 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)? | X | | | |
| c | Is the well properly vented for equilibrium of air pressure? | X | | | |
| d | Is the survey point clearly marked on the inner casing? | | X | | |
| e | Is the depth of the well consistent with the original well log? | X | | | |
| 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) | X | | | |
| 5 | Sampling (Groundwater Wells Only) | | | | |
| 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 | | Dedicated length of tubing is missing from gauging portal. |
| c | Does the well require redevelopment (low-flow, turbid)? | | X | | Well breathes at 400 mL/min. |

Comments: Include inspection details, including items requiring repair or maintenance.
 Well is protected on two sides by concrete barriers. Defunct wasp nest inside outer casing and defunct ant hill on edge of well pad.
 Well pad and surrounding area are in need of mild landscaping maintenance.

Prepared By / Date: Dylan Quintal 10/12/2023
 DL/SME Review By / Date:

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: 10/9/2023
 Monitoring Well No.: AP1PZ-1
 Priority Maintenance Item Identified: N/A

| | Description | Yes | No | NA | Comments |
|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----|----|----------|
| 1 | Location/Identification | | | | |
| a | Is the well visible and accessible? | X | | | |
| b | Is the well properly identified with the correct well ID? | X | | | |
| c | Is the well in a high traffic area and does the well require protection from traffic? | | X | | |
| d | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X | | | |
| 2 | Protective Casing | | | | |
| a | Is the protective casing free from apparent damage and able to be secured? | X | | | |
| b | Is the casing free of degradation or deterioration? | X | | | |
| c | Does the casing have a functioning weep hole? | X | | | |
| d | Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | X | | | |
| e | Is the well locked and is the lock in good condition? | X | | | |
| 3 | Surface pad | | | | |
| a | Is the well pad in good condition (not cracked or broken)? | X | | | |
| b | Is the well pad sloped away from the protective casing? | X | | | |
| c | 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). | X | | | |
| e | Is the pad surface clean (not covered with sediment or debris)? | X | | | |
| 4 | Internal casing | | | | |
| a | 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)? | X | | | |
| c | Is the well properly vented for equilibrium of air pressure? | X | | | |
| d | Is the survey point clearly marked on the inner casing? | X | | | |
| e | Is the depth of the well consistent with the original well log? | X | | | |
| 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) | X | | | |
| 5 | Sampling (Groundwater Wells Only) | | | | |
| 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 | | | |
| c | Does the well require redevelopment (low-flow, turbid)? | | X | | |

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

N/A

Prepared By / Date: John Myer 10/9/2023

DL/SME Review By / Date:

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: 10/12/2023
 Monitoring Well No.: AP1PZ-2
 Priority Maintenance Item Identified: N/A

| Description | | Yes | No | NA | Comments |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----|----|-------------------------------------------------------------------|
| 1 | Location/Identification | | | | |
| a | Is the well visible and accessible? | X | | | |
| b | Is the well properly identified with the correct well ID? | X | | | |
| c | Is the well in a high traffic area and does the well require protection from traffic? | X | | | Well is located on circuit road used exclusively by pickup trucks |
| d | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X | | | |
| 2 | Protective Casing | | | | |
| a | Is the protective casing free from apparent damage and able to be secured? | X | | | |
| b | Is the casing free of degradation or deterioration? | X | | | |
| c | Does the casing have a functioning weep hole? | X | | | |
| d | Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | X | | | |
| e | Is the well locked and is the lock in good condition? | X | | | |
| 3 | Surface pad | | | | |
| a | Is the well pad in good condition (not cracked or broken)? | X | | | |
| b | Is the well pad sloped away from the protective casing? | X | | | |
| c | 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). | X | | | |
| e | Is the pad surface clean (not covered with sediment or debris)? | X | | | |
| 4 | Internal casing | | | | |
| a | 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)? | X | | | |
| c | Is the well properly vented for equilibrium of air pressure? | X | | | |
| d | Is the survey point clearly marked on the inner casing? | X | | | |
| e | Is the depth of the well consistent with the original well log? | X | | | |
| 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) | X | | | |
| 5 | Sampling (Groundwater Wells Only) | | | | |
| 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 | | | |
| c | Does the well require redevelopment (low-flow, turbid)? | | X | | Well breathes at 300 mL/min. |

Comments: Include inspection details, including items requiring repair or maintenance.
 Well is protected on two sides by concrete barriers. Ant hill located on or near well pad; presented no significant hazard.

Prepared By / Date: Dylan Quintal 10/12/2023
 DL/SME Review By / Date:

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: 10/9/2023
 Monitoring Well No.: AP1PZ-3
 Priority Maintenance Item Identified: Grass cutting; Ant mound

| | Description | Yes | No | NA | Comments |
|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----|----|----------------------------------------|
| 1 | Location/Identification | | | | |
| a | Is the well visible and accessible? | X | | | |
| b | Is the well properly identified with the correct well ID? | X | | | |
| c | Is the well in a high traffic area and does the well require protection from traffic? | | X | | |
| d | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X | | | |
| 2 | Protective Casing | | | | |
| a | Is the protective casing free from apparent damage and able to be secured? | X | | | |
| b | Is the casing free of degradation or deterioration? | X | | | |
| c | Does the casing have a functioning weep hole? | X | | | |
| d | Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | X | | | |
| e | Is the well locked and is the lock in good condition? | X | | | |
| 3 | Surface pad | | | | |
| a | Is the well pad in good condition (not cracked or broken)? | X | | | |
| b | Is the well pad sloped away from the protective casing? | X | | | |
| c | 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). | | X | | Ant mound found; Grass needs to be cut |
| e | Is the pad surface clean (not covered with sediment or debris)? | X | | | |
| 4 | Internal casing | | | | |
| a | 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)? | X | | | |
| c | Is the well properly vented for equilibrium of air pressure? | X | | | |
| d | Is the survey point clearly marked on the inner casing? | X | | | |
| e | Is the depth of the well consistent with the original well log? | X | | | |
| 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) | X | | | |
| 5 | Sampling (Groundwater Wells Only) | | | | |
| 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 | | | |
| c | Does the well require redevelopment (low-flow, turbid)? | | X | | |

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

N/A

Prepared By / Date: John Myer 10/9/2023

DL/SME Review By / Date:

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: 10/12/2023
 Monitoring Well No.: AP1PZ-4
 Priority Maintenance Item Identified: N/A

| | Description | Yes | No | NA | Comments |
|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----|----|-------------------------------------------------------------------|
| 1 | Location/Identification | | | | |
| a | Is the well visible and accessible? | X | | | |
| b | Is the well properly identified with the correct well ID? | X | | | |
| c | Is the well in a high traffic area and does the well require protection from traffic? | X | | | Well is located on circuit road used exclusively by pickup trucks |
| d | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X | | | |
| 2 | Protective Casing | | | | |
| a | Is the protective casing free from apparent damage and able to be secured? | X | | | |
| b | Is the casing free of degradation or deterioration? | X | | | |
| c | Does the casing have a functioning weep hole? | X | | | |
| d | Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | X | | | |
| e | Is the well locked and is the lock in good condition? | X | | | |
| 3 | Surface pad | | | | |
| a | Is the well pad in good condition (not cracked or broken)? | X | | | |
| b | Is the well pad sloped away from the protective casing? | X | | | |
| c | 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). | X | | | |
| e | Is the pad surface clean (not covered with sediment or debris)? | X | | | |
| 4 | Internal casing | | | | |
| a | 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)? | X | | | |
| c | Is the well properly vented for equilibrium of air pressure? | X | | | |
| d | Is the survey point clearly marked on the inner casing? | X | | | |
| e | Is the depth of the well consistent with the original well log? | X | | | |
| 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) | X | | | |
| 5 | Sampling (Groundwater Wells Only) | | | | |
| 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 | | | |
| c | Does the well require redevelopment (low-flow, turbid)? | | X | | Well breathes at 100 mL/min. |

Comments: Include inspection details, including items requiring repair or maintenance.
 Well is protected on two sides by concrete barriers. Small watercraft located on west side of well pad.

Prepared By / Date: Dylan Quintal 10/12/2023
 DL/SME Review By / Date:

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: 10/9/2023
 Monitoring Well No.: AP1PZ-5
 Priority Maintenance Item Identified: Grass Cutting

| | Description | Yes | No | NA | Comments |
|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----|----|-----------------------|
| 1 | Location/Identification | | | | |
| a | Is the well visible and accessible? | X | | | |
| b | Is the well properly identified with the correct well ID? | X | | | |
| c | Is the well in a high traffic area and does the well require protection from traffic? | | X | | |
| d | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X | | | |
| 2 | Protective Casing | | | | |
| a | Is the protective casing free from apparent damage and able to be secured? | X | | | |
| b | Is the casing free of degradation or deterioration? | X | | | |
| c | Does the casing have a functioning weep hole? | X | | | |
| d | Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | X | | | |
| e | Is the well locked and is the lock in good condition? | X | | | |
| 3 | Surface pad | | | | |
| a | Is the well pad in good condition (not cracked or broken)? | X | | | |
| b | Is the well pad sloped away from the protective casing? | X | | | |
| c | 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). | | X | | Grass needs to be cut |
| e | Is the pad surface clean (not covered with sediment or debris)? | X | | | |
| 4 | Internal casing | | | | |
| a | 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)? | X | | | |
| c | Is the well properly vented for equilibrium of air pressure? | X | | | |
| d | Is the survey point clearly marked on the inner casing? | X | | | |
| e | Is the depth of the well consistent with the original well log? | X | | | |
| 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) | X | | | |
| 5 | Sampling (Groundwater Wells Only) | | | | |
| 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 | | | |
| c | Does the well require redevelopment (low-flow, turbid)? | | X | | |

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

N/A

Prepared By / Date: John Myer 10/9/2023

DL/SME Review By / Date:

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: 10/9/2023
 Monitoring Well No.: AP1PZ-7
 Priority Maintenance Item Identified: N/A

| | Description | Yes | No | NA | Comments |
|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----|----|----------|
| 1 | Location/Identification | | | | |
| a | Is the well visible and accessible? | X | | | |
| b | Is the well properly identified with the correct well ID? | X | | | |
| c | Is the well in a high traffic area and does the well require protection from traffic? | | X | | |
| d | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X | | | |
| 2 | Protective Casing | | | | |
| a | Is the protective casing free from apparent damage and able to be secured? | X | | | |
| b | Is the casing free of degradation or deterioration? | X | | | |
| c | Does the casing have a functioning weep hole? | X | | | |
| d | Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | X | | | |
| e | Is the well locked and is the lock in good condition? | X | | | |
| 3 | Surface pad | | | | |
| a | Is the well pad in good condition (not cracked or broken)? | X | | | |
| b | Is the well pad sloped away from the protective casing? | X | | | |
| c | 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). | X | | | |
| e | Is the pad surface clean (not covered with sediment or debris)? | X | | | |
| 4 | Internal casing | | | | |
| a | 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)? | X | | | |
| c | Is the well properly vented for equilibrium of air pressure? | X | | | |
| d | Is the survey point clearly marked on the inner casing? | X | | | |
| e | Is the depth of the well consistent with the original well log? | X | | | |
| 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) | X | | | |
| 5 | Sampling (Groundwater Wells Only) | | | | |
| 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 | | | |
| c | Does the well require redevelopment (low-flow, turbid)? | | X | | |

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

N/A

Prepared By / Date: John Myer 10/9/2023

DL/SME Review By / Date:

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: 10/12/2023
 Monitoring Well No.: AP1PZ-8
 Priority Maintenance Item Identified: Access via wattles and landscaping.

| | Description | Yes | No | NA | Comments |
|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----|----|--------------------------------|
| 1 | Location/Identification | | | | |
| a | Is the well visible and accessible? | | X | | Well cannot be easily accessed |
| b | Is the well properly identified with the correct well ID? | X | | | |
| c | Is the well in a high traffic area and does the well require protection from traffic? | | X | | |
| d | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X | | | |
| 2 | Protective Casing | | | | |
| a | Is the protective casing free from apparent damage and able to be secured? | X | | | |
| b | Is the casing free of degradation or deterioration? | X | | | |
| c | Does the casing have a functioning weep hole? | X | | | |
| d | Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | X | | | |
| e | Is the well locked and is the lock in good condition? | X | | | |
| 3 | Surface pad | | | | |
| a | Is the well pad in good condition (not cracked or broken)? | X | | | |
| b | Is the well pad sloped away from the protective casing? | X | | | |
| c | 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). | X | | | |
| e | Is the pad surface clean (not covered with sediment or debris)? | X | | | |
| 4 | Internal casing | | | | |
| a | 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)? | X | | | |
| c | Is the well properly vented for equilibrium of air pressure? | X | | | |
| d | Is the survey point clearly marked on the inner casing? | X | | | |
| e | Is the depth of the well consistent with the original well log? | X | | | |
| 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) | X | | | |
| 5 | Sampling (Groundwater Wells Only) | | | | |
| 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 | | | |
| c | Does the well require redevelopment (low-flow, turbid)? | | X | | Well breathes at 100 mL/min. |

Comments: Include inspection details, including items requiring repair or maintenance.
 Well located behind wattles in less well-maintained area; requires landscaping maintenance.

Prepared By / Date: Dylan Quintal 10/12/2023
 DL/SME Review By / Date:

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: 10/9/2023
 Monitoring Well No.: AP1PZ-9
 Priority Maintenance Item Identified: Grass Cutting

| | Description | Yes | No | NA | Comments |
|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----|----|-----------------------|
| 1 | Location/Identification | | | | |
| a | Is the well visible and accessible? | X | | | |
| b | Is the well properly identified with the correct well ID? | X | | | |
| c | Is the well in a high traffic area and does the well require protection from traffic? | | X | | |
| d | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X | | | |
| 2 | Protective Casing | | | | |
| a | Is the protective casing free from apparent damage and able to be secured? | X | | | |
| b | Is the casing free of degradation or deterioration? | X | | | |
| c | Does the casing have a functioning weep hole? | X | | | |
| d | Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | X | | | |
| e | Is the well locked and is the lock in good condition? | X | | | |
| 3 | Surface pad | | | | |
| a | Is the well pad in good condition (not cracked or broken)? | X | | | |
| b | Is the well pad sloped away from the protective casing? | X | | | |
| c | 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). | | X | | Grass needs to be cut |
| e | Is the pad surface clean (not covered with sediment or debris)? | X | | | |
| 4 | Internal casing | | | | |
| a | 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)? | X | | | |
| c | Is the well properly vented for equilibrium of air pressure? | X | | | |
| d | Is the survey point clearly marked on the inner casing? | X | | | |
| e | Is the depth of the well consistent with the original well log? | X | | | |
| 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) | X | | | |
| 5 | Sampling (Groundwater Wells Only) | | | | |
| 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 | | | |
| c | Does the well require redevelopment (low-flow, turbid)? | | X | | |

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

N/A

Prepared By / Date: John Myer 10/9/2023

DL/SME Review By / Date:

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: 10/12/2023
 Monitoring Well No.: AP1PZ-10
 Priority Maintenance Item Identified: Tilted bollard.

| Description | | Yes | No | NA | Comments |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----|----|----------------------------------|
| 1 | Location/Identification | | | | |
| a | Is the well visible and accessible? | | X | | Well cannot be easily seen or |
| b | Is the well properly identified with the correct well ID? | X | | | |
| c | Is the well in a high traffic area and does the well require protection from traffic? | | X | | |
| d | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X | | | |
| 2 | Protective Casing | | | | |
| a | Is the protective casing free from apparent damage and able to be secured? | X | | | |
| b | Is the casing free of degradation or deterioration? | X | | | |
| c | Does the casing have a functioning weep hole? | X | | | |
| d | Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | X | | | |
| e | Is the well locked and is the lock in good condition? | X | | | |
| 3 | Surface pad | | | | |
| a | Is the well pad in good condition (not cracked or broken)? | X | | | |
| b | Is the well pad sloped away from the protective casing? | X | | | |
| c | 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). | X | | | |
| e | Is the pad surface clean (not covered with sediment or debris)? | X | | | Ant hill located on edge of well |
| 4 | Internal casing | | | | |
| a | 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)? | X | | | |
| c | Is the well properly vented for equilibrium of air pressure? | X | | | |
| d | Is the survey point clearly marked on the inner casing? | X | | | |
| e | Is the depth of the well consistent with the original well log? | X | | | |
| 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) | X | | | |
| 5 | Sampling (Groundwater Wells Only) | | | | |
| 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 | | | |
| c | Does the well require redevelopment (low-flow, turbid)? | | X | | Well breathes at 100 mL/min. |

Comments: Include inspection details, including items requiring repair or maintenance.
 Southeast bollard does not stand completely vertically. Active ant hill located on edge of well pad. Area surrounding well pad in need of landscaping maintenance.

Prepared By / Date: Dylan Quintal 10/12/2023
 DL/SME Review By / Date:

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: 10/12/2023
 Monitoring Well No.: AP1PZ-11
 Priority Maintenance Item Identified: Access via wattles and landscaping.

| | Description | Yes | No | NA | Comments |
|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----|----|----------------------------------|
| 1 | Location/Identification | | | | |
| a | Is the well visible and accessible? | | X | | Well cannot be easily seen or |
| b | Is the well properly identified with the correct well ID? | X | | | |
| c | Is the well in a high traffic area and does the well require protection from traffic? | | X | | |
| d | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X | | | |
| 2 | Protective Casing | | | | |
| a | Is the protective casing free from apparent damage and able to be secured? | X | | | |
| b | Is the casing free of degradation or deterioration? | X | | | |
| c | Does the casing have a functioning weep hole? | X | | | |
| d | Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | X | | | |
| e | Is the well locked and is the lock in good condition? | X | | | |
| 3 | Surface pad | | | | |
| a | Is the well pad in good condition (not cracked or broken)? | X | | | |
| b | Is the well pad sloped away from the protective casing? | X | | | |
| c | 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). | X | | | |
| e | Is the pad surface clean (not covered with sediment or debris)? | | X | | Ant hill located on edge of well |
| 4 | Internal casing | | | | |
| a | 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)? | X | | | |
| c | Is the well properly vented for equilibrium of air pressure? | X | | | |
| d | Is the survey point clearly marked on the inner casing? | X | | | |
| e | Is the depth of the well consistent with the original well log? | X | | | |
| 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) | X | | | |
| 5 | Sampling (Groundwater Wells Only) | | | | |
| 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 | | | |
| c | Does the well require redevelopment (low-flow, turbid)? | | X | | Well breathes at 200 mL/min. |

Comments: Include inspection details, including items requiring repair or maintenance.
 Well located behind wattles in less well-maintained area; requires landscaping maintenance.

Prepared By / Date: Dylan Quintal 10/12/2023
 DL/SME Review By / Date:

APPENDIX B

Field Sampling Data and Analytical Data Reports



B.1 Field Sampling Data



Low-Flow Test Report:

Test Date / Time: 10/9/2023 1:11:56 PM

Project: Arkwright

Operator Name: J. Myer

| | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|
| Location Name: AP1GWA-1 Latitude: 32.930019061764 Longitude: -83.7010088190436 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 26.8 ft Total Depth: 37.5 ft Initial Depth to Water: 26.96 ft | Pump Type: Dedicated Bladder Pump Tubing Type: HDPE Pump Intake From TOC: 31.8 ft Estimated Total Volume Pumped: 7500 ml Flow Cell Volume: 90 ml Final Flow Rate: 300 ml/min Final Draw Down: 0.19 ft | Instrument Used: Aqua TROLL 400 Serial Number: 850751 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|

Test Notes:

Heron Instruments Dipper-T ID: WL006

MP50 SN: 26

ID: 103

Pressure: 25 psi

Weather Conditions:

Sunny 71 F

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|-------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
| | | +/- 0.1 | +/- 0.5 | +/- 5 % | +/- 10 % | +/- 10 % | +/- 10 | +/- 0.3 | |
| 10/9/2023 1:11 PM | 00:00 | 5.32 pH | 22.31 °C | 203.05 µS/cm | 4.21 mg/L | 2.44 NTU | 188.7 mV | 27.15 ft | 300.00 ml/min |
| 10/9/2023 1:16 PM | 05:00 | 5.25 pH | 20.71 °C | 203.67 µS/cm | 3.15 mg/L | 2.52 NTU | 161.0 mV | 27.15 ft | 300.00 ml/min |
| 10/9/2023 1:21 PM | 10:00 | 5.29 pH | 20.66 °C | 203.66 µS/cm | 3.06 mg/L | 2.04 NTU | 180.8 mV | 27.15 ft | 300.00 ml/min |
| 10/9/2023 1:26 PM | 15:00 | 5.30 pH | 20.62 °C | 202.08 µS/cm | 3.03 mg/L | 2.10 NTU | 145.2 mV | 27.15 ft | 300.00 ml/min |
| 10/9/2023 1:31 PM | 20:00 | 5.30 pH | 20.62 °C | 202.21 µS/cm | 3.01 mg/L | 2.30 NTU | 138.7 mV | 27.15 ft | 300.00 ml/min |
| 10/9/2023 1:36 PM | 25:00 | 5.29 pH | 20.66 °C | 201.95 µS/cm | 3.00 mg/L | 3.10 NTU | 135.2 mV | 27.15 ft | 300.00 ml/min |

Samples

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

| | |
|---------------|------------------------------------------------------------------------------------|
| ARK-AP1GWA-1 | 1345 6 bottles Metals Radium TDS Anions |
| ARK-AP1-FB-01 | 1405 6 bottles Metals Radium TDS Anions DI water provided by AIR |

Low-Flow Test Report:

Test Date / Time: 10/9/2023 1:40:42 PM

Project: Arkwright

Operator Name: Dylan Quintal

| | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|
| Location Name: Arkwright, AP-1, AP1GWA-2 Latitude: 32.9273346601797 Longitude: -83.7005548551679 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 20.5 ft Total Depth: 31.1 ft Initial Depth to Water: 19.67 ft | Pump Type: Dedicated Bladder Pump Tubing Type: HDPE Pump Intake From TOC: 25.3 ft Estimated Total Volume Pumped: 16000 ml Flow Cell Volume: 90 ml Final Flow Rate: 400 ml/min Final Draw Down: 0 ft | Instrument Used: Aqua TROLL 400 Serial Number: 850762 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|

Test Notes:

Heron Dipper-T SN: 11FF2205014ML

MP50 SN: 22

ID: 103

Pressure: 35 psi

Weather Conditions:

Sunny, 73F

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|-------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
| | | +/- 0.1 | +/- 0.5 | +/- 5 % | +/- 10 % | +/- 10 % | +/- 10 | +/- 0.3 | |
| 10/9/2023 1:40 PM | 00:00 | 6.01 pH | 21.68 °C | 87.35 µS/cm | 3.50 mg/L | 27.50 NTU | 49.9 mV | 19.67 ft | 400.00 ml/min |
| 10/9/2023 1:45 PM | 05:00 | 6.00 pH | 21.80 °C | 91.00 µS/cm | 3.22 mg/L | 18.20 NTU | 16.1 mV | 19.67 ft | 400.00 ml/min |
| 10/9/2023 1:50 PM | 10:00 | 6.00 pH | 21.83 °C | 93.36 µS/cm | 3.01 mg/L | 15.10 NTU | -2.5 mV | 19.67 ft | 400.00 ml/min |
| 10/9/2023 1:55 PM | 15:00 | 6.00 pH | 21.87 °C | 94.40 µS/cm | 2.90 mg/L | 11.30 NTU | -5.1 mV | 19.67 ft | 400.00 ml/min |
| 10/9/2023 2:00 PM | 20:00 | 5.95 pH | 21.91 °C | 94.79 µS/cm | 2.86 mg/L | 8.17 NTU | -16.2 mV | 19.67 ft | 400.00 ml/min |
| 10/9/2023 2:05 PM | 25:00 | 5.95 pH | 21.84 °C | 95.81 µS/cm | 2.72 mg/L | 7.42 NTU | -20.3 mV | 19.67 ft | 400.00 ml/min |
| 10/9/2023 2:10 PM | 30:00 | 5.98 pH | 21.87 °C | 96.42 µS/cm | 2.59 mg/L | 5.51 NTU | -26.6 mV | 19.67 ft | 400.00 ml/min |
| 10/9/2023 2:15 PM | 35:00 | 5.99 pH | 21.93 °C | 97.22 µS/cm | 2.44 mg/L | 3.99 NTU | -33.2 mV | 19.67 ft | 400.00 ml/min |
| 10/9/2023 2:20 PM | 40:00 | 5.99 pH | 21.89 °C | 97.80 µS/cm | 2.36 mg/L | 3.64 NTU | -37.9 mV | 19.67 ft | 400.00 ml/min |

Samples

| Sample ID: | Description: |
|---------------|-------------------------------------------------------------|
| ARK-AP1GWA-2 | Sample time: 1430 6 bottles: Metals, Anions, TDS, Radium |
| ARK-AP1-EB-01 | 6 bottles: Metals, Anions, TDS, Radium |

Low-Flow Test Report:

Test Date / Time: 10/9/2023 3:31:25 PM

Project: Arkwright

Operator Name: J. Myer

| | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|
| Location Name: AP1PZ-1 Latitude: 32.9210574183589 Longitude: -83.6987658217549 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 77 ft Total Depth: 87.6 ft Initial Depth to Water: 45.73 ft | Pump Type: Dedicated Bladder Pump Tubing Type: HDPE Pump Intake From TOC: 82.6 ft Estimated Total Volume Pumped: 4000 ml Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 2.33 ft | Instrument Used: Aqua TROLL 400 Serial Number: 850751 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|

Test Notes:

Heron Instruments Dipper-T SN WL 006

MP50 SN: 26

ID: 105

Pressure: 45

Weather Conditions:

Sunny 76 F

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|----------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|---------|----------------|---------------|
| | | +/- 0.1 | +/- 0.5 | +/- 5 % | +/- 10 % | +/- 10 % | +/- 10 | +/- 0.3 | |
| 10/9/2023 3:31 PM | 00:00 | 6.75 pH | 24.42 °C | 329.45 µS/cm | 1.76 mg/L | 3.32 NTU | 19.4 mV | 46.49 ft | 100.00 ml/min |
| 10/9/2023 3:36 PM | 05:00 | 6.50 pH | 22.11 °C | 337.93 µS/cm | 1.12 mg/L | 3.51 NTU | 58.1 mV | 46.98 ft | 100.00 ml/min |
| 10/9/2023 3:41 PM | 10:00 | 6.44 pH | 21.87 °C | 337.04 µS/cm | 1.14 mg/L | 3.36 NTU | 65.9 mV | 47.34 ft | 100.00 ml/min |
| 10/9/2023 3:46 PM | 15:00 | 6.43 pH | 21.73 °C | 336.97 µS/cm | 0.99 mg/L | 3.70 NTU | 70.4 mV | 47.71 ft | 100.00 ml/min |
| 10/9/2023 3:51 PM | 20:00 | 6.42 pH | 21.64 °C | 339.90 µS/cm | 0.83 mg/L | 2.55 NTU | 81.7 mV | 47.73 ft | 100.00 ml/min |
| 10/9/2023 3:56 PM | 25:00 | 6.42 pH | 21.47 °C | 339.04 µS/cm | 0.73 mg/L | 1.97 NTU | 70.1 mV | 47.83 ft | 100.00 ml/min |
| 10/9/2023 4:01 PM | 30:00 | 6.41 pH | 21.50 °C | 338.33 µS/cm | 0.68 mg/L | 1.45 NTU | 69.6 mV | 47.94 ft | 100.00 ml/min |
| 10/9/2023 4:06 PM | 35:00 | 6.41 pH | 21.46 °C | 337.40 µS/cm | 0.64 mg/L | 1.46 NTU | 68.9 mV | 48.01 ft | 100.00 ml/min |
| 10/9/2023 4:11 PM | 40:00 | 6.41 pH | 21.41 °C | 337.44 µS/cm | 0.64 mg/L | 1.80 NTU | 68.1 mV | 48.06 ft | 100.00 ml/min |

Samples

| Sample ID: | Description: |
|-------------|---------------------------------------------------------------|
| ARK-AP1PZ-1 | 1620 6 bottles collected Metals Radium Anions TDS |

Low-Flow Test Report:

Test Date / Time: 10/9/2023 4:20:06 PM

Project: Arkwright

Operator Name: Dylan Quintal

| | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|
| Location Name: Arkwright, AP-1, AP1PZ-2 Latitude: 32.920425025932 Longitude: -83.6982994526625 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 52.1 ft Total Depth: 62.7 ft Initial Depth to Water: 43.04 ft | Pump Type: Dedicated Bladder Pump Tubing Type: HDPE Pump Intake From TOC: 56.6 ft Estimated Total Volume Pumped: 9000 ml Flow Cell Volume: 90 ml Final Flow Rate: 300 ml/min Final Draw Down: 0 ft | Instrument Used: Aqua TROLL 400 Serial Number: 850762 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|

Test Notes:

Heron dipper-T SN: 11FF2205014ML

MP50 SN: 22

ID: 103

Pressure: 45 psi

Weather Conditions:

Sunny, 77F

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|----------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|---------|----------------|---------------|
| | | +/- 0.1 | +/- 0.5 | +/- 5 % | +/- 10 % | +/- 10 % | +/- 10 | +/- 0.3 | |
| 10/9/2023 4:20 PM | 00:00 | 6.12 pH | 20.84 °C | 1,154.8 µS/cm | 0.48 mg/L | 11.50 NTU | 54.4 mV | 43.04 ft | 300.00 ml/min |
| 10/9/2023 4:25 PM | 05:00 | 6.08 pH | 20.78 °C | 1,216.5 µS/cm | 0.44 mg/L | 9.03 NTU | 56.6 mV | 43.04 ft | 300.00 ml/min |
| 10/9/2023 4:30 PM | 10:00 | 6.05 pH | 20.65 °C | 1,268.1 µS/cm | 0.36 mg/L | 7.15 NTU | 64.5 mV | 43.04 ft | 300.00 ml/min |
| 10/9/2023 4:35 PM | 15:00 | 6.02 pH | 20.76 °C | 1,317.6 µS/cm | 0.24 mg/L | 4.31 NTU | 71.7 mV | 43.04 ft | 300.00 ml/min |
| 10/9/2023 4:40 PM | 20:00 | 6.01 pH | 21.00 °C | 1,326.9 µS/cm | 0.18 mg/L | 4.04 NTU | 75.5 mV | 43.04 ft | 300.00 ml/min |
| 10/9/2023 4:45 PM | 25:00 | 5.99 pH | 20.95 °C | 1,343.6 µS/cm | 0.18 mg/L | 3.87 NTU | 79.8 mV | 43.04 ft | 300.00 ml/min |
| 10/9/2023 4:50 PM | 30:00 | 5.98 pH | 20.92 °C | 1,369.4 µS/cm | 0.17 mg/L | 3.29 NTU | 82.1 mV | 43.04 ft | 300.00 ml/min |

Samples

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

| | |
|---------------|-----------------------------------------------------------|
| ARK-AP1PZ-2 | Sample time: 1700; 6 bottles: Metals, Anions, TDS, Radium |
| ARK-AP1-FD-01 | 6 bottles: Metals, Anions, TDS, Radium |

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 10/10/2023 8:49:00 AM

Project: Arkwright

Operator Name: J. Myer

| | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|
| Location Name: AP1PZ-3 Latitude: 32.9196479679014 Longitude: -83.6980466544628 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 56.9 ft Total Depth: 67.4 ft Initial Depth to Water: 43.7 ft | Pump Type: Dedicated Bladder Pump Tubing Type: HDPE Pump Intake From TOC: 61.4 ft Estimated Total Volume Pumped: 5250 ml Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 0.3 ft | Instrument Used: Aqua TROLL 400 Serial Number: 850751 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|

Test Notes:

Heron Instrument Dipper-T SN: WL-006

MP-50 SN: 26

ID: 103

Pressure: 35 PSI

Weather Conditions:

Cloudy 53 F

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|--------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
| | | +/- 0.1 | +/- 0.5 | +/- 5 % | +/- 10 % | +/- 10 % | +/- 10 | +/- 0.3 | |
| 10/10/2023 8:49 AM | 00:00 | 5.56 pH | 18.11 °C | 2,156.4 µS/cm | 4.47 mg/L | 1.36 NTU | 198.0 mV | 44.00 ft | 150.00 ml/min |
| 10/10/2023 8:54 AM | 05:00 | 5.60 pH | 19.14 °C | 2,143.6 µS/cm | 0.83 mg/L | 0.80 NTU | 175.2 mV | 44.00 ft | 150.00 ml/min |
| 10/10/2023 8:59 AM | 10:00 | 5.61 pH | 19.11 °C | 2,126.4 µS/cm | 0.58 mg/L | 0.59 NTU | 192.3 mV | 44.00 ft | 150.00 ml/min |
| 10/10/2023 9:04 AM | 15:00 | 5.61 pH | 19.15 °C | 2,138.6 µS/cm | 0.51 mg/L | 0.74 NTU | 164.2 mV | 44.00 ft | 150.00 ml/min |
| 10/10/2023 9:09 AM | 20:00 | 5.61 pH | 19.23 °C | 2,127.3 µS/cm | 0.52 mg/L | 0.51 NTU | 178.5 mV | 44.00 ft | 150.00 ml/min |
| 10/10/2023 9:14 AM | 25:00 | 5.61 pH | 19.23 °C | 2,133.2 µS/cm | 0.38 mg/L | 0.94 NTU | 152.0 mV | 44.00 ft | 150.00 ml/min |
| 10/10/2023 9:19 AM | 30:00 | 5.61 pH | 19.24 °C | 2,143.0 µS/cm | 0.30 mg/L | 0.69 NTU | 147.2 mV | 44.00 ft | 150.00 ml/min |
| 10/10/2023 9:24 AM | 35:00 | 5.61 pH | 19.33 °C | 2,130.6 µS/cm | 0.27 mg/L | 0.34 NTU | 142.6 mV | 44.00 ft | 150.00 ml/min |

Samples

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

| | |
|-------------|---------------------------------------------------------------|
| ARK-AP1PZ-3 | 0930 6 bottles collected Metals Radium Anions TDS |
|-------------|---------------------------------------------------------------|

Low-Flow Test Report:

Test Date / Time: 10/10/2023 8:45:09 AM

Project: Arkwright

Operator Name: Dylan Quintal

| | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|
| Location Name: Arkwright, AP-1, AP1PZ-4 Latitude: 32.9188151770192 Longitude: -83.6975826323032 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 56.9 ft Total Depth: 67.4 ft Initial Depth to Water: 48.03 ft | Pump Type: Dedicated Bladder Pump Tubing Type: HDPE Pump Intake From TOC: 61.5 ft Estimated Total Volume Pumped: 2000 ml Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 0 ft | Instrument Used: Aqua TROLL 400 Serial Number: 850762 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|

Test Notes:

Heron dipper-T SN: 11FF2205014ML; MP50 SN: 22; ID: 101; Pressure: 35 psi

Weather Conditions:

Cloudy, 54F

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|--------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
| | | +/- 0.1 | +/- 0.5 | +/- 5 % | +/- 10 % | +/- 10 % | +/- 10 | +/- 0.3 | |
| 10/10/2023 8:45 AM | 00:00 | 6.30 pH | 18.19 °C | 2,379.5 µS/cm | 0.46 mg/L | 6.10 NTU | -52.7 mV | 48.03 ft | 100.00 ml/min |
| 10/10/2023 8:50 AM | 05:00 | 6.29 pH | 18.37 °C | 2,371.3 µS/cm | 0.45 mg/L | 5.98 NTU | -69.0 mV | 48.03 ft | 100.00 ml/min |
| 10/10/2023 8:55 AM | 10:00 | 6.29 pH | 18.57 °C | 2,362.8 µS/cm | 0.45 mg/L | 4.55 NTU | -52.0 mV | 48.03 ft | 100.00 ml/min |
| 10/10/2023 9:00 AM | 15:00 | 6.29 pH | 18.46 °C | 2,361.8 µS/cm | 0.43 mg/L | 4.15 NTU | -51.1 mV | 48.03 ft | 100.00 ml/min |
| 10/10/2023 9:05 AM | 20:00 | 6.28 pH | 18.59 °C | 2,357.5 µS/cm | 0.43 mg/L | 3.99 NTU | -66.8 mV | 48.03 ft | 100.00 ml/min |

Samples

| Sample ID: | Description: |
|---------------|-----------------------------------------------------------|
| ARK-AP1PZ-4 | Sample time: 0910; 6 bottles: Metals, Anions, TDS, Radium |
| ARK-AP1-FB-02 | Sample time: 0930; 6 bottles: Metals, Anions, TDS, Radium |

Low-Flow Test Report:

Test Date / Time: 10/10/2023 10:31:42 AM

Project: Arkwright

Operator Name: J. Myer

| | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|
| Location Name: AP1PZ-5 Latitude: 32.9179289032926 Longitude: -83.6973509564996 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 56.8 ft Total Depth: 67.2 ft Initial Depth to Water: 49.55 ft | Pump Type: Dedicated Bladder Pump Tubing Type: HDPE Pump Intake From TOC: 61.3 ft Estimated Total Volume Pumped: 4500 ml Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 1.12 ft | Instrument Used: Aqua TROLL 400 Serial Number: 850751 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|

Test Notes:

Heron Instruments Dipper-T SN: WL-006

MP-50 SN: 26

ID: 103

Pressure: 35 psi

Weather Conditions:

Sunny 64 F

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|------------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
| | | +/- 0.1 | +/- 0.5 | +/- 5 % | +/- 10 % | +/- 10 % | +/- 10 | +/- 0.3 | |
| 10/10/2023 10:31 AM | 00:00 | 6.03 pH | 22.07 °C | 2,926.0 µS/cm | 2.18 mg/L | 20.50 NTU | -11.3 mV | 50.30 ft | 100.00 ml/min |
| 10/10/2023 10:36 AM | 05:00 | 6.05 pH | 20.32 °C | 3,023.3 µS/cm | 1.37 mg/L | 14.90 NTU | -37.6 mV | 50.48 ft | 100.00 ml/min |
| 10/10/2023 10:41 AM | 10:00 | 6.06 pH | 20.30 °C | 3,028.5 µS/cm | 1.20 mg/L | 8.60 NTU | -42.2 mV | 50.55 ft | 100.00 ml/min |
| 10/10/2023 10:46 AM | 15:00 | 6.06 pH | 20.35 °C | 3,019.0 µS/cm | 1.05 mg/L | 6.59 NTU | -74.1 mV | 50.60 ft | 100.00 ml/min |
| 10/10/2023 10:51 AM | 20:00 | 6.06 pH | 20.33 °C | 3,022.2 µS/cm | 0.85 mg/L | 5.51 NTU | -49.9 mV | 50.63 ft | 100.00 ml/min |
| 10/10/2023 10:56 AM | 25:00 | 6.05 pH | 20.38 °C | 3,023.4 µS/cm | 0.72 mg/L | 3.26 NTU | -48.9 mV | 50.66 ft | 100.00 ml/min |
| 10/10/2023 11:01 AM | 30:00 | 6.06 pH | 20.54 °C | 3,025.1 µS/cm | 0.66 mg/L | 2.07 NTU | -50.6 mV | 50.67 ft | 100.00 ml/min |
| 10/10/2023 11:06 AM | 35:00 | 6.05 pH | 20.57 °C | 3,015.2 µS/cm | 0.63 mg/L | 1.71 NTU | -77.6 mV | 50.67 ft | 100.00 ml/min |
| 10/10/2023 11:11 AM | 40:00 | 6.05 pH | 20.66 °C | 3,027.6 µS/cm | 0.60 mg/L | 1.03 NTU | -48.8 mV | 50.67 ft | 100.00 ml/min |
| 10/10/2023 11:16 AM | 45:00 | 6.05 pH | 20.77 °C | 3,026.0 µS/cm | 0.59 mg/L | 0.88 NTU | -46.8 mV | 50.67 ft | 100.00 ml/min |

Samples

| Sample ID: | Description: |
|---------------|-----------------------------------------------------------|
| ARK-AP1PZ-5 | 1120 6 Samples taken Metals Radium Anions TDS |
| ARK-AP1-EB-02 | 1210 6 Samples taken Metals Radium TDS Anions |

Low-Flow Test Report:

Test Date / Time: 6/13/2023 2:42:52 PM

Project: Arkwright

Operator Name: B. Pennell

| | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|
| Location Name: Arkwright, AP-1, PZ-6 Latitude: 32.9169078058876 Longitude: -83.696961030364 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 62.2 ft Total Depth: 72.2 ft Initial Depth to Water: 57.13 ft | Pump Type: Dedicated Bladder Pump Tubing Type: LDPE Tubing Inner Diameter: 0.17 in Pump Intake From TOC: 67.6 ft Estimated Total Volume Pumped: 9750 ml Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 0.43 ft | Instrument Used: Aqua TROLL 400 Serial Number: 989630 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|

Test Notes:

Sample time: 1552

Weather Conditions:

Light rain, 30 C

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|----------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
| | | +/- 0.1 | +/- 0.5 | +/- 5 % | +/- 10 % | +/- 10 % | +/- 10 | +/- 0.33 | |
| 6/13/2023 2:42 PM | 00:00 | 4.68 pH | 20.23 °C | 3,021.4 µS/cm | 2.60 mg/L | 4.86 NTU | 164.5 mV | 57.13 ft | 150.00 ml/min |
| 6/13/2023 2:47 PM | 05:00 | 5.10 pH | 19.95 °C | 3,047.8 µS/cm | 1.96 mg/L | 6.22 NTU | 89.1 mV | 57.56 ft | 150.00 ml/min |
| 6/13/2023 2:52 PM | 10:00 | 5.22 pH | 19.86 °C | 3,044.7 µS/cm | 1.47 mg/L | 3.59 NTU | 76.2 mV | 57.56 ft | 150.00 ml/min |
| 6/13/2023 2:57 PM | 15:00 | 5.26 pH | 19.86 °C | 3,049.9 µS/cm | 1.27 mg/L | 2.36 NTU | 53.4 mV | 57.56 ft | 150.00 ml/min |
| 6/13/2023 3:02 PM | 20:00 | 5.28 pH | 19.86 °C | 3,049.8 µS/cm | 1.10 mg/L | 2.04 NTU | 45.6 mV | 57.56 ft | 150.00 ml/min |
| 6/13/2023 3:07 PM | 25:00 | 5.30 pH | 19.86 °C | 3,051.9 µS/cm | 1.00 mg/L | 1.41 NTU | 40.7 mV | 57.56 ft | 150.00 ml/min |
| 6/13/2023 3:12 PM | 30:00 | 5.31 pH | 19.89 °C | 3,048.2 µS/cm | 0.87 mg/L | 0.97 NTU | 37.2 mV | 57.56 ft | 150.00 ml/min |
| 6/13/2023 3:17 PM | 35:00 | 5.31 pH | 19.91 °C | 3,057.0 µS/cm | 0.80 mg/L | 0.82 NTU | 34.7 mV | 57.56 ft | 150.00 ml/min |
| 6/13/2023 3:22 PM | 40:00 | 5.32 pH | 19.91 °C | 3,055.5 µS/cm | 0.71 mg/L | 0.62 NTU | 32.6 mV | 57.56 ft | 150.00 ml/min |
| 6/13/2023 3:27 PM | 45:00 | 5.33 pH | 19.90 °C | 3,042.9 µS/cm | 0.62 mg/L | 0.68 NTU | 31.1 mV | 57.56 ft | 150.00 ml/min |
| 6/13/2023 3:32 PM | 50:00 | 5.33 pH | 19.86 °C | 3,039.1 µS/cm | 0.55 mg/L | 0.47 NTU | 29.7 mV | 57.56 ft | 150.00 ml/min |
| 6/13/2023 3:37 PM | 55:00 | 5.33 pH | 19.81 °C | 3,036.5 µS/cm | 0.49 mg/L | 0.39 NTU | 28.8 mV | 57.56 ft | 150.00 ml/min |

| | | | | | | | | | |
|----------------------|----------|---------|----------|------------------|-----------|----------|---------|----------|---------------|
| 6/13/2023 3:42 PM | 01:00:00 | 5.34 pH | 19.81 °C | 3,031.2 μS/cm | 0.43 mg/L | 0.39 NTU | 27.6 mV | 57.56 ft | 150.00 ml/min |
| 6/13/2023 3:47 PM | 01:05:00 | 5.34 pH | 19.83 °C | 3,029.3 μS/cm | 0.38 mg/L | 0.34 NTU | 26.6 mV | 57.56 ft | 150.00 ml/min |

Samples

| Sample ID: | Description: |
|----------------------|---------------------------|
| ARK-AP1PZ-6-20230613 | 6 Polys collected at 1552 |

Low-Flow Test Report:

Test Date / Time: 10/10/2023 1:11:16 PM

Project: Arkwright

Operator Name: J. Myer

| | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|
| Location Name: AP1PZ-7 Latitude: 32.9174028763597 Longitude: -83.6975306645036 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 67.3 ft Total Depth: 77.8 ft Initial Depth to Water: 51.1 ft | Pump Type: Dedicated Bladder Pump Tubing Type: HDPE Pump Intake From TOC: 71.8 ft Estimated Total Volume Pumped: 3000 ml Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 3 ft | Instrument Used: Aqua TROLL 400 Serial Number: 850751 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|

Test Notes:

Heron Instruments Dipper-T SN: WL 006

MP50 SN: 26

ID: 103

Pressure: 40 PSI

Weather Conditions:

Sunny 76 F

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|--------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
| | | +/- 0.1 | +/- 0.5 | +/- 5 % | +/- 10 % | +/- 10 % | +/- 10 | +/- 0.3 | |
| 10/10/2023 1:11 PM | 00:00 | 6.34 pH | 25.56 °C | 2,237.8 µS/cm | 1.52 mg/L | 8.00 NTU | -51.5 mV | 52.05 ft | 100.00 ml/min |
| 10/10/2023 1:16 PM | 05:00 | 6.24 pH | 22.56 °C | 2,332.4 µS/cm | 0.81 mg/L | 7.55 NTU | -41.5 mV | 52.50 ft | 100.00 ml/min |
| 10/10/2023 1:21 PM | 10:00 | 6.25 pH | 21.96 °C | 2,343.3 µS/cm | 0.67 mg/L | 6.62 NTU | -33.3 mV | 52.95 ft | 100.00 ml/min |
| 10/10/2023 1:26 PM | 15:00 | 6.28 pH | 22.18 °C | 2,323.1 µS/cm | 0.81 mg/L | 5.26 NTU | -24.2 mV | 53.35 ft | 100.00 ml/min |
| 10/10/2023 1:31 PM | 20:00 | 6.28 pH | 22.08 °C | 2,327.5 µS/cm | 0.93 mg/L | 2.72 NTU | -22.2 mV | 53.65 ft | 100.00 ml/min |
| 10/10/2023 1:36 PM | 25:00 | 6.28 pH | 22.18 °C | 2,312.8 µS/cm | 0.98 mg/L | 2.21 NTU | -41.6 mV | 53.85 ft | 100.00 ml/min |
| 10/10/2023 1:41 PM | 30:00 | 6.27 pH | 22.32 °C | 2,300.6 µS/cm | 0.98 mg/L | 1.98 NTU | -23.8 mV | 54.10 ft | 100.00 ml/min |

Samples

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

| | |
|-------------|-----------------------------------------------------------|
| ARK-AP1PZ-7 | 1350 6 samples taken Metals Radium TDS Anions |
|-------------|-----------------------------------------------------------|

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 10/10/2023 10:40:18 AM

Project: Arkwright

Operator Name: Dylan Quintal

| | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|
| Location Name: Arkwright, AP-1, AP1PZ-8 Latitude: 32.9180746929753 Longitude: -83.6980637535453 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 55.6 ft Total Depth: 66.1 ft Initial Depth to Water: 47.87 ft | Pump Type: Dedicated Bladder Pump Tubing Type: HDPE Pump Intake From TOC: 59 ft Estimated Total Volume Pumped: 7500 ml Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 2.27 ft | Instrument Used: Aqua TROLL 400 Serial Number: 850762 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|

Test Notes:

Heron dipper-T SN: 11FF2205014ML; MP50 SN: 22; ID: 99; Pressure: 40 psi

Weather Conditions:

Partly cloudy, 66F

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|------------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
| | | +/- 0.1 | +/- 0.5 | +/- 5 % | +/- 10 % | +/- 10 % | +/- 10 | +/- 0.3 | |
| 10/10/2023 10:40 AM | 00:00 | 6.63 pH | 20.37 °C | 1,569.6 µS/cm | 2.14 mg/L | 2.02 NTU | -22.3 mV | 50.14 ft | 100.00 ml/min |
| 10/10/2023 10:45 AM | 05:00 | 6.60 pH | 20.88 °C | 1,631.7 µS/cm | 1.45 mg/L | 1.08 NTU | -31.5 mV | 50.14 ft | 100.00 ml/min |
| 10/10/2023 10:50 AM | 10:00 | 6.60 pH | 20.80 °C | 1,653.1 µS/cm | 1.12 mg/L | 0.64 NTU | -37.0 mV | 50.14 ft | 100.00 ml/min |
| 10/10/2023 10:55 AM | 15:00 | 6.60 pH | 20.99 °C | 1,659.2 µS/cm | 0.99 mg/L | 0.54 NTU | -39.0 mV | 50.14 ft | 100.00 ml/min |
| 10/10/2023 11:00 AM | 20:00 | 6.60 pH | 21.53 °C | 1,655.6 µS/cm | 0.89 mg/L | 0.50 NTU | -40.6 mV | 50.14 ft | 100.00 ml/min |
| 10/10/2023 11:05 AM | 25:00 | 6.60 pH | 21.91 °C | 1,651.5 µS/cm | 0.82 mg/L | 0.54 NTU | -41.4 mV | 50.14 ft | 100.00 ml/min |
| 10/10/2023 11:10 AM | 30:00 | 6.59 pH | 21.84 °C | 1,652.4 µS/cm | 0.76 mg/L | 0.48 NTU | -42.3 mV | 50.14 ft | 100.00 ml/min |
| 10/10/2023 11:15 AM | 35:00 | 6.59 pH | 22.27 °C | 1,653.1 µS/cm | 0.72 mg/L | 0.45 NTU | -42.7 mV | 50.14 ft | 100.00 ml/min |
| 10/10/2023 11:20 AM | 40:00 | 6.59 pH | 22.60 °C | 1,650.5 µS/cm | 0.67 mg/L | 0.46 NTU | -42.2 mV | 50.14 ft | 100.00 ml/min |
| 10/10/2023 11:25 AM | 45:00 | 6.59 pH | 22.60 °C | 1,652.6 µS/cm | 0.63 mg/L | 0.67 NTU | -42.1 mV | 50.14 ft | 100.00 ml/min |
| 10/10/2023 11:30 AM | 50:00 | 6.59 pH | 22.68 °C | 1,652.7 µS/cm | 0.59 mg/L | 0.34 NTU | -42.3 mV | 50.14 ft | 100.00 ml/min |
| 10/10/2023 11:35 AM | 55:00 | 6.59 pH | 22.33 °C | 1,651.2 µS/cm | 0.57 mg/L | 0.28 NTU | -42.1 mV | 50.14 ft | 100.00 ml/min |

| | | | | | | | | | |
|------------------------|----------|---------|----------|------------------|-----------|----------|----------|----------|---------------|
| 10/10/2023 11:40 AM | 01:00:00 | 6.60 pH | 22.38 °C | 1,648.9 µS/cm | 0.52 mg/L | 0.27 NTU | -42.6 mV | 50.14 ft | 100.00 ml/min |
| 10/10/2023 11:45 AM | 01:05:00 | 6.60 pH | 22.07 °C | 1,650.4 µS/cm | 0.50 mg/L | 0.26 NTU | -55.9 mV | 50.14 ft | 100.00 ml/min |
| 10/10/2023 11:50 AM | 01:10:00 | 6.60 pH | 22.16 °C | 1,651.0 µS/cm | 0.49 mg/L | 0.25 NTU | -55.8 mV | 50.14 ft | 100.00 ml/min |
| 10/10/2023 11:55 AM | 01:15:00 | 7.06 pH | 24.69 °C | 0.93 µS/cm | 8.11 mg/L | | 13.1 mV | 50.14 ft | 100.00 ml/min |

Samples

| Sample ID: | Description: |
|-------------|-----------------------------------------------------------|
| ARK-AP1PZ-8 | Sample time: 1155; 6 bottles: Metals, Anions, TDS, Radium |

Created using VuSitu from In-Situ, Inc.

Final reading at 11:55 AM was taken after flow through cell was detached and while sampling was occurring. Values are not applicable to stabilization criteria. Final stable parameters are recorded at 11:50 AM.

Low-Flow Test Report:

Test Date / Time: 10/10/2023 3:11:32 PM

Project: Arkwright

Operator Name: J. Myer

| | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|
| Location Name: AP1PZ-9 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 46.3 ft Total Depth: 57.4 ft Initial Depth to Water: 42.15 ft | Pump Type: Dedicated Bladder Pump Tubing Type: HDPE Pump Intake From TOC: 50.1 ft Estimated Total Volume Pumped: 3500 ml Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 4.85 ft | Instrument Used: Aqua TROLL 400 Serial Number: 850751 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|

Test Notes:

Heron Instruments Dipper-T SN: WL 006

MP50 SN: 26

ID: 103

Pressure: 35 PSI

Well purged dry. Well will allow to recharge and sample the following day

Weather Conditions:

Cloudy 81 F

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|-----------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
| | | +/- 0.1 | +/- 0.5 | +/- 5 % | +/- 10 % | +/- 10 % | +/- 10 | +/- 0.3 | |
| 10/10/2023 3:11 PM | 00:00 | 5.22 pH | 28.36 °C | 589.11 µS/cm | 2.15 mg/L | 11.70 NTU | 191.7 mV | 43.33 ft | 100.00 ml/min |
| 10/10/2023 3:16 PM | 05:00 | 4.61 pH | 22.70 °C | 636.28 µS/cm | 1.88 mg/L | 13.10 NTU | 224.2 mV | 43.89 ft | 100.00 ml/min |
| 10/10/2023 3:21 PM | 10:00 | 4.39 pH | 22.36 °C | 646.67 µS/cm | 2.16 mg/L | 9.85 NTU | 248.2 mV | 44.45 ft | 100.00 ml/min |
| 10/10/2023 3:26 PM | 15:00 | 4.32 pH | 22.19 °C | 649.23 µS/cm | 2.37 mg/L | 6.60 NTU | 259.8 mV | 44.90 ft | 100.00 ml/min |
| 10/10/2023 3:31 PM | 20:00 | 4.30 pH | 22.00 °C | 650.97 µS/cm | 2.36 mg/L | 5.39 NTU | 263.2 mV | 45.40 ft | 100.00 ml/min |
| 10/10/2023 3:36 PM | 25:00 | 4.32 pH | 22.23 °C | 646.95 µS/cm | 2.27 mg/L | 3.87 NTU | 262.3 mV | 45.90 ft | 100.00 ml/min |
| 10/10/2023 3:41 PM | 30:00 | 4.36 pH | 22.31 °C | 645.89 µS/cm | 2.25 mg/L | 3.20 NTU | 258.1 mV | 46.30 ft | 100.00 ml/min |
| 10/10/2023 3:46 PM | 35:00 | 4.40 pH | 22.08 °C | 645.34 µS/cm | 2.44 mg/L | 2.66 NTU | 252.9 mV | 47.00 ft | 100.00 ml/min |

Samples

| Sample ID: | Description: |
|-------------|--------------------------------------------|
| ARK-AP1PZ-9 | Well not sampled due to insufficient water |

Low-Flow Test Report:

Test Date / Time: 10/11/2023 8:15:06 AM

Project: Arkwright

Operator Name: Dylan Quintal

| | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|
| Location Name: Arkwright, AP-1, AP1PZ-9 Latitude: 32.9191016872371 Longitude: -83.6986887082457 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 46.3 ft Total Depth: 57.4 ft Initial Depth to Water: 42.26 ft | Pump Type: Dedicated Bladder Pump Tubing Type: HDPE Pump Intake From TOC: 50.1 ft Estimated Total Volume Pumped: 0 ml Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 0 ft | Instrument Used: Aqua TROLL 400 Serial Number: 850762 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|

Test Notes:

Heron dipper-T SN: 11FF2205014ML; MP50 SN: 22; ID: 103; Pressure: 35 psi

Weather Conditions:

Cloudy, 60F

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|-----------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
| | | +/- 0.1 | +/- 0.5 | +/- 5 % | +/- 10 % | +/- 10 % | +/- 10 | +/- 0.3 | |
| 10/11/2023 8:15 AM | 00:00 | 5.17 pH | 18.68 °C | 692.89 µS/cm | 1.93 mg/L | 3.97 NTU | 170.3 mV | 42.26 ft | 100.00 ml/min |

Samples

| Sample ID: | Description: |
|-------------|-----------------------------------------------------------|
| ARK-AP1PZ-9 | Sample time: 0820; 6 bottles: Metals, Anions, TDS, Radium |

Low-Flow Test Report:

Test Date / Time: 10/10/2023 1:30:27 PM

Project: Arkwright

Operator Name: Dylan Quintal

| | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|
| Location Name: Arkwright, AP-1, AP1PZ-10 Latitude: 32.9197326819116 Longitude: -83.6989545822144 Well Diameter: 2 cm Casing Type: PVC Screen Length: 10 ft Top of Screen: 46 ft Total Depth: 56.5 ft Initial Depth to Water: 39.98 ft | Pump Type: Dedicated Bladder Pump Tubing Type: HDPE Pump Intake From TOC: 50.5 ft Estimated Total Volume Pumped: 4500 ml Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 2.52 ft | Instrument Used: Aqua TROLL 400 Serial Number: 850762 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|

Test Notes:

Heron dipper-T SN: 11FF2205014ML; MP50 SN: 22; ID: 99; Pressure: 30 psi

Weather Conditions:

Sunny, 77F

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|--------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
| | | +/- 0.1 | +/- 0.5 | +/- 5 % | +/- 10 % | +/- 10 % | +/- 10 | +/- 0.3 | |
| 10/10/2023 1:30 PM | 00:00 | 6.24 pH | 23.54 °C | 671.01 µS/cm | 1.72 mg/L | 2.88 NTU | 11.9 mV | 42.50 ft | 100.00 ml/min |
| 10/10/2023 1:35 PM | 05:00 | 6.38 pH | 23.54 °C | 739.85 µS/cm | 1.46 mg/L | 2.00 NTU | -48.0 mV | 42.50 ft | 100.00 ml/min |
| 10/10/2023 1:40 PM | 10:00 | 6.43 pH | 23.59 °C | 764.43 µS/cm | 1.23 mg/L | 1.71 NTU | -48.9 mV | 42.50 ft | 100.00 ml/min |
| 10/10/2023 1:45 PM | 15:00 | 6.42 pH | 23.75 °C | 763.75 µS/cm | 1.08 mg/L | 1.95 NTU | -47.9 mV | 42.50 ft | 100.00 ml/min |
| 10/10/2023 1:50 PM | 20:00 | 6.40 pH | 23.83 °C | 752.07 µS/cm | 1.02 mg/L | 2.37 NTU | -44.3 mV | 42.50 ft | 100.00 ml/min |
| 10/10/2023 1:55 PM | 25:00 | 6.40 pH | 23.68 °C | 751.40 µS/cm | 0.93 mg/L | 1.94 NTU | -42.6 mV | 42.50 ft | 100.00 ml/min |
| 10/10/2023 2:00 PM | 30:00 | 6.38 pH | 23.24 °C | 740.03 µS/cm | 0.84 mg/L | 2.62 NTU | -40.2 mV | 42.50 ft | 100.00 ml/min |
| 10/10/2023 2:05 PM | 35:00 | 6.35 pH | 23.22 °C | 719.32 µS/cm | 0.79 mg/L | 2.55 NTU | -35.7 mV | 42.50 ft | 100.00 ml/min |
| 10/10/2023 2:10 PM | 40:00 | 6.34 pH | 22.62 °C | 720.61 µS/cm | 0.75 mg/L | 3.03 NTU | -32.4 mV | 42.50 ft | 100.00 ml/min |
| 10/10/2023 2:15 PM | 45:00 | 6.30 pH | 22.70 °C | 700.48 µS/cm | 0.77 mg/L | 1.89 NTU | -27.0 mV | 42.50 ft | 100.00 ml/min |

Samples

| Sample ID: | Description: |
|--------------|-----------------------------------------------------------|
| ARK-AP1PZ-10 | Sample time: 1420; 6 bottles: Metals, Anions, TDS, Radium |

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 10/10/2023 3:50:03 PM

Project: Arkwright

Operator Name: Dylan Quintal

| | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|
| Location Name: Arkwright, AP-1, AP1PZ-11 Latitude: 32.9205162123018 Longitude: -83.6991527304053 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 62.8 ft Total Depth: 73.3 ft Initial Depth to Water: 41.22 ft | Pump Type: Dedicated Bladder Pump Tubing Type: HDPE Pump Intake From TOC: 67.9 ft Estimated Total Volume Pumped: 4000 ml Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0 ft | Instrument Used: Aqua TROLL 400 Serial Number: 850762 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|

Test Notes:

Heron dipper-T SN: 11FF2205014ML; MP50 SN: 22; ID: 104; Pressure: 40 psi

Weather Conditions:

Cloudy, 81F

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|--------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|---------|----------------|---------------|
| | | +/- 0.1 | +/- 0.5 | +/- 5 % | +/- 10 % | +/- 10 % | +/- 10 | +/- 0.3 | |
| 10/10/2023 3:50 PM | 00:00 | 6.67 pH | 21.09 °C | 297.14 µS/cm | 3.55 mg/L | 2.38 NTU | 77.3 mV | 41.22 ft | 200.00 ml/min |
| 10/10/2023 3:55 PM | 05:00 | 6.67 pH | 20.92 °C | 298.01 µS/cm | 3.00 mg/L | 2.33 NTU | 69.7 mV | 41.22 ft | 200.00 ml/min |
| 10/10/2023 4:00 PM | 10:00 | 6.67 pH | 20.82 °C | 297.33 µS/cm | 2.77 mg/L | 2.15 NTU | 68.7 mV | 41.22 ft | 200.00 ml/min |
| 10/10/2023 4:05 PM | 15:00 | 6.67 pH | 20.77 °C | 295.74 µS/cm | 2.67 mg/L | 1.69 NTU | 67.6 mV | 41.22 ft | 200.00 ml/min |
| 10/10/2023 4:10 PM | 20:00 | 6.67 pH | 20.74 °C | 294.40 µS/cm | 2.64 mg/L | 1.41 NTU | 80.5 mV | 41.22 ft | 200.00 ml/min |

Samples

| Sample ID: | Description: |
|---------------|-----------------------------------------------------------|
| ARK-AP1PZ-11 | Sample time: 1615; 6 bottles: Metals, Anions, TDS, Radium |
| ARK-AP1-FD-02 | Sample time: NA; 6 bottles: Metals, Anions, TDS, Radium |

B.2 Calibration Data



Field Instrumentation Calibration Form

Site Name: Arkwright

Date: 10/9/23

Calibrated By: John Myer

Field Conditions: Clear 65 F

| Instrument | Manufacturer/ Model | Serial Number |
|---------------------|---------------------|---------------|
| Water Quality Meter | AquaTroll | 850751 |
| Turbidity Meter | Hach 2100Q | 23060D00290 |

| Calibration Standard Information | | | | |
|----------------------------------|----------|----------|--------------------|-------|
| Parameter | Standard | Lot # | Date of Expiration | Brand |
| Specific Conductance (µS/cm) | 4,490 | 24000044 | May-24 | AIR |
| pH (SU) | 4.00 | 24000044 | May-24 | AIR |
| pH (SU) | 7.00 | 22290139 | Apr-24 | AIR |
| pH (SU) | 10.00 | 22110130 | Apr-24 | AIR |
| D.O. (%) | N/A | N/A | N/A | N/A |
| ORP (mV) | 228.0 | 24002258 | Jun-24 | AIR |

| Calibration | | | | | |
|------------------------------|----------|-------------------|---------------------------------------|---------------------|-----------|
| Time Start | 10:34 | Time Finish | 10:55 | | |
| Parameter | Standard | Calibration Value | Calibration Solution Temperature (°C) | Acceptance Criteria | Reference |
| Specific Conductance (µS/cm) | 4,490 | 4484 | 20.35 | ± 10% of standard | EPA 2023 |
| pH (SU) | 4.00 | 4.02 | 20.59 | ± 0.1 | GWMP |
| pH (SU) | 7.00 | 7.05 | 20.51 | ± 0.1 | GWMP |
| pH (SU) | 10.00 | 10.05 | 20.75 | ± 0.1 | GWMP |
| D.O. (%) | N/A | 100.09 | 20.11 | ± 10% | NA |
| ORP (mV) | 228.0 | 235 | 20.49 | ± 10 | EPA 2023 |

| Turbidity (NTU) | Standard | Calibration Value | Acceptance Criteria | Reference |
|-----------------|----------|-------------------|---------------------|-----------|
| | 20 | 19.7 | ± 10% of standard | EPA 2023 |
| | 100 | 98.9 | | |
| | 800 | 798 | | |
| | 10 | 10.3 | | |

| Calibration Check | | | | | |
|------------------------------|----------|-------------------|---------------------------------------|---------------------|-----------|
| Time Start | 15:00 | Time Finish | 15:15 | | |
| Parameter | Standard | Calibration Value | Calibration Solution Temperature (°C) | Acceptance Criteria | Reference |
| Specific Conductance (µS/cm) | 4,490 | 4342.7 | 25.6 | ± 10% of standard | EPA 2023 |
| pH (SU) | 4.00 | 4.07 | 25.6 | ± 0.1 | GWMP |
| pH (SU) | 7.00 | 7.08 | 24.1 | ± 0.1 | GWMP |
| pH (SU) | 10.00 | 10.04 | 24.4 | ± 0.1 | GWMP |

| Turbidity (NTU) | Standard | Calibration Value | Acceptance Criteria | Reference |
|-----------------|----------|-------------------|---------------------|-----------|
| | 20 | 20.3 | ± 10% of standard | EPA 2023 |
| | 100 | 103 | | |
| | 800 | 795 | | |
| | 10 | 10.2 | | |

Notes:

Field Instrumentation Calibration Form

Site Name: Plant Arkwright _____

Date: 2023-10-06 _____

Calibrated By: Dylan Quintal _____

Field Conditions: Clear 60F

| Instrument | Manufacturer/ Model | Serial Number |
|---------------------|----------------------|---------------|
| Water Quality Meter | nSitu Aqua TROLL 400 | 850762 |
| Turbidity Meter | Hach 2100Q | 22090D000086 |

| Calibration Standard Information | | | | |
|----------------------------------|----------|----------|--------------------|-------|
| Parameter | Standard | Lot # | Date of Expiration | Brand |
| Specific Conductance (µS/cm) | 4,490 | 24000044 | May-24 | AIR |
| pH (SU) | 4.00 | 24000044 | May-24 | AIR |
| pH (SU) | 7.00 | 22290139 | Apr-24 | AIR |
| pH (SU) | 10.00 | 22110130 | Apr-24 | AIR |
| D.O. (%) | N/A | NA | NA | NA |
| ORP (mV) | 228.0 | 24002258 | Jun-24 | AIR |

| Calibration | | | | | |
|------------------------------|----------|-------------------|---------------------------------------|---------------------|-----------|
| Time Start | 10:30 | Time Finish | 11:05 | | |
| Parameter | Standard | Calibration Value | Calibration Solution Temperature (°C) | Acceptance Criteria | Reference |
| Specific Conductance (µS/cm) | 4,490 | 4484.9 | 20.49 | ± 10% of standard | EPA 2023 |
| pH (SU) | 4.00 | 4.03 | 19.35 | ± 0.1 | GWMP |
| pH (SU) | 7.00 | 7.05 | 19.67 | ± 0.1 | GWMP |
| pH (SU) | 10.00 | 10.05 | 20.33 | ± 0.1 | GWMP |
| D.O. (%) | N/A | 100.13 | 21.76 | ± 10% | NA |
| ORP (mV) | 228.0 | 228 | 20.4 | ± 10 | EPA 2023 |

| Turbidity (NTU) | Standard | Calibration Value | Acceptance Criteria | Reference |
|-----------------|----------|-------------------|---------------------|-----------|
| | 20 | 19.4 | ± 10% of standard | EPA 2023 |
| | 100 | 101 | | |
| | 800 | 802 | | |
| | 10 | 10.1 | | |

| Calibration Check | | | | | |
|------------------------------|----------|-------------------|---------------------------------------|---------------------|-----------|
| Time Start | 15:15 | Time Finish | 15:35 | | |
| Parameter | Standard | Calibration Value | Calibration Solution Temperature (°C) | Acceptance Criteria | Reference |
| Specific Conductance (µS/cm) | 4,490 | 4516.7 | 22.64 | ± 10% of standard | EPA 2023 |
| pH (SU) | 4.00 | 4.07 | 22.72 | ± 0.1 | GWMP |
| pH (SU) | 7.00 | 7.04 | 21.89 | ± 0.1 | GWMP |
| pH (SU) | 10.00 | 9.95 | 22.06 | ± 0.1 | GWMP |

| Turbidity (NTU) | Standard | Calibration Value | Acceptance Criteria | Reference |
|-----------------|----------|-------------------|---------------------|-----------|
| | 20 | 20.6 | ± 10% of standard | EPA 2023 |
| | 100 | 99.3 | | |
| | 800 | 802 | | |
| | 10 | 9.92 | | |

Notes:

Field Instrumentation Calibration Form

Site Name: Plant Arkwrigh

Date: 10/10/23

Calibrated By: John Myer

Field Conditions: Clear 51 F

| Instrument | Manufacturer/ Model | Serial Number |
|---------------------|---------------------|---------------|
| Water Quality Meter | AquaTroll | 850751 |
| Turbidity Meter | Hach 2100Q | 23060D00290 |

| Calibration Standard Information | | | | |
|----------------------------------|----------|----------|--------------------|-------|
| Parameter | Standard | Lot # | Date of Expiration | Brand |
| Specific Conductance (µS/cm) | 4,490 | 24000044 | May-24 | AIR |
| pH (SU) | 4.00 | 24000044 | May-24 | AIR |
| pH (SU) | 7.00 | 22290139 | Apr-24 | AIR |
| pH (SU) | 10.00 | 22110130 | Apr-24 | AIR |
| D.O. (%) | N/A | N/A | N/A | N/A |
| ORP (mV) | 228.0 | 24002258 | Jun-24 | AIR |

| Calibration | | | | | |
|------------------------------|----------|-------------------|---------------------------------------|---------------------|-----------|
| Time Start | 5:30 | Time Finish | 6:00 | | |
| Parameter | Standard | Calibration Value | Calibration Solution Temperature (°C) | Acceptance Criteria | Reference |
| Specific Conductance (µS/cm) | 4,490 | 4403 | 19.89 | ± 10% of standard | EPA 2023 |
| pH (SU) | 4.00 | 4.03 | 20.22 | ± 0.1 | GWMP |
| pH (SU) | 7.00 | 7.06 | 20.25 | ± 0.1 | GWMP |
| pH (SU) | 10.00 | 10.06 | 20.28 | ± 0.1 | GWMP |
| D.O. (%) | N/A | 100.05 | 20.08 | ± 10% | NA |
| ORP (mV) | 228.0 | 235.5 | 20.08 | ± 10 | EPA 2023 |

| Turbidity (NTU) | Standard | Calibration Value | Acceptance Criteria | Reference |
|-----------------|----------|-------------------|---------------------|-----------|
| | 20 | 20.2 | ± 10% of standard | EPA 2023 |
| | 100 | 104 | | |
| | 800 | 816 | | |
| | 10 | 10.1 | | |

| Calibration Check | | | | | |
|------------------------------|----------|-------------------|---------------------------------------|---------------------|-----------|
| Time Start | 12:35 | Time Finish | 12:50 | | |
| Parameter | Standard | Calibration Value | Calibration Solution Temperature (°C) | Acceptance Criteria | Reference |
| Specific Conductance (µS/cm) | 4,490 | 4301 | 25.41 | ± 10% of standard | EPA 2023 |
| pH (SU) | 4.00 | 4.06 | 25.41 | ± 0.1 | GWMP |
| pH (SU) | 7.00 | 7.08 | 23.89 | ± 0.1 | GWMP |
| pH (SU) | 10.00 | 10.05 | 22.59 | ± 0.1 | GWMP |

| Turbidity (NTU) | Standard | Calibration Value | Acceptance Criteria | Reference |
|-----------------|----------|-------------------|---------------------|-----------|
| | 20 | 20.2 | ± 10% of standard | EPA 2023 |
| | 100 | 102 | | |
| | 800 | 803 | | |
| | 10 | 10.1 | | |

Notes:

Field Instrumentation Calibration Form

Site Name: Plant Arkwright _____

Date: 2023-10-10 _____

Calibrated By: Dylan Quintal _____

Field Conditions: Partly cloudy

| Instrument | Manufacturer/ Model | Serial Number |
|---------------------|----------------------|---------------|
| Water Quality Meter | InSitu AquaTroll 400 | 850762 |
| Turbidity Meter | Hach 2100Q | 22090D000086 |

| Calibration Standard Information | | | | |
|----------------------------------|----------|----------|--------------------|-------|
| Parameter | Standard | Lot # | Date of Expiration | Brand |
| Specific Conductance (µS/cm) | 4,490 | 24000044 | May-24 | AIR |
| pH (SU) | 4.00 | 24000044 | May-24 | AIR |
| pH (SU) | 7.00 | 22290139 | Apr-24 | AIR |
| pH (SU) | 10.00 | 22110130 | Apr-24 | AIR |
| D.O. (%) | N/A | NA | NA | NA |
| ORP (mV) | 228.0 | 24002258 | Jun-24 | AIR |

| Calibration | | | | | |
|------------------------------|----------|-------------------|---------------------------------------|---------------------|-----------|
| Time Start | 7:25 | Time Finish | 7:50 | | |
| Parameter | Standard | Calibration Value | Calibration Solution Temperature (°C) | Acceptance Criteria | Reference |
| Specific Conductance (µS/cm) | 4,490 | 4470.4 | 11.85 | ± 10% of standard | EPA 2023 |
| pH (SU) | 4.00 | 4.03 | 12.00 | ± 0.1 | GWMP |
| pH (SU) | 7.00 | 7.09 | 12.24 | ± 0.1 | GWMP |
| pH (SU) | 10.00 | 10.14 | 12.38 | ± 0.1 | GWMP |
| D.O. (%) | N/A | 100.1 | 14.47 | ± 10% | NA |
| ORP (mV) | 228.0 | 246.7 | 11.82 | ± 10 | EPA 2023 |

| Turbidity (NTU) | Standard | Calibration Value | Acceptance Criteria | Reference |
|-----------------|----------|-------------------|---------------------|-----------|
| | 20 | 20.3 | ± 10% of standard | EPA 2023 |
| | 100 | 101 | | |
| | 800 | 771 | | |
| | 10 | 9.71 | | |

| Calibration Check | | | | | |
|------------------------------|----------|-------------------|---------------------------------------|---------------------|-----------|
| Time Start | 14:40 | Time Finish | 14:50 | | |
| Parameter | Standard | Calibration Value | Calibration Solution Temperature (°C) | Acceptance Criteria | Reference |
| Specific Conductance (µS/cm) | 4,490 | 4285.4 | 25.72 | ± 10% of standard | EPA 2023 |
| pH (SU) | 4.00 | 4.09 | 25.72 | ± 0.1 | GWMP |
| pH (SU) | 7.00 | 7.09 | 24.75 | ± 0.1 | GWMP |
| pH (SU) | 10.00 | 10.02 | 23.73 | ± 0.1 | GWMP |

| Turbidity (NTU) | Standard | Calibration Value | Acceptance Criteria | Reference |
|-----------------|----------|-------------------|---------------------|-----------|
| | 20 | 20.7 | ± 10% of standard | EPA 2023 |
| | 100 | 103 | | |
| | 800 | 797 | | |
| | 10 | 10.2 | | |

Notes:

Field Instrumentation Calibration Form

Site Name: Plant Arkwright _____

Date: 2023-10-11

Calibrated By: Dylan Quintal _____

Field Conditions: Cloudy, 59F

| Instrument | Manufacturer/ Model | Serial Number |
|---------------------|----------------------|---------------|
| Water Quality Meter | InSitu AquaTroll 400 | 850762 |
| Turbidity Meter | Hach 2100Q | 22090D000086 |

| Calibration Standard Information | | | | |
|----------------------------------|----------|----------|--------------------|-------|
| Parameter | Standard | Lot # | Date of Expiration | Brand |
| Specific Conductance (µS/cm) | 4,490 | 24000044 | May-24 | AIR |
| pH (SU) | 4.00 | 24000044 | May-24 | AIR |
| pH (SU) | 7.00 | 22290139 | Apr-24 | AIR |
| pH (SU) | 10.00 | 22110130 | Apr-24 | AIR |
| D.O. (%) | N/A | NA | NA | NA |
| ORP (mV) | 228.0 | 24002258 | Jun-24 | AIR |

| Calibration | | | | | |
|------------------------------|----------|-------------------|---------------------------------------|---------------------|-----------|
| Time Start | 7:00 | Time Finish | 7:30 | | |
| Parameter | Standard | Calibration Value | Calibration Solution Temperature (°C) | Acceptance Criteria | Reference |
| Specific Conductance (µS/cm) | 4,490 | 4477.8 | 18.09 | ± 10% of standard | EPA 2023 |
| pH (SU) | 4.00 | 4.04 | 18.03 | ± 0.1 | GWMP |
| pH (SU) | 7.00 | 7.07 | 18.05 | ± 0.1 | GWMP |
| pH (SU) | 10.00 | 10.05 | 18.21 | ± 0.1 | GWMP |
| D.O. (%) | N/A | 100.07 | 17.65 | ± 10% | NA |
| ORP (mV) | 228.0 | 227.9 | 17.93 | ± 10 | EPA 2023 |

| Turbidity (NTU) | Standard | Calibration Value | Acceptance Criteria | Reference |
|-----------------|----------|-------------------|---------------------|-----------|
| | 20 | 20.4 | ± 10% of standard | EPA 2023 |
| | 100 | 97.5 | | |
| | 800 | 803 | | |
| | 10 | 9.76 | | |

| Calibration Check | | | | | |
|------------------------------|----------|-------------------|---------------------------------------|---------------------|-----------|
| Time Start | 8:50 | Time Finish | 9:00 | | |
| Parameter | Standard | Calibration Value | Calibration Solution Temperature (°C) | Acceptance Criteria | Reference |
| Specific Conductance (µS/cm) | 4,490 | 4412.9 | 17.61 | ± 10% of standard | EPA 2023 |
| pH (SU) | 4.00 | 4.04 | 17.63 | ± 0.1 | GWMP |
| pH (SU) | 7.00 | 7.04 | 17.97 | ± 0.1 | GWMP |
| pH (SU) | 10.00 | 10.03 | 18.00 | ± 0.1 | GWMP |

| Turbidity (NTU) | Standard | Calibration Value | Acceptance Criteria | Reference |
|-----------------|----------|-------------------|---------------------|-----------|
| | 20 | 19.2 | ± 10% of standard | EPA 2023 |
| | 100 | 88.6 | | |
| | 800 | 807 | | |
| | 10 | 9.81 | | |

Notes:

EQUIPMENT CALIBRATION FORM

Project Name: Arkwright Groundwater Sampling
Plant Name: Plant Arkwright
Plant Address: 5001 Arkwright Road, Macon, GA 31210
Project Number: 175569434
Goal/Task: Groundwater Sampling

Date: 6/13/2023


Page 1 **of** 1


| Morning (AM) Calibration | | | Calibrated By: B. Pennell | | |
|-------------------------------------------|--------------------------|----------------------------|------------------------------------|----------------------------|----------------------------|
| Weather: | Partly cloudy, 27 °C | | | | |
| Time (24hr) Start: | 12:00 | <i>Acceptance Criteria</i> | Time (24hr) Finish: | 12:31 | |
| Temperature (°C): | | | Barometric Pressure (mbar): | | |
| <i>NIST Thermometer:</i> | 27.6 | +/- 4°C | <i>Local Weather Station:</i> | 1012.9 | |
| <i>Aqua TROLL 400:</i> | 27.15 | | <i>Aqua TROLL 400:</i> | 1002.2 | |
| Turbidity (NTUs): | <i>20 NTU Standard</i> | <i>100 NTU Standard</i> | <i>800 NTU Standard</i> | <i>10 NTU Verification</i> | <i>Acceptance Criteria</i> |
| | 20.0 | 101 | 793 | 10.1 | +/- 3 % |
| | Calibration Value | Post Calibration | <i>Acceptance Criteria</i> | Cal Sol Temp (°C) | Notes: |
| Specific Conductance 4,490 (µS/cm) | 4490 | 4494.7 | +/- 1 % | 27.13 | NA |
| pH 7 (SU) | 7.00 | 7.01 | +/- .1 (SU) | 26.50 | NA |
| pH 4 (SU) | 4.00 | 4.00 | +/- .1 (SU) | 26.82 | NA |
| pH 10 (SU) | 10.00 | 9.95 | +/- .1 (SU) | 26.57 | NA |
| D.O. (%) | N/A | 103.49 | 95-105 % | 29.05 | NA |
| ORP (mV) | 226.8 | 226.5 | +/- 10 mV | 26.46 | NA |

| Afternoon (PM) Calibration Verification | | | Verification By: Bryan Pennell | | |
|------------------------------------------|--------------------------|----------------------------|------------------------------------|----------------------------|----------------------------|
| Weather: | Cloudy, 26 °C | | | | |
| Time (24hr) Start: | 21:40 | <i>Acceptance Criteria</i> | Time (24hr) Finish: | 22:05 | |
| Temperature (°C): | | | Barometric Pressure (mbar): | | |
| <i>NIST Thermometer:</i> | 27.1 | +/- 4°C | <i>Local Weather Station:</i> | 1010.7 | |
| <i>Aqua TROLL 400:</i> | 26.63 | | <i>Aqua TROLL 400:</i> | 1001.5 | |
| Turbidity (NTUs): | <i>20 NTU Standard</i> | <i>100 NTU Standard</i> | <i>800 NTU Standard</i> | <i>10 NTU Verification</i> | <i>Acceptance Criteria</i> |
| | 19.5 | 100 | 786 | 9.82 | +/- 3 % |
| | Calibration Value | Verification | <i>Acceptance Criteria</i> | Cal Sol Temp (°C) | Notes: |
| Specific Conductance 4490 (µS/cm) | 4490 | 4488.6 | +/- 1 % | 26.63 | NA |
| pH 7 (SU) | 7.00 | 6.99 | +/- .1 (SU) | 26.12 | NA |
| pH 4 (SU) | 4.00 | 4.01 | +/- .1 (SU) | 26.68 | NA |
| pH 10 (SU) | 10.00 | 10.03 | +/- .1 (SU) | 26.03 | NA |
| D.O. (%) | N/A | 100.96 | 95-105 % | 28.31 | NA |
| ORP (mV) | 225.9 | 225.6 | +/- 10 mV | 25.86 | NA |

| 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 | 12/1/2023 | |
| Turbidity - 100 NTU | 100 | Hach | A2239 | 12/1/2023 | |
| Turbidity - 800 NTU | 800 | Hach | A2231 | 12/1/2023 | |
| Turbidity - 10 NTU | 10.0 | Hach | A2264 | 1/1/2024 | |

| | Manufacturer | Instrument Model | Serial Number | Calibrated Within Acceptance Criteria: |
|----------------------------|--------------------|------------------|---------------|----------------------------------------|
| <i>Water Quality Meter</i> | InSitu | AquaTroll 400 | 01-7125 | |
| <i>Turbidity Meter</i> | Hach | 2100Q | 22080D000173 | |
| <i>NIST Thermometer</i> | Thomas Instruments | NIST Thermometer | 221620123 | Expiration Date: 6/28/2024 |
| Explanations: | NA | | | |

Prepared By: Bryan Pennell **Date:** 6/13/2023 **Signature:** 

Review By: Jennifer Kolbe **Date:** 2/26/2024 **Signature:** 

B.3 Groundwater & Surface Water Laboratory Analytical Reports



October 23, 2023

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

Re: Arkwright CCR Groundwater Compliance AP1
Work Order: 640869

Dear Joju Abraham:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on October 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):

| <u>Laboratory ID</u> | <u>Client ID</u> | <u>Matrix</u> | <u>Date Collected</u> | <u>Date Recieved</u> |
|----------------------|------------------|---------------|-----------------------|----------------------|
| 640869001 | ARK-APIGWA-1 | Ground Water | 09/10/23 13:45 | 11/10/23 15:28 |
| 640869002 | ARK-AP1-FB-01 | Ground Water | 09/10/23 14:05 | 11/10/23 15:28 |
| 640869003 | ARK-APIGWA-2 | Ground Water | 09/10/23 14:30 | 11/10/23 15:28 |
| 640869004 | ARK-AP1-EB-01 | Ground Water | 09/10/23 15:00 | 11/10/23 15:28 |
| 640869005 | ARK-APIPZ-1 | Ground Water | 09/10/23 16:20 | 11/10/23 15:28 |
| 640869006 | ARK-APIPZ-2 | Ground Water | 09/10/23 17:00 | 11/10/23 15:28 |
| 640869007 | ARK-AP1-FD-01 | Ground Water | 09/10/23 00:00 | 11/10/23 15:28 |
| 640869008 | ARK-APIPZ-4 | Ground Water | 10/10/23 09:10 | 11/10/23 15:28 |
| 640869009 | ARK-AP1-FB-02 | Ground Water | 10/10/23 09:30 | 11/10/23 15:28 |
| 640869010 | ARK-APIPZ-3 | Ground Water | 10/10/23 09:30 | 11/10/23 15:28 |
| 640869011 | ARK-APIPZ-8 | Ground Water | 10/10/23 11:55 | 11/10/23 15:28 |
| 640869012 | ARK-APIPZ-5 | Ground Water | 10/10/23 11:20 | 11/10/23 15:28 |
| 640869013 | ARK-AP1-EB-02 | Ground Water | 10/10/23 12:10 | 11/10/23 15:28 |
| 640869014 | ARK-APIPZ-7 | Ground Water | 10/10/23 13:50 | 11/10/23 15:28 |
| 640869015 | ARK-APIPZ-10 | Ground Water | 10/10/23 14:20 | 11/10/23 15:28 |
| 640869016 | ARK-APIPZ-11 | Ground Water | 10/10/23 16:15 | 11/10/23 15:28 |



640869017 ARK-API-FD-02 Ground Water 10/10/23 00:00 11/10/23 15:28

640869018 ARK-APIPZ-9 Ground Water 11/10/23 08:20 11/10/23 15:28

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

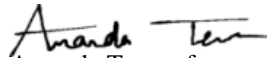
| <u>Method</u> | <u>Run Date ID</u> |
|----------------------|---------------------------|
| SW846 3005A | 12-OCT-2023 |
| SW846 7470A Prep | 12-OCT-2023 |

Analysis Methods and Analysis Dates

| <u>Method</u> | <u>Run Date ID</u> |
|----------------------|---------------------------|
| EPA 300.0 | 13-OCT-2023 |
| EPA 300.0 | 14-OCT-2023 |
| SM 2540C | 12-OCT-2023 |
| SM 2540C | 13-OCT-2023 |
| SW846 3005A/6020B | 14-OCT-2023 |
| SW846 3005A/6020B | 15-OCT-2023 |
| SW846 3005A/6020B | 16-OCT-2023 |
| SW846 7470A | 13-OCT-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,

A handwritten signature in black ink that reads "Amanda Turner". The signature is written in a cursive style with a horizontal line extending to the right from the end of the name.

Amanda Turner for
Erin Trent
Project Manager

Purchase Order: GPC82177-0005
Enclosures

GEL LABORATORIES LLC

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

Certificate of Analysis Report for

GPCC001 Georgia Power Company

Client SDG: 640869 GEL Work Order: 640869

The Qualifiers in this report are defined as follows:

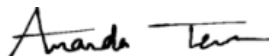
- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a Tracer compound
- ** Analyte is a surrogate compound
- B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL
- J Value is estimated
- N Metals--The Matrix spike sample recovery is not within specified control limits
- N/A RPD or %Recovery limits do not apply.
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

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

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

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

Reviewed by



GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: October 23, 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 ComplianceAP1

Client Sample ID: ARK-AP1GWA-1 Project: GPCC00100
Sample ID: 640869001 Client ID: GPCC001
Matrix: WG
Collect Date: 09-OCT-23 13:45
Receive Date: 11-OCT-23
Collector: Client

| Parameter | Qualifier | Result | DL | RL | Units | PF | DF | Analyst | Date | Time | Batch | Method |
|-----------------------------------------------|-----------|----------|-----------|----------|-------|------|----|---------|----------|------|---------|--------|
| Ion Chromatography | | | | | | | | | | | | |
| EPA 300.0 Anions Liquid "As Received" | | | | | | | | | | | | |
| Chloride | | 1.77 | 0.335 | 1.00 | mg/L | | 5 | LXA2 | 10/13/23 | 1029 | 2507800 | 1 |
| Sulfate | | 58.3 | 0.665 | 2.00 | mg/L | | 5 | | | | | |
| Fluoride | | 0.426 | 0.0330 | 0.100 | mg/L | | 1 | LXA2 | 10/13/23 | 2017 | 2507800 | 2 |
| Mercury Analysis-CVAA | | | | | | | | | | | | |
| 7470 Cold Vapor Mercury, Liquid "As Received" | | | | | | | | | | | | |
| Mercury | U | ND | 0.0000670 | 0.000200 | mg/L | 1.00 | 1 | JP2 | 10/13/23 | 1200 | 2507487 | 3 |
| Metals Analysis-ICP-MS | | | | | | | | | | | | |
| SW846 3005A/6020B "As Received" | | | | | | | | | | | | |
| Antimony | U | ND | 0.00100 | 0.00300 | mg/L | 1.00 | 1 | PRB | 10/14/23 | 1441 | 2507328 | 4 |
| Barium | | 0.0609 | 0.000670 | 0.00400 | mg/L | 1.00 | 1 | | | | | |
| Beryllium | | 0.00187 | 0.000200 | 0.000500 | mg/L | 1.00 | 1 | | | | | |
| Cadmium | J | 0.000410 | 0.000300 | 0.00100 | mg/L | 1.00 | 1 | | | | | |
| Calcium | | 19.3 | 0.0800 | 0.200 | mg/L | 1.00 | 1 | | | | | |
| Chromium | J | 0.00462 | 0.00300 | 0.0100 | mg/L | 1.00 | 1 | | | | | |
| Cobalt | | 0.00672 | 0.000300 | 0.00100 | mg/L | 1.00 | 1 | | | | | |
| Lead | U | ND | 0.000500 | 0.00200 | mg/L | 1.00 | 1 | | | | | |
| Lithium | J | 0.00944 | 0.00300 | 0.0100 | mg/L | 1.00 | 1 | | | | | |
| Molybdenum | U | ND | 0.000200 | 0.00100 | mg/L | 1.00 | 1 | | | | | |
| Selenium | J | 0.00299 | 0.00150 | 0.00500 | mg/L | 1.00 | 1 | | | | | |
| Thallium | U | ND | 0.000600 | 0.00200 | mg/L | 1.00 | 1 | | | | | |
| Arsenic | J | 0.00219 | 0.00200 | 0.00500 | mg/L | 1.00 | 1 | PRB | 10/15/23 | 1550 | 2507328 | 5 |
| Boron | | 0.108 | 0.00520 | 0.0150 | mg/L | 1.00 | 1 | PRB | 10/16/23 | 1028 | 2507328 | 6 |
| Solids Analysis | | | | | | | | | | | | |
| SM2540C Dissolved Solids "As Received" | | | | | | | | | | | | |
| Total Dissolved Solids | | 139 | 2.38 | 10.0 | mg/L | | | CH6 | 10/12/23 | 1323 | 2507350 | 7 |

The following Prep Methods were performed:

| Method | Description | Analyst | Date | Time | Prep Batch |
|------------------|-------------------------------|---------|----------|------|------------|
| SW846 7470A Prep | EPA 7470A Mercury Prep Liquid | EK1 | 10/12/23 | 1120 | 2507486 |
| SW846 3005A | ICP-MS 3005A PREP | SD | 10/12/23 | 1525 | 2507327 |

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: October 23, 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 ComplianceAPI

Client Sample ID: ARK-APIGWA-1
Sample ID: 640869001

Project: GPCC00100
Client ID: GPCC001

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

Notes:

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Lc/LC: Critical Level

PF: Prep Factor

RL: Reporting Limit

SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: October 23, 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 ComplianceAP1

| | |
|---------------------------------|--------------------|
| Client Sample ID: ARK-AP1-FB-01 | Project: GPCC00100 |
| Sample ID: 640869002 | Client ID: GPCC001 |
| Matrix: WQ | |
| Collect Date: 09-OCT-23 14:05 | |
| Receive Date: 11-OCT-23 | |
| Collector: Client | |

| Parameter | Qualifier | Result | DL | RL | Units | PF | DF | Analyst | Date | Time | Batch | Method |
|------------------------------------------------------|-----------|---------|-----------|----------|-------|------|----|---------|----------|------|---------|--------|
| Ion Chromatography | | | | | | | | | | | | |
| EPA 300.0 Anions Liquid "As Received" | | | | | | | | | | | | |
| Chloride | | 0.213 | 0.0670 | 0.200 | mg/L | | 1 | LXA2 | 10/13/23 | 0342 | 2507800 | 1 |
| Fluoride | U | ND | 0.0330 | 0.100 | mg/L | | 1 | | | | | |
| Sulfate | U | ND | 0.133 | 0.400 | mg/L | | 1 | | | | | |
| Mercury Analysis-CVAA | | | | | | | | | | | | |
| 7470 Cold Vapor Mercury, Liquid "As Received" | | | | | | | | | | | | |
| Mercury | U | ND | 0.0000670 | 0.000200 | mg/L | 1.00 | 1 | JP2 | 10/13/23 | 1201 | 2507487 | 2 |
| Metals Analysis-ICP-MS | | | | | | | | | | | | |
| SW846 3005A/6020B "As Received" | | | | | | | | | | | | |
| Antimony | U | ND | 0.00100 | 0.00300 | mg/L | 1.00 | 1 | PRB | 10/14/23 | 1506 | 2507328 | 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 | | | | | |
| Boron | U | ND | 0.00520 | 0.0150 | mg/L | 1.00 | 1 | PRB | 10/16/23 | 1041 | 2507328 | 4 |
| Arsenic | J | 0.00231 | 0.00200 | 0.00500 | mg/L | 1.00 | 1 | PRB | 10/15/23 | 1604 | 2507328 | 5 |
| Solids Analysis | | | | | | | | | | | | |
| SM2540C Dissolved Solids "As Received" | | | | | | | | | | | | |
| Total Dissolved Solids | U | ND | 2.38 | 10.0 | mg/L | | | CH6 | 10/12/23 | 1323 | 2507350 | 6 |

The following Prep Methods were performed:

| Method | Description | Analyst | Date | Time | Prep Batch |
|------------------|-------------------------------|---------|----------|------|------------|
| SW846 3005A | ICP-MS 3005A PREP | SD | 10/12/23 | 1525 | 2507327 |
| SW846 7470A Prep | EPA 7470A Mercury Prep Liquid | EK1 | 10/12/23 | 1120 | 2507486 |

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: October 23, 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 ComplianceAPI

Client Sample ID: ARK-API-FB-01
Sample ID: 640869002

Project: GPCC00100
Client ID: GPCC001

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

Notes:

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Lc/LC: Critical Level

PF: Prep Factor

RL: Reporting Limit

SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 23, 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 ComplianceAP1

| | |
|--------------------------------|--------------------|
| Client Sample ID: ARK-AP1GWA-2 | Project: GPCC00100 |
| Sample ID: 640869003 | Client ID: GPCC001 |
| Matrix: WG | |
| Collect Date: 09-OCT-23 14:30 | |
| Receive Date: 11-OCT-23 | |
| Collector: Client | |

| Parameter | Qualifier | Result | DL | RL | Units | PF | DF | Analyst | Date | Time | Batch | Method |
|------------------------------------------------------|-----------|---------|-----------|----------|-------|------|----|---------|----------|------|---------|--------|
| Ion Chromatography | | | | | | | | | | | | |
| EPA 300.0 Anions Liquid "As Received" | | | | | | | | | | | | |
| Chloride | | 1.81 | 0.0670 | 0.200 | mg/L | | 1 | LXA2 | 10/13/23 | 0413 | 2507800 | 1 |
| Fluoride | | 0.225 | 0.0330 | 0.100 | mg/L | | 1 | | | | | |
| Sulfate | | 2.17 | 0.133 | 0.400 | mg/L | | 1 | | | | | |
| Mercury Analysis-CVAA | | | | | | | | | | | | |
| 7470 Cold Vapor Mercury, Liquid "As Received" | | | | | | | | | | | | |
| Mercury | U | ND | 0.0000670 | 0.000200 | mg/L | 1.00 | 1 | JP2 | 10/13/23 | 1203 | 2507487 | 2 |
| Metals Analysis-ICP-MS | | | | | | | | | | | | |
| SW846 3005A/6020B "As Received" | | | | | | | | | | | | |
| Boron | | 0.0734 | 0.00520 | 0.0150 | mg/L | 1.00 | 1 | PRB | 10/16/23 | 1043 | 2507328 | 3 |
| Arsenic | J | 0.00255 | 0.00200 | 0.00500 | mg/L | 1.00 | 1 | PRB | 10/15/23 | 1606 | 2507328 | 4 |
| Antimony | U | ND | 0.00100 | 0.00300 | mg/L | 1.00 | 1 | PRB | 10/14/23 | 1510 | 2507328 | 5 |
| Barium | | 0.0580 | 0.000670 | 0.00400 | mg/L | 1.00 | 1 | | | | | |
| Beryllium | U | ND | 0.000200 | 0.000500 | mg/L | 1.00 | 1 | | | | | |
| Cadmium | U | ND | 0.000300 | 0.00100 | mg/L | 1.00 | 1 | | | | | |
| Calcium | | 6.91 | 0.0800 | 0.200 | mg/L | 1.00 | 1 | | | | | |
| Chromium | J | 0.00340 | 0.00300 | 0.0100 | mg/L | 1.00 | 1 | | | | | |
| Cobalt | | 0.0112 | 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 | | | | | |
| Solids Analysis | | | | | | | | | | | | |
| SM2540C Dissolved Solids "As Received" | | | | | | | | | | | | |
| Total Dissolved Solids | | 52.0 | 2.38 | 10.0 | mg/L | | | CH6 | 10/12/23 | 1323 | 2507350 | 6 |

The following Prep Methods were performed:

| Method | Description | Analyst | Date | Time | Prep Batch |
|------------------|-------------------------------|---------|----------|------|------------|
| SW846 7470A Prep | EPA 7470A Mercury Prep Liquid | EK1 | 10/12/23 | 1120 | 2507486 |
| SW846 3005A | ICP-MS 3005A PREP | SD | 10/12/23 | 1525 | 2507327 |

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Certificate of Analysis

Report Date: October 23, 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 ComplianceAP1

| | |
|---------------------------------|--------------------|
| Client Sample ID: ARK-AP1-EB-01 | Project: GPCC00100 |
| Sample ID: 640869004 | Client ID: GPCC001 |
| Matrix: WQ | |
| Collect Date: 09-OCT-23 15:00 | |
| Receive Date: 11-OCT-23 | |
| Collector: Client | |

| Parameter | Qualifier | Result | DL | RL | Units | PF | DF | Analyst | Date | Time | Batch | Method |
|------------------------------------------------------|-----------|---------|-----------|----------|-------|------|----|---------|----------|------|---------|--------|
| Ion Chromatography | | | | | | | | | | | | |
| EPA 300.0 Anions Liquid "As Received" | | | | | | | | | | | | |
| Chloride | | 0.364 | 0.0670 | 0.200 | mg/L | | 1 | LXA2 | 10/13/23 | 0546 | 2507800 | 1 |
| Fluoride | U | ND | 0.0330 | 0.100 | mg/L | | 1 | | | | | |
| Sulfate | U | ND | 0.133 | 0.400 | mg/L | | 1 | | | | | |
| Mercury Analysis-CVAA | | | | | | | | | | | | |
| 7470 Cold Vapor Mercury, Liquid "As Received" | | | | | | | | | | | | |
| Mercury | U | ND | 0.0000670 | 0.000200 | mg/L | 1.00 | 1 | JP2 | 10/13/23 | 1204 | 2507487 | 2 |
| Metals Analysis-ICP-MS | | | | | | | | | | | | |
| SW846 3005A/6020B "As Received" | | | | | | | | | | | | |
| Arsenic | J | 0.00243 | 0.00200 | 0.00500 | mg/L | 1.00 | 1 | PRB | 10/15/23 | 1608 | 2507328 | 3 |
| Boron | U | ND | 0.00520 | 0.0150 | mg/L | 1.00 | 1 | PRB | 10/16/23 | 1045 | 2507328 | 4 |
| Antimony | U | ND | 0.00100 | 0.00300 | mg/L | 1.00 | 1 | PRB | 10/14/23 | 1513 | 2507328 | 5 |
| 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 | | | | | |
| Solids Analysis | | | | | | | | | | | | |
| SM2540C Dissolved Solids "As Received" | | | | | | | | | | | | |
| Total Dissolved Solids | U | ND | 2.38 | 10.0 | mg/L | | | CH6 | 10/12/23 | 1423 | 2507357 | 6 |

The following Prep Methods were performed:

| Method | Description | Analyst | Date | Time | Prep Batch |
|------------------|-------------------------------|---------|----------|------|------------|
| SW846 3005A | ICP-MS 3005A PREP | SD | 10/12/23 | 1525 | 2507327 |
| SW846 7470A Prep | EPA 7470A Mercury Prep Liquid | EK1 | 10/12/23 | 1120 | 2507486 |

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: October 23, 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 ComplianceAPI

Client Sample ID: ARK-API-EB-01
Sample ID: 640869004

Project: GPCC00100
Client ID: GPCC001

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

Notes:

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Lc/LC: Critical Level

PF: Prep Factor

RL: Reporting Limit

SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 23, 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 ComplianceAP1

| | |
|-------------------------------|--------------------|
| Client Sample ID: ARK-AP1PZ-1 | Project: GPCC00100 |
| Sample ID: 640869005 | Client ID: GPCC001 |
| Matrix: WG | |
| Collect Date: 09-OCT-23 16:20 | |
| Receive Date: 11-OCT-23 | |
| Collector: Client | |

| Parameter | Qualifier | Result | DL | RL | Units | PF | DF | Analyst | Date | Time | Batch | Method |
|------------------------------------------------------|-----------|----------|-----------|----------|-------|------|----|---------|----------|------|---------|--------|
| Ion Chromatography | | | | | | | | | | | | |
| EPA 300.0 Anions Liquid "As Received" | | | | | | | | | | | | |
| Fluoride | | 0.279 | 0.0330 | 0.100 | mg/L | | 1 | LXA2 | 10/13/23 | 2149 | 2507800 | 1 |
| Chloride | | 3.13 | 0.670 | 2.00 | mg/L | | 10 | LXA2 | 10/13/23 | 0718 | 2507800 | 2 |
| Sulfate | | 105 | 1.33 | 4.00 | mg/L | | 10 | | | | | |
| Mercury Analysis-CVAA | | | | | | | | | | | | |
| 7470 Cold Vapor Mercury, Liquid "As Received" | | | | | | | | | | | | |
| Mercury | U | ND | 0.0000670 | 0.000200 | mg/L | 1.00 | 1 | JP2 | 10/13/23 | 1206 | 2507487 | 3 |
| Metals Analysis-ICP-MS | | | | | | | | | | | | |
| SW846 3005A/6020B "As Received" | | | | | | | | | | | | |
| Arsenic | J | 0.00222 | 0.00200 | 0.00500 | mg/L | 1.00 | 1 | PRB | 10/15/23 | 1610 | 2507328 | 4 |
| Antimony | U | ND | 0.00100 | 0.00300 | mg/L | 1.00 | 1 | PRB | 10/14/23 | 1517 | 2507328 | 5 |
| Barium | | 0.0422 | 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 | | 33.2 | 0.0800 | 0.200 | mg/L | 1.00 | 1 | | | | | |
| Chromium | U | ND | 0.00300 | 0.0100 | mg/L | 1.00 | 1 | | | | | |
| Cobalt | J | 0.000610 | 0.000300 | 0.00100 | mg/L | 1.00 | 1 | | | | | |
| Lead | U | ND | 0.000500 | 0.00200 | mg/L | 1.00 | 1 | | | | | |
| Lithium | J | 0.00408 | 0.00300 | 0.0100 | mg/L | 1.00 | 1 | | | | | |
| Molybdenum | J | 0.000437 | 0.000200 | 0.00100 | mg/L | 1.00 | 1 | | | | | |
| Selenium | U | ND | 0.00150 | 0.00500 | mg/L | 1.00 | 1 | | | | | |
| Thallium | U | ND | 0.000600 | 0.00200 | mg/L | 1.00 | 1 | | | | | |
| Boron | | 0.355 | 0.0260 | 0.0750 | mg/L | 1.00 | 5 | PRB | 10/15/23 | 2114 | 2507328 | 6 |
| Solids Analysis | | | | | | | | | | | | |
| SM2540C Dissolved Solids "As Received" | | | | | | | | | | | | |
| Total Dissolved Solids | | 211 | 2.38 | 10.0 | mg/L | | | CH6 | 10/12/23 | 1423 | 2507357 | 7 |

The following Prep Methods were performed:

| Method | Description | Analyst | Date | Time | Prep Batch |
|------------------|-------------------------------|---------|----------|------|------------|
| SW846 7470A Prep | EPA 7470A Mercury Prep Liquid | EK1 | 10/12/23 | 1120 | 2507486 |
| SW846 3005A | ICP-MS 3005A PREP | SD | 10/12/23 | 1525 | 2507327 |

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: October 23, 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 ComplianceAPI

Client Sample ID: ARK-APIPZ-1
Sample ID: 640869005

Project: GPCC00100
Client ID: GPCC001

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

Notes:

Column headers are defined as follows:

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

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: October 23, 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 ComplianceAP1

| | |
|-------------------------------|--------------------|
| Client Sample ID: ARK-AP1PZ-2 | Project: GPCC00100 |
| Sample ID: 640869006 | Client ID: GPCC001 |
| Matrix: WG | |
| Collect Date: 09-OCT-23 17:00 | |
| Receive Date: 11-OCT-23 | |
| Collector: Client | |

| Parameter | Qualifier | Result | DL | RL | Units | PF | DF | Analyst | Date | Time | Batch | Method |
|------------------------------------------------------|-----------|----------|-----------|----------|-------|------|----|---------|----------|------|---------|--------|
| Ion Chromatography | | | | | | | | | | | | |
| EPA 300.0 Anions Liquid "As Received" | | | | | | | | | | | | |
| Sulfate | | 801 | 6.65 | 20.0 | mg/L | | 50 | LXA2 | 10/13/23 | 0749 | 2507800 | 1 |
| Chloride | | 2.98 | 0.134 | 0.400 | mg/L | | 2 | LXA2 | 10/13/23 | 2220 | 2507800 | 2 |
| Fluoride | | 0.262 | 0.0660 | 0.200 | mg/L | | 2 | | | | | |
| Mercury Analysis-CVAA | | | | | | | | | | | | |
| 7470 Cold Vapor Mercury, Liquid "As Received" | | | | | | | | | | | | |
| Mercury | U | ND | 0.0000670 | 0.000200 | mg/L | 1.00 | 1 | JP2 | 10/13/23 | 1208 | 2507487 | 3 |
| Metals Analysis-ICP-MS | | | | | | | | | | | | |
| SW846 3005A/6020B "As Received" | | | | | | | | | | | | |
| Antimony | U | ND | 0.00100 | 0.00300 | mg/L | 1.00 | 1 | PRB | 10/14/23 | 1520 | 2507328 | 4 |
| Barium | | 0.0300 | 0.000670 | 0.00400 | mg/L | 1.00 | 1 | | | | | |
| Beryllium | U | ND | 0.000200 | 0.000500 | mg/L | 1.00 | 1 | | | | | |
| Cadmium | J | 0.000689 | 0.000300 | 0.00100 | mg/L | 1.00 | 1 | | | | | |
| Chromium | U | ND | 0.00300 | 0.0100 | mg/L | 1.00 | 1 | | | | | |
| Cobalt | | 0.169 | 0.000300 | 0.00100 | 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 | U | ND | 0.000200 | 0.00100 | mg/L | 1.00 | 1 | | | | | |
| Selenium | U | ND | 0.00150 | 0.00500 | mg/L | 1.00 | 1 | | | | | |
| Thallium | U | ND | 0.000600 | 0.00200 | mg/L | 1.00 | 1 | | | | | |
| Boron | | 0.470 | 0.0260 | 0.0750 | mg/L | 1.00 | 5 | PRB | 10/15/23 | 2116 | 2507328 | 5 |
| Calcium | | 205 | 0.400 | 1.00 | mg/L | 1.00 | 5 | | | | | |
| Arsenic | U | ND | 0.00200 | 0.00500 | mg/L | 1.00 | 1 | PRB | 10/15/23 | 1612 | 2507328 | 6 |
| Solids Analysis | | | | | | | | | | | | |
| SM2540C Dissolved Solids "As Received" | | | | | | | | | | | | |
| Total Dissolved Solids | | 1170 | 4.76 | 20.0 | mg/L | | | CH6 | 10/12/23 | 1423 | 2507357 | 7 |

The following Prep Methods were performed:

| Method | Description | Analyst | Date | Time | Prep Batch |
|------------------|-------------------------------|---------|----------|------|------------|
| SW846 3005A | ICP-MS 3005A PREP | SD | 10/12/23 | 1525 | 2507327 |
| SW846 7470A Prep | EPA 7470A Mercury Prep Liquid | EK1 | 10/12/23 | 1120 | 2507486 |

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Certificate of Analysis

Report Date: October 23, 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 ComplianceAP1

Client Sample ID: ARK-AP1-FD-01 Project: GPCC00100
Sample ID: 640869007 Client ID: GPCC001
Matrix: WG
Collect Date: 09-OCT-23 00:00
Receive Date: 11-OCT-23
Collector: Client

| Parameter | Qualifier | Result | DL | RL | Units | PF | DF | Analyst | Date | Time | Batch | Method |
|-----------------------------------------------|-----------|----------|-----------|----------|-------|------|-----|---------|----------|------|---------|--------|
| Ion Chromatography | | | | | | | | | | | | |
| EPA 300.0 Anions Liquid "As Received" | | | | | | | | | | | | |
| Sulfate | | 804 | 13.3 | 40.0 | mg/L | | 100 | LXA2 | 10/13/23 | 0820 | 2507800 | 1 |
| Chloride | | 3.06 | 0.134 | 0.400 | mg/L | | 2 | LXA2 | 10/13/23 | 2251 | 2507800 | 2 |
| Fluoride | | 0.283 | 0.0660 | 0.200 | mg/L | | 2 | | | | | |
| Mercury Analysis-CVAA | | | | | | | | | | | | |
| 7470 Cold Vapor Mercury, Liquid "As Received" | | | | | | | | | | | | |
| Mercury | U | ND | 0.0000670 | 0.000200 | mg/L | 1.00 | 1 | JP2 | 10/13/23 | 1213 | 2507487 | 3 |
| Metals Analysis-ICP-MS | | | | | | | | | | | | |
| SW846 3005A/6020B "As Received" | | | | | | | | | | | | |
| Antimony | U | ND | 0.00100 | 0.00300 | mg/L | 1.00 | 1 | PRB | 10/14/23 | 1524 | 2507328 | 4 |
| Barium | | 0.0313 | 0.000670 | 0.00400 | mg/L | 1.00 | 1 | | | | | |
| Beryllium | U | ND | 0.000200 | 0.000500 | mg/L | 1.00 | 1 | | | | | |
| Cadmium | J | 0.000635 | 0.000300 | 0.00100 | mg/L | 1.00 | 1 | | | | | |
| Chromium | U | ND | 0.00300 | 0.0100 | mg/L | 1.00 | 1 | | | | | |
| Cobalt | | 0.192 | 0.000300 | 0.00100 | mg/L | 1.00 | 1 | | | | | |
| Lead | U | ND | 0.000500 | 0.00200 | mg/L | 1.00 | 1 | | | | | |
| Lithium | | 0.0238 | 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 | | | | | |
| Arsenic | U | ND | 0.00200 | 0.00500 | mg/L | 1.00 | 1 | PRB | 10/15/23 | 1614 | 2507328 | 5 |
| Boron | | 0.492 | 0.0260 | 0.0750 | mg/L | 1.00 | 5 | PRB | 10/15/23 | 2118 | 2507328 | 6 |
| Calcium | | 218 | 0.400 | 1.00 | mg/L | 1.00 | 5 | | | | | |
| Solids Analysis | | | | | | | | | | | | |
| SM2540C Dissolved Solids "As Received" | | | | | | | | | | | | |
| Total Dissolved Solids | | 1210 | 4.76 | 20.0 | mg/L | | | CH6 | 10/12/23 | 1423 | 2507357 | 7 |

The following Prep Methods were performed:

| Method | Description | Analyst | Date | Time | Prep Batch |
|------------------|-------------------------------|---------|----------|------|------------|
| SW846 3005A | ICP-MS 3005A PREP | SD | 10/12/23 | 1525 | 2507327 |
| SW846 7470A Prep | EPA 7470A Mercury Prep Liquid | EK1 | 10/12/23 | 1120 | 2507486 |

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: October 23, 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 ComplianceAPI

Client Sample ID: ARK-API-FD-01
Sample ID: 640869007

Project: GPCC00100
Client ID: GPCC001

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

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: October 23, 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 ComplianceAP1

Client Sample ID: ARK-AP1PZ-4 Project: GPCC00100
Sample ID: 640869008 Client ID: GPCC001
Matrix: WG
Collect Date: 10-OCT-23 09:10
Receive Date: 11-OCT-23
Collector: Client

| Parameter | Qualifier | Result | DL | RL | Units | PF | DF | Analyst | Date | Time | Batch | Method |
|-----------------------------------------------|-----------|----------|-----------|----------|-------|------|-----|---------|----------|------|---------|--------|
| Ion Chromatography | | | | | | | | | | | | |
| EPA 300.0 Anions Liquid "As Received" | | | | | | | | | | | | |
| Chloride | | 5.59 | 0.335 | 1.00 | mg/L | | 5 | LXA2 | 10/13/23 | 2321 | 2507800 | 1 |
| Fluoride | | 0.565 | 0.165 | 0.500 | mg/L | | 5 | | | | | |
| Sulfate | | 1370 | 26.6 | 80.0 | mg/L | | 200 | LXA2 | 10/13/23 | 0851 | 2507800 | 2 |
| Mercury Analysis-CVAA | | | | | | | | | | | | |
| 7470 Cold Vapor Mercury, Liquid "As Received" | | | | | | | | | | | | |
| Mercury | U | ND | 0.0000670 | 0.000200 | mg/L | 1.00 | 1 | JP2 | 10/13/23 | 1214 | 2507487 | 3 |
| Metals Analysis-ICP-MS | | | | | | | | | | | | |
| SW846 3005A/6020B "As Received" | | | | | | | | | | | | |
| Arsenic | J | 0.00302 | 0.00200 | 0.00500 | mg/L | 1.00 | 1 | PRB | 10/15/23 | 1616 | 2507328 | 4 |
| Antimony | U | ND | 0.00100 | 0.00300 | mg/L | 1.00 | 1 | PRB | 10/14/23 | 1528 | 2507328 | 5 |
| Barium | | 0.0395 | 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 | 0.000518 | 0.000300 | 0.00100 | mg/L | 1.00 | 1 | | | | | |
| Lead | U | ND | 0.000500 | 0.00200 | mg/L | 1.00 | 1 | | | | | |
| Lithium | J | 0.00657 | 0.00300 | 0.0100 | mg/L | 1.00 | 1 | | | | | |
| Molybdenum | | 0.00398 | 0.000200 | 0.00100 | mg/L | 1.00 | 1 | | | | | |
| Selenium | U | ND | 0.00150 | 0.00500 | mg/L | 1.00 | 1 | | | | | |
| Thallium | U | ND | 0.000600 | 0.00200 | mg/L | 1.00 | 1 | | | | | |
| Boron | | 4.02 | 0.130 | 0.375 | mg/L | 1.00 | 25 | PRB | 10/15/23 | 2120 | 2507328 | 6 |
| Calcium | | 418 | 2.00 | 5.00 | mg/L | 1.00 | 25 | | | | | |

Solids Analysis

SM2540C Dissolved Solids "As Received"

Total Dissolved Solids 2030 23.8 100 mg/L CH6 10/12/23 1423 2507357 7

The following Prep Methods were performed:

| Method | Description | Analyst | Date | Time | Prep Batch |
|------------------|-------------------------------|---------|----------|------|------------|
| SW846 3005A | ICP-MS 3005A PREP | SD | 10/12/23 | 1525 | 2507327 |
| SW846 7470A Prep | EPA 7470A Mercury Prep Liquid | EK1 | 10/12/23 | 1120 | 2507486 |

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Certificate of Analysis

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Address : 241 Ralph McGill Blvd NE, Bin 10160

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

Client Sample ID: ARK-APIPZ-4
Sample ID: 640869008

Project: GPCC00100
Client ID: GPCC001

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

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: October 23, 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 ComplianceAP1

Client Sample ID: ARK-AP1-FB-02 Project: GPCC00100
Sample ID: 640869009 Client ID: GPCC001
Matrix: WQ
Collect Date: 10-OCT-23 09:30
Receive Date: 11-OCT-23
Collector: Client

| Parameter | Qualifier | Result | DL | RL | Units | PF | DF | Analyst | Date | Time | Batch | Method |
|-----------------------------------------------|-----------|---------|-----------|----------|-------|------|----|---------|----------|------|---------|--------|
| Ion Chromatography | | | | | | | | | | | | |
| EPA 300.0 Anions Liquid "As Received" | | | | | | | | | | | | |
| Chloride | U | ND | 0.0670 | 0.200 | mg/L | | 1 | LXA2 | 10/13/23 | 0922 | 2507800 | 1 |
| Fluoride | U | ND | 0.0330 | 0.100 | mg/L | | 1 | | | | | |
| Sulfate | U | ND | 0.133 | 0.400 | mg/L | | 1 | | | | | |
| Mercury Analysis-CVAA | | | | | | | | | | | | |
| 7470 Cold Vapor Mercury, Liquid "As Received" | | | | | | | | | | | | |
| Mercury | U | ND | 0.0000670 | 0.000200 | mg/L | 1.00 | 1 | JP2 | 10/13/23 | 1216 | 2507487 | 2 |
| Metals Analysis-ICP-MS | | | | | | | | | | | | |
| SW846 3005A/6020B "As Received" | | | | | | | | | | | | |
| Antimony | U | ND | 0.00100 | 0.00300 | mg/L | 1.00 | 1 | PRB | 10/14/23 | 1531 | 2507328 | 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 | | | | | |
| Boron | U | ND | 0.00520 | 0.0150 | mg/L | 1.00 | 1 | PRB | 10/16/23 | 1046 | 2507328 | 4 |
| Arsenic | J | 0.00204 | 0.00200 | 0.00500 | mg/L | 1.00 | 1 | PRB | 10/15/23 | 1622 | 2507328 | 5 |
| Solids Analysis | | | | | | | | | | | | |
| SM2540C Dissolved Solids "As Received" | | | | | | | | | | | | |
| Total Dissolved Solids | U | ND | 2.38 | 10.0 | mg/L | | | CH6 | 10/12/23 | 1423 | 2507357 | 6 |

The following Prep Methods were performed:

| Method | Description | Analyst | Date | Time | Prep Batch |
|------------------|-------------------------------|---------|----------|------|------------|
| SW846 7470A Prep | EPA 7470A Mercury Prep Liquid | EK1 | 10/12/23 | 1120 | 2507486 |
| SW846 3005A | ICP-MS 3005A PREP | SD | 10/12/23 | 1525 | 2507327 |

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Certificate of Analysis

Report Date: October 23, 2023

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Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Arkwright CCR Groundwater ComplianceAP1

Client Sample ID: ARK-AP1-FB-02
Sample ID: 640869009

Project: GPCC00100
Client ID: GPCC001

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

Notes:

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Lc/LC: Critical Level

PF: Prep Factor

RL: Reporting Limit

SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 23, 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 ComplianceAP1

| | |
|-------------------------------|--------------------|
| Client Sample ID: ARK-AP1PZ-3 | Project: GPCC00100 |
| Sample ID: 640869010 | Client ID: GPCC001 |
| Matrix: WG | |
| Collect Date: 10-OCT-23 09:30 | |
| Receive Date: 11-OCT-23 | |
| Collector: Client | |

| Parameter | Qualifier | Result | DL | RL | Units | PF | DF | Analyst | Date | Time | Batch | Method |
|------------------------------------------------------|-----------|----------|-----------|----------|-------|------|-----|---------|----------|------|---------|--------|
| Ion Chromatography | | | | | | | | | | | | |
| EPA 300.0 Anions Liquid "As Received" | | | | | | | | | | | | |
| Sulfate | | 1290 | 13.3 | 40.0 | mg/L | | 100 | LXA2 | 10/13/23 | 0952 | 2507800 | 1 |
| Chloride | | 4.77 | 0.335 | 1.00 | mg/L | | 5 | LXA2 | 10/14/23 | 0054 | 2507800 | 2 |
| Fluoride | U | ND | 0.165 | 0.500 | mg/L | | 5 | | | | | |
| Mercury Analysis-CVAA | | | | | | | | | | | | |
| 7470 Cold Vapor Mercury, Liquid "As Received" | | | | | | | | | | | | |
| Mercury | U | ND | 0.0000670 | 0.000200 | mg/L | 1.00 | 1 | JP2 | 10/13/23 | 1218 | 2507487 | 3 |
| Metals Analysis-ICP-MS | | | | | | | | | | | | |
| SW846 3005A/6020B "As Received" | | | | | | | | | | | | |
| Antimony | U | ND | 0.00100 | 0.00300 | mg/L | 1.00 | 1 | PRB | 10/14/23 | 1535 | 2507328 | 4 |
| Barium | | 0.0254 | 0.000670 | 0.00400 | mg/L | 1.00 | 1 | | | | | |
| Beryllium | U | ND | 0.000200 | 0.000500 | mg/L | 1.00 | 1 | | | | | |
| Cadmium | | 0.00195 | 0.000300 | 0.00100 | mg/L | 1.00 | 1 | | | | | |
| Chromium | U | ND | 0.00300 | 0.0100 | mg/L | 1.00 | 1 | | | | | |
| Cobalt | | 0.0639 | 0.000300 | 0.00100 | mg/L | 1.00 | 1 | | | | | |
| Lead | U | ND | 0.000500 | 0.00200 | mg/L | 1.00 | 1 | | | | | |
| Lithium | | 0.0659 | 0.00300 | 0.0100 | mg/L | 1.00 | 1 | | | | | |
| Molybdenum | J | 0.000299 | 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 | | | | | |
| Arsenic | U | ND | 0.00200 | 0.00500 | mg/L | 1.00 | 1 | PRB | 10/15/23 | 1625 | 2507328 | 5 |
| Boron | | 1.71 | 0.104 | 0.300 | mg/L | 1.00 | 20 | PRB | 10/15/23 | 2126 | 2507328 | 6 |
| Calcium | | 434 | 1.60 | 4.00 | mg/L | 1.00 | 20 | | | | | |
| Solids Analysis | | | | | | | | | | | | |
| SM2540C Dissolved Solids "As Received" | | | | | | | | | | | | |
| Total Dissolved Solids | | 1830 | 23.8 | 100 | mg/L | | | CH6 | 10/12/23 | 1423 | 2507357 | 7 |

The following Prep Methods were performed:

| Method | Description | Analyst | Date | Time | Prep Batch |
|------------------|-------------------------------|---------|----------|------|------------|
| SW846 7470A Prep | EPA 7470A Mercury Prep Liquid | EK1 | 10/12/23 | 1120 | 2507486 |
| SW846 3005A | ICP-MS 3005A PREP | SD | 10/12/23 | 1525 | 2507327 |

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Certificate of Analysis

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

Client Sample ID: ARK-AP1PZ-3
Sample ID: 640869010

Project: GPCC00100
Client ID: GPCC001

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

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

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

Atlanta, Georgia 30308

Contact: Joju Abraham
 Project: Arkwright CCR Groundwater ComplianceAP1

| | |
|-------------------------------|--------------------|
| Client Sample ID: ARK-AP1PZ-8 | Project: GPCC00100 |
| Sample ID: 640869011 | Client ID: GPCC001 |
| Matrix: WG | |
| Collect Date: 10-OCT-23 11:55 | |
| Receive Date: 11-OCT-23 | |
| Collector: Client | |

| Parameter | Qualifier | Result | DL | RL | Units | PF | DF | Analyst | Date | Time | Batch | Method |
|------------------------------------------------------|-----------|---------|-----------|----------|-------|------|-----|---------|----------|------|---------|--------|
| Ion Chromatography | | | | | | | | | | | | |
| EPA 300.0 Anions Liquid "As Received" | | | | | | | | | | | | |
| Sulfate | | 680 | 13.3 | 40.0 | mg/L | | 100 | LXA2 | 10/13/23 | 1023 | 2507800 | 1 |
| Chloride | | 2.72 | 0.134 | 0.400 | mg/L | | 2 | LXA2 | 10/14/23 | 0125 | 2507800 | 2 |
| Fluoride | | 0.292 | 0.0660 | 0.200 | mg/L | | 2 | | | | | |
| Mercury Analysis-CVAA | | | | | | | | | | | | |
| 7470 Cold Vapor Mercury, Liquid "As Received" | | | | | | | | | | | | |
| Mercury | U | ND | 0.0000670 | 0.000200 | mg/L | 1.00 | 1 | JP2 | 10/13/23 | 1219 | 2507487 | 3 |
| Metals Analysis-ICP-MS | | | | | | | | | | | | |
| SW846 3005A/6020B "As Received" | | | | | | | | | | | | |
| Boron | | 2.88 | 0.104 | 0.300 | mg/L | 1.00 | 20 | PRB | 10/15/23 | 2127 | 2507328 | 4 |
| Calcium | | 311 | 1.60 | 4.00 | mg/L | 1.00 | 20 | | | | | |
| Antimony | U | ND | 0.00100 | 0.00300 | mg/L | 1.00 | 1 | PRB | 10/14/23 | 1546 | 2507328 | 5 |
| Barium | | 0.0449 | 0.000670 | 0.00400 | mg/L | 1.00 | 1 | | | | | |
| Beryllium | U | ND | 0.000200 | 0.000500 | mg/L | 1.00 | 1 | | | | | |
| Cadmium | | 0.00125 | 0.000300 | 0.00100 | mg/L | 1.00 | 1 | | | | | |
| Chromium | U | ND | 0.00300 | 0.0100 | mg/L | 1.00 | 1 | | | | | |
| Cobalt | | 0.00118 | 0.000300 | 0.00100 | mg/L | 1.00 | 1 | | | | | |
| Lead | U | ND | 0.000500 | 0.00200 | mg/L | 1.00 | 1 | | | | | |
| Lithium | J | 0.00315 | 0.00300 | 0.0100 | mg/L | 1.00 | 1 | | | | | |
| Molybdenum | | 0.729 | 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 | | | | | |
| Arsenic | J | 0.00326 | 0.00200 | 0.00500 | mg/L | 1.00 | 1 | PRB | 10/15/23 | 1627 | 2507328 | 6 |
| Solids Analysis | | | | | | | | | | | | |
| SM2540C Dissolved Solids "As Received" | | | | | | | | | | | | |
| Total Dissolved Solids | | 1370 | 4.76 | 20.0 | mg/L | | | CH6 | 10/12/23 | 1423 | 2507357 | 7 |

The following Prep Methods were performed:

| Method | Description | Analyst | Date | Time | Prep Batch |
|------------------|-------------------------------|---------|----------|------|------------|
| SW846 7470A Prep | EPA 7470A Mercury Prep Liquid | EK1 | 10/12/23 | 1120 | 2507486 |
| SW846 3005A | ICP-MS 3005A PREP | SD | 10/12/23 | 1525 | 2507327 |

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Contact: Joju Abraham
Project: Arkwright CCR Groundwater ComplianceAPI

Client Sample ID: ARK-AP1PZ-8
Sample ID: 640869011

Project: GPCC00100
Client ID: GPCC001

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

Notes:

Column headers are defined as follows:

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

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: October 23, 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 ComplianceAP1

Client Sample ID: ARK-AP1PZ-5 Project: GPCC00100
Sample ID: 640869012 Client ID: GPCC001
Matrix: WG
Collect Date: 10-OCT-23 11:20
Receive Date: 11-OCT-23
Collector: Client

| Parameter | Qualifier | Result | DL | RL | Units | PF | DF | Analyst | Date | Time | Batch | Method |
|-----------------------------------------------|-----------|---------|-----------|----------|-------|------|-----|---------|----------|------|---------|--------|
| Ion Chromatography | | | | | | | | | | | | |
| EPA 300.0 Anions Liquid "As Received" | | | | | | | | | | | | |
| Sulfate | | 1970 | 26.6 | 80.0 | mg/L | | 200 | LXA2 | 10/13/23 | 1054 | 2507800 | 1 |
| Chloride | | 7.01 | 0.335 | 1.00 | mg/L | | 5 | LXA2 | 10/14/23 | 0156 | 2507800 | 2 |
| Fluoride | J | 0.409 | 0.165 | 0.500 | mg/L | | 5 | | | | | |
| Mercury Analysis-CVAA | | | | | | | | | | | | |
| 7470 Cold Vapor Mercury, Liquid "As Received" | | | | | | | | | | | | |
| Mercury | U | ND | 0.0000670 | 0.000200 | mg/L | 1.00 | 1 | JP2 | 10/13/23 | 1221 | 2507487 | 3 |
| Metals Analysis-ICP-MS | | | | | | | | | | | | |
| SW846 3005A/6020B "As Received" | | | | | | | | | | | | |
| Arsenic | J | 0.00493 | 0.00200 | 0.00500 | mg/L | 1.00 | 1 | PRB | 10/15/23 | 1629 | 2507328 | 4 |
| Boron | | 7.16 | 0.520 | 1.50 | mg/L | 1.00 | 100 | PRB | 10/15/23 | 2129 | 2507328 | 5 |
| Calcium | | 589 | 8.00 | 20.0 | mg/L | 1.00 | 100 | | | | | |
| Antimony | U | ND | 0.00100 | 0.00300 | mg/L | 1.00 | 1 | PRB | 10/14/23 | 1549 | 2507328 | 6 |
| Barium | | 0.0362 | 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 | | 0.0631 | 0.000300 | 0.00100 | mg/L | 1.00 | 1 | | | | | |
| Lead | U | ND | 0.000500 | 0.00200 | mg/L | 1.00 | 1 | | | | | |
| Lithium | | 0.343 | 0.00300 | 0.0100 | mg/L | 1.00 | 1 | | | | | |
| Molybdenum | | 0.0437 | 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 | | | | | |
| Solids Analysis | | | | | | | | | | | | |
| SM2540C Dissolved Solids "As Received" | | | | | | | | | | | | |
| Total Dissolved Solids | | 3080 | 23.8 | 100 | mg/L | | | CH6 | 10/12/23 | 1423 | 2507357 | 7 |

The following Prep Methods were performed:

| Method | Description | Analyst | Date | Time | Prep Batch |
|------------------|-------------------------------|---------|----------|------|------------|
| SW846 3005A | ICP-MS 3005A PREP | SD | 10/12/23 | 1525 | 2507327 |
| SW846 7470A Prep | EPA 7470A Mercury Prep Liquid | EK1 | 10/12/23 | 1120 | 2507486 |

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: October 23, 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 ComplianceAPI

Client Sample ID: ARK-AP1PZ-5
Sample ID: 640869012

Project: GPCC00100
Client ID: GPCC001

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

Notes:

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Lc/LC: Critical Level

PF: Prep Factor

RL: Reporting Limit

SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: October 23, 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 ComplianceAP1

Client Sample ID: ARK-AP1-EB-02 Project: GPCC00100
Sample ID: 640869013 Client ID: GPCC001
Matrix: WQ
Collect Date: 10-OCT-23 12:10
Receive Date: 11-OCT-23
Collector: Client

| Parameter | Qualifier | Result | DL | RL | Units | PF | DF | Analyst | Date | Time | Batch | Method |
|-----------------------------------------------|-----------|----------|-----------|----------|-------|------|----|---------|----------|------|---------|--------|
| Ion Chromatography | | | | | | | | | | | | |
| EPA 300.0 Anions Liquid "As Received" | | | | | | | | | | | | |
| Chloride | | 0.206 | 0.0670 | 0.200 | mg/L | | 1 | LXA2 | 10/13/23 | 1125 | 2507800 | 1 |
| Fluoride | U | ND | 0.0330 | 0.100 | mg/L | | 1 | | | | | |
| Sulfate | U | ND | 0.133 | 0.400 | mg/L | | 1 | | | | | |
| Mercury Analysis-CVAA | | | | | | | | | | | | |
| 7470 Cold Vapor Mercury, Liquid "As Received" | | | | | | | | | | | | |
| Mercury | U | ND | 0.0000670 | 0.000200 | mg/L | 1.00 | 1 | JP2 | 10/13/23 | 1223 | 2507487 | 2 |
| Metals Analysis-ICP-MS | | | | | | | | | | | | |
| SW846 3005A/6020B "As Received" | | | | | | | | | | | | |
| Antimony | U | ND | 0.00100 | 0.00300 | mg/L | 1.00 | 1 | PRB | 10/14/23 | 1553 | 2507328 | 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 | J | 0.115 | 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 | J | 0.000205 | 0.000200 | 0.00100 | mg/L | 1.00 | 1 | | | | | |
| Selenium | U | ND | 0.00150 | 0.00500 | mg/L | 1.00 | 1 | | | | | |
| Thallium | U | ND | 0.000600 | 0.00200 | mg/L | 1.00 | 1 | | | | | |
| Boron | U | ND | 0.00520 | 0.0150 | mg/L | 1.00 | 1 | PRB | 10/16/23 | 1048 | 2507328 | 4 |
| Arsenic | U | ND | 0.00200 | 0.00500 | mg/L | 1.00 | 1 | PRB | 10/15/23 | 1631 | 2507328 | 5 |
| Solids Analysis | | | | | | | | | | | | |
| SM2540C Dissolved Solids "As Received" | | | | | | | | | | | | |
| Total Dissolved Solids | U | ND | 2.38 | 10.0 | mg/L | | | CH6 | 10/12/23 | 1423 | 2507357 | 6 |

The following Prep Methods were performed:

| Method | Description | Analyst | Date | Time | Prep Batch |
|------------------|-------------------------------|---------|----------|------|------------|
| SW846 3005A | ICP-MS 3005A PREP | SD | 10/12/23 | 1525 | 2507327 |
| SW846 7470A Prep | EPA 7470A Mercury Prep Liquid | EK1 | 10/12/23 | 1120 | 2507486 |

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: October 23, 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 ComplianceAPI

| | |
|---------------------------------|--------------------|
| Client Sample ID: ARK-API-EB-02 | Project: GPCC00100 |
| Sample ID: 640869013 | Client ID: GPCC001 |

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

The following Analytical Methods were performed:

| Method | Description | Analyst | Comments |
|--------|-------------------|---------|----------|
| 1 | EPA 300.0 | | |
| 2 | SW846 7470A | | |
| 3 | SW846 3005A/6020B | | |
| 4 | SW846 3005A/6020B | | |
| 5 | SW846 3005A/6020B | | |
| 6 | SM 2540C | | |

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: October 23, 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 ComplianceAP1

| | |
|-------------------------------|--------------------|
| Client Sample ID: ARK-AP1PZ-7 | Project: GPCC00100 |
| Sample ID: 640869014 | Client ID: GPCC001 |
| Matrix: WG | |
| Collect Date: 10-OCT-23 13:50 | |
| Receive Date: 11-OCT-23 | |
| Collector: Client | |

| Parameter | Qualifier | Result | DL | RL | Units | PF | DF | Analyst | Date | Time | Batch | Method |
|------------------------------------------------------|-----------|---------|-----------|----------|-------|------|-----|---------|----------|------|---------|--------|
| Ion Chromatography | | | | | | | | | | | | |
| EPA 300.0 Anions Liquid "As Received" | | | | | | | | | | | | |
| Sulfate | | 1370 | 13.3 | 40.0 | mg/L | | 100 | LXA2 | 10/13/23 | 1156 | 2507800 | 1 |
| Chloride | | 6.29 | 0.335 | 1.00 | mg/L | | 5 | LXA2 | 10/14/23 | 0227 | 2507800 | 2 |
| Fluoride | J | 0.270 | 0.165 | 0.500 | mg/L | | 5 | | | | | |
| Mercury Analysis-CVAA | | | | | | | | | | | | |
| 7470 Cold Vapor Mercury, Liquid "As Received" | | | | | | | | | | | | |
| Mercury | U | ND | 0.0000670 | 0.000200 | mg/L | 1.00 | 1 | JP2 | 10/13/23 | 1224 | 2507487 | 3 |
| Metals Analysis-ICP-MS | | | | | | | | | | | | |
| SW846 3005A/6020B "As Received" | | | | | | | | | | | | |
| Arsenic | J | 0.00399 | 0.00200 | 0.00500 | mg/L | 1.00 | 1 | PRB | 10/15/23 | 1633 | 2507328 | 4 |
| Boron | | 2.76 | 0.104 | 0.300 | mg/L | 1.00 | 20 | PRB | 10/15/23 | 2131 | 2507328 | 5 |
| Calcium | | 383 | 1.60 | 4.00 | mg/L | 1.00 | 20 | | | | | |
| Antimony | U | ND | 0.00100 | 0.00300 | mg/L | 1.00 | 1 | PRB | 10/14/23 | 1556 | 2507328 | 6 |
| Barium | | 0.0421 | 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 | | 0.00123 | 0.000300 | 0.00100 | mg/L | 1.00 | 1 | | | | | |
| Lead | U | ND | 0.000500 | 0.00200 | mg/L | 1.00 | 1 | | | | | |
| Lithium | J | 0.00302 | 0.00300 | 0.0100 | mg/L | 1.00 | 1 | | | | | |
| Molybdenum | | 0.00367 | 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 | | | | | |

Solids Analysis

SM2540C Dissolved Solids "As Received"

| | | | | | | | | | | |
|------------------------|------|------|-----|------|--|-----|----------|------|---------|---|
| Total Dissolved Solids | 1960 | 23.8 | 100 | mg/L | | CH6 | 10/12/23 | 1423 | 2507357 | 7 |
|------------------------|------|------|-----|------|--|-----|----------|------|---------|---|

The following Prep Methods were performed:

| Method | Description | Analyst | Date | Time | Prep Batch |
|------------------|-------------------------------|---------|----------|------|------------|
| SW846 7470A Prep | EPA 7470A Mercury Prep Liquid | EK1 | 10/12/23 | 1120 | 2507486 |
| SW846 3005A | ICP-MS 3005A PREP | SD | 10/12/23 | 1525 | 2507327 |

GEL LABORATORIES LLC

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Certificate of Analysis

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

Client Sample ID: ARK-AP1PZ-7
Sample ID: 640869014

Project: GPCC00100
Client ID: GPCC001

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

Notes:

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Lc/LC: Critical Level

PF: Prep Factor

RL: Reporting Limit

SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: October 23, 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 ComplianceAP1

Client Sample ID: ARK-AP1PZ-10 Project: GPCC00100
Sample ID: 640869015 Client ID: GPCC001
Matrix: WG
Collect Date: 10-OCT-23 14:20
Receive Date: 11-OCT-23
Collector: Client

| Parameter | Qualifier | Result | DL | RL | Units | PF | DF | Analyst | Date | Time | Batch | Method |
|-----------------------------------------------|-----------|---------|-----------|----------|-------|------|----|---------|----------|------|---------|--------|
| Ion Chromatography | | | | | | | | | | | | |
| EPA 300.0 Anions Liquid "As Received" | | | | | | | | | | | | |
| Fluoride | | 0.647 | 0.0330 | 0.100 | mg/L | | 1 | LXA2 | 10/14/23 | 0257 | 2507800 | 1 |
| Chloride | | 10.9 | 1.34 | 4.00 | mg/L | | 20 | LXA2 | 10/13/23 | 1329 | 2507800 | 2 |
| Sulfate | | 231 | 2.66 | 8.00 | mg/L | | 20 | | | | | |
| Mercury Analysis-CVAA | | | | | | | | | | | | |
| 7470 Cold Vapor Mercury, Liquid "As Received" | | | | | | | | | | | | |
| Mercury | U | ND | 0.0000670 | 0.000200 | mg/L | 1.00 | 1 | JP2 | 10/13/23 | 1226 | 2507487 | 3 |
| Metals Analysis-ICP-MS | | | | | | | | | | | | |
| SW846 3005A/6020B "As Received" | | | | | | | | | | | | |
| Boron | | 0.357 | 0.0260 | 0.0750 | mg/L | 1.00 | 5 | PRB | 10/15/23 | 2133 | 2507328 | 4 |
| Calcium | | 90.4 | 0.400 | 1.00 | mg/L | 1.00 | 5 | | | | | |
| Antimony | U | ND | 0.00100 | 0.00300 | mg/L | 1.00 | 1 | PRB | 10/14/23 | 1600 | 2507328 | 5 |
| Barium | | 0.0347 | 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 | | 0.00140 | 0.000300 | 0.00100 | mg/L | 1.00 | 1 | | | | | |
| Lead | U | ND | 0.000500 | 0.00200 | mg/L | 1.00 | 1 | | | | | |
| Lithium | | 0.0189 | 0.00300 | 0.0100 | mg/L | 1.00 | 1 | | | | | |
| Molybdenum | | 0.00214 | 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 | | | | | |
| Arsenic | J | 0.00382 | 0.00200 | 0.00500 | mg/L | 1.00 | 1 | PRB | 10/15/23 | 1635 | 2507328 | 6 |
| Solids Analysis | | | | | | | | | | | | |
| SM2540C Dissolved Solids "As Received" | | | | | | | | | | | | |
| Total Dissolved Solids | | 499 | 2.38 | 10.0 | mg/L | | | CH6 | 10/13/23 | 1601 | 2508295 | 7 |

The following Prep Methods were performed:

| Method | Description | Analyst | Date | Time | Prep Batch |
|------------------|-------------------------------|---------|----------|------|------------|
| SW846 3005A | ICP-MS 3005A PREP | SD | 10/12/23 | 1525 | 2507327 |
| SW846 7470A Prep | EPA 7470A Mercury Prep Liquid | EK1 | 10/12/23 | 1120 | 2507486 |

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Certificate of Analysis

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Address : 241 Ralph McGill Blvd NE, Bin 10160

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

Client Sample ID: ARK-AP1PZ-10
Sample ID: 640869015

Project: GPCC00100
Client ID: GPCC001

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

Notes:

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Lc/LC: Critical Level

PF: Prep Factor

RL: Reporting Limit

SQL: Sample Quantitation Limit

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Company : Georgia Power Company, Southern Company
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Atlanta, Georgia 30308

Contact: Joju Abraham
Project: Arkwright CCR Groundwater ComplianceAP1

| | |
|--------------------------------|--------------------|
| Client Sample ID: ARK-AP1PZ-11 | Project: GPCC00100 |
| Sample ID: 640869016 | Client ID: GPCC001 |
| Matrix: WG | |
| Collect Date: 10-OCT-23 16:15 | |
| Receive Date: 11-OCT-23 | |
| Collector: Client | |

| Parameter | Qualifier | Result | DL | RL | Units | PF | DF | Analyst | Date | Time | Batch | Method |
|------------------------------------------------------|-----------|----------|-----------|----------|-------|------|----|---------|----------|------|---------|--------|
| Ion Chromatography | | | | | | | | | | | | |
| EPA 300.0 Anions Liquid "As Received" | | | | | | | | | | | | |
| Chloride | | 1.20 | 0.0670 | 0.200 | mg/L | | 1 | LXA2 | 10/14/23 | 0328 | 2507800 | 1 |
| Fluoride | | 0.202 | 0.0330 | 0.100 | mg/L | | 1 | | | | | |
| Sulfate | | 54.3 | 0.665 | 2.00 | mg/L | | 5 | LXA2 | 10/13/23 | 1359 | 2507800 | 2 |
| Mercury Analysis-CVAA | | | | | | | | | | | | |
| 7470 Cold Vapor Mercury, Liquid "As Received" | | | | | | | | | | | | |
| Mercury | U | ND | 0.0000670 | 0.000200 | mg/L | 1.00 | 1 | JP2 | 10/13/23 | 1227 | 2507487 | 3 |
| Metals Analysis-ICP-MS | | | | | | | | | | | | |
| SW846 3005A/6020B "As Received" | | | | | | | | | | | | |
| Boron | | 0.143 | 0.00520 | 0.0150 | mg/L | 1.00 | 1 | PRB | 10/16/23 | 1050 | 2507328 | 4 |
| Arsenic | J | 0.00303 | 0.00200 | 0.00500 | mg/L | 1.00 | 1 | PRB | 10/15/23 | 1708 | 2507328 | 5 |
| Antimony | U | ND | 0.00100 | 0.00300 | mg/L | 1.00 | 1 | PRB | 10/14/23 | 1604 | 2507328 | 6 |
| Barium | | 0.0234 | 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 | | 27.6 | 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 | J | 0.000342 | 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 | | | | | |
| Solids Analysis | | | | | | | | | | | | |
| SM2540C Dissolved Solids "As Received" | | | | | | | | | | | | |
| Total Dissolved Solids | | 198 | 2.38 | 10.0 | mg/L | | | CH6 | 10/13/23 | 1601 | 2508295 | 7 |

The following Prep Methods were performed:

| Method | Description | Analyst | Date | Time | Prep Batch |
|------------------|-------------------------------|---------|----------|------|------------|
| SW846 7470A Prep | EPA 7470A Mercury Prep Liquid | EK1 | 10/12/23 | 1120 | 2507486 |
| SW846 3005A | ICP-MS 3005A PREP | SD | 10/12/23 | 1525 | 2507327 |

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: October 23, 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 ComplianceAPI

Client Sample ID: ARK-AP1PZ-11
Sample ID: 640869016

Project: GPCC00100
Client ID: GPCC001

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

Notes:

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Lc/LC: Critical Level

PF: Prep Factor

RL: Reporting Limit

SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 23, 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 ComplianceAP1

| | |
|---------------------------------|--------------------|
| Client Sample ID: ARK-AP1-FD-02 | Project: GPCC00100 |
| Sample ID: 640869017 | Client ID: GPCC001 |
| Matrix: WG | |
| Collect Date: 10-OCT-23 00:00 | |
| Receive Date: 11-OCT-23 | |
| Collector: Client | |

| Parameter | Qualifier | Result | DL | RL | Units | PF | DF | Analyst | Date | Time | Batch | Method |
|------------------------------------------------------|-----------|----------|----------|----------|-------|------|-----|---------|----------|------|---------|--------|
| Ion Chromatography | | | | | | | | | | | | |
| EPA 300.0 Anions Liquid "As Received" | | | | | | | | | | | | |
| Sulfate | | 80.1 | 26.6 | 80.0 | mg/L | | 200 | LXA2 | 10/13/23 | 1430 | 2507800 | 1 |
| Chloride | | 1.21 | 0.0670 | 0.200 | mg/L | | 1 | LXA2 | 10/14/23 | 0359 | 2507800 | 2 |
| Fluoride | | 0.297 | 0.0330 | 0.100 | mg/L | | 1 | | | | | |
| Mercury Analysis-CVAA | | | | | | | | | | | | |
| 7470 Cold Vapor Mercury, Liquid "As Received" | | | | | | | | | | | | |
| Mercury | U | ND | 0.000670 | 0.000200 | mg/L | 1.00 | 1 | JP2 | 10/13/23 | 1233 | 2507487 | 3 |
| Metals Analysis-ICP-MS | | | | | | | | | | | | |
| SW846 3005A/6020B "As Received" | | | | | | | | | | | | |
| Arsenic | J | 0.00319 | 0.00200 | 0.00500 | mg/L | 1.00 | 1 | PRB | 10/15/23 | 1710 | 2507328 | 4 |
| Boron | | 0.146 | 0.00520 | 0.0150 | mg/L | 1.00 | 1 | PRB | 10/16/23 | 1052 | 2507328 | 5 |
| Antimony | U | ND | 0.00100 | 0.00300 | mg/L | 1.00 | 1 | PRB | 10/14/23 | 1607 | 2507328 | 6 |
| Barium | | 0.0242 | 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 | | 28.0 | 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 | J | 0.000326 | 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 | | | | | |
| Solids Analysis | | | | | | | | | | | | |
| SM2540C Dissolved Solids "As Received" | | | | | | | | | | | | |
| Total Dissolved Solids | | 197 | 2.38 | 10.0 | mg/L | | | CH6 | 10/13/23 | 1601 | 2508295 | 7 |

The following Prep Methods were performed:

| Method | Description | Analyst | Date | Time | Prep Batch |
|------------------|-------------------------------|---------|----------|------|------------|
| SW846 3005A | ICP-MS 3005A PREP | SD | 10/12/23 | 1525 | 2507327 |
| SW846 7470A Prep | EPA 7470A Mercury Prep Liquid | EK1 | 10/12/23 | 1120 | 2507486 |

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Certificate of Analysis

Report Date: October 23, 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 ComplianceAPI

Client Sample ID: ARK-API-FD-02
Sample ID: 640869017

Project: GPCC00100
Client ID: GPCC001

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

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: October 23, 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 ComplianceAP1

| | |
|-------------------------------|--------------------|
| Client Sample ID: ARK-AP1PZ-9 | Project: GPCC00100 |
| Sample ID: 640869018 | Client ID: GPCC001 |
| Matrix: WG | |
| Collect Date: 11-OCT-23 08:20 | |
| Receive Date: 11-OCT-23 | |
| Collector: Client | |

| Parameter | Qualifier | Result | DL | RL | Units | PF | DF | Analyst | Date | Time | Batch | Method |
|------------------------------------------------------|-----------|----------|-----------|----------|-------|------|----|---------|----------|------|---------|--------|
| Ion Chromatography | | | | | | | | | | | | |
| EPA 300.0 Anions Liquid "As Received" | | | | | | | | | | | | |
| Fluoride | | 0.964 | 0.0330 | 0.100 | mg/L | | 1 | LXA2 | 10/14/23 | 0430 | 2507800 | 1 |
| Chloride | | 8.68 | 2.68 | 8.00 | mg/L | | 40 | LXA2 | 10/13/23 | 1501 | 2507800 | 2 |
| Sulfate | | 308 | 5.32 | 16.0 | mg/L | | 40 | | | | | |
| Mercury Analysis-CVAA | | | | | | | | | | | | |
| 7470 Cold Vapor Mercury, Liquid "As Received" | | | | | | | | | | | | |
| Mercury | U | ND | 0.0000670 | 0.000200 | mg/L | 1.00 | 1 | JP2 | 10/13/23 | 1234 | 2507487 | 3 |
| Metals Analysis-ICP-MS | | | | | | | | | | | | |
| SW846 3005A/6020B "As Received" | | | | | | | | | | | | |
| Boron | | 0.707 | 0.0260 | 0.0750 | mg/L | 1.00 | 5 | PRB | 10/15/23 | 2135 | 2507328 | 4 |
| Calcium | | 72.3 | 0.400 | 1.00 | mg/L | 1.00 | 5 | | | | | |
| Antimony | U | ND | 0.00100 | 0.00300 | mg/L | 1.00 | 1 | PRB | 10/14/23 | 1611 | 2507328 | 5 |
| Barium | | 0.0252 | 0.000670 | 0.00400 | mg/L | 1.00 | 1 | | | | | |
| Beryllium | | 0.000523 | 0.000200 | 0.000500 | mg/L | 1.00 | 1 | | | | | |
| Cadmium | | 0.00112 | 0.000300 | 0.00100 | mg/L | 1.00 | 1 | | | | | |
| Chromium | U | ND | 0.00300 | 0.0100 | mg/L | 1.00 | 1 | | | | | |
| Cobalt | | 0.100 | 0.000300 | 0.00100 | mg/L | 1.00 | 1 | | | | | |
| Lead | U | ND | 0.000500 | 0.00200 | mg/L | 1.00 | 1 | | | | | |
| Lithium | | 0.145 | 0.00300 | 0.0100 | mg/L | 1.00 | 1 | | | | | |
| Molybdenum | J | 0.000323 | 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 | | | | | |
| Arsenic | J | 0.00224 | 0.00200 | 0.00500 | mg/L | 1.00 | 1 | PRB | 10/15/23 | 1641 | 2507328 | 6 |
| Solids Analysis | | | | | | | | | | | | |
| SM2540C Dissolved Solids "As Received" | | | | | | | | | | | | |
| Total Dissolved Solids | | 527 | 2.38 | 10.0 | mg/L | | | CH6 | 10/13/23 | 1601 | 2508295 | 7 |

The following Prep Methods were performed:

| Method | Description | Analyst | Date | Time | Prep Batch |
|------------------|-------------------------------|---------|----------|------|------------|
| SW846 7470A Prep | EPA 7470A Mercury Prep Liquid | EK1 | 10/12/23 | 1120 | 2507486 |
| SW846 3005A | ICP-MS 3005A PREP | SD | 10/12/23 | 1525 | 2507327 |

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Certificate of Analysis

Report Date: October 23, 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 ComplianceAPI

Client Sample ID: ARK-AP1PZ-9
Sample ID: 640869018

Project: GPCC00100
Client ID: GPCC001

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

Notes:

Column headers are defined as follows:

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

GEL LABORATORIES LLC

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

QC Summary

Report Date: October 23, 2023

Page 1 of 9

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

Contact: Joju Abraham

Workorder: 640869

| Parmname | NOM | Sample | Qual | QC | Units | RPD% | REC% | Range | Anlst | Date | Time |
|---------------------------|-----------|--------|------|-------|-------|-------|------|-----------------|-------|----------|-------|
| Ion Chromatography | | | | | | | | | | | |
| Batch | 2507800 | | | | | | | | | | |
| QC1205545078 | 640869001 | DUP | | | | | | | | | |
| Chloride | | 1.77 | | 1.83 | mg/L | 2.97 | ^ | (+/-1.00) | LXA2 | 10/13/23 | 02:40 |
| Fluoride | | 0.426 | | 0.479 | mg/L | 11.6 | ^ | (+/-0.100) | | 10/13/23 | 20:47 |
| Sulfate | | 58.3 | | 59.2 | mg/L | 1.5 | | (0%-20%) | | 10/13/23 | 02:40 |
| QC1205545079 | 640869003 | DUP | | | | | | | | | |
| Chloride | | 1.81 | | 1.80 | mg/L | 0.636 | | (0%-20%) | | 10/13/23 | 04:44 |
| Fluoride | | 0.225 | | 0.229 | mg/L | 1.94 | ^ | (+/-0.100) | | | |
| Sulfate | | 2.17 | | 2.15 | mg/L | 0.767 | | (0%-20%) | | | |
| QC1205545077 | LCS | | | | | | | | | | |
| Chloride | 5.00 | | | 4.58 | mg/L | | | 91.6 (90%-110%) | | 10/13/23 | 01:39 |
| Fluoride | 2.50 | | | 2.39 | mg/L | | | 95.6 (90%-110%) | | | |
| Sulfate | 10.0 | | | 9.46 | mg/L | | | 94.6 (90%-110%) | | | |
| QC1205545076 | MB | | | | | | | | | | |
| Chloride | | | U | ND | mg/L | | | | | 10/13/23 | 01:08 |
| Fluoride | | | U | ND | mg/L | | | | | | |
| Sulfate | | | U | ND | mg/L | | | | | | |
| QC1205545080 | 640869001 | PS | | | | | | | | | |
| Chloride | 5.00 | 0.355 | | 5.05 | mg/L | | | 93.8 (90%-110%) | | 10/13/23 | 03:11 |

GEL LABORATORIES LLC

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

QC Summary

Workorder: 640869

Page 2 of 9

| Parmname | NOM | Sample | Qual | QC | Units | RPD% | REC% | Range | Anlst | Date | Time |
|--------------------------------|--------------|--------|------|--------|-------|------|------|------------|-------|----------|-------|
| Ion Chromatography | | | | | | | | | | | |
| Batch | 2507800 | | | | | | | | | | |
| Fluoride | 2.50 | 0.426 | | 2.82 | mg/L | | 95.5 | (90%-110%) | LXA2 | 10/13/23 | 21:18 |
| Sulfate | 10.0 | 11.7 | | 22.3 | mg/L | | 106 | (90%-110%) | | 10/13/23 | 03:11 |
| QC1205545081 | 640869003 PS | | | | | | | | | | |
| Chloride | 5.00 | 1.81 | | 6.87 | mg/L | | 101 | (90%-110%) | | 10/13/23 | 05:15 |
| Fluoride | 2.50 | 0.225 | | 2.68 | mg/L | | 98.1 | (90%-110%) | | | |
| Sulfate | 10.0 | 2.17 | | 12.1 | mg/L | | 99.2 | (90%-110%) | | | |
| Metals Analysis - ICPMS | | | | | | | | | | | |
| Batch | 2507328 | | | | | | | | | | |
| QC1205544129 | LCS | | | | | | | | | | |
| Antimony | 0.0500 | | | 0.0484 | mg/L | | 96.8 | (80%-120%) | PRB | 10/14/23 | 14:37 |
| Arsenic | 0.0500 | | | 0.0510 | mg/L | | 102 | (80%-120%) | | 10/15/23 | 15:48 |
| Barium | 0.0500 | | | 0.0560 | mg/L | | 112 | (80%-120%) | | 10/14/23 | 14:37 |
| Beryllium | 0.0500 | | | 0.0518 | mg/L | | 104 | (80%-120%) | | | |
| Boron | 0.100 | | | 0.104 | mg/L | | 104 | (80%-120%) | | 10/16/23 | 10:26 |
| Cadmium | 0.0500 | | | 0.0507 | mg/L | | 101 | (80%-120%) | | 10/14/23 | 14:37 |
| Calcium | 2.00 | | | 2.08 | mg/L | | 104 | (80%-120%) | | | |
| Chromium | 0.0500 | | | 0.0480 | mg/L | | 96.1 | (80%-120%) | | | |
| Cobalt | 0.0500 | | | 0.0479 | mg/L | | 95.8 | (80%-120%) | | | |

GEL LABORATORIES LLC

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QC Summary

Workorder: 640869

Page 3 of 9

| Parmname | NOM | Sample | Qual | QC | Units | RPD% | REC% | Range | Anlst | Date | Time |
|--------------------------------|---------|--------|------|--------|-------|------|------|------------|-------|----------|-------|
| Metals Analysis - ICPMS | | | | | | | | | | | |
| Batch | 2507328 | | | | | | | | | | |
| Lead | 0.0500 | | | 0.0485 | mg/L | | 97 | (80%-120%) | PRB | 10/14/23 | 14:37 |
| Lithium | 0.0500 | | | 0.0496 | mg/L | | 99.2 | (80%-120%) | | | |
| Molybdenum | 0.0500 | | | 0.0521 | mg/L | | 104 | (80%-120%) | | | |
| Selenium | 0.0500 | | | 0.0520 | mg/L | | 104 | (80%-120%) | | | |
| Thallium | 0.0500 | | | 0.0474 | mg/L | | 94.9 | (80%-120%) | | | |
| QC1205544128 MB | | | | | | | | | | | |
| Antimony | | | U | ND | mg/L | | | | | 10/14/23 | 14:34 |
| Arsenic | | | U | ND | mg/L | | | | | 10/15/23 | 15:46 |
| Barium | | | U | ND | mg/L | | | | | 10/14/23 | 14:34 |
| Beryllium | | | U | ND | mg/L | | | | | | |
| Boron | | | U | ND | mg/L | | | | | 10/16/23 | 10:24 |
| Cadmium | | | U | ND | mg/L | | | | | 10/14/23 | 14:34 |
| Calcium | | | U | ND | mg/L | | | | | | |
| Chromium | | | U | ND | mg/L | | | | | | |
| Cobalt | | | U | ND | mg/L | | | | | | |
| Lead | | | U | ND | mg/L | | | | | | |

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QC Summary

Workorder: 640869

Page 4 of 9

| Parname | NOM | Sample | Qual | QC | Units | RPD% | REC% | Range | Anlst | Date | Time |
|--------------------------------|--------------|--------|----------|--------|-------|------|------|------------|-------|----------|-------|
| Metals Analysis - ICPMS | | | | | | | | | | | |
| Batch | 2507328 | | | | | | | | | | |
| Lithium | | | U | ND | mg/L | | | | PRB | 10/14/23 | 14:34 |
| Molybdenum | | | U | ND | mg/L | | | | | | |
| Selenium | | | U | ND | mg/L | | | | | | |
| Thallium | | | U | ND | mg/L | | | | | | |
| QC1205544130 | 640869001 MS | | | | | | | | | | |
| Antimony | 0.0500 | U | ND | 0.0497 | mg/L | | 99.4 | (75%-125%) | | 10/14/23 | 14:44 |
| Arsenic | 0.0500 | J | 0.00219 | 0.0530 | mg/L | | 102 | (75%-125%) | | 10/15/23 | 15:52 |
| Barium | 0.0500 | | 0.0609 | 0.115 | mg/L | | 108 | (75%-125%) | | 10/14/23 | 14:44 |
| Beryllium | 0.0500 | | 0.00187 | 0.0544 | mg/L | | 105 | (75%-125%) | | | |
| Boron | 0.100 | | 0.108 | 0.216 | mg/L | | 107 | (75%-125%) | | 10/16/23 | 10:29 |
| Cadmium | 0.0500 | J | 0.000410 | 0.0516 | mg/L | | 102 | (75%-125%) | | 10/14/23 | 14:44 |
| Calcium | 2.00 | | 19.3 | 21.0 | mg/L | | N/A | (75%-125%) | | | |
| Chromium | 0.0500 | J | 0.00462 | 0.0539 | mg/L | | 98.5 | (75%-125%) | | | |
| Cobalt | 0.0500 | | 0.00672 | 0.0558 | mg/L | | 98.2 | (75%-125%) | | | |
| Lead | 0.0500 | U | ND | 0.0494 | mg/L | | 98.7 | (75%-125%) | | | |
| Lithium | 0.0500 | J | 0.00944 | 0.0604 | mg/L | | 102 | (75%-125%) | | | |

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QC Summary

Workorder: 640869

Page 5 of 9

| Parname | NOM | Sample | Qual | QC | Units | RPD% | REC% | Range | Anlst | Date | Time |
|--------------------------------|---------|--------|----------|--------|-------|-------|------|------------|-------|----------|-------|
| Metals Analysis - ICPMS | | | | | | | | | | | |
| Batch | 2507328 | | | | | | | | | | |
| Molybdenum | 0.0500 | U | ND | 0.0530 | mg/L | | 106 | (75%-125%) | PRB | 10/14/23 | 14:44 |
| Selenium | 0.0500 | J | 0.00299 | 0.0538 | mg/L | | 102 | (75%-125%) | | | |
| Thallium | 0.0500 | U | ND | 0.0479 | mg/L | | 95.8 | (75%-125%) | | | |
| QC1205544131 640869001 MSD | | | | | | | | | | | |
| Antimony | 0.0500 | U | ND | 0.0508 | mg/L | 2.07 | 101 | (0%-20%) | | 10/14/23 | 14:48 |
| Arsenic | 0.0500 | J | 0.00219 | 0.0528 | mg/L | 0.334 | 101 | (0%-20%) | | 10/15/23 | 15:54 |
| Barium | 0.0500 | | 0.0609 | 0.117 | mg/L | 1.29 | 111 | (0%-20%) | | 10/14/23 | 14:48 |
| Beryllium | 0.0500 | | 0.00187 | 0.0556 | mg/L | 2.12 | 107 | (0%-20%) | | | |
| Boron | 0.100 | | 0.108 | 0.214 | mg/L | 0.707 | 106 | (0%-20%) | | 10/16/23 | 10:31 |
| Cadmium | 0.0500 | J | 0.000410 | 0.0528 | mg/L | 2.47 | 105 | (0%-20%) | | 10/14/23 | 14:48 |
| Calcium | 2.00 | | 19.3 | 21.1 | mg/L | 0.633 | N/A | (0%-20%) | | | |
| Chromium | 0.0500 | J | 0.00462 | 0.0543 | mg/L | 0.793 | 99.3 | (0%-20%) | | | |
| Cobalt | 0.0500 | | 0.00672 | 0.0559 | mg/L | 0.181 | 98.4 | (0%-20%) | | | |
| Lead | 0.0500 | U | ND | 0.0493 | mg/L | 0.306 | 98.4 | (0%-20%) | | | |
| Lithium | 0.0500 | J | 0.00944 | 0.0606 | mg/L | 0.261 | 102 | (0%-20%) | | | |
| Molybdenum | 0.0500 | U | ND | 0.0544 | mg/L | 2.52 | 109 | (0%-20%) | | | |

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QC Summary

Workorder: 640869

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| Parname | NOM | Sample | Qual | QC | Units | RPD% | REC% | Range | Anlst | Date | Time |
|--------------------------------|-----------------|--------|---------|--------|-------|---------|------|----------|-------|----------|-------|
| Metals Analysis - ICPMS | | | | | | | | | | | |
| Batch | 2507328 | | | | | | | | | | |
| Selenium | 0.0500 | J | 0.00299 | 0.0538 | mg/L | 0.00558 | 102 | (0%-20%) | PRB | 10/14/23 | 14:48 |
| Thallium | 0.0500 | U | ND | 0.0480 | mg/L | 0.142 | 96 | (0%-20%) | | | |
| QC1205544132 | 640869001 SDILT | | | | | | | | | | |
| Antimony | | U | ND | U | ND | ug/L | N/A | (0%-20%) | | 10/14/23 | 14:55 |
| Arsenic | | J | 2.19 | U | ND | ug/L | N/A | (0%-20%) | | 10/15/23 | 15:58 |
| Barium | | | 60.9 | | 12.1 | ug/L | .317 | (0%-20%) | | 10/14/23 | 14:55 |
| Beryllium | | | 1.87 | J | 0.369 | ug/L | 1.18 | (0%-20%) | | | |
| Boron | | | 108 | | 22.8 | ug/L | 5.38 | (0%-20%) | | 10/16/23 | 10:35 |
| Cadmium | | J | 0.410 | U | ND | ug/L | N/A | (0%-20%) | | 10/14/23 | 14:55 |
| Calcium | | | 19300 | | 4020 | ug/L | 4.06 | (0%-20%) | | | |
| Chromium | | J | 4.62 | U | ND | ug/L | N/A | (0%-20%) | | | |
| Cobalt | | | 6.72 | | 1.44 | ug/L | 6.95 | (0%-20%) | | | |
| Lead | | U | ND | U | ND | ug/L | N/A | (0%-20%) | | | |
| Lithium | | J | 9.44 | U | ND | ug/L | N/A | (0%-20%) | | | |
| Molybdenum | | U | ND | U | ND | ug/L | N/A | (0%-20%) | | | |
| Selenium | | J | 2.99 | U | ND | ug/L | N/A | (0%-20%) | | | |

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QC Summary

Workorder: **640869**

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| Parmname | NOM | Sample | Qual | QC | Units | RPD% | REC% | Range | Anlst | Date | Time |
|--------------------------------|-----------|--------|------|---------|-------|------|-------|------------|-------|----------|-------|
| Metals Analysis - ICPMS | | | | | | | | | | | |
| Batch | 2507328 | | | | | | | | | | |
| Thallium | U | ND | U | ND | ug/L | N/A | | (0%-20%) | PRB | 10/14/23 | 14:55 |
| Metals Analysis-Mercury | | | | | | | | | | | |
| Batch | 2507487 | | | | | | | | | | |
| QC1205544431 | 640813001 | DUP | | | | | | | | | |
| Mercury | U | ND | U | ND | mg/L | N/A | | | JP2 | 10/13/23 | 11:53 |
| QC1205544430 | LCS | | | | | | | | | | |
| Mercury | 0.00200 | | | 0.00198 | mg/L | | 99.2 | (80%-120%) | | 10/13/23 | 11:47 |
| QC1205544429 | MB | | | | | | | | | | |
| Mercury | | | U | ND | mg/L | | | | | 10/13/23 | 11:45 |
| QC1205544432 | 640813001 | MS | | | | | | | | | |
| Mercury | 0.00200 | U | ND | 0.00134 | mg/L | | 67.1* | (75%-125%) | | 10/13/23 | 11:55 |
| QC1205544434 | 640813001 | PS | | | | | | | | | |
| Mercury | 2.00 | U | ND | 1.38 | ug/L | | 68.8* | (80%-120%) | | 10/13/23 | 11:58 |
| QC1205544433 | 640813001 | SDILT | | | | | | | | | |
| Mercury | U | ND | U | ND | ug/L | N/A | | (0%-10%) | | 10/13/23 | 11:56 |
| Solids Analysis | | | | | | | | | | | |
| Batch | 2507350 | | | | | | | | | | |
| QC1205544191 | 640698013 | DUP | | | | | | | | | |
| Total Dissolved Solids | U | ND | U | ND | mg/L | N/A | | | CH6 | 10/12/23 | 13:23 |
| QC1205544190 | LCS | | | | | | | | | | |
| Total Dissolved Solids | 300 | | | 303 | mg/L | | 101 | (95%-105%) | | 10/12/23 | 13:23 |
| QC1205544189 | MB | | | | | | | | | | |
| Total Dissolved Solids | | | U | ND | mg/L | | | | | 10/12/23 | 13:23 |

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QC Summary

Workorder: **640869**

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| Parmname | NOM | Sample | Qual | QC | Units | RPD% | REC% | Range | Anlst | Date | Time |
|------------------------|-----------|--------|------|-----|-------|------|------|------------|-------|----------|-------|
| Solids Analysis | | | | | | | | | | | |
| Batch | 2507357 | | | | | | | | | | |
| QC1205544196 | 640683001 | DUP | | | | | | | | | |
| Total Dissolved Solids | | 235 | | 228 | mg/L | 3.02 | | (0%-5%) | CH6 | 10/12/23 | 14:23 |
| QC1205544195 | LCS | | | | | | | | | | |
| Total Dissolved Solids | 300 | | | 302 | mg/L | | 101 | (95%-105%) | | 10/12/23 | 14:23 |
| QC1205544194 | MB | | | | | | | | | | |
| Total Dissolved Solids | | | U | ND | mg/L | | | | | 10/12/23 | 14:23 |
| Batch | 2508295 | | | | | | | | | | |
| QC1205545882 | 641034002 | DUP | | | | | | | | | |
| Total Dissolved Solids | | 395 | | 386 | mg/L | 2.3 | | (0%-5%) | CH6 | 10/13/23 | 16:01 |
| QC1205545878 | LCS | | | | | | | | | | |
| Total Dissolved Solids | 300 | | | 302 | mg/L | | 101 | (95%-105%) | | 10/13/23 | 16:01 |
| QC1205545877 | MB | | | | | | | | | | |
| Total Dissolved Solids | | | U | ND | mg/L | | | | | 10/13/23 | 16:01 |

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.

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QC Summary

Workorder: 640869

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

**Technical Case Narrative
Georgia Power Company
SDG #: 640869**

Metals

Product: Determination of Metals by ICP-MS

Analytical Method: SW846 3005A/6020B

Analytical Procedure: GL-MA-E-014 REV# 36

Analytical Batch: 2507328

Preparation Method: SW846 3005A

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

Preparation Batch: 2507327

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

| <u>GEL Sample ID#</u> | <u>Client Sample Identification</u> |
|------------------------------|--------------------------------------------------------|
| 640869001 | ARK-APIGWA-1 |
| 640869002 | ARK-API-FB-01 |
| 640869003 | ARK-APIGWA-2 |
| 640869004 | ARK-API-EB-01 |
| 640869005 | ARK-APIPZ-1 |
| 640869006 | ARK-APIPZ-2 |
| 640869007 | ARK-API-FD-01 |
| 640869008 | ARK-APIPZ-4 |
| 640869009 | ARK-API-FB-02 |
| 640869010 | ARK-APIPZ-3 |
| 640869011 | ARK-APIPZ-8 |
| 640869012 | ARK-APIPZ-5 |
| 640869013 | ARK-API-EB-02 |
| 640869014 | ARK-APIPZ-7 |
| 640869015 | ARK-APIPZ-10 |
| 640869016 | ARK-APIPZ-11 |
| 640869017 | ARK-API-FD-02 |
| 640869018 | ARK-APIPZ-9 |
| 1205544128 | Method Blank (MB) ICP-MS |
| 1205544129 | Laboratory Control Sample (LCS) |
| 1205544132 | 640869001(ARK-APIGWA-1L) Serial Dilution (SD) |
| 1205544130 | 640869001(ARK-APIGWA-1S) Matrix Spike (MS) |
| 1205544131 | 640869001(ARK-APIGWA-1SD) 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 greater than two times the CRDL; therefore the data were not adversely affected. 640869006 (ARK-AP1PZ-2), 640869007 (ARK-AP1-FD-01), 640869008 (ARK-AP1PZ-4), 640869010 (ARK-AP1PZ-3), 640869011 (ARK-AP1PZ-8), 640869012 (ARK-AP1PZ-5), 640869014 (ARK-AP1PZ-7), 640869015 (ARK-AP1PZ-10) and 640869018 (ARK-AP1PZ-9).

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 640869005 (ARK-AP1PZ-1), 640869006 (ARK-AP1PZ-2), 640869007 (ARK-AP1-FD-01), 640869008 (ARK-AP1PZ-4), 640869010 (ARK-AP1PZ-3), 640869011 (ARK-AP1PZ-8), 640869012 (ARK-AP1PZ-5), 640869014 (ARK-AP1PZ-7), 640869015 (ARK-AP1PZ-10) and 640869018 (ARK-AP1PZ-9) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument. The ICPMS solid samples in this SDG were diluted the standard two times.

| Analyte | 640869 | | | | | | | | | |
|---------|--------|-----|-----|-----|-----|-----|------|-----|-----|-----|
| | 005 | 006 | 007 | 008 | 010 | 011 | 012 | 014 | 015 | 018 |
| Boron | 5X | 5X | 5X | 25X | 20X | 20X | 100X | 20X | 5X | 5X |
| Calcium | 1X | 5X | 5X | 25X | 20X | 20X | 100X | 20X | 5X | 5X |

Product: Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer

Analytical Method: SW846 7470A

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

Analytical Batch: 2507487

Preparation Method: SW846 7470A Prep

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

Preparation Batch: 2507486

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

| <u>GEL Sample ID#</u> | <u>Client Sample Identification</u> |
|------------------------------|--------------------------------------------|
| 640869001 | ARK-AP1GWA-1 |
| 640869002 | ARK-AP1-FB-01 |
| 640869003 | ARK-AP1GWA-2 |
| 640869004 | ARK-AP1-EB-01 |
| 640869005 | ARK-AP1PZ-1 |
| 640869006 | ARK-AP1PZ-2 |
| 640869007 | ARK-AP1-FD-01 |
| 640869008 | ARK-AP1PZ-4 |
| 640869009 | ARK-AP1-FB-02 |
| 640869010 | ARK-AP1PZ-3 |
| 640869011 | ARK-AP1PZ-8 |
| 640869012 | ARK-AP1PZ-5 |
| 640869013 | ARK-AP1-EB-02 |

| | |
|------------|-------------------------------------------|
| 640869014 | ARK-APIPZ-7 |
| 640869015 | ARK-APIPZ-10 |
| 640869016 | ARK-APIPZ-11 |
| 640869017 | ARK-API-FD-02 |
| 640869018 | ARK-APIPZ-9 |
| 1205544429 | Method Blank (MB)CVAA |
| 1205544430 | Laboratory Control Sample (LCS) |
| 1205544433 | 640813001(NonSDGL) Serial Dilution (SD) |
| 1205544431 | 640813001(NonSDGD) Sample Duplicate (DUP) |
| 1205544432 | 640813001(NonSDGS) Matrix Spike (MS) |
| 1205544434 | 640813001(NonSDGPS) Post Spike (PS) |

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

Data Summary:

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

Quality Control (QC) Information

Matrix Spike (MS/MSD) Recovery Statement

The percent recoveries (%R) obtained from the MS/MSD analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The MS/MSD (See Below) did not meet the recommended quality control acceptance criteria for percent recoveries for the following applicable analyte. The post spike also did not meet the required control limits; thus, confirming matrix interferences and/or sample non-homogeneity.

| Sample | Analyte | Value |
|----------------------------------|---------|------------------|
| 1205544432 (Non SDG 640813001MS) | Mercury | 67.1* (75%-125%) |

Post Spike (PS) Recovery Statement

The percent recoveries (%R) obtained from the PS analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The PS did not meet the recommended quality control acceptance criteria for percent recoveries for all applicable analytes and verifies the presence of matrix interferences.

| Sample | Analyte | Value |
|----------------------------------|---------|------------------|
| 1205544434 (Non SDG 640813001PS) | Mercury | 68.8* (80%-120%) |

General Chemistry

Product: Ion Chromatography

Analytical Method: EPA 300.0

Analytical Procedure: GL-GC-E-086 REV# 33

Analytical Batch: 2507800

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

| <u>GEL Sample ID#</u> | <u>Client Sample Identification</u> |
|-----------------------|------------------------------------------------|
| 640869001 | ARK-AP1GWA-1 |
| 640869002 | ARK-AP1-FB-01 |
| 640869003 | ARK-AP1GWA-2 |
| 640869004 | ARK-AP1-EB-01 |
| 640869005 | ARK-AP1PZ-1 |
| 640869006 | ARK-AP1PZ-2 |
| 640869007 | ARK-AP1-FD-01 |
| 640869008 | ARK-AP1PZ-4 |
| 640869009 | ARK-AP1-FB-02 |
| 640869010 | ARK-AP1PZ-3 |
| 640869011 | ARK-AP1PZ-8 |
| 640869012 | ARK-AP1PZ-5 |
| 640869013 | ARK-AP1-EB-02 |
| 640869014 | ARK-AP1PZ-7 |
| 640869015 | ARK-AP1PZ-10 |
| 640869016 | ARK-AP1PZ-11 |
| 640869017 | ARK-AP1-FD-02 |
| 640869018 | ARK-AP1PZ-9 |
| 1205545076 | Method Blank (MB) |
| 1205545077 | Laboratory Control Sample (LCS) |
| 1205545078 | 640869001(ARK-AP1GWA-1) Sample Duplicate (DUP) |
| 1205545079 | 640869003(ARK-AP1GWA-2) Sample Duplicate (DUP) |
| 1205545080 | 640869001(ARK-AP1GWA-1) Post Spike (PS) |
| 1205545081 | 640869003(ARK-AP1GWA-2) 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 1205545078 (ARK-AP1GWA-1DUP), 1205545080 (ARK-AP1GWA-1PS), 640869001 (ARK-AP1GWA-1), 640869005 (ARK-AP1PZ-1), 640869006 (ARK-AP1PZ-2), 640869007 (ARK-AP1-FD-01), 640869008 (ARK-AP1PZ-4), 640869010 (ARK-AP1PZ-3), 640869011 (ARK-AP1PZ-8), 640869012 (ARK-AP1PZ-5), 640869014 (ARK-AP1PZ-7), 640869015 (ARK-AP1PZ-10), 640869016 (ARK-AP1PZ-11), 640869017 (ARK-AP1-FD-02) and 640869018 (ARK-AP1PZ-9) were diluted because target analyte concentrations exceeded the calibration range. Samples 1205545078 (ARK-AP1GWA-1DUP), 1205545080 (ARK-AP1GWA-1PS), 640869001 (ARK-AP1GWA-1), 640869005 (ARK-AP1PZ-1), 640869006 (ARK-AP1PZ-2), 640869007 (ARK-AP1-FD-01), 640869008 (ARK-AP1PZ-4), 640869010 (ARK-AP1PZ-3), 640869011 (ARK-AP1PZ-8), 640869012 (ARK-AP1PZ-5), 640869014 (ARK-AP1PZ-7), 640869015 (ARK-AP1PZ-10), 640869016 (ARK-AP1PZ-11), 640869017 (ARK-AP1-FD-02) and 640869018 (ARK-AP1PZ-9) were 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 | 640869 | | | | | | | | | | |
|---------|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| | 001 | 005 | 006 | 007 | 008 | 010 | 011 | 012 | 014 | 015 | |
| | | | | | | | | | | | |

| | | | | | | | | | | |
|----------|----|-----|-----|------|------|------|------|------|------|-----|
| Chloride | 5X | 10X | 2X | 2X | 5X | 5X | 2X | 5X | 5X | 20X |
| Fluoride | 1X | 1X | 2X | 2X | 5X | 5X | 2X | 5X | 5X | 1X |
| Sulfate | 5X | 10X | 50X | 100X | 200X | 100X | 100X | 200X | 100X | 20X |

| | | | |
|----------|---------------|------------|------------|
| Analyte | 640869 | | |
| | 016 | 017 | 018 |
| Chloride | 1X | 1X | 40X |
| Sulfate | 5X | 200X | 40X |

Miscellaneous Information

Manual Integrations

Sample 640869004 (ARK-API-EB-01) was manually integrated to correctly position the baseline as set in the calibration standards.

Product: Solids, Total Dissolved

Analytical Method: SM 2540C

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

Analytical Batch: 2507350

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

| <u>GEL Sample ID#</u> | <u>Client Sample Identification</u> |
|------------------------------|--------------------------------------------|
| 640869001 | ARK-APIGWA-1 |
| 640869002 | ARK-API-FB-01 |
| 640869003 | ARK-APIGWA-2 |
| 1205544189 | Method Blank (MB) |
| 1205544190 | Laboratory Control Sample (LCS) |
| 1205544191 | 640698013(NonSDG) Sample Duplicate (DUP) |

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

Data Summary:

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

Product: Solids, Total Dissolved

Analytical Method: SM 2540C

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

Analytical Batch: 2507357

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

| <u>GEL Sample ID#</u> | <u>Client Sample Identification</u> |
|------------------------------|--------------------------------------------|
| 640869004 | ARK-API-EB-01 |
| 640869005 | ARK-APIPZ-1 |

| | |
|------------|------------------------------------------|
| 640869006 | ARK-APIPZ-2 |
| 640869007 | ARK-API-FD-01 |
| 640869008 | ARK-APIPZ-4 |
| 640869009 | ARK-API-FB-02 |
| 640869010 | ARK-APIPZ-3 |
| 640869011 | ARK-APIPZ-8 |
| 640869012 | ARK-APIPZ-5 |
| 640869013 | ARK-API-EB-02 |
| 640869014 | ARK-APIPZ-7 |
| 1205544194 | Method Blank (MB) |
| 1205544195 | Laboratory Control Sample (LCS) |
| 1205544196 | 640683001(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 TDS meter was used to check the samples for interference prior to analysis. 640869006 (ARK-APIPZ-2), 640869007 (ARK-API-FD-01), 640869008 (ARK-APIPZ-4), 640869010 (ARK-APIPZ-3), 640869011 (ARK-APIPZ-8), 640869012 (ARK-APIPZ-5) and 640869014 (ARK-APIPZ-7).

Product: Solids, Total Dissolved

Analytical Method: SM 2540C

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

Analytical Batch: 2508295

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

| <u>GEL Sample ID#</u> | <u>Client Sample Identification</u> |
|------------------------------|--------------------------------------------|
| 640869015 | ARK-APIPZ-10 |
| 640869016 | ARK-APIPZ-11 |
| 640869017 | ARK-API-FD-02 |
| 640869018 | ARK-APIPZ-9 |
| 1205545877 | Method Blank (MB) |
| 1205545878 | Laboratory Control Sample (LCS) |
| 1205545882 | 641034002(NonSDG) Sample Duplicate (DUP) |

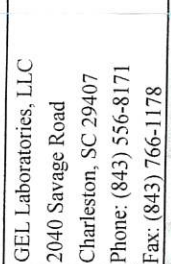
The samples in this SDG were analyzed on an "as received" basis.

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.

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.



Chemistry | Radiochemistry | Radioassay | Specialty Analytics
Chain of Custody and Analytical Request
 GEL Work Order Number: GEL Project Manager: Erin Trent

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

Sample Analysis Requested (6) (Fill in the number of containers for each test)

Project/Site Name: Plant Arkwright Ash Pond 1
 Address: 241 Ralph McGill Blvd SE, Atlanta, GA 30308
 Contacted By: John Myer; Dylan Quintal
 Send Results To: jabraham@southernco.com EDD@stantec.com
 Cassidy.Sutherland@stantec.com

Phone # (937-344-6533) Fax:

| Sample ID | *Date Collected (mm-dd-yy) | *Time Collected (Military) (hhmm) | QC Code (2) | Field Filtered (3) | Sample Matrix (4) | Should this sample be considered: | | Total number of containers | Sample Analysis Requested (6) | | | | | | Comments | | |
|---------------|----------------------------|-----------------------------------|-------------|--------------------|-------------------|----------------------------------------------------|-------------------------------|----------------------------|-------------------------------|-------------------------|-----------------------------------------------|-----------------------------------------------|------------------------|------------------|----------|-----------------|--------------------------------------|
| | | | | | | Radioactive (if yes, please supply isotopic info.) | (7) Known or possible Hazards | | Ag (App. I) (6020B) | Metals App. III (6020B) | Alkalinity (300.0 R2.1) TDS (SM Method 2540C) | Anions (Cl, F, Sulfate) (300.0 Rev. 2.1 1993) | Metals App. IV (6020B) | RAD 226-228 Cmbd | | Mercury (7470B) | Metals Al, K, Mg, Na, Fe, Mn (6020B) |
| ARK-APIPZ-8 | 10-10-23 | 1155 | N | N | WG | | | 6 | X | X | X | X | X | | | | |
| ARK-APIPZ-5 | 10-10-23 | 1120 | N | N | WG | | | 6 | X | X | X | X | X | | | | |
| ARK-API-EB-02 | 10-10-23 | 1210 | EB | N | WQ | | | 6 | X | X | X | X | X | | | | |
| ARK-APIPZ-7 | 10-10-23 | 1350 | N | N | WG | | | 6 | X | X | X | X | X | | | | |
| ARK-APIPZ-10 | 10-10-23 | 1420 | N | N | WG | | | 6 | X | X | X | X | X | | | | |
| ARK-APIPZ-11 | 10-10-23 | 1615 | N | N | WG | | | 6 | X | X | X | X | X | | | | |
| ARK-API-FD-02 | 10-10-23 | NA | FD | N | WQ | | | 6 | X | X | X | X | X | | | | |
| ARK-APIPZ-9 | 10-11-23 | 0820 | N | N | WG | | | 6 | X | X | X | X | X | | | | |

Chain of Custody Signatures

Relinquished By (Signed) Print Name Date Received by (signed) Print Name Date

1 *John Myer* John Myer 10/11/23 *John Myer* John Myer 10/11/23
 2 *[Signature]* [Name] [Date] *[Signature]* [Name] [Date]
 3 *[Signature]* [Name] [Date] *[Signature]* [Name] [Date]

TAT Requested: Normal: X No Rush: Specify: (Subject to Surcharge)

Fax Results: Yes No

Select Deliverable: C of A QC Summary Level 1 Level 2 Level 3 Level 4

Additional Remarks:

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

Sample Collection Time Zone: Eastern Pacific Central Mountain Other:

Chain of Custody Number = Client Determined

1.) 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

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

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

4.) 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).

5.) 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

6.) **KNOWN OR POSSIBLE HAZARDS**

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

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

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

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

TSCA Regulated
 PCB = Polychlorinated biphenyls

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.)

SAMPLE RECEIPT & REVIEW FORM

640870
640869

ET

| Client: <u>G P C C</u> | | SDG/AR/COC/Work Order: | | | |
|------------------------------------------------------------------------|--------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Received By: <u>QG</u> | | Date Received: <u>10/11/23</u> | | | |
| Carrier and Tracking Number | | Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier <u>Other</u> | | | |
| Suspected Hazard Information | | *If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation. | | | |
| A) Shipped as a DOT Hazardous? | | Hazard Class Shipped: _____ UN#: _____ If UN2910, Is the Radioactive Shipment Survey Compliant? Yes ___ No ___ | | | |
| B) Did the client designate the samples to be received as radioactive? | | COC notation or radioactive stickers on containers equal client designation. | | | |
| C) Did the RSO classify the samples as radioactive? | | Maximum Net Counts Observed* (Observed Counts - Area Background Counts): <u>0</u> CPM/mR/Hr Classified as: Rad 1 Rad 2 Rad 3 | | | |
| D) Did the client designate samples are hazardous? | | COC notation or hazard labels on containers equal client designation. | | | |
| E) Did the RSO identify possible hazards? | | If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other: _____ | | | |
| Sample Receipt Criteria | | Yes | NA | No | Comments/Qualifiers (Required for Non-Conforming Items) |
| 1 | Shipping containers received intact and sealed? | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | Circle Applicable: Seals broken Damaged container Leaking container Other (describe) |
| 2 | Chain of custody documents included with shipment? | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | Circle Applicable: Client contacted and provided COC COC created upon receipt |
| 3 | Samples requiring cold preservation within (0 ≤ 6 deg. C)?* | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | Preservation Method: <u>WGL Ice</u> Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: <u>2°C</u> |
| 4 | Daily check performed and passed on IR temperature gun? | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | Temperature Device Serial #: <u>IR1-23</u> Secondary Temperature Device Serial # (If Applicable): _____ |
| 5 | Sample containers intact and sealed? | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | Circle Applicable: Seals broken Damaged container Leaking container Other (describe) |
| 6 | Samples requiring chemical preservation at proper pH? | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | Sample ID's and Containers Affected: _____ |
| 7 | Do any samples require Volatile Analysis? | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | If Preservation added, Lot#: _____ 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? | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | ID's and tests affected: _____ |
| 9 | Sample ID's on COC match ID's on bottles? | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | ID's and containers affected: _____ |
| 10 | Date & time on COC match date & time on bottles? | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 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? | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | Circle Applicable: No container count on COC Other (describe) |
| 12 | Are sample containers identifiable as GEL provided by use of GEL labels? | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 13 | COC form is properly signed in relinquished/received sections? | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | Circle Applicable: Not relinquished Other (describe) |
| Comments (Use Continuation Form if needed): | | | | | |
| | | | | | |

PM (or PMA) review: Initials AT Date 10/12/23 Page 1 of 1

List of current GEL Certifications as of 23 October 2023

| State | Certification |
|---------------------------|------------------------------|
| Alabama | 42200 |
| Alaska | 17-018 |
| Alaska Drinking Water | SC00012 |
| Arkansas | 88-00651 |
| CLIA | 42D0904046 |
| California | 2940 |
| Colorado | SC00012 |
| Connecticut | PH-0169 |
| DoD ELAP/ ISO17025 A2LA | 2567.01 |
| Florida NELAP | E87156 |
| Foreign Soils Permit | P330-15-00283, P330-15-00253 |
| Georgia | SC00012 |
| Georgia SDWA | 967 |
| Hawaii | SC00012 |
| Idaho | SC00012 |
| Illinois NELAP | 200029 |
| Indiana | C-SC-01 |
| Kansas NELAP | E-10332 |
| Kentucky SDWA | KY90129 |
| Kentucky Wastewater | KY90129 |
| Louisiana Drinking Water | LA024 |
| Louisiana NELAP | 03046 (AI33904) |
| Maine | 2023019 |
| Maryland | 270 |
| Massachusetts | M-SC012 |
| Massachusetts PFAS Approv | Letter |
| Michigan | 9976 |
| Mississippi | SC00012 |
| Nebraska | NE-OS-26-13 |
| Nevada | SC000122024-04 |
| 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 | T104704235-23-21 |
| Utah NELAP | SC000122022-37 |
| Vermont | VT87156 |
| Virginia NELAP | 460202 |
| Washington | C780 |



June 30, 2023

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

Re: Arkwright CCR Groundwater Compliance AP1
Work Order: 625986

Dear Joju Abraham:

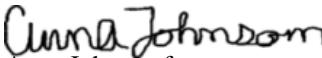
GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on June 14, 2023. This revised data report has been prepared and reviewed in accordance with GEL's standard operating procedures. Georgia Power EQUIS Database Manager requested for the correction of the sample IDs by removing the dates. These updates ensure the sample nomenclature is consistent on final PDF & EDD and successful upload to database.

The sample was delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt.

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.

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



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: 625986 GEL Work Order: 625986

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



GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: June 30, 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 ComplianceAP1

Client Sample ID: ARK-AP1PZ-6 Project: GPCC00100
Sample ID: 625986001 Client ID: GPCC001
Matrix: WG
Collect Date: 13-JUN-23 15:52
Receive Date: 14-JUN-23
Collector: Client

| Parameter | Qualifier | Result | DL | RL | Units | PF | DF | Analyst | Date | Time | Batch | Method |
|-----------------------------------------------|-----------|---------|-----------|----------|-------|------|-----|---------|----------|------|---------|--------|
| Field Data | | | | | | | | | | | | |
| Client collected Field pH "As Received" | | | | | | | | | | | | |
| Field pH | | 5.33 | | | SU | | | EOS1 | 06/13/23 | 1552 | 2443847 | 1 |
| Ion Chromatography | | | | | | | | | | | | |
| EPA 300.0 Anions Liquid "As Received" | | | | | | | | | | | | |
| Chloride | | 7.77 | 0.335 | 1.00 | mg/L | | 5 | JLD1 | 06/14/23 | 2231 | 2444191 | 2 |
| Fluoride | U | ND | 0.165 | 0.500 | mg/L | | 5 | | | | | |
| Sulfate | | 2480 | 26.6 | 80.0 | mg/L | | 200 | JLD1 | 06/15/23 | 1330 | 2444191 | 3 |
| Mercury Analysis-CVAA | | | | | | | | | | | | |
| 7470 Cold Vapor Mercury, Liquid "As Received" | | | | | | | | | | | | |
| Mercury | U | ND | 0.0000670 | 0.000200 | mg/L | 1.00 | 1 | JP2 | 06/16/23 | 1039 | 2444300 | 4 |
| Metals Analysis-ICP-MS | | | | | | | | | | | | |
| SW846 3005A/6020B "As Received" | | | | | | | | | | | | |
| Boron | | 6.95 | 0.520 | 1.50 | mg/L | 1.00 | 100 | PRB | 06/17/23 | 2127 | 2443846 | 5 |
| Calcium | | 460 | 8.00 | 20.0 | mg/L | 1.00 | 100 | | | | | |
| Antimony | U | ND | 0.00100 | 0.00300 | mg/L | 1.00 | 1 | PRB | 06/17/23 | 1936 | 2443846 | 6 |
| Arsenic | J | 0.00324 | 0.00200 | 0.00500 | mg/L | 1.00 | 1 | | | | | |
| Barium | | 0.0228 | 0.000670 | 0.00400 | mg/L | 1.00 | 1 | | | | | |
| Beryllium | | 0.00172 | 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 | | 0.415 | 0.000300 | 0.00100 | mg/L | 1.00 | 1 | | | | | |
| Lead | U | ND | 0.000500 | 0.00200 | mg/L | 1.00 | 1 | | | | | |
| Lithium | J | 0.00923 | 0.00300 | 0.0100 | mg/L | 1.00 | 1 | | | | | |
| Molybdenum | U | ND | 0.000200 | 0.00100 | mg/L | 1.00 | 1 | | | | | |
| Selenium | J | 0.00251 | 0.00150 | 0.00500 | mg/L | 1.00 | 1 | | | | | |
| Thallium | U | ND | 0.000600 | 0.00200 | mg/L | 1.00 | 1 | | | | | |
| Solids Analysis | | | | | | | | | | | | |
| SM2540C Dissolved Solids "As Received" | | | | | | | | | | | | |
| Total Dissolved Solids | | 3340 | 23.8 | 100 | mg/L | | | CH6 | 06/15/23 | 1400 | 2444265 | 7 |

The following Prep Methods were performed:

| Method | Description | Analyst | Date | Time | Prep Batch |
|------------------|-------------------------------|---------|----------|------|------------|
| SW846 3005A | ICP-MS 3005A PREP | JD2 | 06/15/23 | 0720 | 2443845 |
| SW846 7470A Prep | EPA 7470A Mercury Prep Liquid | EK1 | 06/15/23 | 1250 | 2444297 |

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: June 30, 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 ComplianceAPI

Client Sample ID: ARK-AP1PZ-6
Sample ID: 625986001

Project: GPCC00100
Client ID: GPCC001

| Parameter | Qualifier | Result | DL | RL | Units | PF | DF | Analyst | Date | Time | Batch | Method |
|--------------------------------------------------|-----------------------------------|--------|------------------|----|-------|----|----|---------|------|------|-------|--------|
| The following Analytical Methods were performed: | | | | | | | | | | | | |
| Method | Description | | Analyst Comments | | | | | | | | | |
| 1 | SM 4500-H B/SW846 9040C, SM 2550B | | | | | | | | | | | |
| 2 | EPA 300.0 | | | | | | | | | | | |
| 3 | EPA 300.0 | | | | | | | | | | | |
| 4 | SW846 7470A | | | | | | | | | | | |
| 5 | SW846 3005A/6020B | | | | | | | | | | | |
| 6 | SW846 3005A/6020B | | | | | | | | | | | |
| 7 | SM 2540C | | | | | | | | | | | |

Notes:

Column headers are defined as follows:

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

GEL LABORATORIES LLC

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

QC Summary

Report Date: June 30, 2023

Page 1 of 8

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

Contact: Joju Abraham

Workorder: 625986

| Parmname | NOM | Sample | Qual | QC | Units | RPD% | REC% | Range | Anlst | Date | Time |
|---------------------------|-----------|----------|------|--------|-------|------|------|-----------------|-------|----------|-------|
| Ion Chromatography | | | | | | | | | | | |
| Batch | 2444191 | | | | | | | | | | |
| QC1205433470 | 625884001 | DUP | | | | | | | | | |
| Chloride | | 2.67 | | 2.70 | mg/L | 1.22 | | (0%-20%) | JLD1 | 06/15/23 | 03:18 |
| Fluoride | J | 0.0909 | J | 0.0803 | mg/L | 12.4 | ^ | (+/-0.100) | | | |
| Sulfate | | 88.1 | | 89.8 | mg/L | 1.91 | | (0%-20%) | | 06/15/23 | 07:01 |
| QC1205433469 | LCS | | | | | | | | | | |
| Chloride | 5.00 | | | 4.85 | mg/L | | | 97.1 (90%-110%) | | 06/15/23 | 02:46 |
| Fluoride | 2.50 | | | 2.49 | mg/L | | | 99.5 (90%-110%) | | | |
| Sulfate | 10.0 | | | 9.93 | mg/L | | | 99.3 (90%-110%) | | | |
| QC1205433468 | MB | | | | | | | | | | |
| Chloride | | | U | ND | mg/L | | | | | 06/15/23 | 02:15 |
| Fluoride | | | U | ND | mg/L | | | | | | |
| Sulfate | | | U | ND | mg/L | | | | | | |
| QC1205433471 | 625884001 | PS | | | | | | | | | |
| Chloride | 5.00 | 2.67 | | 7.39 | mg/L | | | 94.4 (90%-110%) | | 06/15/23 | 03:50 |
| Fluoride | 2.50 | J 0.0909 | | 2.38 | mg/L | | | 91.8 (90%-110%) | | | |
| Sulfate | 10.0 | 8.81 | | 18.9 | mg/L | | | 101 (90%-110%) | | 06/15/23 | 07:33 |

GEL LABORATORIES LLC

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

QC Summary

Workorder: 625986

Page 2 of 8

| Parmname | NOM | Sample | Qual | QC | Units | RPD% | REC% | Range | Anlst | Date | Time |
|--------------------------------|---------|--------|------|--------|-------|------|------|------------|-------|----------|-------|
| Metals Analysis - ICPMS | | | | | | | | | | | |
| Batch | 2443846 | | | | | | | | | | |
| QC1205432938 | LCS | | | | | | | | | | |
| Antimony | 0.0500 | | | 0.0478 | mg/L | | 95.7 | (80%-120%) | PRB | 06/17/23 | 19:33 |
| Arsenic | 0.0500 | | | 0.0486 | mg/L | | 97.1 | (80%-120%) | | | |
| Barium | 0.0500 | | | 0.0496 | mg/L | | 99.3 | (80%-120%) | | | |
| Beryllium | 0.0500 | | | 0.0581 | mg/L | | 116 | (80%-120%) | | | |
| Boron | 0.100 | | | 0.0984 | mg/L | | 98.4 | (80%-120%) | | 06/17/23 | 21:23 |
| Cadmium | 0.0500 | | | 0.0495 | mg/L | | 98.9 | (80%-120%) | | 06/17/23 | 19:33 |
| Calcium | 2.00 | | | 2.00 | mg/L | | 99.8 | (80%-120%) | | 06/17/23 | 21:23 |
| Chromium | 0.0500 | | | 0.0478 | mg/L | | 95.7 | (80%-120%) | | 06/17/23 | 19:33 |
| Cobalt | 0.0500 | | | 0.0492 | mg/L | | 98.4 | (80%-120%) | | | |
| Lead | 0.0500 | | | 0.0489 | mg/L | | 97.8 | (80%-120%) | | | |
| Lithium | 0.0500 | | | 0.0533 | mg/L | | 107 | (80%-120%) | | | |
| Molybdenum | 0.0500 | | | 0.0493 | mg/L | | 98.6 | (80%-120%) | | | |
| Selenium | 0.0500 | | | 0.0472 | mg/L | | 94.4 | (80%-120%) | | | |
| Thallium | 0.0500 | | | 0.0469 | mg/L | | 93.7 | (80%-120%) | | | |
| QC1205432937 | MB | | | | | | | | | | |
| Antimony | | | U | ND | mg/L | | | | | 06/17/23 | 19:29 |

GEL LABORATORIES LLC

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

QC Summary

Workorder: 625986

Page 3 of 8

| Parmname | NOM | Sample | Qual | QC | Units | RPD% | REC% | Range | Anlst | Date | Time |
|--------------------------------|---------|--------|---------|--------|-------|------|------|------------|-------|----------|-------|
| Metals Analysis - ICPMS | | | | | | | | | | | |
| Batch | 2443846 | | | | | | | | | | |
| Arsenic | | | U | ND | mg/L | | | | PRB | 06/17/23 | 19:29 |
| Barium | | | U | ND | mg/L | | | | | | |
| Beryllium | | | U | ND | mg/L | | | | | | |
| Boron | | | U | ND | mg/L | | | | | 06/17/23 | 21:20 |
| Cadmium | | | U | ND | mg/L | | | | | 06/17/23 | 19:29 |
| Calcium | | | U | ND | mg/L | | | | | 06/17/23 | 21:20 |
| Chromium | | | U | ND | mg/L | | | | | 06/17/23 | 19:29 |
| Cobalt | | | U | ND | mg/L | | | | | | |
| Lead | | | U | ND | mg/L | | | | | | |
| Lithium | | | U | ND | mg/L | | | | | | |
| Molybdenum | | | U | ND | mg/L | | | | | | |
| Selenium | | | U | ND | mg/L | | | | | | |
| Thallium | | | U | ND | mg/L | | | | | | |
| QC1205432939 625986001 MS | | | | | | | | | | | |
| Antimony | 0.0500 | U | ND | 0.0503 | mg/L | | 100 | (75%-125%) | | 06/17/23 | 19:40 |
| Arsenic | 0.0500 | J | 0.00324 | 0.0553 | mg/L | | 104 | (75%-125%) | | | |

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QC Summary

Workorder: 625986

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| Parmname | NOM | Sample | Qual | QC | Units | RPD% | REC% | Range | Anlst | Date | Time |
|--------------------------------|---------------|---------|---------|--------|-------|-------|------|------------|-------|----------|-------|
| Metals Analysis - ICPMS | | | | | | | | | | | |
| Batch | 2443846 | | | | | | | | | | |
| Barium | 0.0500 | 0.0228 | | 0.0707 | mg/L | | 95.8 | (75%-125%) | PRB | 06/17/23 | 19:40 |
| Beryllium | 0.0500 | 0.00172 | | 0.0628 | mg/L | | 122 | (75%-125%) | | | |
| Boron | 0.100 | 6.95 | | 7.09 | mg/L | | N/A | (75%-125%) | | 06/17/23 | 21:31 |
| Cadmium | 0.0500 | U | ND | 0.0505 | mg/L | | 101 | (75%-125%) | | 06/17/23 | 19:40 |
| Calcium | 2.00 | 460 | | 483 | mg/L | | N/A | (75%-125%) | | 06/17/23 | 21:31 |
| Chromium | 0.0500 | U | ND | 0.0488 | mg/L | | 97 | (75%-125%) | | 06/17/23 | 19:40 |
| Cobalt | 0.0500 | 0.415 | | 0.466 | mg/L | | N/A | (75%-125%) | | | |
| Lead | 0.0500 | U | ND | 0.0479 | mg/L | | 95.7 | (75%-125%) | | | |
| Lithium | 0.0500 | J | 0.00923 | 0.0675 | mg/L | | 116 | (75%-125%) | | | |
| Molybdenum | 0.0500 | U | ND | 0.0543 | mg/L | | 108 | (75%-125%) | | | |
| Selenium | 0.0500 | J | 0.00251 | 0.0607 | mg/L | | 116 | (75%-125%) | | | |
| Thallium | 0.0500 | U | ND | 0.0471 | mg/L | | 94.1 | (75%-125%) | | | |
| QC1205432940 | 625986001 MSD | | | | | | | | | | |
| Antimony | 0.0500 | U | ND | 0.0511 | mg/L | 1.61 | 102 | (0%-20%) | | 06/17/23 | 19:43 |
| Arsenic | 0.0500 | J | 0.00324 | 0.0559 | mg/L | 0.988 | 105 | (0%-20%) | | | |
| Barium | 0.0500 | 0.0228 | | 0.0702 | mg/L | 0.749 | 94.7 | (0%-20%) | | | |

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QC Summary

Workorder: 625986

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| Parmname | NOM | Sample | Qual | QC | Units | RPD% | REC% | Range | Anlst | Date | Time |
|--------------------------------|---------|---------|---------|--------|-------|-------|------|----------|-------|----------|-------|
| Metals Analysis - ICPMS | | | | | | | | | | | |
| Batch | 2443846 | | | | | | | | | | |
| Beryllium | 0.0500 | 0.00172 | | 0.0627 | mg/L | 0.132 | 122 | (0%-20%) | PRB | 06/17/23 | 19:43 |
| Boron | 0.100 | 6.95 | | 6.62 | mg/L | 6.82 | N/A | (0%-20%) | | 06/17/23 | 21:34 |
| Cadmium | 0.0500 | U | ND | 0.0501 | mg/L | 0.774 | 100 | (0%-20%) | | 06/17/23 | 19:43 |
| Calcium | 2.00 | 460 | | 455 | mg/L | 6.05 | N/A | (0%-20%) | | 06/17/23 | 21:34 |
| Chromium | 0.0500 | U | ND | 0.0485 | mg/L | 0.516 | 96.5 | (0%-20%) | | 06/17/23 | 19:43 |
| Cobalt | 0.0500 | 0.415 | | 0.460 | mg/L | 1.25 | N/A | (0%-20%) | | | |
| Lead | 0.0500 | U | ND | 0.0473 | mg/L | 1.25 | 94.5 | (0%-20%) | | | |
| Lithium | 0.0500 | J | 0.00923 | 0.0668 | mg/L | 1.04 | 115 | (0%-20%) | | | |
| Molybdenum | 0.0500 | U | ND | 0.0535 | mg/L | 1.46 | 107 | (0%-20%) | | | |
| Selenium | 0.0500 | J | 0.00251 | 0.0596 | mg/L | 1.75 | 114 | (0%-20%) | | | |
| Thallium | 0.0500 | U | ND | 0.0461 | mg/L | 2.07 | 92.2 | (0%-20%) | | | |
| QC1205432941 625986001 SDILT | | | | | | | | | | | |
| Antimony | | U | ND | U | ND | ug/L | N/A | (0%-20%) | | 06/17/23 | 19:51 |
| Arsenic | | J | 3.24 | U | ND | ug/L | N/A | (0%-20%) | | | |
| Barium | | | 22.8 | | 4.32 | ug/L | 5.44 | (0%-20%) | | | |
| Beryllium | | | 1.72 | J | 0.296 | ug/L | 13.9 | (0%-20%) | | | |

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QC Summary

Workorder: 625986

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| Parmname | NOM | Sample | Qual | QC | Units | RPD% | REC% | Range | Anlst | Date | Time |
|--------------------------------|-----------|---------|------|---------|-------|------|------|------------|-------|----------|-------|
| Metals Analysis - ICPMS | | | | | | | | | | | |
| Batch | 2443846 | | | | | | | | | | |
| Boron | | 69.5 | J | 10.7 | ug/L | 22.8 | | (0%-20%) | PRB | 06/17/23 | 21:38 |
| Cadmium | U | ND | U | ND | ug/L | N/A | | (0%-20%) | | 06/17/23 | 19:51 |
| Calcium | | 4600 | | 950 | ug/L | 3.2 | | (0%-20%) | | 06/17/23 | 21:38 |
| Chromium | U | ND | U | ND | ug/L | N/A | | (0%-20%) | | 06/17/23 | 19:51 |
| Cobalt | | 415 | | 84.0 | ug/L | 1.19 | | (0%-20%) | | | |
| Lead | U | ND | U | ND | ug/L | N/A | | (0%-20%) | | | |
| Lithium | J | 9.23 | U | ND | ug/L | N/A | | (0%-20%) | | | |
| Molybdenum | U | ND | U | ND | ug/L | N/A | | (0%-20%) | | | |
| Selenium | J | 2.51 | U | ND | ug/L | N/A | | (0%-20%) | | | |
| Thallium | U | ND | U | ND | ug/L | N/A | | (0%-20%) | | | |
| Metals Analysis-Mercury | | | | | | | | | | | |
| Batch | 2444300 | | | | | | | | | | |
| QC1205433645 | 625831006 | DUP | | | | | | | | | |
| Mercury | U | ND | U | ND | mg/L | N/A | | | JP2 | 06/16/23 | 10:06 |
| QC1205433644 | LCS | | | | | | | | | | |
| Mercury | | 0.00200 | | 0.00210 | mg/L | | 105 | (80%-120%) | | 06/16/23 | 09:48 |
| QC1205433643 | MB | | | | | | | | | | |
| Mercury | | | U | ND | mg/L | | | | | 06/16/23 | 09:46 |

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QC Summary

Workorder: 625986

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| Parmname | NOM | Sample | Qual | QC | Units | RPD% | REC% | Range | Anlst | Date | Time |
|--------------------------------|-----------|--------|------|---------|-------|------|------|------------|-------|----------|-------|
| Metals Analysis-Mercury | | | | | | | | | | | |
| Batch | 2444300 | | | | | | | | | | |
| QC1205433646 | 625831006 | MS | | | | | | | | | |
| Mercury | 0.00200 | U | ND | 0.00183 | mg/L | | 89.3 | (75%-125%) | JP2 | 06/16/23 | 10:08 |
| QC1205433647 | 625831006 | SDILT | | | | | | | | | |
| Mercury | | U | ND | U | ND | ug/L | N/A | (0%-10%) | | 06/16/23 | 10:09 |
| Solids Analysis | | | | | | | | | | | |
| Batch | 2444265 | | | | | | | | | | |
| QC1205433571 | 625877002 | DUP | | | | | | | | | |
| Total Dissolved Solids | | U | ND | U | ND | mg/L | N/A | | CH6 | 06/15/23 | 14:00 |
| QC1205433567 | LCS | | | | | | | | | | |
| Total Dissolved Solids | 300 | | | | 302 | mg/L | 101 | (95%-105%) | | 06/15/23 | 14:00 |
| QC1205433566 | MB | | | | | | | | | | |
| Total Dissolved Solids | | | U | | ND | mg/L | | | | 06/15/23 | 14:00 |

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

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QC Summary

Workorder: 625986

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| Parmname | NOM | Sample | Qual | QC | Units | RPD% | REC% | Range | Anlst | Date | Time |
|----------|-----|--------|------|----|-------|------|------|-------|-------|------|------|
| NJ | | | | | | | | | | | |
| E | | | | | | | | | | | |
| Q | | | | | | | | | | | |
| FB | | | | | | | | | | | |
| N1 | | | | | | | | | | | |
| Y | | | | | | | | | | | |
| R | | | | | | | | | | | |
| B | | | | | | | | | | | |
| e | | | | | | | | | | | |
| J | | | | | | | | | | | |

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

* Indicates that a Quality Control parameter was not within specifications.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

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

**Technical Case Narrative
Georgia Power Company
SDG #: 625986**

Metals

Product: Determination of Metals by ICP-MS

Analytical Method: SW846 3005A/6020B

Analytical Procedure: GL-MA-E-014 REV# 35

Analytical Batch: 2443846

Preparation Method: SW846 3005A

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

Preparation Batch: 2443845

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

| <u>GEL Sample ID#</u> | <u>Client Sample Identification</u> |
|------------------------------|-------------------------------------------------------|
| 625986001 | ARK-APIPZ-6 |
| 1205432937 | Method Blank (MB)ICP-MS |
| 1205432938 | Laboratory Control Sample (LCS) |
| 1205432941 | 625986001(ARK-APIPZ-6L) Serial Dilution (SD) |
| 1205432939 | 625986001(ARK-APIPZ-6S) Matrix Spike (MS) |
| 1205432940 | 625986001(ARK-APIPZ-6SD) 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 were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument.

| | |
|---------|---------------|
| Analyte | 625986 |
| | 001 |
| Boron | 100X |
| Calcium | 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: 2444300

Preparation Method: SW846 7470A Prep

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

Preparation Batch: 2444297

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

| <u>GEL Sample ID#</u> | <u>Client Sample Identification</u> |
|------------------------------|--------------------------------------------|
| 625986001 | ARK-AP1PZ-6 |
| 1205433643 | Method Blank (MB)CVAA |
| 1205433644 | Laboratory Control Sample (LCS) |
| 1205433647 | 625831006(NonSDGL) Serial Dilution (SD) |
| 1205433645 | 625831006(NonSDGD) Sample Duplicate (DUP) |
| 1205433646 | 625831006(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# 31

Analytical Batch: 2444191

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

| <u>GEL Sample ID#</u> | <u>Client Sample Identification</u> |
|------------------------------|--------------------------------------------|
| 625986001 | ARK-AP1PZ-6 |
| 1205433468 | Method Blank (MB) |
| 1205433469 | Laboratory Control Sample (LCS) |
| 1205433470 | 625884001(NonSDG) Sample Duplicate (DUP) |
| 1205433471 | 625884001(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 1205433470 (Non SDG 625884001DUP), 1205433471 (Non SDG 625884001PS) and 625986001 (ARK-APIPZ-6) were diluted because target analyte concentrations exceeded the calibration range. Sample 625986001 (ARK-APIPZ-6) was diluted to minimize matrix effects on instrument performance. Sample 625986001 (ARK-APIPZ-6) 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 | 625986 |
| | 001 |
| Chloride | 5X |
| Fluoride | 5X |
| Sulfate | 200X |

Product: Solids, Total Dissolved

Analytical Method: SM 2540C

Analytical Procedure: GL-GC-E-001 REV# 20

Analytical Batch: 2444265

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

| <u>GEL Sample ID#</u> | <u>Client Sample Identification</u> |
|------------------------------|--------------------------------------------|
| 625986001 | ARK-APIPZ-6 |
| 1205433566 | Method Blank (MB) |
| 1205433567 | Laboratory Control Sample (LCS) |
| 1205433571 | 625877002(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

Sample filtration took > 10 minutes; therefore as prescribed in the method, a reduced aliquot was used. 625986001 (ARK-APIPZ-6). A reduced aliquot was used due to limited volume. The client did not provide an entire 1 liter aliquot. 1205433571 (Non SDG 625877002DUP).

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.

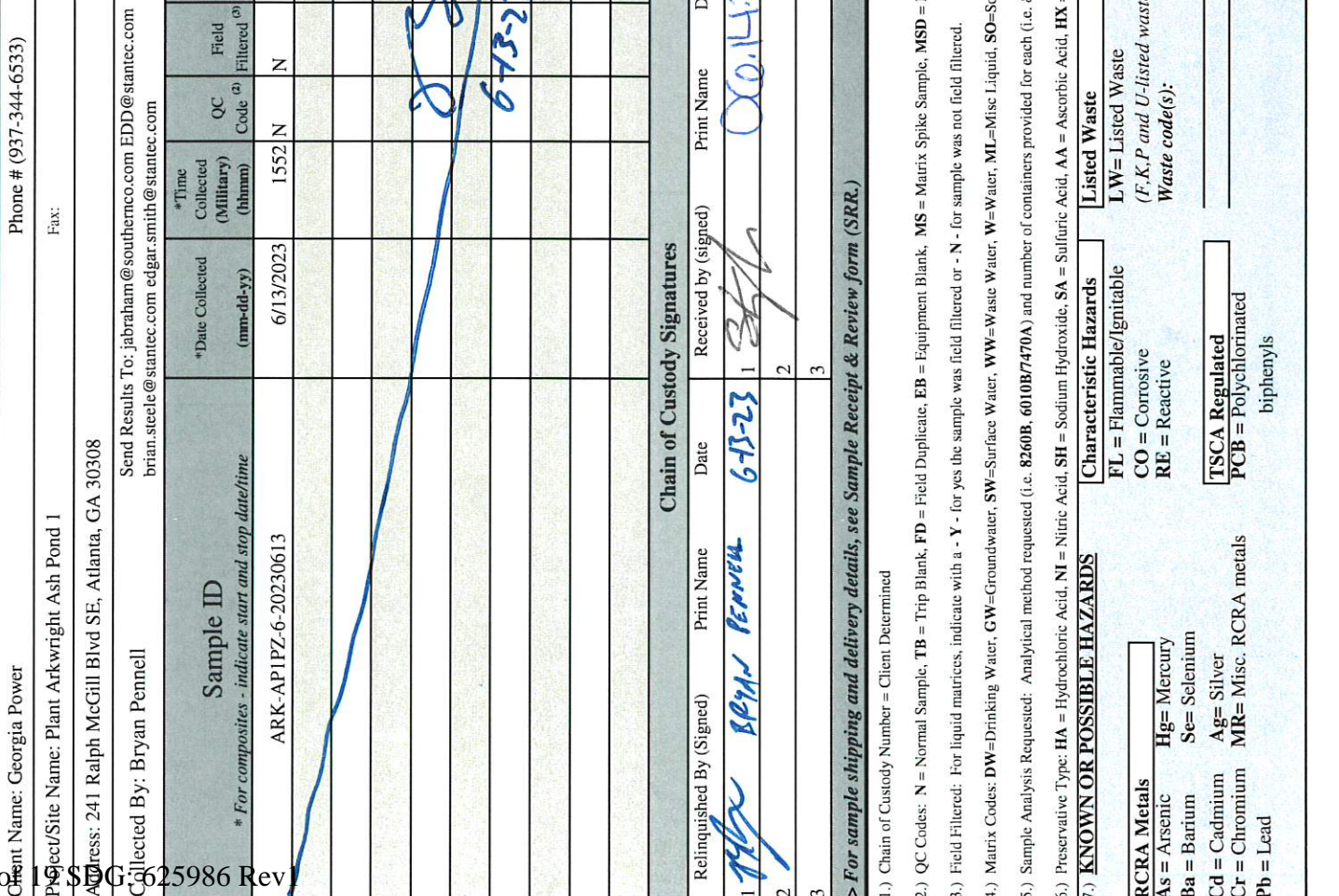
| Sample Analysis Requested (6) (Fill in the number of containers for each test) | | | | Should this sample be considered: | Total number of containers | Comments (task_code: ARK-CCR-ASSMT-2023S1) |
|--------------------------------------------------------------------------------|----|----|----|-----------------------------------|----------------------------|-----------------------------------------------|
| Preservative Type (6) | NI | NI | NI | | | |
| Na, Fe, Mn (6020B) | NI | NI | NI | NI | NI | |
| Metals Al, K, Mg (7470B) | NI | NI | NI | NI | NI | |
| Mercury (7470B) | NI | NI | NI | NI | NI | |
| RAD 226-228 Cmbd (6020B) | NI | NI | NI | NI | NI | |
| Metals App. IV (300.0 Rev. 2.1 1993) | NI | NI | NI | NI | NI | |
| Metals App. III (6020B) | NI | NI | NI | NI | NI | |
| Ag (App. I) (6020B) | NI | NI | NI | NI | NI | |
| TDS (SM Method R2.1) | X | X | X | X | 6 | pH: 5.33 |
| Alkalinity (300.0) | X | X | X | X | | |
| Antons (Cl, Fl, Sulfate) 2540C) | X | X | X | X | | |

| Sample ID | *Date Collected (mm-dd-yy) | *Time Collected (Military) (hhmm) | QC Code (a) | Field Filtered (b) | Sample Matrix (c) |
|----------------------|----------------------------|-----------------------------------|-------------|--------------------|-------------------|
| ARK-APIPZ-6-20230613 | 6/13/2023 | 1552 | N | N | GW |

| Relinquished By (Signed) | Date | Print Name | Date |
|--------------------------|---------|---------------|---------------|
| <i>[Signature]</i> | 6-13-23 | Bryan Pennell | 06.14.23 1000 |
| | | | |
| | | | |

| Chain of Custody Signatures | | TAT Requested: Normal: <input checked="" type="checkbox"/> Rush: <input type="checkbox"/> Specify: _____ (Subject to Surcharge) | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Fax Results: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Select Deliverable: <input type="checkbox"/> C of A <input type="checkbox"/> QC Summary <input type="checkbox"/> Level 1 <input checked="" type="checkbox"/> Level 2 <input type="checkbox"/> Level 3 <input type="checkbox"/> Level 4 | Additional Remarks: | |
| For Lab Receiving Use Only: Custody Seal Intact? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Cooler Temp: _____ °C | | Sample Collection Time Zone: <input checked="" type="checkbox"/> Eastern <input type="checkbox"/> Pacific <input type="checkbox"/> Central <input type="checkbox"/> Mountain <input type="checkbox"/> Other: | |

1.) Chain of Custody Number = Client Determined
 2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite
 3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.
 4.) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, W=Water, ML=Misc Liquid, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Faecal, N=Nasal
 5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).
 6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate. If no preservative is added = leave field blank
 7.) **KNOWN OR POSSIBLE HAZARDS**
RCRA Metals
 As = Arsenic Hg = Mercury
 Ba = Barium Se = Selenium
 Cd = Cadmium Ag = Silver
 Cr = Chromium MR = Misc. RCRA metals
 Pb = Lead
Characteristic Hazards
 FL = Flammable/Ignitable
 CO = Corrosive
 RE = Reactive
Listed Waste
 LW = Listed Waste
 (F, K, P and U-listed wastes.)
Waste code(s):
Other
 OT = Other / Unknown
 (i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:



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

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.)

SAMPLE RECEIPT & REVIEW FORM

| | | | |
|------------------------------------------------------------------------|--------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| Client: GPCC | | SDG/AR/COC/Work Order: 625986 625987 | |
| Received By: SNS | | Date Received: 6/14/23 | |
| Carrier and Tracking Number | | Circle Applicable: <input checked="" type="radio"/> FedEx Express <input type="radio"/> FedEx Ground <input type="radio"/> UPS <input type="radio"/> Field Services <input type="radio"/> Courier <input type="radio"/> Other | |
| | | 399598403522-1c 3511-1c | |
| Suspected Hazard Information | | Yes | No |
| A) Shipped as a DOT Hazardous? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| B) Did the client designate the samples to be received as radioactive? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| C) Did the RSO classify the samples as radioactive? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| D) Did the client designate samples are hazardous? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| E) Did the RSO identify possible hazards? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Sample Receipt Criteria | | Yes | NA |
| 1 | Shipping containers received intact and sealed? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2 | Chain of custody documents included with shipment? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3 | Samples requiring cold preservation within (0 ≤ 6 deg. C)?* | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 4 | Daily check performed and passed on IR temperature gun? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 5 | Sample containers intact and sealed? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 6 | Samples requiring chemical preservation at proper pH? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 7 | Do any samples require Volatile Analysis? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 8 | Samples received within holding time? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 9 | Sample ID's on COC match ID's on bottles? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 10 | Date & time on COC match date & time on bottles? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 11 | Number of containers received match number indicated on COC? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 12 | Are sample containers identifiable as GEL provided by use of GEL labels? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 13 | COC form is properly signed in relinquished/received sections? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Comments (Use Continuation Form if needed): | | | |

PM (or PMA) review: Initials **mcn** Date **6/15/23** Page **1** of **1**

List of current GEL Certifications as of 30 June 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 |



July 12, 2023

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

Re: Arkwright CCR Groundwater Compliance AP1
Work Order: 625987

Dear Joju Abraham:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on June 14, 2023. This revised data report has been prepared and reviewed in accordance with GEL's standard operating procedures. Georgia Power EQUIS Database Manager requested GEL Project Manager correct the sample IDs by removing the dates. These updates ensure the sample nomenclature is consistent on final PDF & EDD and successful upload to database,

The sample was delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt.

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.

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,

Erin Trent
Project Manager

Purchase Order: GPC82177-0005
Enclosures



GEL LABORATORIES LLC

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

Certificate of Analysis Report for

GPCC001 Georgia Power Company

Client SDG: 625987 GEL Work Order: 625987

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



GEL LABORATORIES LLC

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

Certificate of Analysis

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

Atlanta, Georgia 30308

Report Date: July 12, 2023

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceAPI

Client Sample ID: ARK-APIPZ-6
 Sample ID: 625987001
 Matrix: WG
 Collect Date: 13-JUN-23
 Receive Date: 14-JUN-23
 Collector: Client

Project: GPCC00100
 Client ID: GPCC001

| Parameter | Qualifier | Result | Uncertainty | MDC | TPU | RL | Units | PF | DF | Analyst | Date | Time | Batch | Mtd. |
|----------------------------------------------------------------|-----------|--------|-------------|-------|----------|------|-------|----|----|---------|----------|------|---------|------|
| Rad Gas Flow Proportional Counting | | | | | | | | | | | | | | |
| <i>GFPC Ra228, Liquid "As Received"</i> | | | | | | | | | | | | | | |
| Radium-228 | U | 1.68 | +/-1.46 | 2.39 | +/-1.53 | 3.00 | pCi/L | | | JE1 | 06/23/23 | 1509 | 2445900 | 1 |
| <i>Radium-226+Radium-228 Calculation "See Parent Products"</i> | | | | | | | | | | | | | | |
| Radium-226+228 Sum | | 3.69 | +/-1.65 | 2.39 | +/-1.77 | | pCi/L | | 1 | LXB3 | 07/06/23 | 1001 | 2448609 | 2 |
| Rad Radium-226 | | | | | | | | | | | | | | |
| <i>Lucas Cell, Ra226, Liquid "As Received"</i> | | | | | | | | | | | | | | |
| Radium-226 | | 2.01 | +/-0.768 | 0.560 | +/-0.901 | 1.00 | pCi/L | | | LXP1 | 06/27/23 | 0810 | 2445887 | 3 |

The following Analytical Methods were performed

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

| Surrogate/Tracer Recovery | Test | Batch ID | Recovery% | Acceptable Limits |
|---------------------------|----------------------------------|----------|-----------|-------------------|
| Barium-133 Tracer | GFPC Ra228, Liquid "As Received" | 2445900 | 74.4 | (15%-125%) |

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

Column headers are defined as follows:

| | |
|---------------------------------------|-----------------------------------|
| DF: Dilution Factor | 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 | |

GEL LABORATORIES LLC

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QC Summary

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

Report Date: July 12, 2023
Page 1 of 2

Atlanta, Georgia

Contact: Joju Abraham

Workorder: 625987

| Parmname | NOM | Sample | Qual | QC | Units | RPD% | REC% | Range | Anlst | Date Time |
|---------------------|---------------|----------|----------|----------|-------|------|------|-------------|-------|----------------|
| Rad Gas Flow | | | | | | | | | | |
| Batch | 2445900 | | | | | | | | | |
| QC1205436474 | 625716001 DUP | | | | | | | | | |
| Radium-228 | U | 0.410 | U | 1.25 | pCi/L | 0 | | N/A | JE1 | 06/23/23 15:09 |
| | Uncert: | +/-0.944 | | +/-1.03 | | | | | | |
| | TPU: | +/-0.950 | | +/-1.08 | | | | | | |
| QC1205436475 | LCS | | | | | | | | | |
| Radium-228 | 80.4 | | | 88.8 | pCi/L | | 111 | (75%-125%) | JE1 | 06/23/23 15:09 |
| | Uncert: | | | +/-4.76 | | | | | | |
| | TPU: | | | +/-23.1 | | | | | | |
| QC1205436473 | MB | | | | | | | | | |
| Radium-228 | | | U | 0.213 | pCi/L | | | | JE1 | 06/23/23 15:09 |
| | Uncert: | | | +/-0.991 | | | | | | |
| | TPU: | | | +/-0.992 | | | | | | |
| Rad Ra-226 | | | | | | | | | | |
| Batch | 2445887 | | | | | | | | | |
| QC1205436429 | 625648001 DUP | | | | | | | | | |
| Radium-226 | U | 0.580 | | 1.33 | pCi/L | 78.8 | | (0% - 100%) | LXP1 | 06/27/23 09:24 |
| | Uncert: | +/-0.575 | | +/-0.739 | | | | | | |
| | TPU: | +/-0.582 | | +/-0.781 | | | | | | |
| QC1205436431 | LCS | | | | | | | | | |
| Radium-226 | 26.4 | | | 26.5 | pCi/L | | 100 | (75%-125%) | LXP1 | 06/27/23 09:24 |
| | Uncert: | | | +/-2.78 | | | | | | |
| | TPU: | | | +/-5.69 | | | | | | |
| QC1205436428 | MB | | | | | | | | | |
| Radium-226 | | | U | 0.326 | pCi/L | | | | LXP1 | 06/27/23 09:24 |
| | Uncert: | | | +/-0.394 | | | | | | |
| | TPU: | | | +/-0.400 | | | | | | |
| QC1205436430 | 625648001 MS | | | | | | | | | |
| Radium-226 | 127 | U | 0.580 | 117 | pCi/L | | 92.1 | (75%-125%) | LXP1 | 06/27/23 09:24 |
| | Uncert: | | +/-0.575 | +/-12.9 | | | | | | |
| | TPU: | | +/-0.582 | +/-27.6 | | | | | | |

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

GEL LABORATORIES LLC

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

QC Summary

Workorder: 625987

Page 2 of 2

| Parmname | NOM | Sample Qual | QC | Units | RPD% | REC% | Range | Anlst | Date | Time |
|----------|-----|-------------|----|-------|------|------|-------|-------|------|------|
| UI | | | | | | | | | | |
| BD | | | | | | | | | | |
| h | | | | | | | | | | |
| R | | | | | | | | | | |
| ^ | | | | | | | | | | |
| N/A | | | | | | | | | | |
| ND | | | | | | | | | | |
| M | | | | | | | | | | |
| NJ | | | | | | | | | | |
| FA | | | | | | | | | | |
| UJ | | | | | | | | | | |
| Q | | | | | | | | | | |
| K | | | | | | | | | | |
| UL | | | | | | | | | | |
| L | | | | | | | | | | |
| N1 | | | | | | | | | | |
| Y | | | | | | | | | | |
| ** | | | | | | | | | | |
| M | | | | | | | | | | |
| J | | | | | | | | | | |

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 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.

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.

**Radiochemistry
Technical Case Narrative
Georgia Power Company
SDG #: 625987**

Product: Radium-226+Radium-228 Calculation

Analytical Method: Calculation

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

Analytical Batch: 2448609

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

| <u>GEL Sample ID#</u> | <u>Client Sample Identification</u> |
|------------------------------|--------------------------------------------|
| 625987001 | ARK-APIPZ-6 |

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: 2445900

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

| <u>GEL Sample ID#</u> | <u>Client Sample Identification</u> |
|------------------------------|--------------------------------------------|
| 625987001 | ARK-APIPZ-6 |
| 1205436473 | Method Blank (MB) |
| 1205436474 | 625716001(NonSDG) Sample Duplicate (DUP) |
| 1205436475 | 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.

Preparation Information

Homogenous Matrix

Sample 1205436474 (Non SDG 625716001DUP) was non-homogenous matrix. particles and debris 1205436474 (Non SDG 625716001DUP).

Product: Lucas Cell, Ra226, Liquid

Analytical Method: EPA 903.1 Modified

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

Analytical Batch: 2445887

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

| <u>GEL Sample ID#</u> | <u>Client Sample Identification</u> |
|------------------------------|--------------------------------------------|
| 625987001 | ARK-AP1PZ-6 |
| 1205436428 | Method Blank (MB) |
| 1205436429 | 625648001(NonSDG) Sample Duplicate (DUP) |
| 1205436430 | 625648001(NonSDG) Matrix Spike (MS) |
| 1205436431 | 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, 1205436430 (Non SDG 625648001MS), 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.

| Sample Analysis Requested (5) (Fill in the number of containers for each test) | | Should this sample be considered: | | Total number of containers | | Comments | | | | | | | |
|--------------------------------------------------------------------------------|-------------------|-----------------------------------|-----------------------------------|----------------------------|-------------------------|-----------------------------------------------|------------------------------------------------|------------------------|--------------------------|-----------------|--------------------------|--------------------|-----------------------|
| Sample ID | Sample Matrix (6) | (7) Known or Possible Hazards | Yes, please supply isotopic info. | Ag (App. I) (6020B) | Metals App. III (6020B) | Alkalinity (300.0 R2.1) TDS (SM Method 2540C) | Antons (Cl, Fl, Sulfate) (300.0 Rev. 2.1 1993) | Metals App. IV (6020B) | Metals Al, K, Mg (6020B) | Mercury (7470B) | Metals Al, K, Mg (6020B) | Na, Fe, Mn (6020B) | Preservative Type (6) |
| ARK-APIZ-6-20230613 | GW | OT | N | 6 | X | X | X | X | X | X | X | X | pH: 5.33 |
| | | | | | | | | | | | | | |

Chain of Custody Signatures
 Relinquished By (Signed) Print Name Date Received by (signed) Print Name Date
 1. *[Signature]* Bryan Pennell 6-13-23 1. *[Signature]* 06.14.23 1000
 2. _____
 3. _____
 TAT Requested: Normal: X Rush: _____ Specify: _____ (Subject to Surcharge)
 Fax Results: Yes No
 Select Deliverable: C of A QC Summary Level 1 Level 2 Level 3 Level 4
 Additional Remarks:
 For Lab Receiving Use Only: Custody Seal Intact? Yes No Cooler Temp: _____ °C
 Sample Collection Time Zone: Eastern Pacific Central Mountain Other:

> For sample shipping and delivery details, see Sample Receipt & Review form (SRR).
 1.) Chain of Custody Number = Client Determined
 2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite
 3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.
 4.) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, W=Water, ML=Misc Liquid, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filler, P=Wipe, U=Urine, F=Focal, N=Nasal
 5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).
 6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank
 7.) **KNOWN OR POSSIBLE HAZARDS**
 Characteristic Hazards: FL = Flammable/Ignitable, CO = Corrosive, RE = Reactive
 Listed Waste: LW = Listed Waste (F, K, P and U-listed wastes.)
 Waste code(s):
 Other: OT = Other / Unknown (i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
 Description:
 TSCA Regulated: _____
 PCB = Polychlorinated biphenyls
 RCRA Metals: As = Arsenic, Hg = Mercury, Ba = Barium, Se = Selenium, Cd = Cadmium, Ag = Silver, Cr = Chromium, MR = Misc. RCRA metals
 Pb = Lead
 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.)

Sample Analysis Requested (6) (Fill in the number of containers for each test)

| Should this sample be considered: | (7) Known or Possible Hazards | Ag (App. I) (6020B) | Meats App. III (6020B) | Alkalinity (300.0 R2.1) | TDS (SM Method 2540C) | Anions (Cl, F, Sulfate) (300.0 Rev. 2.1 1993) | Meats App. IV (6020B) | RAD 226-228 Cmbd (6020B) | Mercury (7470B) | Meats Al, K, Mg (6020B) | Na, Fe, Mn (6020B) | Preservative Type (6) |
|----------------------------------------------------|-------------------------------|---------------------|------------------------|-------------------------|-----------------------|-----------------------------------------------|-----------------------|--------------------------|-----------------|-------------------------|--------------------|-----------------------|
| Yes, please supply isotopic info. | | X | | | | | X | X | X | | | |
| Radioactive (If yes, please supply isotopic info.) | | | | | | | | | | | | |

Total number of containers: 6
 Comments: (task_code: ARK-CCR-ASSMT-2023S1)
 pH: 5.33
 TAT Requested: Normal: Rush: Specify: (Subject to Surcharge)

Chain of Custody Signatures

| Relinquished By (Signed) | Print Name | Date | Received by (signed) | Print Name | Date |
|--------------------------|----------------------|----------------|----------------------|------------------|------|
| <i>[Signature]</i> | <u>BRYAN PENNELL</u> | <u>6-13-23</u> | <i>[Signature]</i> | <u>014731000</u> | |
| | | | | | |
| | | | | | |

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

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

Additional Remarks: _____

Select Deliverable: [] Level 1 [X] Level 2 [] Level 3 [] Level 4

Fax Results: [] Yes [X] No

1.) Chain of Custody Number = Client Determined
 2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite
 3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.
 4.) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, ML=Misc Liquid, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=Nasal
 5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).
 6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate. If no preservative is added = leave field blank
 7.) **KNOWN OR POSSIBLE HAZARDS**
 Characteristic Hazards
 FL = Flammable/Ignitable
 CO = Corrosive
 RE = Reactive
 Listed Waste
 LW = Listed Waste
 (F,K,P and U-listed wastes.)
 Waste code(s): _____
 TSCA Regulated
 PCB = Polychlorinated biphenyls
 RCRA Metals
 As = Arsenic
 Ba = Barium
 Cd = Cadmium
 Cr = Chromium
 Hg = Mercury
 Se = Selenium
 Ag = Silver
 MR = Misc. RCRA metals
 Pb = Lead
 Other
 OT = Other / Unknown
 (i.e.: High/Low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
 Description: _____
 Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

SAMPLE RECEIPT & REVIEW FORM

| Client: GPCC | | SDG/AR/COC/Work Order: 625986 / 625987 | | | |
|----------------------------------------------------------------------------|--------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Received By: SNS | | Date Received: 6/14/23 | | | |
| Carrier and Tracking Number | | Circle Applicable: <input checked="" type="radio"/> FedEx Express <input type="radio"/> FedEx Ground <input type="radio"/> UPS <input type="radio"/> Field Services <input type="radio"/> Courier <input type="radio"/> Other 399598403522-1c 3511-1c | | | |
| Suspected Hazard Information | | *If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation. Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | | | |
| A) Shipped as a DOT Hazardous? | | Hazard Class Shipped: _____ UN#: _____ If UN2910, Is the Radioactive Shipment Survey Compliant? Yes ___ No ___ | | | |
| B) Did the client designate the samples are to be received as radioactive? | | COC notation or radioactive stickers on containers equal client designation. | | | |
| C) Did the RSO classify the samples as radioactive? | | Maximum Net Counts Observed* (Observed Counts - Area Background Counts): <u>0</u> <u>0</u> CPM/mR/Hr Classified as: Rad 1 Rad 2 Rad 3 | | | |
| D) Did the client designate samples are hazardous? | | COC notation or hazard labels on containers equal client designation. | | | |
| E) Did the RSO identify possible hazards? | | If D or E is yes, select Hazards below. <input type="checkbox"/> PCB's <input type="checkbox"/> Flammable <input type="checkbox"/> Foreign Soil <input type="checkbox"/> RCRA <input type="checkbox"/> Asbestos <input type="checkbox"/> Beryllium <input type="checkbox"/> Other: | | | |
| Sample Receipt Criteria | | Yes | NA | No | Comments/Qualifiers (Required for Non-Conforming Items) |
| 1 | Shipping containers received intact and sealed? | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Circle Applicable: Seals broken Damaged container Leaking container Other (describe) |
| 2 | Chain of custody documents included with shipment? | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Circle Applicable: Client contacted and provided COC COC created upon receipt |
| 3 | Samples requiring cold preservation within (0 ≤ 6 deg. C)?* | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Preservation Method: <u>Wet Ice</u> Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: _____ |
| 4 | Daily check performed and passed on IR temperature gun? | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Temperature Device Serial #: <u>IR1-23</u> Secondary Temperature Device Serial # (If Applicable): |
| 5 | Sample containers intact and sealed? | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Circle Applicable: Seals broken Damaged container Leaking container Other (describe) |
| 6 | Samples requiring chemical preservation at proper pH? | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Sample ID's and Containers Affected: If Preservation added, Lot#: _____ If Yes, are Encores or Soil Kits present for solids? Yes ___ No ___ NA ___ (If yes, take to VOA Freezer) |
| 7 | Do any samples require Volatile Analysis? | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 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? | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | ID's and tests affected: |
| 9 | Sample ID's on COC match ID's on bottles? | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | ID's and containers affected: |
| 10 | Date & time on COC match date & time on bottles? | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 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? | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Circle Applicable: No container count on COC Other (describe) |
| 12 | Are sample containers identifiable as GEL provided by use of GEL labels? | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 13 | COC form is properly signed in relinquished/received sections? | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Circle Applicable: Not relinquished Other (describe) |
| Comments (Use Continuation Form if needed): | | | | | |

PM (or PMA) review: Initials mcg Date 6/15/23 Page 1 of 1

List of current GEL Certifications as of 12 July 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 |

October 23, 2023

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

Re: Arkwright CCR Groundwater Compliance AP1
Work Order: 640870

Dear Joju Abraham:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on October 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):

| <u>Laboratory ID</u> | <u>Client ID</u> | <u>Matrix</u> | <u>Date Collected</u> | <u>Date Recieved</u> |
|----------------------|------------------|---------------|-----------------------|----------------------|
| 640870001 | ARK-APIGWA-1 | Ground Water | 09/10/23 13:45 | 11/10/23 15:28 |
| 640870002 | ARK-AP1-FB-01 | Ground Water | 09/10/23 14:05 | 11/10/23 15:28 |
| 640870003 | ARK-APIGWA-2 | Ground Water | 09/10/23 14:30 | 11/10/23 15:28 |
| 640870004 | ARK-AP1-EB-01 | Ground Water | 09/10/23 15:00 | 11/10/23 15:28 |
| 640870005 | ARK-APIPZ-1 | Ground Water | 09/10/23 16:20 | 11/10/23 15:28 |
| 640870006 | ARK-APIPZ-2 | Ground Water | 09/10/23 17:00 | 11/10/23 15:28 |
| 640870007 | ARK-AP1-FD-01 | Ground Water | 09/10/23 00:00 | 11/10/23 15:28 |
| 640870008 | ARK-APIPZ-4 | Ground Water | 10/10/23 09:10 | 11/10/23 15:28 |
| 640870009 | ARK-AP1-FB-02 | Ground Water | 10/10/23 09:30 | 11/10/23 15:28 |
| 640870010 | ARK-APIPZ-3 | Ground Water | 10/10/23 09:30 | 11/10/23 15:28 |
| 640870011 | ARK-APIPZ-8 | Ground Water | 10/10/23 11:55 | 11/10/23 15:28 |
| 640870012 | ARK-APIPZ-5 | Ground Water | 10/10/23 11:20 | 11/10/23 15:28 |
| 640870013 | ARK-AP1-EB-02 | Ground Water | 10/10/23 12:10 | 11/10/23 15:28 |
| 640870014 | ARK-APIPZ-7 | Ground Water | 10/10/23 13:50 | 11/10/23 15:28 |
| 640870015 | ARK-APIPZ-10 | Ground Water | 10/10/23 14:20 | 11/10/23 15:28 |
| 640870016 | ARK-APIPZ-11 | Ground Water | 10/10/23 16:15 | 11/10/23 15:28 |



640870017 ARK-API-FD-02 Ground Water 10/10/23 00:00 11/10/23 15:28

640870018 ARK-APIPZ-9 Ground Water 11/10/23 08:20 11/10/23 15:28

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

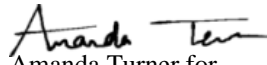
Not Applicable

Analysis Methods and Analysis Dates

| <u>Method</u> | <u>Run Date ID</u> |
|-------------------------------|---------------------------|
| Calculation | 23-OCT-2023 |
| EPA 903.1 Modified | 23-OCT-2023 |
| EPA 904.0/SW846 9320 Modified | 16-OCT-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,

A handwritten signature in black ink that reads "Amanda Turner". The signature is written in a cursive style with a horizontal line extending from the end of the name.

Amanda Turner for
Erin Trent
Project Manager

Purchase Order: GPC82177-0005
Enclosures

GEL LABORATORIES LLC

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

Certificate of Analysis Report for

GPCC001 Georgia Power Company

Client SDG: 640870 GEL Work Order: 640870

The Qualifiers in this report are defined as follows:

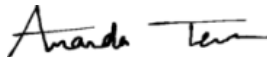
- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a Tracer compound
- ** Analyte is a surrogate compound
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

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



GEL LABORATORIES LLC

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

Certificate of Analysis

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

Atlanta, Georgia 30308

Report Date: October 23, 2023

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceAPI

Client Sample ID: ARK-APIGWA-1
 Sample ID: 640870001
 Matrix: WG
 Collect Date: 09-OCT-23
 Receive Date: 11-OCT-23
 Collector: Client

Project: GPCC00100
 Client ID: GPCC001

| Parameter | Qualifier | Result | Uncertainty | MDC | TPU | RL | Units | PF | DF | Analyst | Date | Time | Batch | Mtd. |
|----------------------------------------------------------------|-----------|--------|-------------|-------|----------|------|-------|----|----|---------|----------|------|---------|------|
| Rad Gas Flow Proportional Counting | | | | | | | | | | | | | | |
| <i>GFPC Ra228, Liquid "As Received"</i> | | | | | | | | | | | | | | |
| Radium-228 | | 2.41 | +/-1.09 | 1.37 | +/-1.25 | 3.00 | pCi/L | | | JE1 | 10/16/23 | 0816 | 2507338 | 1 |
| <i>Radium-226+Radium-228 Calculation "See Parent Products"</i> | | | | | | | | | | | | | | |
| Radium-226+228 Sum | | 4.31 | +/-1.35 | 1.37 | +/-1.51 | | pCi/L | | | NXL1 | 10/23/23 | 1409 | 2508821 | 2 |
| Rad Radium-226 | | | | | | | | | | | | | | |
| <i>Lucas Cell, Ra226, Liquid "As Received"</i> | | | | | | | | | | | | | | |
| Radium-226 | | 1.90 | +/-0.801 | 0.580 | +/-0.848 | 1.00 | pCi/L | | | LXP1 | 10/23/23 | 0818 | 2508813 | 3 |

The following Analytical Methods were performed

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

| Surrogate/Tracer Recovery | Test | Batch ID | Recovery% | Acceptable Limits |
|---------------------------|----------------------------------|----------|-----------|-------------------|
| Barium-133 Tracer | GFPC Ra228, Liquid "As Received" | 2507338 | 66.4 | (15%-125%) |

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

Column headers are defined as follows:

| | |
|---------------------------------------|-----------------------------------|
| DF: Dilution Factor | 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: October 23, 2023

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceAPI

Client Sample ID: ARK-AP1-FB-01

Project: GPCC00100

Sample ID: 640870002

Client ID: GPCC001

Matrix: WQ

Collect Date: 09-OCT-23

Receive Date: 11-OCT-23

Collector: Client

| Parameter | Qualifier | Result | Uncertainty | MDC | TPU | RL | Units | PF | DF | Analyst | Date | Time | Batch | Mtd. |
|----------------------------------------------------------------|-----------|--------|-------------|-------|----------|------|-------|----|----|---------|----------|------|---------|------|
| Rad Gas Flow Proportional Counting | | | | | | | | | | | | | | |
| <i>GFPC Ra228, Liquid "As Received"</i> | | | | | | | | | | | | | | |
| Radium-228 | U | 1.12 | +/-1.18 | 1.96 | +/-1.21 | 3.00 | pCi/L | | | JE1 | 10/16/23 | 0816 | 2507338 | 1 |
| <i>Radium-226+Radium-228 Calculation "See Parent Products"</i> | | | | | | | | | | | | | | |
| Radium-226+228 Sum | | 2.23 | +/-1.36 | 1.96 | +/-1.40 | | pCi/L | | | NXL1 | 10/23/23 | 1409 | 2508821 | 2 |
| Rad Radium-226 | | | | | | | | | | | | | | |
| <i>Lucas Cell, Ra226, Liquid "As Received"</i> | | | | | | | | | | | | | | |
| Radium-226 | | 1.11 | +/-0.667 | 0.704 | +/-0.688 | 1.00 | pCi/L | | | LXP1 | 10/23/23 | 0818 | 2508813 | 3 |

The following Analytical Methods were performed

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

| Surrogate/Tracer Recovery | Test | Batch ID | Recovery% | Acceptable Limits |
|---------------------------|----------------------------------|----------|-----------|-------------------|
| Barium-133 Tracer | GFPC Ra228, Liquid "As Received" | 2507338 | 69.1 | (15%-125%) |

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

Column headers are defined as follows:

- | | |
|---------------------------------------|-----------------------------------|
| DF: Dilution Factor | 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: October 23, 2023

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceAPI

Client Sample ID: ARK-AP1GWA-2

Project: GPCC00100

Sample ID: 640870003

Client ID: GPCC001

Matrix: WG

Collect Date: 09-OCT-23

Receive Date: 11-OCT-23

Collector: Client

| Parameter | Qualifier | Result | Uncertainty | MDC | TPU | RL | Units | PF | DF | Analyst | Date | Time | Batch | Mtd. |
|----------------------------------------------------------------|-----------|--------|-------------|-------|---------|------|-------|----|----|---------|----------|------|---------|------|
| Rad Gas Flow Proportional Counting | | | | | | | | | | | | | | |
| <i>GFPC Ra228, Liquid "As Received"</i> | | | | | | | | | | | | | | |
| Radium-228 | U | 0.754 | +/-1.07 | 1.84 | +/-1.09 | 3.00 | pCi/L | | | JE1 | 10/16/23 | 0816 | 2507338 | 1 |
| <i>Radium-226+Radium-228 Calculation "See Parent Products"</i> | | | | | | | | | | | | | | |
| Radium-226+228 Sum | | 6.78 | +/-1.83 | 1.84 | +/-2.05 | | pCi/L | | | NXL1 | 10/23/23 | 1409 | 2508821 | 2 |
| Rad Radium-226 | | | | | | | | | | | | | | |
| <i>Lucas Cell, Ra226, Liquid "As Received"</i> | | | | | | | | | | | | | | |
| Radium-226 | | 6.03 | +/-1.48 | 0.547 | +/-1.73 | 1.00 | pCi/L | | | LXP1 | 10/23/23 | 0818 | 2508813 | 3 |

The following Analytical Methods were performed

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

| Surrogate/Tracer Recovery | Test | Batch ID | Recovery% | Acceptable Limits |
|---------------------------|----------------------------------|----------|-----------|-------------------|
| Barium-133 Tracer | GFPC Ra228, Liquid "As Received" | 2507338 | 72.4 | (15%-125%) |

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

Column headers are defined as follows:

- | | |
|---------------------------------------|-----------------------------------|
| DF: Dilution Factor | 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: October 23, 2023

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceAPI

Client Sample ID: ARK-AP1-EB-01

Project: GPCC00100

Sample ID: 640870004

Client ID: GPCC001

Matrix: WQ

Collect Date: 09-OCT-23

Receive Date: 11-OCT-23

Collector: Client

| Parameter | Qualifier | Result | Uncertainty | MDC | TPU | RL | Units | PF | DF | Analyst | Date | Time | Batch | Mtd. |
|----------------------------------------------------------------|-----------|--------|-------------|-------|----------|------|-------|----|----|---------|----------|------|---------|------|
| Rad Gas Flow Proportional Counting | | | | | | | | | | | | | | |
| <i>GFPC Ra228, Liquid "As Received"</i> | | | | | | | | | | | | | | |
| Radium-228 | U | 1.24 | +/-1.22 | 2.01 | +/-1.26 | 3.00 | pCi/L | | | JE1 | 10/16/23 | 0816 | 2507338 | 1 |
| <i>Radium-226+Radium-228 Calculation "See Parent Products"</i> | | | | | | | | | | | | | | |
| Radium-226+228 Sum | U | 1.38 | +/-1.25 | 2.01 | +/-1.29 | | pCi/L | | | NXL1 | 10/23/23 | 1409 | 2508821 | 2 |
| Rad Radium-226 | | | | | | | | | | | | | | |
| <i>Lucas Cell, Ra226, Liquid "As Received"</i> | | | | | | | | | | | | | | |
| Radium-226 | U | 0.130 | +/-0.256 | 0.508 | +/-0.257 | 1.00 | pCi/L | | | LXP1 | 10/23/23 | 0852 | 2508813 | 3 |

The following Analytical Methods were performed

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

| Surrogate/Tracer Recovery | Test | Batch ID | Recovery% | Acceptable Limits |
|---------------------------|----------------------------------|----------|-----------|-------------------|
| Barium-133 Tracer | GFPC Ra228, Liquid "As Received" | 2507338 | 69.4 | (15%-125%) |

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

Column headers are defined as follows:

- | | |
|---------------------------------------|-----------------------------------|
| DF: Dilution Factor | 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
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Atlanta, Georgia 30308

Report Date: October 23, 2023

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceAPI

Client Sample ID: ARK-AP1PZ-1

Project: GPCC00100

Sample ID: 640870005

Client ID: GPCC001

Matrix: WG

Collect Date: 09-OCT-23

Receive Date: 11-OCT-23

Collector: Client

| Parameter | Qualifier | Result | Uncertainty | MDC | TPU | RL | Units | PF | DF | Analyst | Date | Time | Batch | Mtd. |
|----------------------------------------------------------------|-----------|--------|-------------|-------|---------|------|-------|----|----|---------|----------|------|---------|------|
| Rad Gas Flow Proportional Counting | | | | | | | | | | | | | | |
| <i>GFPC Ra228, Liquid "As Received"</i> | | | | | | | | | | | | | | |
| Radium-228 | | 2.01 | +/-1.04 | 1.42 | +/-1.16 | 3.00 | pCi/L | | | JE1 | 10/16/23 | 0816 | 2507338 | 1 |
| <i>Radium-226+Radium-228 Calculation "See Parent Products"</i> | | | | | | | | | | | | | | |
| Radium-226+228 Sum | | 4.93 | +/-1.43 | 1.42 | +/-1.59 | | pCi/L | | | NXL1 | 10/23/23 | 1409 | 2508821 | 2 |
| Rad Radium-226 | | | | | | | | | | | | | | |
| <i>Lucas Cell, Ra226, Liquid "As Received"</i> | | | | | | | | | | | | | | |
| Radium-226 | | 2.92 | +/-0.983 | 0.494 | +/-1.09 | 1.00 | pCi/L | | | LXP1 | 10/23/23 | 0852 | 2508813 | 3 |

The following Analytical Methods were performed

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

| Surrogate/Tracer Recovery | Test | Batch ID | Recovery% | Acceptable Limits |
|---------------------------|----------------------------------|----------|-----------|-------------------|
| Barium-133 Tracer | GFPC Ra228, Liquid "As Received" | 2507338 | 68.6 | (15%-125%) |

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

Column headers are defined as follows:

- | | |
|---------------------------------------|-----------------------------------|
| DF: Dilution Factor | 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 | |

GEL LABORATORIES LLC

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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: October 23, 2023

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceAPI

Client Sample ID: ARK-AP1PZ-2

Project: GPCC00100

Sample ID: 640870006

Client ID: GPCC001

Matrix: WG

Collect Date: 09-OCT-23

Receive Date: 11-OCT-23

Collector: Client

| Parameter | Qualifier | Result | Uncertainty | MDC | TPU | RL | Units | PF | DF | Analyst | Date | Time | Batch | Mtd. |
|----------------------------------------------------------------|-----------|--------|-------------|-------|---------|------|-------|----|----|---------|----------|------|---------|------|
| Rad Gas Flow Proportional Counting | | | | | | | | | | | | | | |
| <i>GFPC Ra228, Liquid "As Received"</i> | | | | | | | | | | | | | | |
| Radium-228 | U | 1.39 | +/-1.07 | 1.65 | +/-1.13 | 3.00 | pCi/L | | | JE1 | 10/16/23 | 0816 | 2507338 | 1 |
| <i>Radium-226+Radium-228 Calculation "See Parent Products"</i> | | | | | | | | | | | | | | |
| Radium-226+228 Sum | | 7.40 | +/-1.78 | 1.65 | +/-2.05 | | pCi/L | | | NXL1 | 10/23/23 | 1409 | 2508821 | 2 |
| Rad Radium-226 | | | | | | | | | | | | | | |
| <i>Lucas Cell, Ra226, Liquid "As Received"</i> | | | | | | | | | | | | | | |
| Radium-226 | | 6.01 | +/-1.43 | 0.676 | +/-1.71 | 1.00 | pCi/L | | | LXP1 | 10/23/23 | 0852 | 2508813 | 3 |

The following Analytical Methods were performed

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

| Surrogate/Tracer Recovery | Test | Batch ID | Recovery% | Acceptable Limits |
|---------------------------|----------------------------------|----------|-----------|-------------------|
| Barium-133 Tracer | GFPC Ra228, Liquid "As Received" | 2507338 | 63.8 | (15%-125%) |

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

Column headers are defined as follows:

- | | |
|---------------------------------------|-----------------------------------|
| DF: Dilution Factor | 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: October 23, 2023

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceAPI

Client Sample ID: ARK-AP1-FD-01

Project: GPCC00100

Sample ID: 640870007

Client ID: GPCC001

Matrix: WG

Collect Date: 09-OCT-23

Receive Date: 11-OCT-23

Collector: Client

| Parameter | Qualifier | Result | Uncertainty | MDC | TPU | RL | Units | PF | DF | Analyst | Date | Time | Batch | Mtd. |
|----------------------------------------------------------------|-----------|--------|-------------|-------|---------|------|-------|----|----|---------|----------|------|---------|------|
| Rad Gas Flow Proportional Counting | | | | | | | | | | | | | | |
| <i>GFPC Ra228, Liquid "As Received"</i> | | | | | | | | | | | | | | |
| Radium-228 | U | 1.66 | +/-1.20 | 1.85 | +/-1.28 | 3.00 | pCi/L | | | JE1 | 10/16/23 | 0816 | 2507338 | 1 |
| <i>Radium-226+Radium-228 Calculation "See Parent Products"</i> | | | | | | | | | | | | | | |
| Radium-226+228 Sum | | 7.98 | +/-2.05 | 1.85 | +/-2.39 | | pCi/L | | | NXL1 | 10/23/23 | 1409 | 2508821 | 2 |
| Rad Radium-226 | | | | | | | | | | | | | | |
| <i>Lucas Cell, Ra226, Liquid "As Received"</i> | | | | | | | | | | | | | | |
| Radium-226 | | 6.33 | +/-1.66 | 0.996 | +/-2.02 | 1.00 | pCi/L | | | LXP1 | 10/23/23 | 0852 | 2508813 | 3 |

The following Analytical Methods were performed

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

| Surrogate/Tracer Recovery | Test | Batch ID | Recovery% | Acceptable Limits |
|---------------------------|----------------------------------|----------|-----------|-------------------|
| Barium-133 Tracer | GFPC Ra228, Liquid "As Received" | 2507338 | 60.3 | (15%-125%) |

Notes:

The MDC is a sample specific MDC.

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

Column headers are defined as follows:

- | | |
|---------------------------------------|-----------------------------------|
| DF: Dilution Factor | 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 | |

GEL LABORATORIES LLC

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

Certificate of Analysis

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

Atlanta, Georgia 30308

Report Date: October 23, 2023

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceAPI

Client Sample ID: ARK-AP1PZ-4

Project: GPCC00100

Sample ID: 640870008

Client ID: GPCC001

Matrix: WG

Collect Date: 10-OCT-23

Receive Date: 11-OCT-23

Collector: Client

| Parameter | Qualifier | Result | Uncertainty | MDC | TPU | RL | Units | PF | DF | Analyst | Date | Time | Batch | Mtd. |
|----------------------------------------------------------------|-----------|--------|-------------|-------|---------|------|-------|----|----|---------|----------|------|---------|------|
| Rad Gas Flow Proportional Counting | | | | | | | | | | | | | | |
| <i>GFPC Ra228, Liquid "As Received"</i> | | | | | | | | | | | | | | |
| Radium-228 | U | 2.16 | +/-1.68 | 2.70 | +/-1.77 | 3.00 | pCi/L | | | JE1 | 10/16/23 | 0819 | 2507338 | 1 |
| <i>Radium-226+Radium-228 Calculation "See Parent Products"</i> | | | | | | | | | | | | | | |
| Radium-226+228 Sum | | 5.33 | +/-1.96 | 2.70 | +/-2.14 | | pCi/L | | | NXL1 | 10/23/23 | 1409 | 2508821 | 2 |
| Rad Radium-226 | | | | | | | | | | | | | | |
| <i>Lucas Cell, Ra226, Liquid "As Received"</i> | | | | | | | | | | | | | | |
| Radium-226 | | 3.16 | +/-1.01 | 0.481 | +/-1.21 | 1.00 | pCi/L | | | LXP1 | 10/23/23 | 0852 | 2508813 | 3 |

The following Analytical Methods were performed

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

| Surrogate/Tracer Recovery | Test | Batch ID | Recovery% | Acceptable Limits |
|---------------------------|----------------------------------|----------|-----------|-------------------|
| Barium-133 Tracer | GFPC Ra228, Liquid "As Received" | 2507338 | 62.9 | (15%-125%) |

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

Column headers are defined as follows:

- | | |
|---------------------------------------|-----------------------------------|
| DF: Dilution Factor | 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: October 23, 2023

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceAPI

Client Sample ID: ARK-AP1-FB-02

Project: GPCC00100

Sample ID: 640870009

Client ID: GPCC001

Matrix: WQ

Collect Date: 10-OCT-23

Receive Date: 11-OCT-23

Collector: Client

| Parameter | Qualifier | Result | Uncertainty | MDC | TPU | RL | Units | PF | DF | Analyst | Date | Time | Batch | Mtd. |
|----------------------------------------------------------------|-----------|--------|-------------|-------|----------|------|-------|----|----|---------|----------|------|---------|------|
| Rad Gas Flow Proportional Counting | | | | | | | | | | | | | | |
| <i>GFPC Ra228, Liquid "As Received"</i> | | | | | | | | | | | | | | |
| Radium-228 | | 2.02 | +/-1.05 | 1.43 | +/-1.17 | 3.00 | pCi/L | | | JE1 | 10/16/23 | 0821 | 2507338 | 1 |
| <i>Radium-226+Radium-228 Calculation "See Parent Products"</i> | | | | | | | | | | | | | | |
| Radium-226+228 Sum | | 2.51 | +/-1.13 | 1.43 | +/-1.25 | | pCi/L | | | NXL1 | 10/23/23 | 1409 | 2508821 | 2 |
| Rad Radium-226 | | | | | | | | | | | | | | |
| <i>Lucas Cell, Ra226, Liquid "As Received"</i> | | | | | | | | | | | | | | |
| Radium-226 | U | 0.489 | +/-0.437 | 0.573 | +/-0.449 | 1.00 | pCi/L | | | LXP1 | 10/23/23 | 0852 | 2508813 | 3 |

The following Analytical Methods were performed

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

| Surrogate/Tracer Recovery | Test | Batch ID | Recovery% | Acceptable Limits |
|---------------------------|----------------------------------|----------|-----------|-------------------|
| Barium-133 Tracer | GFPC Ra228, Liquid "As Received" | 2507338 | 68.6 | (15%-125%) |

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

Column headers are defined as follows:

- | | |
|---------------------------------------|-----------------------------------|
| DF: Dilution Factor | 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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Atlanta, Georgia 30308

Report Date: October 23, 2023

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceAPI

Client Sample ID: ARK-AP1PZ-3

Project: GPCC00100

Sample ID: 640870010

Client ID: GPCC001

Matrix: WG

Collect Date: 10-OCT-23

Receive Date: 11-OCT-23

Collector: Client

| Parameter | Qualifier | Result | Uncertainty | MDC | TPU | RL | Units | PF | DF | Analyst | Date | Time | Batch | Mtd. |
|----------------------------------------------------------------|-----------|--------|-------------|-------|---------|------|-------|----|----|---------|----------|------|---------|------|
| Rad Gas Flow Proportional Counting | | | | | | | | | | | | | | |
| <i>GFPC Ra228, Liquid "As Received"</i> | | | | | | | | | | | | | | |
| Radium-228 | | 3.12 | +/-1.40 | 1.86 | +/-1.61 | 3.00 | pCi/L | | | JE1 | 10/16/23 | 0821 | 2507338 | 1 |
| <i>Radium-226+Radium-228 Calculation "See Parent Products"</i> | | | | | | | | | | | | | | |
| Radium-226+228 Sum | | 12.5 | +/-2.28 | 1.86 | +/-2.99 | | pCi/L | | | NXL1 | 10/23/23 | 1409 | 2508821 | 2 |
| Rad Radium-226 | | | | | | | | | | | | | | |
| <i>Lucas Cell, Ra226, Liquid "As Received"</i> | | | | | | | | | | | | | | |
| Radium-226 | | 9.36 | +/-1.80 | 0.761 | +/-2.52 | 1.00 | pCi/L | | | LXP1 | 10/23/23 | 0852 | 2508813 | 3 |

The following Analytical Methods were performed

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

| Surrogate/Tracer Recovery | Test | Batch ID | Recovery% | Acceptable Limits |
|---------------------------|----------------------------------|----------|-----------|-------------------|
| Barium-133 Tracer | GFPC Ra228, Liquid "As Received" | 2507338 | 57.7 | (15%-125%) |

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

Column headers are defined as follows:

- | | |
|---------------------------------------|-----------------------------------|
| DF: Dilution Factor | 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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Atlanta, Georgia 30308

Report Date: October 23, 2023

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceAPI

Client Sample ID: ARK-APIPZ-8
Sample ID: 640870011
Matrix: WG
Collect Date: 10-OCT-23
Receive Date: 11-OCT-23
Collector: Client

Project: GPCC00100
Client ID: GPCC001

| Parameter | Qualifier | Result | Uncertainty | MDC | TPU | RL | Units | PF | DF | Analyst | Date | Time | Batch | Mtd. |
|-----------|-----------|--------|-------------|-----|-----|----|-------|----|----|---------|------|------|-------|------|
|-----------|-----------|--------|-------------|-----|-----|----|-------|----|----|---------|------|------|-------|------|

Rad Gas Flow Proportional Counting

GFPC Ra228, Liquid "As Received"

| | | | | | | | | | | | | | | |
|------------|--|------|----------|------|---------|------|-------|--|--|-----|----------|------|---------|---|
| Radium-228 | | 1.84 | +/-0.907 | 1.17 | +/-1.02 | 3.00 | pCi/L | | | JE1 | 10/16/23 | 0821 | 2507338 | 1 |
|------------|--|------|----------|------|---------|------|-------|--|--|-----|----------|------|---------|---|

Radium-226+Radium-228 Calculation "See Parent Products"

| | | | | | | | | | | | | | | |
|--------------------|--|------|---------|------|---------|--|-------|--|--|------|----------|------|---------|---|
| Radium-226+228 Sum | | 3.27 | +/-1.13 | 1.17 | +/-1.27 | | pCi/L | | | NXL1 | 10/23/23 | 1409 | 2508821 | 2 |
|--------------------|--|------|---------|------|---------|--|-------|--|--|------|----------|------|---------|---|

Rad Radium-226

Lucas Cell, Ra226, Liquid "As Received"

| | | | | | | | | | | | | | | |
|------------|--|------|----------|-------|----------|------|-------|--|--|------|----------|------|---------|---|
| Radium-226 | | 1.44 | +/-0.671 | 0.531 | +/-0.748 | 1.00 | pCi/L | | | LXP1 | 10/23/23 | 0852 | 2508813 | 3 |
|------------|--|------|----------|-------|----------|------|-------|--|--|------|----------|------|---------|---|

The following Analytical Methods were performed

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

| Surrogate/Tracer Recovery | Test | Batch ID | Recovery% | Acceptable Limits |
|---------------------------|----------------------------------|----------|-----------|-------------------|
| Barium-133 Tracer | GFPC Ra228, Liquid "As Received" | 2507338 | 71.3 | (15%-125%) |

Notes:

The MDC is a sample specific MDC.

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

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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Atlanta, Georgia 30308

Report Date: October 23, 2023

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceAPI

Client Sample ID: ARK-AP1PZ-5

Project: GPCC00100

Sample ID: 640870012

Client ID: GPCC001

Matrix: WG

Collect Date: 10-OCT-23

Receive Date: 11-OCT-23

Collector: Client

| Parameter | Qualifier | Result | Uncertainty | MDC | TPU | RL | Units | PF | DF | Analyst | Date | Time | Batch | Mtd. |
|----------------------------------------------------------------|-----------|--------|-------------|-------|---------|------|-------|----|----|---------|----------|------|---------|------|
| Rad Gas Flow Proportional Counting | | | | | | | | | | | | | | |
| <i>GFPC Ra228, Liquid "As Received"</i> | | | | | | | | | | | | | | |
| Radium-228 | U | -0.394 | +/-1.54 | 2.87 | +/-1.54 | 3.00 | pCi/L | | | JE1 | 10/16/23 | 0821 | 2507338 | 1 |
| <i>Radium-226+Radium-228 Calculation "See Parent Products"</i> | | | | | | | | | | | | | | |
| Radium-226+228 Sum | | 4.50 | +/-2.00 | 2.87 | +/-2.27 | | pCi/L | | | NXL1 | 10/23/23 | 1409 | 2508821 | 2 |
| Rad Radium-226 | | | | | | | | | | | | | | |
| <i>Lucas Cell, Ra226, Liquid "As Received"</i> | | | | | | | | | | | | | | |
| Radium-226 | | 4.50 | +/-1.28 | 0.542 | +/-1.66 | 1.00 | pCi/L | | | LXP1 | 10/23/23 | 0927 | 2508813 | 3 |

The following Analytical Methods were performed

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

| Surrogate/Tracer Recovery | Test | Batch ID | Recovery% | Acceptable Limits |
|---------------------------|----------------------------------|----------|-----------|-------------------|
| Barium-133 Tracer | GFPC Ra228, Liquid "As Received" | 2507338 | 59.1 | (15%-125%) |

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

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration

Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Report Date: October 23, 2023

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceAPI

Client Sample ID: ARK-AP1-EB-02

Project: GPCC00100

Sample ID: 640870013

Client ID: GPCC001

Matrix: WQ

Collect Date: 10-OCT-23

Receive Date: 11-OCT-23

Collector: Client

| Parameter | Qualifier | Result | Uncertainty | MDC | TPU | RL | Units | PF | DF | Analyst | Date | Time | Batch | Mtd. |
|----------------------------------------------------------------|-----------|--------|-------------|-------|----------|------|-------|----|----|---------|----------|------|---------|------|
| Rad Gas Flow Proportional Counting | | | | | | | | | | | | | | |
| <i>GFPC Ra228, Liquid "As Received"</i> | | | | | | | | | | | | | | |
| Radium-228 | U | 1.38 | +/-1.34 | 2.21 | +/-1.39 | 3.00 | pCi/L | | | JE1 | 10/16/23 | 0821 | 2507338 | 1 |
| <i>Radium-226+Radium-228 Calculation "See Parent Products"</i> | | | | | | | | | | | | | | |
| Radium-226+228 Sum | U | 1.91 | +/-1.44 | 2.21 | +/-1.49 | | pCi/L | | | NXL1 | 10/23/23 | 1409 | 2508821 | 2 |
| Rad Radium-226 | | | | | | | | | | | | | | |
| <i>Lucas Cell, Ra226, Liquid "As Received"</i> | | | | | | | | | | | | | | |
| Radium-226 | U | 0.527 | +/-0.523 | 0.761 | +/-0.529 | 1.00 | pCi/L | | | LXP1 | 10/23/23 | 0927 | 2508813 | 3 |

The following Analytical Methods were performed

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

| Surrogate/Tracer Recovery | Test | Batch ID | Recovery% | Acceptable Limits |
|---------------------------|----------------------------------|----------|-----------|-------------------|
| Barium-133 Tracer | GFPC Ra228, Liquid "As Received" | 2507338 | 66.8 | (15%-125%) |

Notes:

The MDC is a sample specific MDC.

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

Column headers are defined as follows:

- | | |
|---------------------------------------|-----------------------------------|
| DF: Dilution Factor | 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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 Address : Company
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Atlanta, Georgia 30308

Report Date: October 23, 2023

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceAPI

Client Sample ID: ARK-AP1PZ-7

Project: GPCC00100

Sample ID: 640870014

Client ID: GPCC001

Matrix: WG

Collect Date: 10-OCT-23

Receive Date: 11-OCT-23

Collector: Client

| Parameter | Qualifier | Result | Uncertainty | MDC | TPU | RL | Units | PF | DF | Analyst | Date | Time | Batch | Mtd. |
|----------------------------------------------------------------|-----------|--------|-------------|-------|----------|------|-------|----|----|---------|----------|------|---------|------|
| Rad Gas Flow Proportional Counting | | | | | | | | | | | | | | |
| <i>GFPC Ra228, Liquid "As Received"</i> | | | | | | | | | | | | | | |
| Radium-228 | U | 0.986 | +/-1.17 | 1.98 | +/-1.20 | 3.00 | pCi/L | | | JE1 | 10/16/23 | 0822 | 2507338 | 1 |
| <i>Radium-226+Radium-228 Calculation "See Parent Products"</i> | | | | | | | | | | | | | | |
| Radium-226+228 Sum | U | 1.64 | +/-1.29 | 1.98 | +/-1.32 | | pCi/L | | | NXL1 | 10/23/23 | 1409 | 2508821 | 2 |
| Rad Radium-226 | | | | | | | | | | | | | | |
| <i>Lucas Cell, Ra226, Liquid "As Received"</i> | | | | | | | | | | | | | | |
| Radium-226 | | 0.652 | +/-0.529 | 0.587 | +/-0.545 | 1.00 | pCi/L | | | LXP1 | 10/23/23 | 0927 | 2508813 | 3 |

The following Analytical Methods were performed

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

| Surrogate/Tracer Recovery | Test | Batch ID | Recovery% | Acceptable Limits |
|---------------------------|----------------------------------|----------|-----------|-------------------|
| Barium-133 Tracer | GFPC Ra228, Liquid "As Received" | 2507338 | 61.9 | (15%-125%) |

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

Column headers are defined as follows:

- | | |
|---------------------------------------|-----------------------------------|
| DF: Dilution Factor | 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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Atlanta, Georgia 30308

Report Date: October 23, 2023

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceAPI

Client Sample ID: ARK-AP1PZ-10

Project: GPCC00100

Sample ID: 640870015

Client ID: GPCC001

Matrix: WG

Collect Date: 10-OCT-23

Receive Date: 11-OCT-23

Collector: Client

| Parameter | Qualifier | Result | Uncertainty | MDC | TPU | RL | Units | PF | DF | Analyst | Date | Time | Batch | Mtd. |
|----------------------------------------------------------------|-----------|--------|-------------|------|----------|------|-------|----|----|---------|----------|------|---------|------|
| Rad Gas Flow Proportional Counting | | | | | | | | | | | | | | |
| <i>GFPC Ra228, Liquid "As Received"</i> | | | | | | | | | | | | | | |
| Radium-228 | U | 1.06 | +/-0.958 | 1.53 | +/-0.995 | 3.00 | pCi/L | | | JE1 | 10/16/23 | 0822 | 2507338 | 1 |
| <i>Radium-226+Radium-228 Calculation "See Parent Products"</i> | | | | | | | | | | | | | | |
| Radium-226+228 Sum | | 11.6 | +/-2.32 | 1.53 | +/-2.85 | | pCi/L | | | NXL1 | 10/23/23 | 1409 | 2508821 | 2 |
| Rad Radium-226 | | | | | | | | | | | | | | |
| <i>Lucas Cell, Ra226, Liquid "As Received"</i> | | | | | | | | | | | | | | |
| Radium-226 | | 10.5 | +/-2.11 | 1.15 | +/-2.67 | 1.00 | pCi/L | | | LXP1 | 10/23/23 | 0927 | 2508813 | 3 |

The following Analytical Methods were performed

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

| Surrogate/Tracer Recovery | Test | Batch ID | Recovery% | Acceptable Limits |
|---------------------------|----------------------------------|----------|-----------|-------------------|
| Barium-133 Tracer | GFPC Ra228, Liquid "As Received" | 2507338 | 64.6 | (15%-125%) |

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

Column headers are defined as follows:

- | | |
|---------------------------------------|-----------------------------------|
| DF: Dilution Factor | 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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Report Date: October 23, 2023

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceAPI

Client Sample ID: ARK-AP1PZ-11

Project: GPCC00100

Sample ID: 640870016

Client ID: GPCC001

Matrix: WG

Collect Date: 10-OCT-23

Receive Date: 11-OCT-23

Collector: Client

| Parameter | Qualifier | Result | Uncertainty | MDC | TPU | RL | Units | PF | DF | Analyst | Date | Time | Batch | Mtd. |
|----------------------------------------------------------------|-----------|--------|-------------|-------|----------|------|-------|----|----|---------|----------|------|---------|------|
| Rad Gas Flow Proportional Counting | | | | | | | | | | | | | | |
| <i>GFPC Ra228, Liquid "As Received"</i> | | | | | | | | | | | | | | |
| Radium-228 | U | 0.798 | +/-1.05 | 1.78 | +/-1.07 | 3.00 | pCi/L | | | JE1 | 10/16/23 | 0814 | 2507338 | 1 |
| <i>Radium-226+Radium-228 Calculation "See Parent Products"</i> | | | | | | | | | | | | | | |
| Radium-226+228 Sum | U | 1.77 | +/-1.23 | 1.78 | +/-1.27 | | pCi/L | | | NXL1 | 10/23/23 | 1409 | 2508821 | 2 |
| Rad Radium-226 | | | | | | | | | | | | | | |
| <i>Lucas Cell, Ra226, Liquid "As Received"</i> | | | | | | | | | | | | | | |
| Radium-226 | | 0.977 | +/-0.648 | 0.813 | +/-0.685 | 1.00 | pCi/L | | | LXP1 | 10/23/23 | 0927 | 2508813 | 3 |

The following Analytical Methods were performed

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

| Surrogate/Tracer Recovery | Test | Batch ID | Recovery% | Acceptable Limits |
|---------------------------|----------------------------------|----------|-----------|-------------------|
| Barium-133 Tracer | GFPC Ra228, Liquid "As Received" | 2507338 | 76.2 | (15%-125%) |

Notes:

The MDC is a sample specific MDC.

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

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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Atlanta, Georgia 30308

Report Date: October 23, 2023

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceAPI

Client Sample ID: ARK-AP1-FD-02

Project: GPCC00100

Sample ID: 640870017

Client ID: GPCC001

Matrix: WG

Collect Date: 10-OCT-23

Receive Date: 11-OCT-23

Collector: Client

| Parameter | Qualifier | Result | Uncertainty | MDC | TPU | RL | Units | PF | DF | Analyst | Date | Time | Batch | Mtd. |
|----------------------------------------------------------------|-----------|--------|-------------|-------|----------|------|-------|----|----|---------|----------|------|---------|------|
| Rad Gas Flow Proportional Counting | | | | | | | | | | | | | | |
| <i>GFPC Ra228, Liquid "As Received"</i> | | | | | | | | | | | | | | |
| Radium-228 | | 1.92 | +/-1.03 | 1.44 | +/-1.15 | 3.00 | pCi/L | | | JE1 | 10/16/23 | 0814 | 2507338 | 1 |
| <i>Radium-226+Radium-228 Calculation "See Parent Products"</i> | | | | | | | | | | | | | | |
| Radium-226+228 Sum | | 3.72 | +/-1.32 | 1.44 | +/-1.48 | | pCi/L | | | NXL1 | 10/23/23 | 1409 | 2508821 | 2 |
| Rad Radium-226 | | | | | | | | | | | | | | |
| <i>Lucas Cell, Ra226, Liquid "As Received"</i> | | | | | | | | | | | | | | |
| Radium-226 | | 1.80 | +/-0.818 | 0.633 | +/-0.927 | 1.00 | pCi/L | | | LXP1 | 10/23/23 | 0927 | 2508813 | 3 |

The following Analytical Methods were performed

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

| Surrogate/Tracer Recovery | Test | Batch ID | Recovery% | Acceptable Limits |
|---------------------------|----------------------------------|----------|-----------|-------------------|
| Barium-133 Tracer | GFPC Ra228, Liquid "As Received" | 2507338 | 64.7 | (15%-125%) |

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

Column headers are defined as follows:

- | | |
|---------------------------------------|-----------------------------------|
| DF: Dilution Factor | 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 | |

GEL LABORATORIES LLC

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

Certificate of Analysis

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

Atlanta, Georgia 30308

Report Date: October 23, 2023

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceAPI

Client Sample ID: ARK-AP1PZ-9

Project: GPCC00100

Sample ID: 640870018

Client ID: GPCC001

Matrix: WG

Collect Date: 11-OCT-23

Receive Date: 11-OCT-23

Collector: Client

| Parameter | Qualifier | Result | Uncertainty | MDC | TPU | RL | Units | PF | DF | Analyst | Date | Time | Batch | Mtd. |
|----------------------------------------------------------------|-----------|--------|-------------|-------|---------|------|-------|----|----|---------|----------|------|---------|------|
| Rad Gas Flow Proportional Counting | | | | | | | | | | | | | | |
| <i>GFPC Ra228, Liquid "As Received"</i> | | | | | | | | | | | | | | |
| Radium-228 | U | 2.25 | +/-1.57 | 2.47 | +/-1.67 | 3.00 | pCi/L | | | JE1 | 10/16/23 | 0815 | 2507338 | 1 |
| <i>Radium-226+Radium-228 Calculation "See Parent Products"</i> | | | | | | | | | | | | | | |
| Radium-226+228 Sum | | 5.37 | +/-1.91 | 2.47 | +/-2.12 | | pCi/L | | | NXL1 | 10/23/23 | 1409 | 2508821 | 2 |
| Rad Radium-226 | | | | | | | | | | | | | | |
| <i>Lucas Cell, Ra226, Liquid "As Received"</i> | | | | | | | | | | | | | | |
| Radium-226 | | 3.12 | +/-1.09 | 0.740 | +/-1.30 | 1.00 | pCi/L | | | LXP1 | 10/23/23 | 0927 | 2508813 | 3 |

The following Analytical Methods were performed

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

| Surrogate/Tracer Recovery | Test | Batch ID | Recovery% | Acceptable Limits |
|---------------------------|----------------------------------|----------|-----------|-------------------|
| Barium-133 Tracer | GFPC Ra228, Liquid "As Received" | 2507338 | 62.6 | (15%-125%) |

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

Column headers are defined as follows:

- | | |
|---------------------------------------|-----------------------------------|
| DF: Dilution Factor | 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 | |

**Radiochemistry
Technical Case Narrative
Georgia Power Company
SDG #: 640870**

Product: Radium-226+Radium-228 Calculation

Analytical Method: Calculation

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

Analytical Batch: 2508821

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

| <u>GEL Sample ID#</u> | <u>Client Sample Identification</u> |
|------------------------------|--------------------------------------------|
| 640870001 | ARK-APIGWA-1 |
| 640870002 | ARK-API-FB-01 |
| 640870003 | ARK-APIGWA-2 |
| 640870004 | ARK-API-EB-01 |
| 640870005 | ARK-APIPZ-1 |
| 640870006 | ARK-APIPZ-2 |
| 640870007 | ARK-API-FD-01 |
| 640870008 | ARK-APIPZ-4 |
| 640870009 | ARK-API-FB-02 |
| 640870010 | ARK-APIPZ-3 |
| 640870011 | ARK-APIPZ-8 |
| 640870012 | ARK-APIPZ-5 |
| 640870013 | ARK-API-EB-02 |
| 640870014 | ARK-APIPZ-7 |
| 640870015 | ARK-APIPZ-10 |
| 640870016 | ARK-APIPZ-11 |
| 640870017 | ARK-API-FD-02 |
| 640870018 | ARK-APIPZ-9 |

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: 2507338

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

| <u>GEL Sample ID#</u> | <u>Client Sample Identification</u> |
|------------------------------|--------------------------------------------|
| 640870001 | ARK-APIGWA-1 |

| | |
|------------|------------------------------------------------|
| 640870002 | ARK-API-FB-01 |
| 640870003 | ARK-APIGWA-2 |
| 640870004 | ARK-API-EB-01 |
| 640870005 | ARK-APIPZ-1 |
| 640870006 | ARK-APIPZ-2 |
| 640870007 | ARK-API-FD-01 |
| 640870008 | ARK-APIPZ-4 |
| 640870009 | ARK-API-FB-02 |
| 640870010 | ARK-APIPZ-3 |
| 640870011 | ARK-APIPZ-8 |
| 640870012 | ARK-APIPZ-5 |
| 640870013 | ARK-API-EB-02 |
| 640870014 | ARK-APIPZ-7 |
| 640870015 | ARK-APIPZ-10 |
| 640870016 | ARK-APIPZ-11 |
| 640870017 | ARK-API-FD-02 |
| 640870018 | ARK-APIPZ-9 |
| 1205544152 | Method Blank (MB) |
| 1205544153 | 640870001(ARK-APIGWA-1) Sample Duplicate (DUP) |
| 1205544154 | Laboratory Control Sample (LCS) |

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

Data Summary:

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

Technical Information

Recounts

Sample 1205544152 (MB) was recounted due to a suspected blank false positive. The recount is reported.

Product: Lucas Cell, Ra226, Liquid

Analytical Method: EPA 903.1 Modified

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

Analytical Batch: 2508813

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

| <u>GEL Sample ID#</u> | <u>Client Sample Identification</u> |
|------------------------------|--------------------------------------------|
| 640870001 | ARK-APIGWA-1 |
| 640870002 | ARK-API-FB-01 |
| 640870003 | ARK-APIGWA-2 |
| 640870004 | ARK-API-EB-01 |
| 640870005 | ARK-APIPZ-1 |
| 640870006 | ARK-APIPZ-2 |
| 640870007 | ARK-API-FD-01 |
| 640870008 | ARK-APIPZ-4 |
| 640870009 | ARK-API-FB-02 |
| 640870010 | ARK-APIPZ-3 |

| | |
|------------|------------------------------------------------|
| 640870011 | ARK-APIPZ-8 |
| 640870012 | ARK-APIPZ-5 |
| 640870013 | ARK-API-EB-02 |
| 640870014 | ARK-APIPZ-7 |
| 640870015 | ARK-APIPZ-10 |
| 640870016 | ARK-APIPZ-11 |
| 640870017 | ARK-API-FD-02 |
| 640870018 | ARK-APIPZ-9 |
| 1205546778 | Method Blank (MB) |
| 1205546779 | 640870001(ARK-APIGWA-1) Sample Duplicate (DUP) |
| 1205546780 | 640870001(ARK-APIGWA-1) Matrix Spike (MS) |
| 1205546781 | 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, 1205546780 (ARK-APIGWA-1MS), 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.

GEL LABORATORIES LLC

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

Report Date: October 23, 2023
Page 1 of 2

Atlanta, Georgia

Contact: Joju Abraham

Workorder: 640870

| Parmname | NOM | Sample Qual | QC | Units | RPD% | REC% | Range | Anlst | Date Time |
|---------------------|---------------|------------------|----|------------------|-------|------|-----------------|-------|---------------|
| Rad Gas Flow | | | | | | | | | |
| Batch | 2507338 | | | | | | | | |
| QC1205544153 | 640870001 DUP | | | | | | | | |
| Radium-228 | | 2.41 | U | | | | | | |
| | | Uncert: +/-1.09 | | 1.61 | pCi/L | 39.9 | (0% - 100%) | JE1 | 10/16/2309:05 |
| | | TPU: +/-1.25 | | +/-1.09 | | | | | |
| | | | | +/-1.17 | | | | | |
| QC1205544154 | LCS | | | | | | | | |
| Radium-228 | 76.7 | | | | | | | | |
| | | | | 67.0 | pCi/L | | 87.3 (75%-125%) | JE1 | 10/16/2309:05 |
| | | | | Uncert: +/-4.44 | | | | | |
| | | | | TPU: +/-17.7 | | | | | |
| QC1205544152 | MB | | | | | | | | |
| Radium-228 | | | U | | | | | | |
| | | | | 2.84 | pCi/L | | | JE1 | 10/16/2310:40 |
| | | | | Uncert: +/-1.87 | | | | | |
| | | | | TPU: +/-2.00 | | | | | |
| Rad Ra-226 | | | | | | | | | |
| Batch | 2508813 | | | | | | | | |
| QC1205546779 | 640870001 DUP | | | | | | | | |
| Radium-226 | | 1.90 | | | | | | | |
| | | Uncert: +/-0.801 | | 2.13 | pCi/L | 11.5 | (0% - 100%) | LXP1 | 10/23/2310:02 |
| | | TPU: +/-0.848 | | +/-0.886 | | | | | |
| | | | | +/-0.957 | | | | | |
| QC1205546781 | LCS | | | | | | | | |
| Radium-226 | 27.1 | | | | | | | | |
| | | | | 23.8 | pCi/L | | 88 (75%-125%) | LXP1 | 10/23/2310:02 |
| | | | | Uncert: +/-2.72 | | | | | |
| | | | | TPU: +/-6.04 | | | | | |
| QC1205546778 | MB | | | | | | | | |
| Radium-226 | | | U | | | | | | |
| | | | | 0.468 | pCi/L | | | LXP1 | 10/23/2309:27 |
| | | | | Uncert: +/-0.519 | | | | | |
| | | | | TPU: +/-0.526 | | | | | |
| QC1205546780 | 640870001 MS | | | | | | | | |
| Radium-226 | 135 | 1.90 | | | | | | | |
| | | | | 148 | pCi/L | | 109 (75%-125%) | LXP1 | 10/23/2310:02 |
| | | | | Uncert: +/-0.801 | | | | | |
| | | | | TPU: +/-0.848 | | | | | |

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

GEL LABORATORIES LLC

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

QC Summary

Workorder: 640870

Page 2 of 2

| Parmname | NOM | Sample Qual | QC | Units | RPD% | REC% | Range | Anlst | Date | Time |
|----------|-----|-------------|----|-------|------|------|-------|-------|------|------|
| UI | | | | | | | | | | |
| BD | | | | | | | | | | |
| h | | | | | | | | | | |
| R | | | | | | | | | | |
| ^ | | | | | | | | | | |
| N/A | | | | | | | | | | |
| ND | | | | | | | | | | |
| M | | | | | | | | | | |
| NJ | | | | | | | | | | |
| FA | | | | | | | | | | |
| UJ | | | | | | | | | | |
| Q | | | | | | | | | | |
| K | | | | | | | | | | |
| UL | | | | | | | | | | |
| L | | | | | | | | | | |
| N1 | | | | | | | | | | |
| Y | | | | | | | | | | |
| ** | | | | | | | | | | |
| M | | | | | | | | | | |
| J | | | | | | | | | | |

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 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.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

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

Page: 1 of 2
 Project # 175569434
 GEL Quote #: 5 Coolers
 QC Number (1):
 PO Number:
 Client Name: Georgia Power
 Project/Site Name: Plant Arkwright Ash Pond 1
 Address: 241 Ralph McGill Blvd SE, Atlanta, GA 30308
 Collected By: John Myer; Dylan Quintal
 Send Results To: jbraham@southernco.com EDD@stantec.com
 Cassidy.Sutherland@stantec.com

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

Chain of Custody and Analytical Request
 Chemistry | Radiochemistry | Radioassay | Specialty Analytics
 GEL Work Order Number: 640870
 GEL Project Manager: Erin Trent
 Phone # (937-344-6533)
 Fax:

Sample ID
 * For composites - indicate start and stop date/time

| Sample ID | *Date Collected (mm-dd-yy) | *Time Collected (Military (hhmm)) | QC Code (a) | Field Filtered (b) | Sample Matrix (c) | Radionuclide (if yes, please supply isotopic info.) | (7) Possible Hazards | Total number of containers | Should this sample be considered: | Sample Analysis Requested (5) (Fill in the number of containers for each test) | Preservative Type (6) | Comments |
|---------------|----------------------------|-----------------------------------|-------------|--------------------|-------------------|-----------------------------------------------------|----------------------|----------------------------|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|-----------------------------------|
| ARK-APIGWA-1 | 10-09-23 | 1345 | N | N | WG | | | 6 | | Ag (App. I) (6020B) [X] Metals App. III (6020B) [X] Alkalinity (300.0 R2.1) [X] TDS (SM Method) [X] Antions (Cl, F, Sulfate) (300.0 Rev. 2.1 1993) [X] Metals App. IV (6020B) [X] RAD 226-228 Cmbd [X] Na, Fe, Mn (6020B) [X] Metals Al, K, Mg [X] Mercury (740B) [X] | <-- Preservative Type (6) | (task_code: ARK-CCR-ASSMT-2023S1) |
| ARK-API-FB-01 | 10-09-23 | 1405 | FB | N | WQ | | | 6 | | | | |
| ARK-APIGWA-2 | 10-09-23 | 1430 | N | N | WG | | | 6 | | | | |
| ARK-API-EB-01 | 10-09-23 | 1500 | EB | N | WQ | | | 6 | | | | |
| ARK-APIPZ-1 | 10-09-23 | 1620 | N | N | WG | | | 6 | | | | |
| ARK-APIPZ-2 | 10-09-23 | 1700 | N | N | WG | | | 6 | | | | |
| ARK-API-FD-01 | 10-09-23 | NA | FD | N | WQ | | | 6 | | | | |
| ARK-APIPZ-4 | 10-10-23 | 0910 | N | N | WG | | | 6 | | | | |
| ARK-API-FB-02 | 10-10-23 | 0930 | FB | N | WQ | | | 6 | | | | |
| ARK-APIPZ-3 | 10-10-23 | 0930 | N | N | WG | | | 6 | | | | |

Chain of Custody Signatures

| Relinquished By (Signed) | Print Name | Date | Received by (signed) | Print Name | Date |
|--------------------------|------------|----------|----------------------|-----------------|----------|
| <i>[Signature]</i> | John Myer | 10/11/23 | <i>[Signature]</i> | Borden Williams | 10/11/23 |
| | | | <i>[Signature]</i> | | 10/11/23 |
| | | | | | 10/11/23 |

For sample shipping and delivery details, see Sa

1.) Chain of Custody Number = Client Determined
 2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite
 3.) Field Filtered: For liquid matrices, indicate with a Y - Y - for yes the sample was field filtered or - N - for sample was not field filtered.
 4.) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, W=Water, ML=Misc Liquid, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Faecal, N=Nasal
 5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).
 6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate. If no preservative is added = leave field blank
 7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
 As = Arsenic
 Ba = Barium
 Cd = Cadmium
 Cr = Chromium
 Pb = Lead

Hg = Mercury
Se = Selenium
Ag = Silver
MR = Misc. RCRA metals

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

TSCA Regulated
 PCB = Polychlorinated biphenyls

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

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

TAT Requested: Normal: [X] Rush: [] Specify: (Subject to Surcharge)
 Fax Results: [] Yes [X] No
 Select Deliverable: [] C of A [] QC Summary [] Level 1 [X] Level 2 [] Level 3 [] Level 4
 Additional Remarks:
 For Lab Receiving Use Only: Custody Seal Intact? [] Yes [] No Cooler Temp: 2 °C
 Sample Collection Time Zone: [X] Eastern [] Pacific [] Central [] Mountain [] Other:

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

GEL Laboratories LLC
 Chemistry | Radiochemistry | Radiobiology | Specialty Analytics
 2040 Savage Road
 Charleston, SC 29407
 Phone: (843) 556-8171
 Fax: (843) 766-1178
Chain of Custody and Analytical Request
GEL Project Manager: Erin Trent

GEL Work Order Number: _____
Client Name: Georgia Power
Project Site Name: Plant Arkwright Ash Pond 1
Address: 241 Ralph McGill Blvd SE, Atlanta, GA 30308
Collection By: John Myer; Dylan Quintal
Send Results To: jbraham@southemco.com EDD@stantec.com
 Cassidy.Sutherland@stantec.com
Sample ID: **40870**
** For composites - indicate start and stop date/time*

| Sample ID | *Date Collected (mm-dd-yy) | *Time Collected (Military) (hhmm) | QC Code (a) | Field Filtered (b) | Sample Matrix (c) | Should this sample be considered: | | Sample Analysis Requested (d) (Fill in the number of containers for each test) | | | | | | | | | | Comments (task code: ARK-CCR-ASSMT-2023S1) | | | | |
|----------------|----------------------------|-----------------------------------|-------------|--------------------|-------------------|-----------------------------------|-------------------------------|--------------------------------------------------------------------------------|----|---------------------|-------------------------|-----------------------------------------------|------------------------------------------------|------------------------|------------------|-----------------|--------------------------------------|--------------------------------------------|----|----|----|----|
| | | | | | | Yes, please supply isotopic info. | (7) Known or Possible Hazards | NI | NI | 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 App. IV (6020B) | RAD 226-228 Cmbd | Mercury (7470B) | Metals Al, K, Mg, Na, Fe, Mn (6020B) | | NI | NI | NI | NI |
| ARK-APIPZ-8 | 10-10-23 | 1155 | N | N | WG | | | 6 | X | X | X | X | X | X | | | | | | | | |
| ARK-APIPZ-5 | 10-10-23 | 1120 | N | N | WG | | | 6 | X | X | X | X | X | X | | | | | | | | |
| ARK-API1-EB-02 | 10-10-23 | 1210 | EB | N | WQ | | | 6 | X | X | X | X | X | X | | | | | | | | |
| ARK-APIPZ-7 | 10-10-23 | 1350 | N | N | WG | | | 6 | X | X | X | X | X | X | | | | | | | | |
| ARK-APIPZ-10 | 10-10-23 | 1420 | N | N | WG | | | 6 | X | X | X | X | X | X | | | | | | | | |
| ARK-APIPZ-11 | 10-10-23 | 1615 | N | N | WG | | | 6 | X | X | X | X | X | X | | | | | | | | |
| ARK-API-FD-02 | 10-10-23 | NA | FD | N | WQ | | | 6 | X | X | X | X | X | X | | | | | | | | |
| ARK-APIPZ-9 | 10-11-23 | 0820 | N | N | WG | | | 6 | X | X | X | X | X | X | | | | | | | | |

Chain of Custody Signatures
 Relinquished By (Signed) _____ Date _____
 Received by (signed) _____ Date _____
 Print Name _____
 Date _____
 Print Name _____
 Date _____
 TAT Requested: Normal: Rush: Specify: _____ (Subject to Surcharge)
 Fax Results: Yes No
 Select Deliverable: C of A QC Summary Level 1 Level 2 Level 3 Level 4
 Additional Remarks: _____
 For Lab Receiving Use Only: Custody Seal Intact? Yes No Cooler Temp: 2 °C
 Sample Collection Time Zone: Eastern Pacific Central Mountain Other: _____

For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)
 1.) Chain of Custody Number = Client Determined
 2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite
 3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.
 4.) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, W=Water, ML=Misc Liquid, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Faecal, N=Nasal
 5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).
 6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank
 7.) **KNOWN OR POSSIBLE HAZARDS**
Characteristics Hazards
 FL = Flammable/ignitable
 CO = Corrosive
 RE = Reactive
Listed Waste
 LW = Listed Waste
 (F, K, P and U-listed wastes.)
Waste code(s):
TSCA Regulated
 PCB = Polychlorinated biphenyls
RCRA Metals
 As = Arsenic Hg = Mercury
 Ba = Barium Se = Selenium
 Cd = Cadmium Ag = Silver
 Cr = Chromium MR = Misc. RCRA metals
 Pb = Lead
Other
 OT = Other / Unknown
 (i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:
Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

SAMPLE RECEIPT & REVIEW FORM

640870
640869

ET

Client: G P C C
 Received By: QG
 SDG/AR/COC/Work Order:
 Date Received: 10/11/23
 Carrier and Tracking Number
 Circle Applicable:
 FedEx Express FedEx Ground UPS Field Services Courier Other

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

| Sample Receipt Criteria | Yes | NA | No | Comments/Qualifiers (Required for Non-Conforming Items) |
|-----------------------------------------------------------------------------|-------------------------------------|--------------------------|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 Shipping containers received intact and sealed? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Circle Applicable: Seals broken Damaged container Leaking container Other (describe) |
| 2 Chain of custody documents included with shipment? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Circle Applicable: Client contacted and provided COC COC created upon receipt |
| 3 Samples requiring cold preservation within (0 ≤ 6 deg. C)?* | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Preservation Method: <u>Wet Ice</u> Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: <u>2°C</u> |
| 4 Daily check performed and passed on IR temperature gun? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Temperature Device Serial #: <u>IR1-23</u> Secondary Temperature Device Serial # (If Applicable): |
| 5 Sample containers intact and sealed? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Circle Applicable: Seals broken Damaged container Leaking container Other (describe) |
| 6 Samples requiring chemical preservation at proper pH? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Sample ID's and Containers Affected: If Preservation added, Lot#: |
| 7 Do any samples require Volatile Analysis? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 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? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | ID's and tests affected: |
| 9 Sample ID's on COC match ID's on bottles? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | ID's and containers affected: |
| 10 Date & time on COC match date & time on bottles? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 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? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Circle Applicable: No container count on COC Other (describe) |
| 12 Are sample containers identifiable as GEL provided by use of GEL labels? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 13 COC form is properly signed in relinquished/received sections? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Circle Applicable: Not relinquished Other (describe) |

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials AT Date 10/12/23 Page 1 of 1

List of current GEL Certifications as of 23 October 2023

| State | Certification |
|---------------------------|------------------------------|
| Alabama | 42200 |
| Alaska | 17-018 |
| Alaska Drinking Water | SC00012 |
| Arkansas | 88-00651 |
| CLIA | 42D0904046 |
| California | 2940 |
| Colorado | SC00012 |
| Connecticut | PH-0169 |
| DoD ELAP/ ISO17025 A2LA | 2567.01 |
| Florida NELAP | E87156 |
| Foreign Soils Permit | P330-15-00283, P330-15-00253 |
| Georgia | SC00012 |
| Georgia SDWA | 967 |
| Hawaii | SC00012 |
| Idaho | SC00012 |
| Illinois NELAP | 200029 |
| Indiana | C-SC-01 |
| Kansas NELAP | E-10332 |
| Kentucky SDWA | KY90129 |
| Kentucky Wastewater | KY90129 |
| Louisiana Drinking Water | LA024 |
| Louisiana NELAP | 03046 (AI33904) |
| Maine | 2023019 |
| Maryland | 270 |
| Massachusetts | M-SC012 |
| Massachusetts PFAS Approv | Letter |
| Michigan | 9976 |
| Mississippi | SC00012 |
| Nebraska | NE-OS-26-13 |
| Nevada | SC000122024-04 |
| 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 | T104704235-23-21 |
| Utah NELAP | SC000122022-37 |
| Vermont | VT87156 |
| Virginia NELAP | 460202 |
| Washington | C780 |



October 20, 2023

Kelley Sharpe
ARCADIS - Atlanta
2839 Paces Ferry Rd
STE 900
Atlanta, GA 30339

RE: Project: Plant Arkwright-CCR Ash Pond
Pace Project No.: 92691202

Dear Kelley Sharpe:

Enclosed are the analytical results for sample(s) received by the laboratory on October 03, 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 - Greensburg

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

Sincerely,

Maiya Parks
maiya.parks@pacelabs.com
770-734-4205
Project Manager

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Jordan Gamble, ARCADIS - Atlanta
Ben Hodges, Georgia Power-CCR
Warren Johnson, ARCADIS - Atlanta
Laura Midkiff, Georgia Power
Noelia Muskus Ruiz, Georgia Power
Charles Steele, Arcadis - Atlanta
Tina Sullivan, ERM



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant Arkwright-CCR Ash Pond

Pace Project No.: 92691202

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601

ANAB DOD-ELAP Rad Accreditation #: L2417

ANABISO/IEC 17025:2017 Rad Cert#: L24170

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California Certification #: 2950

Colorado Certification #: PA01547

Connecticut Certification #: PH-0694

EPA Region 4 DW Rad

Florida/TNI Certification #: E87683

Georgia Certification #: C040

Guam Certification

Hawaii Certification

Idaho Certification

Illinois Certification

Indiana Certification

Iowa Certification #: 391

Kansas Certification #: E-10358

Kentucky Certification #: KY90133

KY WW Permit #: KY0098221

KY WW Permit #: KY0000221

Louisiana DHH/TNI Certification #: LA010

Louisiana DEQ/TNI Certification #: 04086

Maine Certification #: 2023021

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification #: 9991

Missouri Certification #: 235

Montana Certification #: Cert0082

Nebraska Certification #: NE-OS-29-14

Nevada Certification #: PA014572023-03

New Hampshire/TNI Certification #: 297622

New Jersey/TNI Certification #: PA051

New Mexico Certification #: PA01457

New York/TNI Certification #: 10888

North Carolina Certification #: 42706

North Dakota Certification #: R-190

Ohio EPA Rad Approval: #41249

Oregon/TNI Certification #: PA200002-015

Pennsylvania/TNI Certification #: 65-00282

Puerto Rico Certification #: PA01457

Rhode Island Certification #: 65-00282

South Dakota Certification

Tennessee Certification #: TN02867

Texas/TNI Certification #: T104704188-22-18

Utah/TNI Certification #: PA014572223-14

USDA Soil Permit #: 525-23-67-77263

Vermont Dept. of Health: ID# VT-0282

Virgin Island/PADEP Certification

Virginia/VELAP Certification #: 460198

Washington Certification #: C868

West Virginia DEP Certification #: 143

West Virginia DHHR Certification #: 9964C

Wisconsin Approve List for Rad

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SAMPLE SUMMARY

Project: Plant Arkwright-CCR Ash Pond
Pace Project No.: 92691202

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|-------------|-------------|--------|----------------|----------------|
| 92691202001 | ARK-BC-0.3 | Water | 10/03/23 12:45 | 10/03/23 15:46 |
| 92691202002 | ARK-BC-0.1 | Water | 10/03/23 11:21 | 10/03/23 15:46 |
| 92691202003 | ARK-OR-0.8 | Water | 10/03/23 09:35 | 10/03/23 15:46 |
| 92691202004 | ARK-OR-0.1 | Water | 10/03/23 11:50 | 10/03/23 15:46 |
| 92691202005 | ARK-OR-0.3 | Water | 10/03/23 10:12 | 10/03/23 15:46 |
| 92691202006 | ARK-OR+0.25 | Water | 10/03/23 12:12 | 10/03/23 15:46 |

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SAMPLE ANALYTE COUNT

Project: Plant Arkwright-CCR Ash Pond

Pace Project No.: 92691202

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|-------------|-------------|--------------------------|----------|-------------------|------------|
| 92691202001 | ARK-BC-0.3 | EPA 903.1 | MAR1 | 1 | PASI-PA |
| | | EPA 904.0 | ZPC | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| 92691202002 | ARK-BC-0.1 | EPA 903.1 | MAR1 | 1 | PASI-PA |
| | | EPA 904.0 | ZPC | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| 92691202003 | ARK-OR-0.8 | EPA 903.1 | MAR1 | 1 | PASI-PA |
| | | EPA 904.0 | ZPC | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| 92691202004 | ARK-OR-0.1 | EPA 903.1 | MAR1 | 1 | PASI-PA |
| | | EPA 904.0 | ZPC | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| 92691202005 | ARK-OR-0.3 | EPA 903.1 | MAR1 | 1 | PASI-PA |
| | | EPA 904.0 | ZPC | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| 92691202006 | ARK-OR+0.25 | EPA 903.1 | MAR1 | 1 | PASI-PA |
| | | EPA 904.0 | ZPC | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |

PASI-PA = Pace Analytical Services - Greensburg

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Arkwright-CCR Ash Pond

Pace Project No.: 92691202

Sample: ARK-BC-0.3 **Lab ID: 92691202001** Collected: 10/03/23 12:45 Received: 10/03/23 15:46 Matrix: Water
 PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|---------------------------------------|----------------------------------------------------|-------|----------------|------------|------|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 903.1 | 0.0706 ± 0.571 (1.12) C:NA T:90% | pCi/L | 10/19/23 13:13 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 904.0 | 0.231 ± 0.383 (0.834) C:80% T:79% | pCi/L | 10/18/23 11:45 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | 0.302 ± 0.954 (1.95) | pCi/L | 10/20/23 16:34 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Arkwright-CCR Ash Pond

Pace Project No.: 92691202

Sample: ARK-BC-0.1 **Lab ID: 92691202002** Collected: 10/03/23 11:21 Received: 10/03/23 15:46 Matrix: Water
 PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|---------------------------------------|----------------------------------------------------|-------|----------------|------------|------|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 903.1 | -0.134 ± 0.490 (1.06) C:NA T:92% | pCi/L | 10/19/23 13:13 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 904.0 | 0.297 ± 0.399 (0.854) C:77% T:84% | pCi/L | 10/18/23 11:45 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | 0.297 ± 0.889 (1.91) | pCi/L | 10/20/23 16:34 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Arkwright-CCR Ash Pond

Pace Project No.: 92691202

Sample: ARK-OR-0.8 **Lab ID: 92691202003** Collected: 10/03/23 09:35 Received: 10/03/23 15:46 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|----------------------------------------------------|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 903.1 | -0.123 ± 0.295 (0.737) C:NA T:96% | pCi/L | 10/19/23 13:13 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 904.0 | 0.106 ± 0.368 (0.829) C:77% T:76% | pCi/L | 10/18/23 11:46 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.106 ± 0.663 (1.57) | pCi/L | 10/20/23 16:34 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Arkwright-CCR Ash Pond

Pace Project No.: 92691202

Sample: ARK-OR-0.1 **Lab ID: 92691202004** Collected: 10/03/23 11:50 Received: 10/03/23 15:46 Matrix: Water
 PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|----------------------------------------------------|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 903.1 | 0.000 ± 0.567 (1.15) C:NA T:90% | pCi/L | 10/19/23 13:13 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 904.0 | 0.549 ± 0.366 (0.700) C:79% T:83% | pCi/L | 10/18/23 11:46 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.549 ± 0.933 (1.85) | pCi/L | 10/20/23 16:34 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Arkwright-CCR Ash Pond

Pace Project No.: 92691202

Sample: ARK-OR-0.3 **Lab ID: 92691202005** Collected: 10/03/23 10:12 Received: 10/03/23 15:46 Matrix: Water
 PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|----------------------------------------------------|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 903.1 | 0.000 ± 0.432 (0.913) C:NA T:92% | pCi/L | 10/19/23 13:13 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 904.0 | 0.160 ± 0.333 (0.734) C:81% T:83% | pCi/L | 10/18/23 11:46 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.160 ± 0.765 (1.65) | pCi/L | 10/20/23 16:34 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Arkwright-CCR Ash Pond

Pace Project No.: 92691202

Sample: ARK-OR+0.25 **Lab ID: 92691202006** Collected: 10/03/23 12:12 Received: 10/03/23 15:46 Matrix: Water
 PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|----------------------------------------------------|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 903.1 | 0.000 ± 0.464 (0.950) C:NA T:91% | pCi/L | 10/19/23 13:13 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 904.0 | 0.187 ± 0.344 (0.754) C:80% T:77% | pCi/L | 10/18/23 11:46 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.187 ± 0.808 (1.70) | pCi/L | 10/20/23 16:34 | 7440-14-4 | |

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Arkwright-CCR Ash Pond

Pace Project No.: 92691202

QC Batch: 620910

Analysis Method: EPA 904.0

QC Batch Method: EPA 904.0

Analysis Description: 904.0 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92691202001, 92691202002, 92691202003, 92691202004, 92691202005, 92691202006

METHOD BLANK: 3026015

Matrix: Water

Associated Lab Samples: 92691202001, 92691202002, 92691202003, 92691202004, 92691202005, 92691202006

| Parameter | Act ± Unc (MDC) Carr Trac | Units | Analyzed | Qualifiers |
|------------|-----------------------------------|-------|----------------|------------|
| Radium-228 | 0.112 ± 0.300 (0.672) C:79% T:87% | pCi/L | 10/18/23 11:43 | |

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Arkwright-CCR Ash Pond

Pace Project No.: 92691202

QC Batch: 620909

Analysis Method: EPA 903.1

QC Batch Method: EPA 903.1

Analysis Description: 903.1 Radium-226

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92691202001, 92691202002, 92691202003, 92691202004, 92691202005, 92691202006

METHOD BLANK: 3026014

Matrix: Water

Associated Lab Samples: 92691202001, 92691202002, 92691202003, 92691202004, 92691202005, 92691202006

| Parameter | Act ± Unc (MDC) Carr Trac | Units | Analyzed | Qualifiers |
|------------|----------------------------------|-------|----------------|------------|
| Radium-226 | 0.504 ± 0.400 (0.520) C:NA T:93% | pCi/L | 10/19/23 13:00 | |

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

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Plant Arkwright-CCR Ash Pond

Pace Project No.: 92691202

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.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Arkwright-CCR Ash Pond

Pace Project No.: 92691202

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|-------------|--------------------------|----------|-------------------|------------------|
| 92691202001 | ARK-BC-0.3 | EPA 903.1 | 620909 | | |
| 92691202002 | ARK-BC-0.1 | EPA 903.1 | 620909 | | |
| 92691202003 | ARK-OR-0.8 | EPA 903.1 | 620909 | | |
| 92691202004 | ARK-OR-0.1 | EPA 903.1 | 620909 | | |
| 92691202005 | ARK-OR-0.3 | EPA 903.1 | 620909 | | |
| 92691202006 | ARK-OR+0.25 | EPA 903.1 | 620909 | | |
| 92691202001 | ARK-BC-0.3 | EPA 904.0 | 620910 | | |
| 92691202002 | ARK-BC-0.1 | EPA 904.0 | 620910 | | |
| 92691202003 | ARK-OR-0.8 | EPA 904.0 | 620910 | | |
| 92691202004 | ARK-OR-0.1 | EPA 904.0 | 620910 | | |
| 92691202005 | ARK-OR-0.3 | EPA 904.0 | 620910 | | |
| 92691202006 | ARK-OR+0.25 | EPA 904.0 | 620910 | | |
| 92691202001 | ARK-BC-0.3 | Total Radium Calculation | 623972 | | |
| 92691202002 | ARK-BC-0.1 | Total Radium Calculation | 623972 | | |
| 92691202003 | ARK-OR-0.8 | Total Radium Calculation | 623972 | | |
| 92691202004 | ARK-OR-0.1 | Total Radium Calculation | 623972 | | |
| 92691202005 | ARK-OR-0.3 | Total Radium Calculation | 623972 | | |
| 92691202006 | ARK-OR+0.25 | Total Radium Calculation | 623972 | | |

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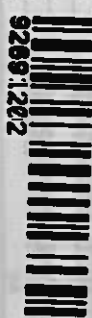
CHAIN-OF-CUSTODY / Analytical Request Document
 The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A
 Required Client Information:
 Company: ARCADIS - Atlanta
 Address: 2839 Paces Ferry Rd
 Atlanta, GA 30339
 Email: kelly.sharp@arcadis.com
 Phone: (770) 584-6584
 Requested Due Date: 5/29/12

Section B
 Required Project Information:
 Report To: Kelly Sharp, Warren Johnson
 Copy To: Ben Hodges, Joli Abraham
 Purchase Order #: GPC6247-0003
 Project Name: Plant Antwerp/CCR-Ash Pond Closure
 Project #:

Section C
 Invoice Information:
 Attention:
 Company Name:
 Address:
 Pace Project Manager:
 Pace Profile #: 15836

WO#: 92691202



One Character per box. (A-Z, 0-9 /, -)
Sample IDs must be unique

SAMPLE ID

MATRIX: Drinking Water, Wastewater, Wastewater, Product, Sediment, Other, Tissue
 CODE: DW, WWT, WW, P, S, OC, WP, AP, OT, TS

| ITEM # | MATRIX CODE | SAMPLE TYPE | DATE | TIME | DATE | TIME | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Preservatives | | | | | | | Analytes That | | | | | | | Residual Chlorine (Y/N) | | |
|--------|-------------|-------------|------|-------|------|------|---------------------------|-----------------|---------------|-------|-------|-----|------|---------|----------|---------------|-------------------------|------------|-----|-------------------------|------------------------------|--------------------|-------------------------|----------------|--|
| | | | | | | | | | COLLECTED | | START | | END | | Y/N | | | | | | | | | | |
| | | | | | | | | | Unpreserved | H2SO4 | HNO3 | HCl | NaOH | Na2S2O3 | Methanol | Other | Total/Bicarb Alkalinity | Cl, F, SO4 | TDS | App. III Metals - B, Ca | App. IV Metals (Client List) | Metals - Mg, Na, K | | Radium 226/228 | |
| 1 | WGG | WGG | 5/23 | 12:45 | | | | 5 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| 2 | WGG | WGG | 5/23 | 11:21 | | | | 5 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| 3 | WGG | WGG | 5/23 | 09:35 | | | | 5 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| 4 | WGG | WGG | 5/23 | 11:50 | | | | 5 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| 5 | WGG | WGG | 5/25 | 10:12 | | | | 5 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| 6 | WGG | WGG | 5/25 | 12:12 | | | | 5 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |

| ADDITIONAL COMMENTS | | | | REQUISITION / APPROPRIATION | | | | ACCREDITED / AFFILIATION | | | | SAMPLE CONDITIONS | | | |
|---------------------------------------------------------------|-------|-------|-------|-----------------------------|-------|-------|-------|--------------------------|------|------|-----------|-----------------------|-----------------------------|----------------------|--|
| APP. IV - Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Ti + Hg | DATE | TIME | DATE | TIME | DATE | TIME | DATE | TIME | DATE | TIME | TEMP in C | Received on ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N) | |
| ARK-CCR-ASSMT-202192 1003 | | | | | | | | | | | | | | | |
| ARK-CCR-ASSMT-202192 1003 | 10/23 | 15:46 | 11/23 | 15:46 | 12/13 | 15:46 | 12/13 | 15:46 | | | | | | | |

SAMPLER NAME AND SIGNATURE:
 PRINT NAME OF SAMPLER:
 SIGNATURE OF SAMPLER:
 DATE SIGNED:



DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

atory receiving samples:

ville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition on Receipt Client Name: Arcadis - Atlanta

Project #:

WO#: 92691202

PM: MP

Due Date: 10/25/23

CLIENT: GA-ArcadAtI

Commercial Fed Ex UPS USPS Client Pace Other: _____

Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: 10-3-23 JCC

Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

Yes No N/A

IR Gun ID: 083 Type of Ice: Wet Blue None

Temp: 3.3 Correction Factor: Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C

Samples out of temp criteria. Samples on ice, cooling process has begun

Temp Corrected (°C): 3.3

Regulated Soil (N/A, water sample)

Do samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? Yes No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

Comments/Discrepancy:

| | | |
|---------------------------------------------|--------------------------------------------------------------------------------------------------|----|
| Main of Custody Present? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 1. |
| Samples Arrived within Hold Time? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 2. |
| Short Hold Time Analysis (<72 hr.)? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 3. |
| Flush Turn Around Time Requested? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 4. |
| Sufficient Volume? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 5. |
| Correct Containers Used? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 6. |
| -Pace Containers Used? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | |
| Containers Intact? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 7. |
| Dissolved analysis: Samples Field Filtered? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 8. |
| Sample Labels Match COC? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 9. |

-Includes Date/Time/ID/Analysis Matrix: W

Headspace in VOA Vials (>5-6mm)? Yes No N/A 10.

Flip Blank Present? Yes No N/A 11.

Flip Blank Custody Seals Present? Yes No N/A

Field Data Required? Yes No

EVENTS/SAMPLE DISCREPANCY

Lot ID of split containers:

NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____



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.

Project #

WO#: 92691202

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

PM: MP

Due Date: 10/25/23

**Bottom half of box is to list number of bottles

CLIENT: GA-ArcadAtI

***Check all unpreserved Nitrates for chlorine

| Item# | BP4U-125 mL Plastic Unpreserved (N/A) (Cl-) | BP3U-250 mL Plastic Unpreserved (N/A) | BP2U-500 mL Plastic Unpreserved (N/A) | BP1U-1 liter Plastic Unpreserved (N/A) | BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-) | BP3N-250 mL plastic HNO3 (pH < 2) | BP4Z-125 mL Plastic ZN Acetate & NaOH (>9) | BP4B-125 mL Plastic NaOH (pH > 12) (Cl-) | WGFL-Wide-mouthed Glass jar Unpreserved | AG1U-1 liter Amber Unpreserved (N/A) (Cl-) | AG1H-1 liter Amber HCl (pH < 2) | AG3U-250 mL Amber Unpreserved (N/A) (Cl-) | AG1S-1 liter Amber H2SO4 (pH < 2) | AG3S-250 mL Amber H2SO4 (pH < 2) | DG94-40 mL Amber NH4Cl (N/A)(Cl-) | DG9H-40 mL VOA HCl (N/A) | VG9T-40 mL VOA Na2S2O3 (N/A) | VG9U-40 mL VOA Unpreserved (N/A) | DG9V-40 mL VOA H3PO4 (N/A) | KP7U-50 mL Plastic Unpreserved (N/A) | V/GK (3 vials per kit)-VPH/Gas kit (N/A) | SP5T-125 mL Sterile Plastic (N/A - lab) | SP2T-250 mL Sterile Plastic (N/A - lab) | BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7) | AG0U-100 mL Amber Unpreserved (N/A) (Cl-) | VSGU-20 mL Scintillation vials (N/A) | DG9U-40 mL Amber Unpreserved vials (N/A) | |
|-------|---------------------------------------------|---------------------------------------|---------------------------------------|----------------------------------------|------------------------------------------|-----------------------------------|--------------------------------------------|------------------------------------------|-----------------------------------------|--------------------------------------------|---------------------------------|-------------------------------------------|-----------------------------------|----------------------------------|-----------------------------------|--------------------------|------------------------------|----------------------------------|----------------------------|--------------------------------------|------------------------------------------|-----------------------------------------|-----------------------------------------|-----------------------------------------|-------------------------------------------|--------------------------------------|------------------------------------------|--|
| 1 | | 2 | | | | 1 | | | | | | | | | | | | | | | | | | | | | | |
| 2 | | 2 | | | | 1 | | | | | | | | | | | | | | | | | | | | | | |
| 3 | | 2 | | | | 1 | | | | | | | | | | | | | | | | | | | | | | |
| 4 | | 2 | | | | 1 | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | 2 | | | | 1 | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | 2 | | | | 1 | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

MIRANDA SPIN

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).



November 07, 2023

Kelley Sharpe
ARCADIS - Atlanta
2839 Paces Ferry Rd
STE 900
Atlanta, GA 30339

RE: Project: Plant Arkwright-CCR Ash Pond-Revised Report
Pace Project No.: 92691209

Dear Kelley Sharpe:

Enclosed are the analytical results for sample(s) received by the laboratory on October 03, 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

Rev. 1 - This replaces the November 3, 2023 final report. Due to lab error, this report was revised to update the 6010 Metals list reported for sample 92691209-001 (ARK-BC-0.3). No other changes were made to this report.

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

Sincerely,

Maiya Parks
maiya.parks@pacelabs.com
770-734-4205
Project Manager

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Jordan Gamble, ARCADIS - Atlanta
Ben Hodges, Georgia Power-CCR
Warren Johnson, ARCADIS - Atlanta
Laura Midkiff, Georgia Power
Noelia Muskus Ruiz, Georgia Power
Tina Sullivan, ERM



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant Arkwright-CCR Ash Pond-Revised Report

Pace Project No.: 92691209

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804

Florida/NELAP Certification #: E87648

North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40

South Carolina Laboratory ID: 99030

South Carolina Certification #: 99030001

Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092

Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812

North Carolina Certification #: 381

South Carolina Certification #: 98011001

Virginia Certification #: 460204

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Plant Arkwright-CCR Ash Pond-Revised Report
Pace Project No.: 92691209

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|-------------|-------------|--------|----------------|----------------|
| 92691209001 | ARK-BC-0.3 | Water | 10/03/23 12:45 | 10/03/23 15:46 |
| 92691209002 | ARK-BC-0.1 | Water | 10/03/23 11:21 | 10/03/23 15:46 |
| 92691209003 | ARK-OR-0.8 | Water | 10/03/23 09:55 | 10/03/23 15:46 |
| 92691209004 | ARK-OR-0.1 | Water | 10/03/23 11:50 | 10/03/23 15:46 |
| 92691209005 | ARK-OR-0.3 | Water | 10/03/23 10:12 | 10/03/23 15:46 |
| 92691209006 | ARK-OR+0.25 | Water | 10/03/23 12:12 | 10/03/23 15:46 |

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SAMPLE ANALYTE COUNT

Project: Plant Arkwright-CCR Ash Pond-Revised Report

Pace Project No.: 92691209

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|-------------|-------------|---------------|----------|-------------------|------------|
| 92691209001 | ARK-BC-0.3 | EPA 6010D | DRB | 5 | PASI-GA |
| | | EPA 6020B | CW1 | 12 | PASI-GA |
| | | EPA 7470A | VB | 1 | PASI-GA |
| | | SM 2540C-2015 | DL1 | 1 | PASI-GA |
| | | SM 2320B-2011 | YEG | 2 | PASI-A |
| | | EPA 9056A | CDC | 3 | PASI-A |
| 92691209002 | ARK-BC-0.1 | EPA 6010D | DRB | 5 | PASI-GA |
| | | EPA 6020B | CW1 | 12 | PASI-GA |
| | | EPA 7470A | VB | 1 | PASI-GA |
| | | SM 2540C-2015 | DL1 | 1 | PASI-GA |
| | | SM 2320B-2011 | YEG | 2 | PASI-A |
| | | EPA 9056A | CDC | 3 | PASI-A |
| 92691209003 | ARK-OR-0.8 | EPA 6010D | DRB | 5 | PASI-GA |
| | | EPA 6020B | CW1 | 12 | PASI-GA |
| | | EPA 7470A | VB | 1 | PASI-GA |
| | | SM 2540C-2015 | DL1 | 1 | PASI-GA |
| | | SM 2320B-2011 | YEG | 2 | PASI-A |
| | | EPA 9056A | CDC | 3 | PASI-A |
| 92691209004 | ARK-OR-0.1 | EPA 6010D | DRB | 5 | PASI-GA |
| | | EPA 6020B | CW1 | 12 | PASI-GA |
| | | EPA 7470A | VB | 1 | PASI-GA |
| | | SM 2540C-2015 | DL1 | 1 | PASI-GA |
| | | SM 2320B-2011 | YEG | 2 | PASI-A |
| | | EPA 9056A | CDC | 3 | PASI-A |
| 92691209005 | ARK-OR-0.3 | EPA 6010D | DRB | 5 | PASI-GA |
| | | EPA 6020B | CW1 | 12 | PASI-GA |
| | | EPA 7470A | VB | 1 | PASI-GA |
| | | SM 2540C-2015 | DL1 | 1 | PASI-GA |
| | | SM 2320B-2011 | YEG | 2 | PASI-A |
| | | EPA 9056A | CDC | 3 | PASI-A |
| 92691209006 | ARK-OR+0.25 | EPA 6010D | DRB | 5 | PASI-GA |
| | | EPA 6020B | CW1 | 12 | PASI-GA |
| | | EPA 7470A | VB | 1 | PASI-GA |
| | | SM 2540C-2015 | DL1 | 1 | PASI-GA |
| | | SM 2320B-2011 | YEG | 2 | PASI-A |
| | | EPA 9056A | CDC | 3 | PASI-A |

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Plant Arkwright-CCR Ash Pond-Revised Report
Pace Project No.: 92691209

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|--------|-----------|--------|----------|-------------------|------------|
|--------|-----------|--------|----------|-------------------|------------|

PASI-A = Pace Analytical Services - Asheville
PASI-GA = Pace Analytical Services - Peachtree Corners, GA

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Arkwright-CCR Ash Pond-Revised Report

Pace Project No.: 92691209

| Sample: ARK-BC-0.3 | Lab ID: 92691209001 | Collected: 10/03/23 12:45 | Received: 10/03/23 15:46 | Matrix: Water | | | | |
|------------------------------------------------------------|---------------------|---------------------------|--------------------------|---------------|----------------|----------------|------------|-------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| 6010D ATL ICP | | | | | | | | |
| Analytical Method: EPA 6010D Preparation Method: EPA 3010A | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Boron | ND | mg/L | 0.040 | 1 | 10/10/23 11:20 | 10/23/23 23:25 | 7440-42-8 | |
| Potassium | 2.7 | mg/L | 0.50 | 1 | 10/10/23 11:20 | 10/24/23 20:15 | 7440-09-7 | |
| Sodium | 11.2 | mg/L | 1.0 | 1 | 10/10/23 11:20 | 10/24/23 20:15 | 7440-23-5 | M1 |
| Calcium | 12.9 | mg/L | 1.0 | 1 | 10/10/23 11:20 | 10/23/23 23:25 | 7440-70-2 | L2,MO |
| Magnesium | 5.5 | mg/L | 0.050 | 1 | 10/10/23 11:20 | 10/23/23 23:25 | 7439-95-4 | M1 |
| 6020 MET ICPMS | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 1 | 10/07/23 09:18 | 10/10/23 15:56 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.0050 | 1 | 10/07/23 09:18 | 10/10/23 15:56 | 7440-38-2 | |
| Barium | 0.037 | mg/L | 0.0050 | 1 | 10/07/23 09:18 | 10/10/23 15:56 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 1 | 10/07/23 09:18 | 10/10/23 15:56 | 7440-41-7 | |
| Cadmium | ND | mg/L | 0.00050 | 1 | 10/07/23 09:18 | 10/10/23 15:56 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 1 | 10/07/23 09:18 | 10/10/23 15:56 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 1 | 10/07/23 09:18 | 10/10/23 15:56 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 1 | 10/07/23 09:18 | 10/10/23 15:56 | 7439-92-1 | |
| Lithium | ND | mg/L | 0.030 | 1 | 10/07/23 09:18 | 10/10/23 15:56 | 7439-93-2 | L1 |
| Molybdenum | ND | mg/L | 0.010 | 1 | 10/07/23 09:18 | 10/10/23 15:56 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 1 | 10/07/23 09:18 | 10/10/23 15:56 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 1 | 10/07/23 09:18 | 10/10/23 15:56 | 7440-28-0 | |
| 7470 Mercury | | | | | | | | |
| Analytical Method: EPA 7470A Preparation Method: EPA 7470A | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 1 | 10/12/23 12:00 | 10/12/23 16:52 | 7439-97-6 | |
| 2540C Total Dissolved Solids | | | | | | | | |
| Analytical Method: SM 2540C-2015 | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Total Dissolved Solids | 99.0 | mg/L | 25.0 | 1 | | 10/04/23 14:07 | | |
| 2320B Alkalinity | | | | | | | | |
| Analytical Method: SM 2320B-2011 | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | 60.9 | mg/L | 5.0 | 1 | | 10/09/23 17:07 | | |
| Alkalinity, Total as CaCO3 | 60.9 | mg/L | 5.0 | 1 | | 10/09/23 17:07 | | |
| 9056 IC anions 28 Days | | | | | | | | |
| Analytical Method: EPA 9056A | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | |
| Chloride | 9.3 | mg/L | 1.0 | 1 | | 10/04/23 02:05 | 16887-00-6 | |
| Fluoride | 0.16 | mg/L | 0.10 | 1 | | 10/04/23 02:05 | 16984-48-8 | |
| Sulfate | 11.6 | mg/L | 1.0 | 1 | | 10/04/23 02:05 | 14808-79-8 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Arkwright-CCR Ash Pond-Revised Report

Pace Project No.: 92691209

| Sample: ARK-BC-0.1 | Lab ID: 92691209002 | Collected: 10/03/23 11:21 | Received: 10/03/23 15:46 | Matrix: Water | | | | |
|------------------------------------------------------------|---------------------|---------------------------|--------------------------|---------------|----------------|----------------|------------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| 6010D ATL ICP | | | | | | | | |
| Analytical Method: EPA 6010D Preparation Method: EPA 3010A | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Boron | 0.045 | mg/L | 0.040 | 1 | 10/31/23 12:33 | 11/02/23 19:05 | 7440-42-8 | |
| Potassium | 2.8 | mg/L | 0.50 | 1 | 10/31/23 12:33 | 11/02/23 19:05 | 7440-09-7 | |
| Sodium | 11.3 | mg/L | 1.0 | 1 | 10/31/23 12:33 | 11/02/23 19:05 | 7440-23-5 | M1 |
| Calcium | 15.0 | mg/L | 1.0 | 1 | 10/31/23 12:33 | 11/02/23 19:05 | 7440-70-2 | M1 |
| Magnesium | 6.4 | mg/L | 0.050 | 1 | 10/31/23 12:33 | 11/02/23 19:05 | 7439-95-4 | |
| 6020 MET ICPMS | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 1 | 10/07/23 09:18 | 10/10/23 16:00 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.0050 | 1 | 10/07/23 09:18 | 10/10/23 16:00 | 7440-38-2 | |
| Barium | 0.036 | mg/L | 0.0050 | 1 | 10/07/23 09:18 | 10/10/23 16:00 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 1 | 10/07/23 09:18 | 10/10/23 16:00 | 7440-41-7 | |
| Cadmium | ND | mg/L | 0.00050 | 1 | 10/07/23 09:18 | 10/10/23 16:00 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 1 | 10/07/23 09:18 | 10/10/23 16:00 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 1 | 10/07/23 09:18 | 10/10/23 16:00 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 1 | 10/07/23 09:18 | 10/10/23 16:00 | 7439-92-1 | |
| Lithium | ND | mg/L | 0.030 | 1 | 10/07/23 09:18 | 10/10/23 16:00 | 7439-93-2 | L1 |
| Molybdenum | ND | mg/L | 0.010 | 1 | 10/07/23 09:18 | 10/10/23 16:00 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 1 | 10/07/23 09:18 | 10/10/23 16:00 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 1 | 10/07/23 09:18 | 10/10/23 16:00 | 7440-28-0 | |
| 7470 Mercury | | | | | | | | |
| Analytical Method: EPA 7470A Preparation Method: EPA 7470A | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 1 | 10/12/23 12:00 | 10/12/23 16:55 | 7439-97-6 | |
| 2540C Total Dissolved Solids | | | | | | | | |
| Analytical Method: SM 2540C-2015 | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Total Dissolved Solids | 110 | mg/L | 25.0 | 1 | | 10/04/23 14:07 | | |
| 2320B Alkalinity | | | | | | | | |
| Analytical Method: SM 2320B-2011 | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | 61.8 | mg/L | 5.0 | 1 | | 10/09/23 17:28 | | |
| Alkalinity, Total as CaCO3 | 61.8 | mg/L | 5.0 | 1 | | 10/09/23 17:28 | | |
| 9056 IC anions 28 Days | | | | | | | | |
| Analytical Method: EPA 9056A | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | |
| Chloride | 9.2 | mg/L | 1.0 | 1 | | 10/04/23 02:20 | 16887-00-6 | |
| Fluoride | 0.14 | mg/L | 0.10 | 1 | | 10/04/23 02:20 | 16984-48-8 | |
| Sulfate | 14.7 | mg/L | 1.0 | 1 | | 10/04/23 02:20 | 14808-79-8 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Arkwright-CCR Ash Pond-Revised Report

Pace Project No.: 92691209

| Sample: ARK-OR-0.8 | Lab ID: 92691209003 | Collected: 10/03/23 09:55 | Received: 10/03/23 15:46 | Matrix: Water | | | | |
|------------------------------------------------------------|---------------------|---------------------------|--------------------------|---------------|----------------|----------------|------------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| 6010D ATL ICP | | | | | | | | |
| Analytical Method: EPA 6010D Preparation Method: EPA 3010A | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Boron | ND | mg/L | 0.040 | 1 | 10/10/23 11:20 | 10/23/23 23:51 | 7440-42-8 | |
| Calcium | 7.4 | mg/L | 1.0 | 1 | 10/10/23 11:20 | 10/23/23 23:51 | 7440-70-2 | L2 |
| Magnesium | 2.0 | mg/L | 0.050 | 1 | 10/10/23 11:20 | 10/23/23 23:51 | 7439-95-4 | |
| Potassium | 3.6 | mg/L | 0.50 | 1 | 10/10/23 11:20 | 10/24/23 20:36 | 7440-09-7 | |
| Sodium | 9.4 | mg/L | 1.0 | 1 | 10/10/23 11:20 | 10/24/23 20:36 | 7440-23-5 | |
| 6020 MET ICPMS | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 1 | 10/07/23 09:18 | 10/10/23 16:14 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.0050 | 1 | 10/07/23 09:18 | 10/10/23 16:14 | 7440-38-2 | |
| Barium | 0.021 | mg/L | 0.0050 | 1 | 10/07/23 09:18 | 10/10/23 16:14 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 1 | 10/07/23 09:18 | 10/10/23 16:14 | 7440-41-7 | |
| Cadmium | ND | mg/L | 0.00050 | 1 | 10/07/23 09:18 | 10/10/23 16:14 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 1 | 10/07/23 09:18 | 10/10/23 16:14 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 1 | 10/07/23 09:18 | 10/10/23 16:14 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 1 | 10/07/23 09:18 | 10/10/23 16:14 | 7439-92-1 | |
| Lithium | ND | mg/L | 0.030 | 1 | 10/07/23 09:18 | 10/10/23 16:14 | 7439-93-2 | L1 |
| Molybdenum | ND | mg/L | 0.010 | 1 | 10/07/23 09:18 | 10/10/23 16:14 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 1 | 10/07/23 09:18 | 10/10/23 16:14 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 1 | 10/07/23 09:18 | 10/10/23 16:14 | 7440-28-0 | |
| 7470 Mercury | | | | | | | | |
| Analytical Method: EPA 7470A Preparation Method: EPA 7470A | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 1 | 10/12/23 12:00 | 10/12/23 16:57 | 7439-97-6 | |
| 2540C Total Dissolved Solids | | | | | | | | |
| Analytical Method: SM 2540C-2015 | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Total Dissolved Solids | 72.0 | mg/L | 25.0 | 1 | | 10/04/23 14:07 | | |
| 2320B Alkalinity | | | | | | | | |
| Analytical Method: SM 2320B-2011 | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | 32.7 | mg/L | 5.0 | 1 | | 10/09/23 17:48 | | |
| Alkalinity, Total as CaCO3 | 32.7 | mg/L | 5.0 | 1 | | 10/09/23 17:48 | | |
| 9056 IC anions 28 Days | | | | | | | | |
| Analytical Method: EPA 9056A | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | |
| Chloride | 9.0 | mg/L | 1.0 | 1 | | 10/04/23 02:34 | 16887-00-6 | |
| Fluoride | ND | mg/L | 0.10 | 1 | | 10/04/23 02:34 | 16984-48-8 | |
| Sulfate | 6.4 | mg/L | 1.0 | 1 | | 10/04/23 02:34 | 14808-79-8 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Arkwright-CCR Ash Pond-Revised Report

Pace Project No.: 92691209

| Sample: ARK-OR-0.1 | Lab ID: 92691209004 | Collected: 10/03/23 11:50 | Received: 10/03/23 15:46 | Matrix: Water | | | | |
|------------------------------------------------------------|---------------------|---------------------------|--------------------------|---------------|----------------|----------------|------------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| 6010D ATL ICP | | | | | | | | |
| Analytical Method: EPA 6010D Preparation Method: EPA 3010A | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Boron | ND | mg/L | 0.040 | 1 | 10/10/23 11:20 | 10/23/23 23:56 | 7440-42-8 | |
| Calcium | 7.4 | mg/L | 1.0 | 1 | 10/10/23 11:20 | 10/23/23 23:56 | 7440-70-2 | L2 |
| Magnesium | 2.0 | mg/L | 0.050 | 1 | 10/10/23 11:20 | 10/23/23 23:56 | 7439-95-4 | |
| Potassium | 3.3 | mg/L | 0.50 | 1 | 10/10/23 11:20 | 10/24/23 20:41 | 7440-09-7 | |
| Sodium | 9.5 | mg/L | 1.0 | 1 | 10/10/23 11:20 | 10/24/23 20:41 | 7440-23-5 | |
| 6020 MET ICPMS | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 1 | 10/07/23 09:18 | 10/10/23 16:18 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.0050 | 1 | 10/07/23 09:18 | 10/10/23 16:18 | 7440-38-2 | |
| Barium | 0.021 | mg/L | 0.0050 | 1 | 10/07/23 09:18 | 10/10/23 16:18 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 1 | 10/07/23 09:18 | 10/10/23 16:18 | 7440-41-7 | |
| Cadmium | ND | mg/L | 0.00050 | 1 | 10/07/23 09:18 | 10/10/23 16:18 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 1 | 10/07/23 09:18 | 10/10/23 16:18 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 1 | 10/07/23 09:18 | 10/10/23 16:18 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 1 | 10/07/23 09:18 | 10/10/23 16:18 | 7439-92-1 | |
| Lithium | ND | mg/L | 0.030 | 1 | 10/07/23 09:18 | 10/10/23 16:18 | 7439-93-2 | L1 |
| Molybdenum | ND | mg/L | 0.010 | 1 | 10/07/23 09:18 | 10/10/23 16:18 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 1 | 10/07/23 09:18 | 10/10/23 16:18 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 1 | 10/07/23 09:18 | 10/10/23 16:18 | 7440-28-0 | |
| 7470 Mercury | | | | | | | | |
| Analytical Method: EPA 7470A Preparation Method: EPA 7470A | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 1 | 10/12/23 12:00 | 10/12/23 17:05 | 7439-97-6 | |
| 2540C Total Dissolved Solids | | | | | | | | |
| Analytical Method: SM 2540C-2015 | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Total Dissolved Solids | 72.0 | mg/L | 25.0 | 1 | | 10/04/23 14:10 | | |
| 2320B Alkalinity | | | | | | | | |
| Analytical Method: SM 2320B-2011 | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | 33.1 | mg/L | 5.0 | 1 | | 10/09/23 18:04 | | |
| Alkalinity, Total as CaCO3 | 33.1 | mg/L | 5.0 | 1 | | 10/09/23 18:04 | | |
| 9056 IC anions 28 Days | | | | | | | | |
| Analytical Method: EPA 9056A | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | |
| Chloride | 8.9 | mg/L | 1.0 | 1 | | 10/04/23 02:49 | 16887-00-6 | |
| Fluoride | ND | mg/L | 0.10 | 1 | | 10/04/23 02:49 | 16984-48-8 | |
| Sulfate | 6.4 | mg/L | 1.0 | 1 | | 10/04/23 02:49 | 14808-79-8 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Arkwright-CCR Ash Pond-Revised Report

Pace Project No.: 92691209

| Sample: ARK-OR-0.3 | Lab ID: 92691209005 | Collected: 10/03/23 10:12 | Received: 10/03/23 15:46 | Matrix: Water | | | | |
|------------------------------------------------------------|---------------------|---------------------------|--------------------------|---------------|----------------|----------------|------------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| 6010D ATL ICP | | | | | | | | |
| Analytical Method: EPA 6010D Preparation Method: EPA 3010A | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Potassium | 3.5 | mg/L | 0.50 | 1 | 10/10/23 11:20 | 10/24/23 20:46 | 7440-09-7 | |
| Sodium | 9.1 | mg/L | 1.0 | 1 | 10/10/23 11:20 | 10/24/23 20:46 | 7440-23-5 | |
| Boron | ND | mg/L | 0.040 | 1 | 10/10/23 11:20 | 10/24/23 00:01 | 7440-42-8 | |
| Calcium | 7.2 | mg/L | 1.0 | 1 | 10/10/23 11:20 | 10/24/23 00:01 | 7440-70-2 | L2 |
| Magnesium | 2.0 | mg/L | 0.050 | 1 | 10/10/23 11:20 | 10/24/23 00:01 | 7439-95-4 | |
| 6020 MET ICPMS | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 1 | 10/07/23 09:18 | 10/10/23 16:23 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.0050 | 1 | 10/07/23 09:18 | 10/10/23 16:23 | 7440-38-2 | |
| Barium | 0.020 | mg/L | 0.0050 | 1 | 10/07/23 09:18 | 10/10/23 16:23 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 1 | 10/07/23 09:18 | 10/10/23 16:23 | 7440-41-7 | |
| Cadmium | ND | mg/L | 0.00050 | 1 | 10/07/23 09:18 | 10/10/23 16:23 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 1 | 10/07/23 09:18 | 10/10/23 16:23 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 1 | 10/07/23 09:18 | 10/10/23 16:23 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 1 | 10/07/23 09:18 | 10/10/23 16:23 | 7439-92-1 | |
| Lithium | ND | mg/L | 0.030 | 1 | 10/07/23 09:18 | 10/10/23 16:23 | 7439-93-2 | L1 |
| Molybdenum | ND | mg/L | 0.010 | 1 | 10/07/23 09:18 | 10/10/23 16:23 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 1 | 10/07/23 09:18 | 10/10/23 16:23 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 1 | 10/07/23 09:18 | 10/10/23 16:23 | 7440-28-0 | |
| 7470 Mercury | | | | | | | | |
| Analytical Method: EPA 7470A Preparation Method: EPA 7470A | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 1 | 10/12/23 12:00 | 10/12/23 17:08 | 7439-97-6 | |
| 2540C Total Dissolved Solids | | | | | | | | |
| Analytical Method: SM 2540C-2015 | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Total Dissolved Solids | 66.0 | mg/L | 25.0 | 1 | | 10/04/23 14:10 | | |
| 2320B Alkalinity | | | | | | | | |
| Analytical Method: SM 2320B-2011 | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | |
| Alkalinity, Bicarbonate (CaCO ₃) | 32.4 | mg/L | 5.0 | 1 | | 10/09/23 18:10 | | |
| Alkalinity, Total as CaCO ₃ | 32.4 | mg/L | 5.0 | 1 | | 10/09/23 18:10 | | |
| 9056 IC anions 28 Days | | | | | | | | |
| Analytical Method: EPA 9056A | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | |
| Chloride | 9.0 | mg/L | 1.0 | 1 | | 10/04/23 03:03 | 16887-00-6 | |
| Fluoride | ND | mg/L | 0.10 | 1 | | 10/04/23 03:03 | 16984-48-8 | |
| Sulfate | 6.3 | mg/L | 1.0 | 1 | | 10/04/23 03:03 | 14808-79-8 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Arkwright-CCR Ash Pond-Revised Report

Pace Project No.: 92691209

| Sample: ARK-OR+0.25 | Lab ID: 92691209006 | Collected: 10/03/23 12:12 | Received: 10/03/23 15:46 | Matrix: Water | | | | |
|------------------------------------------------------------|---------------------|---------------------------|--------------------------|---------------|----------------|----------------|------------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| 6010D ATL ICP | | | | | | | | |
| Analytical Method: EPA 6010D Preparation Method: EPA 3010A | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Boron | ND | mg/L | 0.040 | 1 | 10/10/23 11:20 | 10/24/23 00:06 | 7440-42-8 | |
| Calcium | 7.2 | mg/L | 1.0 | 1 | 10/10/23 11:20 | 10/24/23 00:06 | 7440-70-2 | L2 |
| Magnesium | 2.0 | mg/L | 0.050 | 1 | 10/10/23 11:20 | 10/24/23 00:06 | 7439-95-4 | |
| Potassium | 3.4 | mg/L | 0.50 | 1 | 10/10/23 11:20 | 10/24/23 20:51 | 7440-09-7 | |
| Sodium | 9.2 | mg/L | 1.0 | 1 | 10/10/23 11:20 | 10/24/23 20:51 | 7440-23-5 | |
| 6020 MET ICPMS | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 1 | 10/07/23 09:18 | 10/10/23 16:27 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.0050 | 1 | 10/07/23 09:18 | 10/10/23 16:27 | 7440-38-2 | |
| Barium | 0.019 | mg/L | 0.0050 | 1 | 10/07/23 09:18 | 10/10/23 16:27 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 1 | 10/07/23 09:18 | 10/10/23 16:27 | 7440-41-7 | |
| Cadmium | ND | mg/L | 0.00050 | 1 | 10/07/23 09:18 | 10/10/23 16:27 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 1 | 10/07/23 09:18 | 10/10/23 16:27 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 1 | 10/07/23 09:18 | 10/10/23 16:27 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 1 | 10/07/23 09:18 | 10/10/23 16:27 | 7439-92-1 | |
| Lithium | ND | mg/L | 0.030 | 1 | 10/07/23 09:18 | 10/10/23 16:27 | 7439-93-2 | L1 |
| Molybdenum | ND | mg/L | 0.010 | 1 | 10/07/23 09:18 | 10/10/23 16:27 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 1 | 10/07/23 09:18 | 10/10/23 16:27 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 1 | 10/07/23 09:18 | 10/10/23 16:27 | 7440-28-0 | |
| 7470 Mercury | | | | | | | | |
| Analytical Method: EPA 7470A Preparation Method: EPA 7470A | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 1 | 10/12/23 12:00 | 10/12/23 17:10 | 7439-97-6 | |
| 2540C Total Dissolved Solids | | | | | | | | |
| Analytical Method: SM 2540C-2015 | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Total Dissolved Solids | 67.0 | mg/L | 25.0 | 1 | | 10/04/23 14:10 | | |
| 2320B Alkalinity | | | | | | | | |
| Analytical Method: SM 2320B-2011 | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | |
| Alkalinity, Bicarbonate (CaCO ₃) | 33.1 | mg/L | 5.0 | 1 | | 10/09/23 18:16 | | |
| Alkalinity, Total as CaCO ₃ | 33.1 | mg/L | 5.0 | 1 | | 10/09/23 18:16 | | |
| 9056 IC anions 28 Days | | | | | | | | |
| Analytical Method: EPA 9056A | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | |
| Chloride | 9.0 | mg/L | 1.0 | 1 | | 10/04/23 03:47 | 16887-00-6 | |
| Fluoride | ND | mg/L | 0.10 | 1 | | 10/04/23 03:47 | 16984-48-8 | |
| Sulfate | 6.5 | mg/L | 1.0 | 1 | | 10/04/23 03:47 | 14808-79-8 | |

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QUALITY CONTROL DATA

Project: Plant Arkwright-CCR Ash Pond-Revised Report

Pace Project No.: 92691209

QC Batch: 805246 Analysis Method: EPA 6010D
 QC Batch Method: EPA 3010A Analysis Description: 6010D ATL
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92691209001, 92691209003, 92691209004, 92691209005, 92691209006

METHOD BLANK: 4169858 Matrix: Water
 Associated Lab Samples: 92691209001, 92691209003, 92691209004, 92691209005, 92691209006

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|----------------|------------|
| Boron | mg/L | ND | 0.040 | 10/23/23 23:04 | |
| Calcium | mg/L | ND | 1.0 | 10/23/23 23:04 | |
| Magnesium | mg/L | ND | 0.050 | 10/23/23 23:04 | |
| Potassium | mg/L | ND | 0.50 | 10/24/23 19:55 | |
| Sodium | mg/L | ND | 1.0 | 10/24/23 19:55 | |

LABORATORY CONTROL SAMPLE: 4169859

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Boron | mg/L | 1 | 0.99 | 99 | 80-120 | |
| Calcium | mg/L | 1 | .77J | 77 | 80-120 | L2 |
| Magnesium | mg/L | 1 | 0.94 | 94 | 80-120 | |
| Potassium | mg/L | 1 | 1.1 | 111 | 80-120 | |
| Sodium | mg/L | 1 | 1.1 | 112 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4169860 4169861

| Parameter | Units | MS | | MSD | | MS | | MSD | | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------|-------------|-------------|--------|--------|-------|-------|--------|--------------|-----|---------|------|
| | | 92691209001 | Spike Conc. | Spike Conc. | Result | Result | % Rec | % Rec | | | | | |
| Boron | mg/L | ND | 1 | 1 | 1.1 | 1.1 | 105 | 104 | 75-125 | 1 | 20 | | |
| Calcium | mg/L | 12.9 | 1 | 1 | 15.1 | 13.9 | 219 | 102 | 75-125 | 8 | 20 | M0 | |
| Magnesium | mg/L | 5.5 | 1 | 1 | 7.2 | 6.4 | 174 | 96 | 75-125 | 11 | 20 | M1 | |
| Potassium | mg/L | 2.7 | 1 | 1 | 3.7 | 3.9 | 106 | 122 | 75-125 | 4 | 20 | | |
| Sodium | mg/L | 11.2 | 1 | 1 | 11.9 | 12.3 | 66 | 105 | 75-125 | 3 | 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.

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QUALITY CONTROL DATA

Project: Plant Arkwright-CCR Ash Pond-Revised Report

Pace Project No.: 92691209

| | | | |
|------------------|-----------|-----------------------|--------------------------------------------------|
| QC Batch: | 809947 | Analysis Method: | EPA 6010D |
| QC Batch Method: | EPA 3010A | Analysis Description: | 6010D ATL |
| | | Laboratory: | Pace Analytical Services - Peachtree Corners, GA |

Associated Lab Samples: 92691209002

METHOD BLANK: 4193423 Matrix: Water

Associated Lab Samples: 92691209002

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|----------------|------------|
| Boron | mg/L | ND | 0.040 | 11/02/23 18:54 | |
| Calcium | mg/L | ND | 1.0 | 11/02/23 18:54 | |
| Magnesium | mg/L | ND | 0.050 | 11/02/23 18:54 | |
| Potassium | mg/L | ND | 0.50 | 11/02/23 18:54 | |
| Sodium | mg/L | ND | 1.0 | 11/02/23 18:54 | |

LABORATORY CONTROL SAMPLE: 4193424

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Boron | mg/L | 1 | 0.95 | 95 | 80-120 | |
| Calcium | mg/L | 1 | 1.0 | 100 | 80-120 | |
| Magnesium | mg/L | 1 | 1.0 | 103 | 80-120 | |
| Potassium | mg/L | 1 | 1.0 | 100 | 80-120 | |
| Sodium | mg/L | 1 | .99J | 99 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4193425 4193426

| Parameter | Units | MS | | MSD | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|--------------------|-------------|-------------|--------|----------|-----------|--------------|--------|---------|-------|
| | | 92691209002 Result | Spike Conc. | Spike Conc. | Result | | | | | | |
| Boron | mg/L | 0.045 | 1 | 1 | 1.1 | 1.0 | 102 | 100 | 75-125 | 2 | 20 |
| Calcium | mg/L | 15.0 | 1 | 1 | 16.3 | 15.6 | 125 | 58 | 75-125 | 4 | 20 M1 |
| Magnesium | mg/L | 6.4 | 1 | 1 | 7.6 | 7.3 | 117 | 91 | 75-125 | 3 | 20 |
| Potassium | mg/L | 2.8 | 1 | 1 | 3.8 | 3.8 | 103 | 102 | 75-125 | 0 | 20 |
| Sodium | mg/L | 11.3 | 1 | 1 | 12.6 | 12.3 | 132 | 94 | 75-125 | 3 | 20 M1 |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Arkwright-CCR Ash Pond-Revised Report

Pace Project No.: 92691209

QC Batch: 804826 Analysis Method: EPA 6020B
 QC Batch Method: EPA 3005A Analysis Description: 6020 MET
 Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92691209001, 92691209002, 92691209003, 92691209004, 92691209005, 92691209006

METHOD BLANK: 4168100 Matrix: Water

Associated Lab Samples: 92691209001, 92691209002, 92691209003, 92691209004, 92691209005, 92691209006

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|------------|-------|--------------|-----------------|----------------|------------|
| Antimony | mg/L | ND | 0.0030 | 10/10/23 15:19 | |
| Arsenic | mg/L | ND | 0.0050 | 10/10/23 15:19 | |
| Barium | mg/L | ND | 0.0050 | 10/10/23 15:19 | |
| Beryllium | mg/L | ND | 0.00050 | 10/10/23 15:19 | |
| Cadmium | mg/L | ND | 0.00050 | 10/10/23 15:19 | |
| Chromium | mg/L | ND | 0.0050 | 10/10/23 15:19 | |
| Cobalt | mg/L | ND | 0.0050 | 10/10/23 15:19 | |
| Lead | mg/L | ND | 0.0010 | 10/10/23 15:19 | |
| Lithium | mg/L | ND | 0.030 | 10/10/23 15:19 | |
| Molybdenum | mg/L | ND | 0.010 | 10/10/23 15:19 | |
| Selenium | mg/L | ND | 0.0050 | 10/10/23 15:19 | |
| Thallium | mg/L | ND | 0.0010 | 10/10/23 15:19 | |

LABORATORY CONTROL SAMPLE: 4168101

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|------------|-------|-------------|------------|-----------|--------------|------------|
| Antimony | mg/L | 0.1 | 0.11 | 106 | 80-120 | |
| Arsenic | mg/L | 0.1 | 0.10 | 102 | 80-120 | |
| Barium | mg/L | 0.1 | 0.10 | 104 | 80-120 | |
| Beryllium | mg/L | 0.1 | 0.12 | 116 | 80-120 | |
| Cadmium | mg/L | 0.1 | 0.11 | 105 | 80-120 | |
| Chromium | mg/L | 0.1 | 0.11 | 106 | 80-120 | |
| Cobalt | mg/L | 0.1 | 0.11 | 106 | 80-120 | |
| Lead | mg/L | 0.1 | 0.11 | 105 | 80-120 | |
| Lithium | mg/L | 0.1 | 0.13 | 129 | 80-120 L1 | |
| Molybdenum | mg/L | 0.1 | 0.10 | 104 | 80-120 | |
| Selenium | mg/L | 0.1 | 0.10 | 102 | 80-120 | |
| Thallium | mg/L | 0.1 | 0.10 | 103 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4168102 4168103

| Parameter | Units | MS | | MSD | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual | |
|-----------|-------|-------------|--------|-------------|-------------|----------|-----------|--------------|--------|---------|------|--------|
| | | 92687886008 | Result | Spike Conc. | Spike Conc. | | | | | | | Result |
| Antimony | mg/L | ND | 0.1 | 0.1 | 0.11 | 0.10 | 108 | 104 | 75-125 | 4 | 20 | |
| Arsenic | mg/L | ND | 0.1 | 0.1 | 0.11 | 0.10 | 105 | 101 | 75-125 | 4 | 20 | |
| Barium | mg/L | 1090 ug/L | 0.1 | 0.1 | 1.2 | 1.1 | 71 | 30 | 75-125 | 4 | 20 | |
| Beryllium | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.097 | 102 | 97 | 75-125 | 5 | 20 | |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Arkwright-CCR Ash Pond-Revised Report

Pace Project No.: 92691209

| MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4168102 4168103 | | | | | | | | | | | | |
|--------------------------------------------------------|-------|-----------------------|----------------|----------------|-------------|--------------|---------------|-------------|--------------|-----------------|------------|------|
| Parameter | Units | MS | | MSD | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | Max RPD | Qual |
| | | 92687886008 Result | Spike Conc. | Spike Conc. | MS Conc. | | | | | | | |
| Cadmium | mg/L | ND | 0.1 | 0.1 | 0.11 | 0.10 | 110 | 102 | 75-125 | 8 | 20 | |
| Chromium | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.099 | 105 | 99 | 75-125 | 5 | 20 | |
| Cobalt | mg/L | 162 ug/L | 0.1 | 0.1 | 0.27 | 0.26 | 107 | 95 | 75-125 | 5 | 20 | |
| Lead | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.099 | 104 | 99 | 75-125 | 6 | 20 | |
| Lithium | mg/L | ND | 0.1 | 0.1 | 0.12 | 0.12 | 113 | 108 | 75-125 | 4 | 20 | |
| Molybdenum | mg/L | ND | 0.1 | 0.1 | 0.11 | 0.10 | 105 | 101 | 75-125 | 4 | 20 | |
| Selenium | mg/L | ND | 0.1 | 0.1 | 0.11 | 0.10 | 104 | 101 | 75-125 | 4 | 20 | |
| Thallium | mg/L | 2.2 ug/L | 0.1 | 0.1 | 0.11 | 0.10 | 103 | 98 | 75-125 | 6 | 20 | |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Arkwright-CCR Ash Pond-Revised Report

Pace Project No.: 92691209

| | | | |
|------------------|-----------|-----------------------|--------------------------------------------------|
| QC Batch: | 805706 | Analysis Method: | EPA 7470A |
| QC Batch Method: | EPA 7470A | Analysis Description: | 7470 Mercury |
| | | Laboratory: | Pace Analytical Services - Peachtree Corners, GA |

Associated Lab Samples: 92691209001, 92691209002, 92691209003, 92691209004, 92691209005, 92691209006

METHOD BLANK: 4172220 Matrix: Water
 Associated Lab Samples: 92691209001, 92691209002, 92691209003, 92691209004, 92691209005, 92691209006

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|----------------|------------|
| Mercury | mg/L | ND | 0.00020 | 10/12/23 16:01 | |

LABORATORY CONTROL SAMPLE: 4172221

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Mercury | mg/L | 0.0025 | 0.0021 | 85 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4172222 4172223

| Parameter | Units | 4172222 | | 4172223 | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|--------------------|----------------|-----------------|-----------|----------|-----------|--------------|--------|---------|------|
| | | 92689717009 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | | | | | | |
| Mercury | mg/L | ND | 0.0025 | 0.0025 | 0.0026 | 0.0023 | 99 | 87 | 75-125 | 12 | 20 |

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QUALITY CONTROL DATA

Project: Plant Arkwright-CCR Ash Pond-Revised Report

Pace Project No.: 92691209

QC Batch: 804106 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: 92691209001, 92691209002, 92691209003, 92691209004, 92691209005, 92691209006

METHOD BLANK: 4164514 Matrix: Water
 Associated Lab Samples: 92691209001, 92691209002, 92691209003, 92691209004, 92691209005, 92691209006

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|------------------------|-------|--------------|-----------------|----------------|------------|
| Total Dissolved Solids | mg/L | ND | 25.0 | 10/04/23 14:01 | |

LABORATORY CONTROL SAMPLE: 4164515

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|------------------------|-------|-------------|------------|-----------|--------------|------------|
| Total Dissolved Solids | mg/L | 400 | 381 | 95 | 80-120 | |

SAMPLE DUPLICATE: 4164516

| Parameter | Units | 92691004001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|------------------------|-------|--------------------|------------|-----|---------|------------|
| Total Dissolved Solids | mg/L | 228 | 208 | 9 | 10 | |

SAMPLE DUPLICATE: 4164517

| Parameter | Units | 92691209003 Result | Dup Result | RPD | Max RPD | Qualifiers |
|------------------------|-------|--------------------|------------|-----|---------|------------|
| Total Dissolved Solids | mg/L | 72.0 | 76.0 | 5 | 10 | |

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QUALITY CONTROL DATA

Project: Plant Arkwright-CCR Ash Pond-Revised Report

Pace Project No.: 92691209

| | | | |
|-------------------------|------------------------------------------------------------------------------|-----------------------|--------------------------------------|
| QC Batch: | 804990 | Analysis Method: | SM 2320B-2011 |
| QC Batch Method: | SM 2320B-2011 | Analysis Description: | 2320B Alkalinity |
| | | Laboratory: | Pace Analytical Services - Asheville |
| Associated Lab Samples: | 92691209001, 92691209002, 92691209003, 92691209004, 92691209005, 92691209006 | | |

METHOD BLANK: 4168576 Matrix: Water
 Associated Lab Samples: 92691209001, 92691209002, 92691209003, 92691209004, 92691209005, 92691209006

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|--------------------------------|-------|--------------|-----------------|----------------|------------|
| Alkalinity, Total as CaCO3 | mg/L | ND | 5.0 | 10/09/23 16:49 | |
| Alkalinity,Bicarbonate (CaCO3) | mg/L | ND | 5.0 | 10/09/23 16:49 | |

LABORATORY CONTROL SAMPLE: 4168577

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------------------|-------|-------------|------------|-----------|--------------|------------|
| Alkalinity, Total as CaCO3 | mg/L | 50 | 52.5 | 105 | 80-120 | |

LABORATORY CONTROL SAMPLE: 4168578

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------------------|-------|-------------|------------|-----------|--------------|------------|
| Alkalinity, Total as CaCO3 | mg/L | 50 | 50.9 | 102 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4168579 4168580

| Parameter | Units | 92691209001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|----------------------------|-------|--------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| Alkalinity, Total as CaCO3 | mg/L | 60.9 | 50 | 50 | 111 | 112 | 101 | 103 | 80-120 | 1 | 25 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4168581 4168582

| Parameter | Units | 92691209002 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|----------------------------|-------|--------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| Alkalinity, Total as CaCO3 | mg/L | 61.8 | 50 | 50 | 114 | 112 | 104 | 101 | 80-120 | 2 | 25 | |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Arkwright-CCR Ash Pond-Revised Report

Pace Project No.: 92691209

QC Batch: 803939 Analysis Method: EPA 9056A
 QC Batch Method: EPA 9056A Analysis Description: 9056 IC anions 28 Days
 Laboratory: Pace Analytical Services - Asheville
 Associated Lab Samples: 92691209001, 92691209002, 92691209003, 92691209004, 92691209005, 92691209006

METHOD BLANK: 4163719 Matrix: Water
 Associated Lab Samples: 92691209001, 92691209002, 92691209003, 92691209004, 92691209005, 92691209006

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|----------------|------------|
| Chloride | mg/L | ND | 1.0 | 10/04/23 00:53 | |
| Fluoride | mg/L | ND | 0.10 | 10/04/23 00:53 | |
| Sulfate | mg/L | ND | 1.0 | 10/04/23 00:53 | |

LABORATORY CONTROL SAMPLE: 4163720

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Chloride | mg/L | 50 | 49.2 | 98 | 90-110 | |
| Fluoride | mg/L | 2.5 | 2.5 | 99 | 90-110 | |
| Sulfate | mg/L | 50 | 49.2 | 98 | 90-110 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4163721 4163722

| Parameter | Units | 92690697022 | | MS | | MSD | | % Rec | % Rec | % Rec | Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------|-------|-------------|-------|--------|--------|-------|--------|-------|--------|-----|---------|------|
| | | Result | Conc. | Spike Conc. | Conc. | Result | Result | | | | | | | |
| Chloride | mg/L | 2.8 | 50 | 50 | 51.3 | 50.9 | 97 | 96 | 90-110 | 1 | 10 | | | |
| Fluoride | mg/L | ND | 2.5 | 2.5 | 2.6 | 2.5 | 100 | 99 | 90-110 | 1 | 10 | | | |
| Sulfate | mg/L | 1.4 | 50 | 50 | 49.4 | 49.2 | 96 | 96 | 90-110 | 0 | 10 | | | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4163723 4163724

| Parameter | Units | 92691157017 | | MS | | MSD | | % Rec | % Rec | % Rec | Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------|-------|-------------|-------|--------|--------|-------|--------|-------|--------|-----|---------|------|
| | | Result | Conc. | Spike Conc. | Conc. | Result | Result | | | | | | | |
| Chloride | mg/L | 11.1 | 50 | 50 | 58.5 | 58.6 | 95 | 95 | 90-110 | 0 | 10 | | | |
| Fluoride | mg/L | ND | 2.5 | 2.5 | 2.6 | 2.6 | 103 | 103 | 90-110 | 0 | 10 | | | |
| Sulfate | mg/L | 5.8 | 50 | 50 | 52.9 | 53.3 | 94 | 95 | 90-110 | 1 | 10 | | | |

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Plant Arkwright-CCR Ash Pond-Revised Report
Pace Project No.: 92691209

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

- L1 Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
- L2 Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.
- M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
- M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Arkwright-CCR Ash Pond-Revised Report

Pace Project No.: 92691209

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|-------------|-----------------|----------|-------------------|------------------|
| 92691209001 | ARK-BC-0.3 | EPA 3010A | 805246 | EPA 6010D | 805325 |
| 92691209002 | ARK-BC-0.1 | EPA 3010A | 809947 | EPA 6010D | 810055 |
| 92691209003 | ARK-OR-0.8 | EPA 3010A | 805246 | EPA 6010D | 805325 |
| 92691209004 | ARK-OR-0.1 | EPA 3010A | 805246 | EPA 6010D | 805325 |
| 92691209005 | ARK-OR-0.3 | EPA 3010A | 805246 | EPA 6010D | 805325 |
| 92691209006 | ARK-OR+0.25 | EPA 3010A | 805246 | EPA 6010D | 805325 |
| 92691209001 | ARK-BC-0.3 | EPA 3005A | 804826 | EPA 6020B | 804860 |
| 92691209002 | ARK-BC-0.1 | EPA 3005A | 804826 | EPA 6020B | 804860 |
| 92691209003 | ARK-OR-0.8 | EPA 3005A | 804826 | EPA 6020B | 804860 |
| 92691209004 | ARK-OR-0.1 | EPA 3005A | 804826 | EPA 6020B | 804860 |
| 92691209005 | ARK-OR-0.3 | EPA 3005A | 804826 | EPA 6020B | 804860 |
| 92691209006 | ARK-OR+0.25 | EPA 3005A | 804826 | EPA 6020B | 804860 |
| 92691209001 | ARK-BC-0.3 | EPA 7470A | 805706 | EPA 7470A | 805878 |
| 92691209002 | ARK-BC-0.1 | EPA 7470A | 805706 | EPA 7470A | 805878 |
| 92691209003 | ARK-OR-0.8 | EPA 7470A | 805706 | EPA 7470A | 805878 |
| 92691209004 | ARK-OR-0.1 | EPA 7470A | 805706 | EPA 7470A | 805878 |
| 92691209005 | ARK-OR-0.3 | EPA 7470A | 805706 | EPA 7470A | 805878 |
| 92691209006 | ARK-OR+0.25 | EPA 7470A | 805706 | EPA 7470A | 805878 |
| 92691209001 | ARK-BC-0.3 | SM 2540C-2015 | 804106 | | |
| 92691209002 | ARK-BC-0.1 | SM 2540C-2015 | 804106 | | |
| 92691209003 | ARK-OR-0.8 | SM 2540C-2015 | 804106 | | |
| 92691209004 | ARK-OR-0.1 | SM 2540C-2015 | 804106 | | |
| 92691209005 | ARK-OR-0.3 | SM 2540C-2015 | 804106 | | |
| 92691209006 | ARK-OR+0.25 | SM 2540C-2015 | 804106 | | |
| 92691209001 | ARK-BC-0.3 | SM 2320B-2011 | 804990 | | |
| 92691209002 | ARK-BC-0.1 | SM 2320B-2011 | 804990 | | |
| 92691209003 | ARK-OR-0.8 | SM 2320B-2011 | 804990 | | |
| 92691209004 | ARK-OR-0.1 | SM 2320B-2011 | 804990 | | |
| 92691209005 | ARK-OR-0.3 | SM 2320B-2011 | 804990 | | |
| 92691209006 | ARK-OR+0.25 | SM 2320B-2011 | 804990 | | |
| 92691209001 | ARK-BC-0.3 | EPA 9056A | 803939 | | |
| 92691209002 | ARK-BC-0.1 | EPA 9056A | 803939 | | |
| 92691209003 | ARK-OR-0.8 | EPA 9056A | 803939 | | |
| 92691209004 | ARK-OR-0.1 | EPA 9056A | 803939 | | |
| 92691209005 | ARK-OR-0.3 | EPA 9056A | 803939 | | |
| 92691209006 | ARK-OR+0.25 | EPA 9056A | 803939 | | |

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:
 Company: ARCADIS - Atlanta
 Address: 2339 Paces Ferry Rd
 Atlanta, GA 30339
 Phone: (770) 394-6564 Fax:
 Email: kelly_ehlers@arcadis.com
 Requested Due Date: *5/29/13*

Section B Required Project Information:
 Report To: Kelly Sharpe, Warren Johnson
 Copy To: Ben Hodges, Jay Abraham
 Purchase Order #: GPC2474-0003
 Project Name: Plant AtonkiphilicCR-Ash Pond Closure
 Project #:

Section C Invoice Information:
 Attention:
 Company Name:
 Address:
 POC Name:
 POC Profile #:

Section A Required Client Information:
 Company: ARCADIS - Atlanta
 Address: 2339 Paces Ferry Rd
 Atlanta, GA 30339
 Phone: (770) 394-6564 Fax:
 Email: kelly_ehlers@arcadis.com
 Requested Due Date: *5/29/13*

Section B Required Project Information:
 Report To: Kelly Sharpe, Warren Johnson
 Copy To: Ben Hodges, Jay Abraham
 Purchase Order #: GPC2474-0003
 Project Name: Plant AtonkiphilicCR-Ash Pond Closure
 Project #:

Section C Invoice Information:
 Attention:
 Company Name:
 Address:
 POC Name:
 POC Profile #:

| ITEM # | MATRIX CODE (see valid codes to left) | SAMPLE TYPE (G=GRAB C=COMP) | COLLECTED | | DATE | TIME | DATE | TIME | PRESERVATIVES | | | | | | | | ANALYSIS TEST | | | | | Residual Chlorine (Y/N) | | | | | | | | | |
|--------|---------------------------------------|-----------------------------|-----------|-----|------|------|------|------|---------------------------|-------|------|-----|------|---------|----------|-------|---------------|-------------------------|------------|-----|-------------------------|-------------------------|------------------------------|--------------------|----------------|---|---|---|---|---|--|
| | | | START | END | | | | | SAMPLE TEMP AT COLLECTION | | | | | | | | Y/N | ANALYSIS TEST | | | | | | | | | | | | | |
| | | | | | | | | | Unpreserved | H2SO4 | HNO3 | HCl | NaOH | Na2S2O3 | Methanol | Other | | Total/Bicarb Alkalinity | Cl, F, SO4 | TDS | App. III Metals - B, Ca | | App. IV Metals (Client List) | Metals - Mg, Na, K | Radium 226/228 | | | | | | |
| 1 | ARK-BC-0.3 | MGG | | | 5/23 | 1245 | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | | | |
| 2 | ARK-BC-0.1 | MGG | | | 5/23 | 1121 | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| 3 | ARK-OR-0.8 | MGG | | | 5/23 | 0935 | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| 4 | ARK-OR-0.1 | MGG | | | 5/23 | 1150 | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| 5 | ARK-OR-0.3 | MGG | | | 5/23 | 1012 | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| 6 | ARK-OR+0.25 | MGG | | | 5/23 | 1212 | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

App. IV - Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Ti + Hg

ARK-COR-ASSMT 20232 1003

REMOVED BY / AFFILIATION: *J Arcadis* DATE: 5/23/13 TIME: 1546 ACCEPTED BY / AFFILIATION: *JLL - PACE* DATE: 5/23/13 TIME: 1546

ARK-COR-ASSMT 20232 1003

SAMPLER NAME AND SIGNATURE: *J Arcadis* PRINT Name of SAMPLER: SIGNATURE of SAMPLER: DATE signed: *5/23/13*

TEMP in C
 Received on ice (Y/N)
 Custody Sealed Cooler (Y/N)
 Samples Intact (Y/N)

WO#: 92691209

92691209

Page: 1 OF 1



DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Greenville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name:

Project #:

WO#: 92691209

PM: MP Due Date: 10/11/23
CLIENT: GA-ArcadAt1

Carrier: Fed Ex UPS USPS Client
 Commercial Pace Other: _____

Body Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: 10-3-23 JCC

Sealing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen? Yes No N/A

Thermometer:

IR Gun ID: 083 Type of Ice: Wet Blue None

Ambient Temp: 3.3 Correction Factor: Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C

Samples out of temp criteria. Samples on ice, cooling process has begun

Ambient Temp Corrected (°C): 3.3

Is Regulated Soil (N/A, water sample)

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? Yes No

| | | Comments/Discrepancy: |
|--------------------------------------------------|--------------------------------------------------------------------------------------------------|-----------------------|
| Chain of Custody Present? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 1. |
| Samples Arrived within Hold Time? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 2. |
| Short Hold Time Analysis (<72 hr.)? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 3. |
| Rush Turn Around Time Requested? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 4. |
| Sufficient Volume? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 5. |
| Correct Containers Used? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 6. |
| -Pace Containers Used? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | |
| Containers Intact? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 7. |
| Dissolved analysis: Samples Field Filtered? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 8. |
| Sample Labels Match COC? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 9. |
| -Includes Date/Time/ID/Analysis Matrix: <u>W</u> | | |
| Headspace in VOA Vials (>5-6mm)? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 10. |
| Tip Blank Present? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 11. |
| Tip Blank Custody Seals Present? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | |

Field Data Required? Yes No

INSTRUMENTS/SAMPLE DISCREPANCY

Lot ID of split containers:

NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

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#: 92691209

PH: MP

Due Date: 10/11/23

CLIENT: GA-ArcadAtI

| Item# | BP4U-125 mL Plastic Unpreserved (N/A) (Cl-) | BP3U-250 mL Plastic Unpreserved (N/A) | BP2U-500 mL Plastic Unpreserved (N/A) | BP1U-1 liter Plastic Unpreserved (N/A) | BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-) | BP3N-250 mL plastic HNO3 (pH < 2) | BP4Z-125 mL Plastic Zn Acetate & NaOH (>9) | BP4B-125 mL Plastic NaOH (pH > 12) (Cl-) | WGFU-Wide-mouthed Glass jar Unpreserved | AG1U-1 liter Amber Unpreserved (N/A) (Cl-) | AG1H-1 liter Amber HCl (pH < 2) | AG3U-250 mL Amber Unpreserved (N/A) (Cl-) | AG1S-1 liter Amber H2SO4 (pH < 2) | AG3S-250 mL Amber H2SO4 (pH < 2) | DG94-40 mL Amber NH4Cl (N/A)(Cl-) | DG9H-40 mL VOA HCl (N/A) | VG9T-40 mL VOA Na2S2O3 (N/A) | VG9U-40 mL VOA Unpreserved (N/A) | DG9V-40 mL VOA H3PO4 (N/A) | KP7U-50 mL Plastic Unpreserved (N/A) | V/GK (3 vials per kit)-VPH/Gas kit (N/A) | SP5T-125 mL Sterile Plastic (N/A - lab) | SP2T-250 mL Sterile Plastic (N/A - lab) | BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7) | AG0U-100 mL Amber Unpreserved (N/A) (Cl-) | VSGU-20 mL Scintillation vials (N/A) | DG9U-40 mL Amber Unpreserved vials (N/A) |
|-------|---------------------------------------------|---------------------------------------|---------------------------------------|----------------------------------------|------------------------------------------|-----------------------------------|--------------------------------------------|------------------------------------------|-----------------------------------------|--------------------------------------------|---------------------------------|-------------------------------------------|-----------------------------------|----------------------------------|-----------------------------------|--------------------------|------------------------------|----------------------------------|----------------------------|--------------------------------------|------------------------------------------|-----------------------------------------|-----------------------------------------|-----------------------------------------|-------------------------------------------|--------------------------------------|------------------------------------------|
| 1 | / | 2 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | 2 | / | / | / |
| 2 | / | 2 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | 2 | / | / | / |
| 3 | / | 2 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | 2 | / | / | / |
| 4 | / | 2 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | 2 | / | / | / |
| 5 | / | 2 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | 2 | / | / | / |
| 6 | / | 2 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | 2 | / | / | / |
| 7 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 8 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 9 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 10 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 11 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 12 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |

pH Adjustment Log for Preserved Samples

| Sample ID | Type of Preservative | pH upon receipt | Date preservation adjusted | Time preservation adjusted | Amount of Preservative added | Lot # |
|-----------|----------------------|-----------------|----------------------------|----------------------------|------------------------------|-------|
| | | | | | | |
| | | | | | | |
| | | | | | | |

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

B.4 Data Quality Evaluation



DATA USABILITY SUMMARY

Steven Elliott (Stantec) reviewed two data packages from GEL Laboratories (GEL) for the analysis of water samples collected August 9 through August 11, 2023, at the Georgia Power Arkwright Plant AP1 site. Samples were collected according to the Field Sampling Plan – Plant Arkwright (Amec Foster Wheeler, 2016).

Analyses requested included:

- SW-846 6020B – Total Metals by inductively coupled plasma - mass spectrometry (ICP/MS)
- SW-846 7470A – Mercury by manual cold-vapor
- EPA 300 Rev 2.1 – Chloride, fluoride, and sulfate by ion chromatography
- SM 2540C - 2015 – Total dissolved solids (TDS)
- EPA 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, two (2) field blanks, two (2) equipment blank, and two (2) field duplicate samples were analyzed for one or more of the analyses listed above. Table 1 lists the field identifications cross-referenced to laboratory identifications. Table 2 is a summary of qualified data. Tables 3a through 3e summarize field duplicate results.

Analytical Results

The data packages contain a minimum of one quality control batch per analytical method analyzed. The quality control batch identifies the laboratory QC samples that correspond to the designated field samples. Not detected results are reported as less than the value of the method detection limit (MDL).

Preservation and Holding Times

The samples were evaluated for agreement with the chain-of-custody forms. The samples were received in the appropriate containers with the paperwork filled out properly. The laboratory sample condition upon receipt forms indicates all samples were received at temperature ranges of 0.0 to 2.0°C. All samples were analyzed within the technical holding time. No data were qualified.

Calibrations

Case narratives indicate Initial and continuing calibration verification data were within method acceptance criteria.

Blanks

- Laboratory Method Blanks. No contamination was detected in any of the laboratory method blanks.

Field Blanks. Field blanks were analyzed for the full suite of sample analyses and all analytes were not detected with the following exceptions:

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- Chloride was detected in the blanks ARK-AP1-FB-01, ARK-AP1-EB-01 (10/09/2023), and ARK-AP1-EB-02 (10/10/2023) 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.
- Arsenic was detected in the blank ARK-AP1-FB-01, ARK-AP1-EB-01 (10/09/2023), and ARK-AP1-FB-02 (10/10/2023) at a concentration below 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.
- Calcium and molybdenum were detected in the blank ARK-AP1-EB-02 (10/10/2023) at a concentration below 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.

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- Radium 226 was detected in the blank ARK-AP1-FB-01 (10/09/2023) at a concentration above the laboratory Reporting Limit (RL). No qualification was required for associated sample results reported as greater than 10 times the blank concentration.
- Radium 228 was detected in the blank ARK-AP1-FB-02 (10/10/2023) 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 with the following exception.

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- The laboratory duplicate for radium 228 in sample ARK-AP1GWA-1 had a high RPD and has been qualified as estimated.

Field Precision

Two sets of field duplicate samples were collected for this sampling event (see Table 3a and 3b for

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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-AP1GWA-1 | 640869001 | 640869 | 6020B, 7470A, 300, 2540C | 10/09/2023 |
| ARK-AP1-FB-01 | 640869002 | 640869 | 6020B, 7470A, 300, 2540C | 10/09/2023 |
| ARK-AP1GWA-2 | 640869003 | 640869 | 6020B, 7470A, 300, 2540C | 10/09/2023 |
| ARK-AP1-EB-01 | 640869004 | 640869 | 6020B, 7470A, 300, 2540C | 10/09/2023 |
| ARK-AP1PZ-1 | 640869005 | 640869 | 6020B, 7470A, 300, 2540C | 10/09/2023 |
| ARK-AP1PZ-2 | 640869006 | 640869 | 6020B, 7470A, 300, 2540C | 10/09/2023 |
| ARK-AP1-FD-01 | 640869007 | 640869 | 6020B, 7470A, 300, 2540C | 10/09/2023 |
| ARK-AP1PZ-4 | 640869008 | 640869 | 6020B, 7470A, 300, 2540C | 10/10/2023 |
| ARK-AP1-FB-02 | 640869009 | 640869 | 6020B, 7470A, 300, 2540C | 10/10/2023 |
| ARK-AP1PZ-3 | 640869010 | 640869 | 6020B, 7470A, 300, 2540C | 10/10/2023 |
| ARK-AP1PZ-8 | 640869011 | 640869 | 6020B, 7470A, 300, 2540C | 10/10/2023 |
| ARK-AP1PZ-5 | 640869012 | 640869 | 6020B, 7470A, 300, 2540C | 10/10/2023 |
| ARK-AP1-EB-02 | 640869013 | 640869 | 6020B, 7470A, 300, 2540C | 10/10/2023 |
| ARK-AP1PZ-7 | 640869014 | 640869 | 6020B, 7470A, 300, 2540C | 10/10/2023 |
| ARK-AP1PZ-10 | 640869015 | 640869 | 6020B, 7470A, 300, 2540C | 10/10/2023 |
| ARK-AP1PZ-11 | 640869016 | 640869 | 6020B, 7470A, 300, 2540C | 10/10/2023 |

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| Field Identification | Laboratory Identification | SDG | Analyses | Sample Date |
|----------------------|---------------------------|--------|--------------------------|-------------|
| ARK-AP1-FD-02 | 640869017 | 640869 | 6020B, 7470A, 300, 2540C | 10/10/2023 |
| ARK-AP1PZ-11 | 640869018 | 640869 | 6020B, 7470A, 300, 2540C | 10/11/2023 |
| ARK-AP1GWA-1 | 640870001 | 640870 | 903.1, 904 | 10/09/2023 |
| ARK-AP1-FB-01 | 640870002 | 640870 | 903.1, 904 | 10/09/2023 |
| ARK-AP1GWA-2 | 640870003 | 640870 | 903.1, 904 | 10/09/2023 |
| ARK-AP1-EB-01 | 640870004 | 640870 | 903.1, 904 | 10/09/2023 |
| ARK-AP1PZ-1 | 640870005 | 640870 | 903.1, 904 | 10/09/2023 |
| ARK-AP1PZ-2 | 640870006 | 640870 | 903.1, 904 | 10/09/2023 |
| ARK-AP1-FD-01 | 640870007 | 640870 | 903.1, 904 | 10/09/2023 |
| ARK-AP1PZ-4 | 640870008 | 640870 | 903.1, 904 | 10/10/2023 |
| ARK-AP1-FB-02 | 640870009 | 640870 | 903.1, 904 | 10/10/2023 |
| ARK-AP1PZ-3 | 640870010 | 640870 | 903.1, 904 | 10/10/2023 |
| ARK-AP1PZ-8 | 640870011 | 640870 | 903.1, 904 | 10/10/2023 |
| ARK-AP1PZ-5 | 640870012 | 640870 | 903.1, 904 | 10/10/2023 |
| ARK-AP1-EB-02 | 640870013 | 640870 | 903.1, 904 | 10/10/2023 |
| ARK-AP1PZ-7 | 640870014 | 640870 | 903.1, 904 | 10/10/2023 |
| ARK-AP1PZ-10 | 640870015 | 640870 | 903.1, 904 | 10/10/2023 |
| ARK-AP1PZ-11 | 640870016 | 640870 | 903.1, 904 | 10/10/2023 |
| ARK-AP1-FD-02 | 640870017 | 640870 | 903.1, 904 | 10/10/2023 |
| ARK-AP1PZ-11 | 640870018 | 640870 | 903.1, 904 | 10/11/2023 |

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Table 2 – Qualified Analytical Data

| Field Identification | Analyte | Qualification / Code | Reason for Qualification |
|----------------------|------------|----------------------|--------------------------|
| ARK-AP1GWA-2 | Chloride | J+ / BFH | Detected in FB |
| ARK-AP1PZ-1 | Chloride | J+ / BFH | Detected in FB |
| ARK-AP1PZ-2 | Chloride | J+ / BFH | Detected in FB |
| ARK-AP1-FD-01 | Chloride | J+ / BFH | Detected in FB |
| ARK-AP1GWA-1 | Chloride | J+ / BFH | Detected in FB |
| ARK-AP1PZ-11 | Chloride | J+ / BEH | Detected in EB |
| ARK-AP1-FD-02 | Chloride | J+ / BEH | Detected in EB |
| ARK-AP1GWA-2 | Arsenic | J+ / BEH | Detected in EB |
| ARK-AP1PZ-1 | Arsenic | J+ / BEH | Detected in EB |
| ARK-AP1GWA-1 | Arsenic | J+ / BEH | Detected in EB |
| ARK-AP1PZ-4 | Arsenic | J+ / BEH | Detected in EB |
| ARK-AP1PZ-3 | Arsenic | J+ / BEH | Detected in EB |
| ARK-AP1PZ-8 | Arsenic | J+ / BEH | Detected in EB |
| ARK-AP1PZ-5 | Arsenic | J+ / BEH | Detected in EB |
| ARK-AP1PZ-7 | Arsenic | J+ / BEH | Detected in EB |
| ARK-AP1PZ-10 | Arsenic | J+ / BEH | Detected in EB |
| ARK-AP1PZ-11 | Arsenic | J+ / BEH | Detected in EB |
| ARK-AP1-FD-02 | Arsenic | J+ / BEH | Detected in EB |
| ARK-AP1PZ-3 | Molybdenum | J+ / BEH | Detected in EB |
| ARK-AP1PZ-11 | Molybdenum | J+ / BEH | Detected in EB |
| ARK-AP1-FD-02 | Molybdenum | J+ / BEH | Detected in EB |
| ARK-AP1GWA-1 | Radium 226 | J+ / BFH | Detected in FB |
| ARK-AP1GWA-2 | Radium 226 | J+ / BFH | Detected in FB |
| ARK-AP1PZ-1 | Radium 226 | J+ / BFH | Detected in FB |
| ARK-AP1PZ-2 | Radium 226 | J+ / BFH | Detected in FB |
| ARK-AP1-FD-01 | Radium 226 | J+ / BFH | Detected in FB |

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Table 2 – Qualified Analytical Data

| Field Identification | Analyte | Qualification / Code | Reason for Qualification |
|----------------------|------------|----------------------|--------------------------|
| ARK-AP1PZ-4 | Radium 228 | J+ / BFH | Detected in FB |
| ARK-AP1-FB-02 | Radium 228 | J+ / BFH | Detected in FB |
| ARK-AP1PZ-3 | Radium 228 | J+ / BFH | Detected in FB |
| ARK-AP1PZ-8 | Radium 228 | J+ / BFH | Detected in FB |
| ARK-AP1PZ-5 | Radium 228 | J+ / BFH | Detected in FB |
| ARK-AP1-EB-02 | Radium 228 | J+ / BFH | Detected in FB |
| ARK-AP1PZ-7 | Radium 228 | J+ / BFH | Detected in FB |
| ARK-AP1PZ-10 | Radium 228 | J+ / BFH | Detected in FB |
| ARK-AP1PZ-11 | Radium 228 | J+ / BFH | Detected in FB |
| ARK-AP1-FD-02 | Radium 228 | J+ / BFH | Detected in FB |
| ARK-AP1GWA-1 | Radium 228 | J / LD1 | High LD RPD |

BFH – Blank Field High – detected in the field blank (FB) above the RL
 BLL – Blank Lab Low – detected in the lab method blank (MB) less than the RL
 J+ – The analyte was detected in an associated blank; estimated data with a high bias.

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Table 3a – Field Precision

| Field Identification | Analyte | Sample Result (mg/L) | Duplicate Result (mg/L) | RPD ^a | Qualified |
|-------------------------------|----------|----------------------|-------------------------|------------------|-----------|
| ARK-AP1PZ-2/ ARK-AP1-FD-01 | Sulfate | 801 | 804 | 0.4% | A |
| | Chloride | 2.98 | 3.06 | 2.6% | A |
| | Fluoride | 0.262 | 0.283 | 7.7% | A |
| | Calcium | 205 | 218 | 6.1% | A |
| | Barium | 0.0300 | 0.0313 | 4.2% | A |
| | Cadmium | 0.000689 J | 0.000635 J | <5*RL, <2*RL | A* |
| | Cobalt | 0.169 | 0.192 | 12.7% | A |
| | Lithium | 0.0214 | 0.0238 | <5*RL, <2*RL | A* |
| | Boron | 0.470 | 0.492 | 4.6% | A |
| | TDS | 1170 | 1210 | 3.4% | A |

^a RPD = ((SR - DR)*200)/(SR + DR)

A - Acceptable Data.

A* - Acceptable data where results were less than 5X the RDL and the difference between sample and duplicate was less than 2X the RDL.

J – Estimated detected.

Table 3b – Field Precision

| Field Identification | Analyte | Sample Result (mg/L) | Duplicate Result (mg/L) | RPD ^a | Qualified |
|--------------------------------|------------|----------------------|-------------------------|------------------|-----------|
| ARK-AP1PZ-11/ ARK-AP1-FD-02 | Sulfate | 54.3 | 80.1 | <5*RL, <2*RL | A* |
| | Chloride | 1.20 | 1.21 | 0.8% | A |
| | Fluoride | 0.202 | 0.297 | <5*RL, <2*RL | A* |
| | Arsenic | 0.00303 J | 0.00319 J | <5*RL, <2*RL | A* |
| | Boron | 0.143 | 0.146 | 2.1% | A |
| | Calcium | 27.6 | 28.0 | 1.4% | A |
| | Barium | 0.0234 | 0.0242 | 3.4% | A |
| | Molybdenum | 0.000342 J | 0.000326 J | <5*RL, <2*RL | A* |
| | TDS | 198 | 197 | 0.5% | A |

^a RPD = ((SR - DR)*200)/(SR + DR)

A - Acceptable Data.

A* - Acceptable data where results were less than 5X the RDL and the difference between sample and duplicate was less than 2X the RDL.

J – Estimated detected.