Prepared for

Georgia Power Company
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Atlanta, Georgia 30308

2024 ANNUAL GROUNDWATER MONITORING & CORRECTIVE ACTION REPORT

PLANT BRANCH ASH POND E

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CERTIFICATION STATEMENT

This *2024 Annual Groundwater Monitoring and Corrective Action Report, Plant Branch Ash Pond E* has been prepared in compliance with the Georgia Environmental Protection Division Rules for Solid Waste Management 391-3-4-.10 by a qualified groundwater scientist or engineer with Geosyntec Consultants, 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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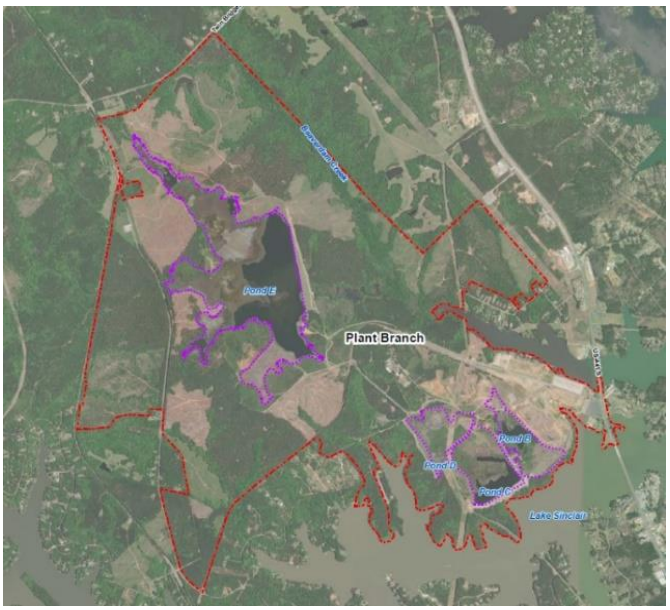
SUMMARY

This summary of the *2024 Annual Groundwater Monitoring and Corrective Action Report* provides the status of the groundwater monitoring and corrective action program for the reporting period of July 2023 through June 2024 (referred herein as the "annual reporting period") at the Georgia Power Company (Georgia Power) Plant Branch Ash Pond E (AP-E) (the Site). This summary was prepared by Geosyntec Consultants, Inc. (Geosyntec) on behalf of Georgia Power to meet the requirements listed in Georgia Environmental Protection Division (GA EPD) Rules for Solid Waste Management 391-3-4-.10, and by reference, Part A, Section 6[1] of the United States Environmental Protection Agency (USEPA) Coal Combustion Residual Rule (CCR Rule) (40 Code of Federal Regulations [CFR] 257 Subpart D).

Plant Branch is located at 1100 Milledgeville Road, approximately 8 miles north of Milledgeville in Putnam County, Georgia. Plant Branch formerly operated as a coal-fired electric generating facility until its decommissioning in July 2015, at which point it ceased producing electricity. CCR materials resulting from power generation were historically transferred and stored at five on-property ash ponds (AP-) (i.e., A, B, C, D, and E). Ash Pond A was taken out of service in the late 1960s and was closed by the removal of CCR materials in April 2016. Ash Ponds B, C, D, and E are inactive, and will be closed by removal and relocation of its stored CCR to a fully lined and permitted landfill located on the plant property. As required in the CCR Rule, this Annual Report describes the status of the groundwater monitoring program, summarizes key actions completed, describes any problems encountered, discusses actions to resolve the problems, and presents projected key activities for the upcoming year for AP-E. The other CCR unit (AP-BCD) at Plant Branch is reported separately.



Plant Branch and the Site

[1] 80 FR 21468, Apr. 17, 2015, as amended at 81 FR 51807, Aug. 5, 2016; 83 FR 36452, July 30, 2018; 85 FR 53561, Aug. 28, 2020

Groundwater at the Site is monitored using a comprehensive well network that meets federal and state monitoring requirements. Routine sampling and reporting began after the background groundwater conditions were established between 2016 and 2018. Based on groundwater conditions at the Site, an assessment monitoring program was established on November 13, 2019. The Site entered into an Assessment of Corrective Measures on July 21, 2022. During the annual reporting period, the Site remained in assessment monitoring as corrective measures are being evaluated. A *Draft Remedy Selection Report*, which summarizes the evaluation and proposed selection of a corrective measure, or measures, will be submitted separately to GA EPD following this report.

Site groundwater elevation measurements were recorded at monitoring wells and piezometers prior to each semiannual assessment monitoring event. The elevation data were used to confirm the groundwater flow direction, and to confirm that the groundwater monitoring well network for the CCR units remains sufficient to monitor groundwater downgradient of the unit.

During this annual reporting period, the semiannual assessment monitoring events for AP-E were conducted by Atlantic Coast Consulting (ACC) in August 2023 and January 2024. In order to meet the requirements of GA EPD Rule 391-3-4-.10(6) and 40 CFR 257.95 (b) and (d)(1), these semiannual assessment monitoring events included sampling and analysis of all Appendix III and Appendix IV constituents. Samples were collected and submitted to GEL Laboratories, LLC (GEL Laboratories), for analysis. Per the CCR Rule, groundwater results from these sampling events were evaluated in accordance with the certified statistical methods. That evaluation showed statistically significant values of Appendix III[2] and Appendix IV[3] constituents in wells listed in the tables below.

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

Appendix III Parameter	August 2023	January 2024
Boron	BRGWC-17S, BRGWC-33S, BRGWC-34S, BRGWC-35S, BRGWC-36S, BRGWC-38S	BRGWC-17S, BRGWC-33S, BRGWC-34S, BRGWC-35S, BRGWC-36S, BRGWC-38S
Calcium	BRGWC-17S, BRGWC-33S, BRGWC-34S BRGWC-35S, BRGWC-36S, BRGWC-38S	BRGWC-17S, BRGWC-33S, BRGWC-34S BRGWC-35S, BRGWC-36S
Chloride	BRGWC-17S, BRGWC-33S, BRGWC-34S, BRGWC-35S, BRGWC-36S, BRGWC-38S	BRGWC-17S, BRGWC-33S, BRGWC-34S, BRGWC-35S, BRGWC-36S, BRGWC-38S
Fluoride	BRGWC-17S, BRGWC-35S, BRGWC-36S, BRGWC-38S	BRGWC-17S, BRGWC-38S
pH (lower limit)	BRGWC-33S, BRGWC-38S	BRGWC-33S, BRGWC-35S, BRGWC-36S, BRGWC-37S BRGWC-38S
Sulfate	BRGWC-17S, BRGWC-33S, BRGWC-34S, BRGWC-35S, BRGWC-36S, BRGWC-38S	BRGWC-17S, BRGWC-33S, BRGWC-34S, BRGWC-35S, BRGWC-36S, BRGWC-38S
TDS	BRGWC-17S, BRGWC-33S, BRGWC-34S, BRGWC-35S, BRGWC-36S, BRGWC-38S	BRGWC-17S, BRGWC-33S, BRGWC-34S, BRGWC-35S, BRGWC-36S, BRGWC-38S
Appendix IV Parameter	**August 2023**	**January 2024**
Beryllium	BRGWC-38S	BRGWC-38S
Cobalt	BRGWC-33S, BRGWC-38S	BRGWC-33S, BRGWC-38S

Based on review of the Appendix III and Appendix IV statistical results completed for the groundwater monitoring and corrective action program from July 2023 through June 2024, the Site will continue in assessment monitoring. Georgia Power will continue routine groundwater monitoring and reporting at the Site. Reports will be posted to Georgia Power's CCR Rule Compliance website and provided to GA EPD semiannually.

Geosyntec consultants

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LIST OF ACRONYMS

ACC	Atlantic Coast Consulting, Inc.
ACM	Assessment of Corrective Measures
AP	ash pond
ASD	Alternate Source Demonstration
CCR	coal combustion residuals
CFR	Code of Federal Regulations
DO	dissolved oxygen
ft/day	feet per day
ft/ft	feet per foot
GA EPD	Georgia Environmental Protection Division
GCSM	geochemical conceptual site model
GEL Laboratories	GEL Laboratories, LLC
Georgia Power	Georgia Power Company
Geosyntec	Geosyntec Consultants, Inc.
GSC	Groundwater Stats Consulting
GWPS	Groundwater Protection Standard
HAR	Hydrogeologic Assessment Report
K_h	horizontal hydraulic conductivity
MCL	Maximum Contaminant Level
mg/L	milligram per liter
MNA	monitored natural attenuation
NELAP	National Environmental Laboratory Accreditation Program
NTU	Nephelometric turbidity units
ORP	oxidation-reduction potential
PL	prediction limit
PWR	partially weathered rock
QA/QC	Quality Assurance/Quality Control
SSI	statistically significant increase
SSL	statistically significant level
s.u.	standard unit
TDS	total dissolved solids
TWR	transitionally weathered rock
Unified Guidance	Statistical Analysis of Groundwater Data at RCRA Facilities Unified Guidance
USEPA	United States Environmental Protection Agency

1.0 INTRODUCTION

In accordance with the United States Environmental Protection Agency (USEPA) Coal Combustion Residual Rule (CCR Rule) (40 Code of Federal Regulations [CFR] Part 257, Subpart D) and the Georgia Environmental Protection Division (GA EPD) Rules for Solid Waste Management 391-3-4-.10, Geosyntec Consultants, Inc. (Geosyntec) has prepared this *2024 Annual Groundwater Monitoring and Corrective Action Report* to document groundwater monitoring activities conducted at Georgia Power Company (Georgia Power) Plant Branch (Site) Ash Pond E (AP-E) for the reporting period of July 2023 through June 2024 (referred to herein as the "annual reporting period").

Groundwater monitoring and reporting for AP-E are performed in accordance with the monitoring requirements of the GA EPD Rules for Solid Waste Management 391-3-4-.10(6), but also in accordance with the CCR Rule, specifically § 257.90 through § 257.95. This report documents the activities completed to establish the groundwater monitoring program in accordance with GA EPD Rule 391-3-4-.10(6)(a). To specify groundwater monitoring requirements, GA EPD Rule 391-3-4-.10(6)(a) incorporates by reference the CCR Rule. For ease of reference, the CCR Rule regulations are cited within this report, in lieu of citing both sets of regulations.

Plant Branch ceased producing electricity prior to April 2015, and therefore, AP-E is not subject to the federal monitoring requirements, though GA EPD rule 391-3-4-.10(6)(a) promulgates the groundwater monitoring and corrective action regulations stipulated in the federal CCR Rule § 257.90 through § 257.95. A CCR Unit Solid Waste Handling Permit application for AP-BCD was submitted to GA EPD in November 2018 and is under review.

Due to statistically significant increases (SSIs) of Appendix III parameters identified in the *2019 Annual Groundwater Monitoring and Corrective Action Report* (Golder, 2019), Georgia Power initiated an assessment monitoring program for AP-E on November 13, 2019. Statistically significant levels (SSLs) of Appendix IV parameters beryllium (Be) and cobalt (Co) were identified during the initial assessment monitoring event. Pursuant to § 257.95 as adopted by 391-3-4-.10, an Alternate Source Demonstration (ASD) was prepared in July 2020 in response to the SSLs identified for beryllium and cobalt in groundwater monitoring wells (Golder 2020). GA EPD issued a letter of non-concurrence associated with the ASD submittal in April 2022 and Georgia Power subsequently initiated an assessment of corrective measures (ACM) program for AP-E on July 21, 2022. Pursuant to § 257.96(b), Georgia Power continues to monitor groundwater associated with AP-E in accordance with the assessment monitoring program established

for the unit in 2019, including semiannual monitoring and reporting pursuant to § 257.90 through § 257.95 of the CCR Rule. A *Draft Remedy Selection Report*, which summarizes the evaluation and proposed selection of a corrective measure, or measures, will be submitted separately to GA EPD following this report (Geosyntec, 2024).

SSLs of beryllium in BRGWC-38S and cobalt in BRGWC-33S and BRGWC-38S have been identified for each assessment monitoring event subsequent to the November 2019 initiation and documented in the associated groundwater monitoring and corrective action reports. The groundwater quality data for the current annual reporting period indicate the SSLs have been horizontally and vertically delineated to below the established Groundwater Protection Standards (GWPS) and are contained within the property boundary.

1.1 Site Description and Background

Plant Branch is located in Putnam County, Georgia, approximately 8 miles north of Milledgeville. The property occupies approximately 3,200 acres and is bordered on the south and east by Lake Sinclair and by sparsely populated, forested, rural land on the north and west. Lake Sinclair is an approximately 15,330-acre hydroelectric reservoir that was created in 1953 by the impoundment of the Oconee River. Ash pond E (AP-E) is a valley-fill containment area formed by the construction of an earthen embankment dike at the eastern portion of the ash pond. AP-E is located on the northwest corner of the Site surrounded by rural land on each side (**Figure 1**). The physical address of the Site is 1100 Milledgeville Road, Milledgeville, Georgia, 31024.

The Site formerly operated as a coal-fired power plant that commenced power generation in 1965. Over the course of power generation at the facility, five CCR surface impoundments (ash ponds), identified as Ash Ponds A, B, C, D, and E, were utilized. The location of each ash pond is shown on **Figure 1**. The former AP-A, the first ash pond constructed at the facility, was taken out of service in the late 1960s and was closed in April 2016 by the removal and relocation of its stored CCR to AP-E. AP-BCD and AP-E are currently not active and will be closed by removal, specifically, by relocation of the CCR stored in those ash ponds to a new, permitted, on-site CCR landfill.

This report documents the groundwater monitoring program at AP-E. As previously noted, groundwater monitoring activities completed at the multi-unit AP-BCD are reported separately.

1.2 Regional Geology and Hydrogeologic Setting

The following section summarizes the geologic and hydrogeologic conditions at AP-E as described in the *Hydrogeologic Assessment Report Revision 01 – AP-E* (HAR Rev 01) submitted to GA EPD in April 2020 to provide information regarding the hydrogeologic conditions and the groundwater monitoring well network at the Site (Geosyntec, 2020).

1.2.1 Regional and Site Geology

The Site is located within the Piedmont Physiographic Province of central Georgia, which is characterized by gently rolling hills and narrow valleys, with locally pronounced linear ridges. Generally, the property slopes gently east and south toward Beaverdam Creek and Lake Sinclair. The metamorphic and igneous rocks that underlie the area have been subjected to physical and chemical weathering which has created a landscape dissected by creeks and streams. Bedrock is typically overlain by a variably thick blanket of residual soils and saprolite. The overall depth of weathering in the Piedmont/Blue Ridge is generally about 20 to 60 feet; however, the depth of weathering along discontinuities and/or very mafic rock units may extend to depths greater than 100 feet. Because of such variations in rock types and structure, the depth of weathering can vary significantly over short horizontal distances. The bedrock underlying the saprolite is fine- to medium-grained, poorly jointed biotite-quartz-feldspar gneiss.

Based on our review of available data, micaceous, locally saprolitic soils, consisting primarily of clay, silty clay, silt, and sandy clay occur as a variably thick blanket of residuum overlying bedrock across most of the Site. The thickness of the residual soil encountered in AP-E borings is variable, ranging from a few feet to as much as 90 feet. Between the residual soil/saprolite zone and the underlying bedrock there is a zone of transitionally weathered rock (TWR) or partially weathered rock (PWR), as defined by standard penetration test data, where available. Material overlying the top of rock surface, including residual soil/saprolite and TWR/PWR, is collectively referred to as overburden.

1.2.2 Hydrogeologic Setting

The uppermost aquifer at the Site is an unconfined regional groundwater aquifer that occurs primarily in the saprolite, PWR, and fractured bedrock. While the aquifer characteristics of each unit may vary, the groundwater is interpreted to be interconnected between these units, and they effectively act as one, unconfined aquifer. Generally, the water table surface at the Site is a subdued reflection of topography, with groundwater generally flowing east, west, and south. Downward hydraulic gradients dominate in the

topographically high areas, while upward gradients are observed in topographic lows. Recharge to the fractured bedrock aquifer system comes primarily from precipitation that is stored in the overburden and slowly infiltrates to the bedrock through areas of enhanced permeability. Interconnected fractures are the primary conduit for groundwater flow through bedrock since the rock lacks primary porosity.

1.3 Groundwater Monitoring Well Network

In accordance with § 257.91, a groundwater monitoring system was installed at AP-E that consists of a sufficient number of wells installed at appropriate locations and depths to yield groundwater samples from the uppermost aquifer to represent the groundwater quality both upgradient of the unit (i.e., background conditions) and passing the waste boundary of the unit. The number, spacing, and depths of the groundwater monitoring wells were selected based on the characterization of site-specific hydrogeologic conditions.

Based on the Site hydrogeology, the monitoring well system is designed to monitor groundwater flow in the overburden, the transition-zone, and the upper bedrock as a single interconnected aquifer system. Wells suffixed with an "S" are installed in overburden (saprolitic soil), an "I" indicates TWR/PWR and the upper fractured mantle of bedrock (transition zone), and "D" indicates a screened zone in the deeper bedrock. Construction details for the wells and piezometers associated with evaluating groundwater flow and/or quality conditions in vicinity of AP-E are listed in **Table 1**. The locations of the detection monitoring wells and assessment monitoring wells are shown on **Figure 2**. Pursuant to § 257.195(g)(1)(iv), assessment monitoring wells will continue to be sampled concurrently with the detection monitoring well network as part of the ongoing assessment groundwater monitoring program.

An on-site network of piezometers is used to gauge water levels to define groundwater flow direction and gradients and to understand potential changes related to seasonal fluctuations or site activities. The piezometers may be sampled as needed to support the AP-E ACM program. The piezometer locations are shown on the potentiometric surface maps generated for this annual reporting period (**Figures 3** and **4**, discussed in detail in Section 3).

2.0 GROUNDWATER MONITORING ACTIVITIES

In accordance with § 257.90(e), the following describes monitoring-related activities performed during this reporting period and discusses any change in status of the monitoring program. Groundwater sampling was performed in accordance with § 257.93.

2.1 Monitoring Well Installation and Maintenance

No new monitoring wells or piezometers (specific for water level collection) were installed at AP-E during the annual reporting period. The well and piezometer networks are inspected semiannually to evaluate if any repairs or maintenance are necessary to meet the requirements of the Georgia Water Well Standards Act (O.C.G.A. § 12-5-134(5)(d)(vii)). In August 2023 and January 2024, the networks were inspected and no corrective actions were required, as documented in **Appendix A**. This documentation was prepared under the direction of a professional geologist or engineer registered in the State of Georgia.

2.2 Assessment Monitoring

Pursuant to § 257.94(e)(3), an assessment monitoring program was initiated for AP-E based on SSIs of Appendix III constituents documented in the *2019 Annual Groundwater Monitoring and Corrective Action Report* (Golder, 2019). A notice of assessment monitoring was placed in the operating record on November 13, 2019. Georgia Power submitted an ASD to GA EPD for the observed SSLs (Golder, 2020) that was not accepted by GA EPD in April 2022. Within 90 days of receiving GA EPD's nonconcurrence letter, Georgia Power initiated the ACM program for AP-E on July 21, 2022. Georgia Power completed the *Assessment of Corrective Measures Report* (ACM Report) (Geosyntec, 2022) for AP-E at Plant Branch on December 16, 2022. A *Draft Remedy Selection Report,* which summarizes the evaluation and proposed selection of a corrective measure, or measures, will be submitted separately to GA EPD following this report (Geosyntec, 2024). In accordance with § 257.96(b), groundwater continues to be monitored at AP-E under the assessment monitoring program while the ACM phase is implemented.

In support of the routine assessment monitoring program, semiannual assessment monitoring events were conducted in August 2023 and January 2024. The wells sampled during these events and the dates associated with the events are summarized in **Table 2**. The collected groundwater samples were analyzed for the complete list of Appendix III and Appendix IV constituents.

Field data, field calibration forms, well inspection logs, laboratory analytical results, and data validation reports associated with these sampling events are provided in **Appendix B**. Details of the events and analytical results are discussed in Section 3.

2.3 Additional Sampling

Supplemental sampling was conducted during the reporting period in support of the ACM program and in continuing to evaluate the nature and extent of impacts resulting from AP-E. Supplemental groundwater samples were collected from the monitoring well network during the August 2023 and January 2024 assessment monitoring events and were analyzed for major cations (calcium, magnesium, potassium, and sodium), major anions (chloride, nitrate, sulfate), and alkalinity (i.e., bicarbonate, carbonate, total) as well as iron manganese, and sulfide. The laboratory reports associated with the data are provided in **Appendix B**.

3.0 SAMPLING METHODOLOGY AND ANALYSES

The following section presents a summary of the field sampling procedures that were implemented, and the groundwater sampling results that were obtained in connection with the assessment monitoring program conducted at AP-E during this annual reporting period.

3.1 Groundwater Level Measurement

Prior to each semiannual assessment monitoring event, a synoptic round of depth-to-groundwater-level measurements were recorded from all the wells and piezometers (including those associated with AP-BCD and the proposed new CCR landfill area) and used to calculate the corresponding groundwater elevations. The calculated groundwater elevations obtained in August 2023 and January 2024 at AP-BCD and AP-E are presented in **Table 3**. The surface water elevations for Lake Sinclair are obtained from Georgia Power.

The groundwater and surface water elevation data were used to prepare potentiometric surface maps for the August 2023 and January 2024 events, which are presented on **Figures 3** and **4,** respectively. The general direction of groundwater flow across AP-E is to the east-southeast. This groundwater flow pattern is consistent with previous observations.

3.2 Groundwater Gradient and Flow Velocity

The horizontal groundwater hydraulic gradients within the uppermost aquifer beneath AP-E were calculated using the groundwater elevation data from the August 2023 and January 2024 events. Horizontal hydraulic gradients were calculated along the flow paths between BGWA-5S and BRGWC-33S along the northern extent of AP-E, and between PZ-4S and BRGWC-38S in August 2023 and PZ-4I and BRGWC-38S in January 2024 along the southern extent of AP-E. The supporting calculations are presented in **Table 4**. The calculated average hydraulic gradients associated with these well pairs for the annual reporting period are 0.005 feet per foot (ft/ft) and 0.010 ft/ft, respectively (**Table 4**). The general trajectory of the flow paths used in the calculations and associated potentiometric contour lines are shown on **Figures 3** and **4**.

Groundwater flow rates at the Site were calculated based on the above hydraulic gradients, hydraulic conductivity from previous slug test results, and an estimated effective porosity of the screened horizon.

The horizontal hydraulic conductivity (K_h) value used in flow calculations is 2.21 feet per day (ft/day) and was based on slug test data presented in the 2020 *Hydrogeologic Assessment Report Revision 01* (Geosyntec, 2020) and collected subsequently. The average observed K_h estimates from the well pairs were used to produce a representative estimate of groundwater flow velocity. An estimated effective porosity of 0.20 is used to represent average conditions at AP-E which was derived based on the default values for effective porosity recommended by USEPA for a silty sand-type soil (USEPA, 1996). With these variables determined, and accounting for the averaged hydraulic gradient calculated between well pairs for the August 2023 and January 2024 events, horizontal flow velocities were calculated as below.

The approximate horizontal flow velocities associated with AP-E were calculated using the following derivative of Darcy's Law. The supporting calculations for the August 2023 and January 2024 semiannual events are presented in **Table 4**.

$$V = linear\ velocity = \frac{K_h * i}{n_e}$$

where:

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

K_h = Horizontal Hydraulic Conductivity $\left(\frac{feet}{day}\right)$

i = Horizontal hydraulic gradient $\left(\frac{feet}{foot}\right) = \frac{h_1 - h_2}{L}$

h_1 and h_2 = Groundwater elevation at location 1 and 2

L = Distance between location 1 and 2

n_e = Effective porosity

The average groundwater flow velocity at the Site for this annual reporting period is approximately 0.09 ft/day across AP-E. The observed groundwater flow velocities are generally consistent with expected velocities, are consistent with historical observations, and confirm the groundwater monitoring system as properly located to monitor the uppermost aquifer for AP-E at Plant Branch.

3.3 Groundwater Sampling Procedures

Groundwater samples were collected using low-flow sampling procedures in accordance with § 257.93(a). Purging and sampling was performed using dedicated bladder pumps with dedicated tubing, non-dedicated bladder pumps, and peristaltic pumps. For wells sampled with non-dedicated bladder and peristaltic pumps, the pump intake was lowered to the midpoint of the well screen (or as appropriate based on the groundwater level). Non-dedicated bladder pump and peristaltic pump samples were collected using new disposable polyethylene tubing; all non-dedicated tubing was disposed of following the sampling event. All non-disposable equipment was decontaminated before use and between well locations.

An AquaTROLL® (In-Situ field instrument) was used to monitor and record field water quality parameters [i.e., pH, conductivity, dissolved oxygen (DO), temperature, and oxidation reduction potential (ORP)] during well purging to verify stabilization prior to sampling. Turbidity was monitored using a LaMotte 2020we (or similar) portable turbidity meter. Groundwater samples were collected once the following stabilization criteria were met:

- pH ± 0.1 Standard Units (s.u.).
- Conductivity ± 5%.

- ±0.2 milligrams per liter (mg/L) or ±10%, whichever is greater for DO > 0.5 mg/L. No criterion applies if DO < 0.5 mg/L, record only.

- Turbidity measured less than 5 nephelometric turbidity units (NTU) or measured between 5 and 10 NTU following three hours of purging.

Following purging, and once stabilization was achieved, unfiltered 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 Laboratories) in Charleston, South Carolina, following chain-of-custody protocol. The field sampling and equipment calibration forms generated during the annual reporting period are provided in **Appendix B**.

During the August 2023 and January 2024 events, one low yielding well was encountered. During both events, PZ-52D purged dry and required sample collection the following day due to low recharge rates.

3.4 Laboratory Analyses

Laboratory analyses were performed by GEL Laboratories, which is accredited by the National Environmental Laboratory Accreditation Program (NELAP). GEL Laboratories maintains a NELAP certification for the Appendix III and Appendix IV constituents and the geochemical parameters analyzed for this project. Analytical methods used for groundwater sample analysis are listed in the analytical laboratory reports included in **Appendix B**.

The analytical results from the August 2023 and January 2024 monitoring events are summarized in **Table 5**.

3.5 Quality Assurance and Quality Control Summary

Quality assurance/quality control (QA/QC) samples were collected during each sampling event at the minimum rate of one QA/QC sample per 10 groundwater samples and included the following: field duplicates, equipment blanks, and field blank samples. QA/QC samples were collected in appropriately preserved laboratory-provided sample containers and submitted under the same chain of custody as the primary samples for analysis of the same constituents by GEL Laboratories.

In addition to collecting QA/QC samples, the data were validated based on the pertinent methods referenced in the laboratory reports, professional and technical judgment, and

applicable federal guidance documents (USEPA, 2011; USEPA, 2017). Where necessary, the data were qualified with supporting documentation and justifications. The data are considered usable for meeting project objectives, and the results are considered valid. The associated data validation reports are provided in **Appendix B** with the laboratory reports.

4.0 STATISTICAL ANALYSIS

The following section summarizes the statistical analysis of Appendix III groundwater monitoring data performed pursuant to § 257.93. In addition, pursuant to § 257.95(d)(2), Georgia Power established GWPS for the Appendix IV constituents and completed statistical analyses of the Appendix IV groundwater monitoring data obtained during the August 2023 and January 2024 assessment monitoring events. The data were analyzed by Groundwater Stats Consulting (GSC); the report generated from the analyses are provided in **Appendix C**.

4.1 Statistical Methods

The selected statistical method for AP-E was developed in accordance with § 257.93(f) using methodology presented in Statistical Analysis of Groundwater Data at USEPA document *Statistical Analysis of Groundwater Data at RCRA Facilities Unified Guidance* (Unified Guidance) (USEPA, 2009). The Sanitas™ groundwater statistical software was used to perform the statistical analyses. Sanitas™ is a decision-support software package, which incorporates the statistical tests required of Subtitle C and D facilities by USEPA regulations and guidance as recommended in the Unified Guidance.

Appendix III statistical analysis was performed to assess if Appendix III constituents have returned to background levels. Appendix IV constituents were evaluated to assess if concentrations statistically exceeded the established GWPS. Detailed statistical methods used for Appendix III and Appendix IV constituents are discussed in the statistical analysis report provided in **Appendix C** and summarized in Sections 4.1.1 and 4.1.2. The GWPS were finalized pursuant to § 257.95(d)(2) and presented in **Table 6**.

4.1.1 Appendix III Statistical Methods

Statistical tests used to evaluate the groundwater monitoring data consist of interwell prediction limits (PLs) combined with a 1-of-2 verification resample plan for each of the Appendix III parameters. Upgradient well data were pooled to establish a background limit for an individual constituent, and the most recent sample from each downgradient well was compared to the statistical limit for each parameter to determine if concentrations exceeded background levels. The most recent sample from each downgradient well is compared to the background limit to assess whether there are SSIs. An "initial exceedance" occurs when an Appendix III constituent reported in the groundwater of a downgradient detection monitoring well exceeds the constituent's associated PL. The 1-of-2 resample plan allows for collection of an independent

resample. A confirmed exceedance is noted only when the resample confirms the initial exceedance by also exceeding the statistical limit. If the resample falls within its respective PL, no exceedance is declared. The Sen's Slope/Mann Kendall trend test was used to statistically evaluate concentration levels over time and determine if concentrations are increasing, decreasing, or stabilizing.

4.1.2 Appendix IV Statistical Methods

To statistically compare groundwater data to GWPS, confidence intervals are constructed for each of the detected Appendix IV constituents in each downgradient detection and assessment monitoring well with a minimum of four samples. In accordance with Section 21.1.1 of the Unified Guidance (USEPA, 2009), four independent data are the minimum population size recommended to construct confidence intervals required to assess SSLs for Appendix IV constituents. Due to previous non-routine sampling, some Appendix IV constituents at a well location have differing number of analytical data points.

The confidence intervals are compared to the GWPS. Only when the entire confidence interval is above a GWPS is the well/constituent pair considered to exceed its GWPS. If a confidence interval exceeds a GWPS, an SSL exceedance is identified.

USEPA revised the CCR Rule on July 30, 2018, updating GWPS for cobalt, lead, lithium, and molybdenum. As described in § 257.95(h)(1-3), the GWPS is defined by the below criteria. These criteria were adopted into the GA EPD Rules for Solid Waste Management 391-3-4-.10 on February 22, 2022.

(1) The maximum contaminant level (MCL) established under §141.62 and 141.66.

(2) Where an MCL has not been established:

(i) Cobalt 0.006 mg/L;

(ii) Lead 0.015 mg/L;

(iii) Lithium 0.040 mg/L; and

(iv) Molybdenum 0.1 mg/L.

(3) Background levels for constituents where the background level is higher than the MCL or rule specified GWPS.

Following the above requirements, GWPS have been established for statistical comparison of Appendix IV constituents and are presented in **Table 6**.

4.2 Statistical Analyses Results

Based on review of the Appendix III statistical analysis of August 2023 and January 2024 data presented in **Appendix C**, groundwater conditions have not returned to background and assessment monitoring should continue pursuant to § 257.95(f). A detailed list of the noted exceedances is provided in **Appendix C**.

Based on the statistical analysis of Appendix IV constituents, the following constituents exceeded the corresponding GWPS for the assessment monitoring event:

4.2.1 August 2023 Data

- Beryllium: BRGWC-38S
- Cobalt: BRGWC-33S and BRGWC-38S

Wells with SSLs were further evaluated using the Sen's Slope/Mann Kendall trend test (**Appendix C**). Statistically significant decreasing trends of beryllium and cobalt were identified during this reporting period in BRGWC-38S. A statistically significant decreasing trend of cobalt was identified during this reporting period in BRGWC-33S.

4.2.2 January 2024 Data

- Beryllium: BRGWC-38S
- Cobalt: BRGWC-33S and BRGWC-38S

Wells with SSLs were further evaluated using the Sen's Slope/Mann Kendall trend test (**Appendix C**). A statistically significant decreasing trend of beryllium and cobalt was identified during this reporting period in BRGWC-38S. The statistical trend reflects steadily decreasing concentrations of beryllium and cobalt in BRGWC-38S over several years of monitoring. The current cobalt concentration data in BRGWC-33S does not show an increasing or decreasing trend, unlike the decreasing trend noted in previous reporting periods.

4.2.3 Summary of Statistical Analyses

The SSLs identified for the annual reporting period are consistent with the previous annual reporting period with no new SSLs identified. The statistically decreasing

concentration trends for beryllium and cobalt (**Appendix C**) in BRGWC-38S have been consistent with the previous reporting events and reflects ongoing natural attenuation of these constituents in the aquifer media at AP-E. Following the January 2024 sampling event a statistically decreasing trend for cobalt in BRGWC-33S was no longer identified due to recent increases in groundwater concentrations. These increases are likely the result of dewatering and closure construction activities within AP-E and therefore, expected to be transient in nature. For example, BRGWC-33S was characterized by an increase total dissolved solids due to increased concentrations of calcium, chloride, and sulfate in the recent three sampling events, without corresponding increases in boron and variations in groundwater pH. These changes likely reflect impacts from dewatering and closure construction activities including trenching to allow water flow from regions of AP-E near BRGWC-33S to the outfall. These activities have resulted in temporal alteration of the hydrogeological conditions, changes in groundwater flow field in the vicinity of BRGWC-33S, and variability of source water upgradient of BRGWC-33S resulting in increased cobalt in groundwater without observed changes in pH.

5.0 NATURE AND EXTENT

Based on the groundwater data presented herein, the SSLs for wells and constituents identified in Section 4.2 have been horizontally and vertically delineated to below the established GWPS and are contained within the property boundary. Delineation is determined by confidence intervals (statistical analysis) prepared for the assessment wells discussed below. Results of the statistical analyses are provided in **Appendix C**.

The identified SSLs of beryllium and cobalt in BRGWC-38S are horizontally and vertically delineated to below the GWPS by PZ-70I and PZ-53D, respectively. Similarly, the SSL of cobalt in BRGWC-33S is horizontally and vertically delineated by PZ-13S and PZ-52D, respectively. The groundwater data from the August 2023 and January 2024 semiannual assessment monitoring events were used to generate the beryllium and cobalt iso-concentration maps presented on **Figures 5** through **8**, respectively. Additional details regarding the delineation status and data are discussed in the *Draft Remedy Selection Report* that will be submitted separately to GA EPD following this report.

6.0 MONITORING PROGRAM STATUS

6.1 Assessment Monitoring Status

Pursuant to § 257.96(b), Georgia Power will continue to monitor the groundwater at AP-E in accordance with the assessment monitoring program regulations of § 257.95 while ACM efforts are implemented to address SSL concentrations of beryllium and cobalt in BRGWC-38S and cobalt in BRGWC-33S. Pursuant to § 257.195(g)(1)(iv), the additional assessment wells will continue to be sampled as part of the ongoing assessment groundwater monitoring program.

6.2 Assessment of Corrective Measures

A *Draft Remedy Selection Repor*t will be submitted to GA EPD following this report, in lieu of the *Semiannual Remedy Selection and Design Progress Reports* (semiannual progress reports) previously included in the appendix of the routine groundwater monitoring and corrective action reports. The *Draft Remedy Selection Report* submitted under separate cover to GA EPD will include a comprehensive description and compilation of the following content and documents:

i) An evaluation of corrective measure options using the comparative criteria such as long- and short-term effectiveness and protectiveness, source control effectiveness, and ease of implementation;

ii) The current groundwater geochemical conceptual site model (GCSM) applicable to evaluating groundwater corrective measures proposed in the ACM Report (Geosyntec, 2022);

iii) A risk evaluation;

iv) A monitored natural attenuation (MNA) evaluation to assess the applicability of this corrective action measure to SSLs observed in BRGWC-38S; and

v) A transport modeling investigation to assess the feasibility of corrective action measures under consideration.

In the interim of GA EPD's review of the *Draft Remedy Selection Report*, pre-design investigations, treatability studies, and anticipated future pilot testing are being planned. This includes completion of a detailed delineation of the cobalt and beryllium plumes downgradient of AP-E, as needed. In addition, treatability and pilot testing will be

completed to assess the requirements to design and implement an injection system capable of addressing the cobalt and beryllium SSLs as part of the proposed remedy.

7.0 CONCLUSIONS AND FUTURE ACTIONS

This *2024 Annual Groundwater Monitoring and Corrective Action Report* for Plant Branch AP-E was prepared to fulfill the requirements of the CCR Rule and GA EPD Rules for Solid Waste Management 391-3-4-.10. The groundwater flow direction and rates interpreted during the August 2023 and January 2024 monitoring events are generally consistent with historical evaluations. Statistical analysis of the groundwater monitoring data for the AP-E well network confirmed the continued presence of SSLs of beryllium and cobalt in BRGWC-38S and cobalt in BRGWC-33S above corresponding GWPS. Based on the most current groundwater quality and flow data from this reporting period, as described in Section 5, the SSLs of beryllium and cobalt are vertically and horizontally delineated downgradient to below the GWPS and are contained within the property boundary.

Georgia Power will continue to monitor AP-E groundwater under the assessment monitoring program as aspects of the ACM program are implemented to address the Appendix IV SSLs. A *Draft Remedy Selection Report*, which summarizes the evaluation and proposed selection of a corrective measure, or measures, for AP-E will be submitted to GA EPD following this report. The next routine semiannual assessment monitoring event for AP-E is scheduled for August 2024. Progress made toward the pre-design investigation and other treatability or pilot studies will be documented as a summary in future semiannual and annual groundwater monitoring and corrective action reports.

8.0 REFERENCES

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TABLES

Table 1
Monitoring Well Network Summary
Plant Branch AP-E, Putnam County, Georgia

Well ID	Hydraulic Location	Installation Date	Easting [1]	Northing [1]	Ground Surface Elevation (ft)	Top of Casing Elevation [2] (ft)	Top of Screen Elevation [2] (ft)	Bottom of Screen Elevation [2] (ft)	Well Depth (ft BGS)	Screen Interval Length (ft)
AP-BCD Detection Monitoring Well Network										
BRGWA-2S	Upgradient BCD & E	4/2/2014	2549952.59	1167139.69	440.4	443.20	406.2	396.2	44.6	10
BRGWA-2I	Upgradient BCD & E	3/14/2014	2549957.26	1167129.90	440.5	443.14	386.6	376.6	64.3	10
BRGWA-5S	Upgradient BCD & E	4/3/2014	2549415.60	1170177.42	440.8	443.86	411.2	401.2	40.0	10
BRGWA-5I	Upgradient BCD & E	4/3/2014	2549407.91	1170183.54	441.1	443.79	390.3	380.3	61.2	10
BRGWA-6S	Upgradient BCD & E	4/1/2014	2551540.90	1170732.82	455.8	458.96	416.5	406.5	49.7	10
BRGWA-23S	Upgradient BCD	7/26/2016	2557868.25	1162971.84	425.5	428.24	394.7	384.7	40.8	10
BRGWC-25I	Downgradient B	7/25/2016	2561315.08	1160583.67	355.0	357.37	344.5	334.5	20.5	10
BRGWC-27I	Downgradient C	7/22/2016	2559712.12	1159695.33	364.0	366.86	350.0	340.0	24.0	10
BRGWC-29I	Downgradient C	7/23/2016	2561050.03	1160297.65	350.6	353.23	340.6	330.6	20.0	10
BRGWC-30I	Downgradient D	7/18/2016	2557691.84	1161607.69	350.0	352.61	340.0	330.0	20.3	10
BRGWC-32S	Downgradient D	7/20/2016	2558497.97	1160677.67	403.6	406.39	368.6	358.6	45.0	10
BRGWC-45	Downgradient B	2/3/2018	2561075.38	1162229.68	381.6	384.58	335.0	325.0	57.0	10
BRGWC-47	Downgradient D	1/25/2018	2559456.75	1162700.66	408.8	411.20	327.2	317.2	92.0	10
BRGWC-50	Downgradient B	1/31/2018	2562372.96	1161593.45	378.8	381.35	324.2	314.2	65.0	10
BRGWC-52I	Downgradient B	8/6/2018	2562145.22	1161274.99	381.2	383.87	317.3	307.3	73.9	10
AP-E Detection Monitoring Well Network										
BRGWA-2S	Upgradient BCD & E	4/2/2014	2549952.59	1167139.69	440.4	443.20	406.2	396.2	44.6	10
BRGWA-2I	Upgradient BCD & E	3/14/2014	2549957.26	1167129.90	440.5	443.14	386.6	376.6	64.3	10
BRGWA-5S	Upgradient BCD & E	4/3/2014	2549415.60	1170177.42	440.8	443.86	411.2	401.2	40.0	10
BRGWA-5I	Upgradient BCD & E	4/3/2014	2549407.91	1170183.54	441.1	443.79	390.3	380.3	61.2	10
BRGWA-6S	Upgradient BCD & E	4/1/2014	2551540.90	1170732.82	455.8	458.96	416.5	406.5	49.7	10
BRGWC-17S	Downgradient E	3/13/2014	2554687.84	1166301.32	362.2	365.32	360.5	355.5	7.1	5
BRGWC-33S	Downgradient E	7/26/2016	2554064.97	1168057.09	414.2	416.68	398.2	388.2	26.4	10
BRGWC-34S	Downgradient E	7/25/2016	2554231.28	1167384.17	389.2	391.96	376.2	366.2	23.0	10
BRGWC-35S	Downgradient E	7/23/2016	2554476.13	1166646.02	363.7	366.31	346.7	336.7	27.4	10
BRGWC-36S	Downgradient E	7/26/2016	2554693.26	1165742.82	383.1	389.84	364.4	354.4	28.7	10
BRGWC-37S	Downgradient E	7/24/2016	2554979.63	1165093.07	444.4	447.05	390.8	380.8	63.6	10
BRGWC-38S	Downgradient E	7/22/2016	2555016.50	1164391.82	429.8	432.24	402.0	392.0	38.2	10
AP-BCD Assessment Monitoring Well Network										
PZ-44	Downgradient B	2/2/2018	2561587.42	1161724.48	380.5	383.04	333.9	323.9	57.0	10
PZ-50D	Downgradient B	10/8/2020	2562380.34	1161589.51	378.3	380.86	282.3	272.3	106.0	10
PZ-51I	Downgradient B	8/1/2018	2562439.35	1161631.12	378.0	380.52	323.1	313.1	65.0	10
PZ-51D	Downgradient B	10/9/2020	2562433.15	1161640.16	378.1	380.75	282.1	272.1	106.0	10
PZ-58I	Downgradient B	3/27/2021	2562297.82	1161579.00	379.3	382.27	325.7	315.7	63.9	10
PZ-60I	Downgradient B	3/29/2021	2562330.79	1161588.01	379.5	382.61	329.0	319.0	60.8	10
PZ-61I	Downgradient B	3/30/2021	2562429.63	1161621.94	377.7	380.64	312.0	302.0	76.0	10
PZ-63I	Downgradient B	1/5/2022	2562233.10	1161371.20	378.6	381.31	332.1	322.1	56.5	10
PZ-64I	Downgradient B	9/10/2022	2562404.29	1161787.72	379.4	381.94	320.6	310.6	69.3	10
PZ-68D	Downgradient D	9/06/2022	2558512.90	1160690.48	402.5	405.25	328.8	318.8	84.3	10
PZ-74I	Downgradient D	5/24/2023	2557970.94	1160189.30	368.3	371.13	330.5	320.5	48.0	10
PZ-75I	Downgradient D	6/27/2023	2558343.03	1160009.37	354.9	357.86	337.9	327.9	27.4	10
AP-E Assessment Monitoring Well Network										
PZ-13S	Downgradient E	3/19/2014	2555276.64	1168011.19	406.5	409.97	382.2	372.2	34.7	10
PZ-52D	Downgradient E	5/14/2020	2554051.53	1168053.71	414.3	417.03	364.8	354.8	59.5	10
PZ-53D	Downgradient E	5/17/2020	2554984.36	1164393.74	431.6	434.68	302.2	292.2	139.4	10
PZ-70I	Downgradient E	8/16/2022	2555374.08	1164326.66	422.9	425.70	363.4	373.4	52.9	10
Piezometers										
PZ-1D	Upgradient BCD & E	4/4/2014	2551598.09	1171999.19	462.9	463.41	397.4	302.9	160.0	94.5
PZ-1I	Upgradient BCD & E	3/10/2014	2551577.63	1171995.75	461.9	464.71	392.8	382.8	79.5	10
PZ-1S	Upgradient BCD & E	3/20/2014	2551588.02	1171996.20	462.4	465.07	407.8	397.8	65.0	10
PZ-3D	Upgradient BCD & E	3/27/2014	2550275.05	1165474.25	486.7	487.50	438.7	358.6	130.0	82
PZ-3I	Upgradient BCD & E	3/11/2014	2550273.05	1165494.61	486.5	489.49	442.3	432.3	54.6	10
PZ-3S	Upgradient BCD & E	3/11/2014	2550274.66	1165484.43	487.0	490.53	457.5	447.5	39.9	10

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PZ-4I	Upgradient BCD & E	3/11/2014	2551282.08	1163246.61	479.9	482.98	443.5	433.5	46.8	10
PZ-4S	Upgradient BCD & E	3/10/2014	2551270.14	1163247.97	479.9	482.87	460.3	450.3	30.0	10
PZ-7S	Upgradient BCD & E	4/1/2014	2553055.64	1169419.33	449.0	451.57	414.9	404.9	44.5	10
PZ-8S	Upgradient BCD & E	4/1/2014	2551188.94	1167801.20	450.5	453.08	411.4	401.4	49.5	10
PZ-9S	Upgradient BCD & E	3/5/2014	2553089.53	1162633.36	466.1	469.28	428.5	418.5	48.0	10
PZ-10S	Downgradient E	3/5/2014	2554990.43	1164021.55	431.0	433.85	402.4	392.4	39.0	10
PZ-14I	Downgradient E	3/20/2014	2554365.65	1168398.28	419.9	422.71	376.5	366.5	53.8	10
PZ-14S	Downgradient E	3/20/2014	2554359.23	1168398.59	420.2	423.31	393.0	383.0	37.6	10
PZ-15I	Downgradient E	3/25/2014	2554399.25	1167721.02	400.2	403.06	321.9	311.9	88.7	10
PZ-15S	Downgradient E	3/27/2014	2554394.06	1167720.25	400.1	402.90	370.2	360.2	39.9	10
PZ-16I	Downgradient E	3/14/2014	2554587.53	1166980.59	379.5	382.45	351.3	341.3	38.6	10
PZ-16S	Downgradient E	3/18/2014	2554581.44	1166977.63	379.3	382.52	370.6	360.6	19.1	10
PZ-17I	Downgradient E	3/17/2014	2554702.42	1166313.81	362.3	365.33	329.2	319.2	43.5	10
PZ-18I	Downgradient D	2/26/2014	2557745.51	1160766.13	359.6	362.55	331.3	321.3	38.4	10
PZ-18S	Downgradient D	3/26/2014	2557747.42	1160757.41	359.7	362.82	345.0	335.0	24.2	10
PZ-19I	Downgradient C	3/4/2014	2558899.87	1159797.10	368.9	371.74	335.6	325.6	43.7	10
PZ-19S	Downgradient C	3/4/2014	2558894.60	1159805.43	368.4	371.42	350.8	340.8	28.0	10
PZ-20I	Downgradient C	3/5/2014	2560160.17	1159495.25	362.2	365.34	343.1	333.1	29.5	10
PZ-20S	Downgradient C	3/5/2014	2560157.16	1159490.13	362.2	365.41	357.3	347.3	15.3	10
PZ-21I	Downgradient B	3/10/2014	2561328.17	1160591.42	355.8	358.92	341.8	331.8	24.4	10
PZ-21S	Downgradient B	3/11/2014	2561321.43	1160592.45	355.5	358.52	351.1	346.1	9.8	5
PZ-23I	Upgradient BCD	7/29/2016	2557877.71	1162975.56	425.1	427.74	368.6	358.6	66.5	10
PZ-24S	Downgradient A	7/27/2016	2562862.19	1162400.95	351.4	354.10	319.9	309.9	42.0	10
PZ-26I	Downgradient B	7/26/2016	2561626.45	1160669.20	368.0	370.63	347.5	337.5	30.5	10
PZ-28I	Downgradient C	7/24/2016	2560151.53	1159505.00	362.5	364.81	348.5	338.5	24.0	10
PZ-31S	Downgradient D	7/26/2016	2557971.75	1160936.81	374.3	376.77	344.8	334.8	39.5	10
PZ-40S	Downgradient A	2/14/2017	2562807.61	1162415.06	353.2	355.96	324.4	314.4	40.2	10
PZ-41S	Downgradient A	2/14/2017	2562759.44	1162431.76	354.3	357.17	320.5	310.5	44.2	10
PZ-42S	Upgradient A	2/9/2017	2562734.89	1162845.64	359.0	361.66	337.2	327.2	32.2	10
PZ-43	Downgradient B	2/7/2018	2562031.42	1162159.72	381.0	383.71	351.0	341.0	40.4	10
PZ-46	Downgradient B	2/5/2018	2560558.89	1162756.31	382.1	384.64	346.5	336.5	45.6	10
PZ-48	Downgradient D	1/24/2018	2558444.63	1163046.78	418.3	420.90	361.7	351.7	67.0	10
PZ-49	Downgradient B	1/30/2018	2561125.71	1163321.35	382.2	384.99	375.6	365.6	17.0	10
PZ-51S	Downgradient B	8/1/2018	2562433.07	1161613.24	377.9	380.27	337.9	332.9	45.4	5
PZ-54	Downgradient E	5/15/2020	2555458.38	1164828.76	440.8	443.86	398.8	388.8	52.0	10
PZ-55	Downgradient E	5/19/2020	2554783.76	1163208.08	450.2	453.07	410.9	400.9	49.3	10
PZ-56	Downgradient E	5/20/2020	2554086.36	1162965.21	416.2	418.84	396.9	386.9	29.3	10
PZ-57I	Downgradient B	3/24/2021	2562170.21	1161582.31	379.4	382.50	313.8	303.8	75.9	10
PZ-59I	Downgradient B	3/31/2021	2562329.80	1161654.90	379.9	383.49	323.5	313.5	66.0	10
PZ-62I	Downgradient B	1/6/2022	2562336.00	1161478.90	378.1	380.95	318.1	308.1	70.0	10
PZ-65I	Downgradient B	9/09/2022	2562240.57	1161692.72	379.6	382.06	320.9	310.9	69.3	10
PZ-66I	Downgradient B	9/08/2022	2562134.65	1161747.91	380.9	383.52	323.1	313.1	68.3	10
PZ-67	Downgradient B	9/07/2022	2561919.76	1161831.98	378.8	381.48	351.0	341.0	38.3	10
PZ-69I	Downgradient D	8/31/2022	2558447.46	1160311.39	377.0	379.36	348.2	338.2	39.3	10
PZ-71I	Downgradient D	5/2/2023	2558230.83	1160295.35	382.6	385.34	352.8	342.8	40.0	10
PZ-72I	Downgradient D	5/9/2023	2558394.65	1160133.29	365.9	368.57	342.0	332.0	34.2	10
PZ-73I	Downgradient D	5/10/2023	2558559.30	1160226.37	349.9	352.63	334.9	324.9	25.3	10

Notes:
ft = feet
ft BGS = feet below ground surface
(1) Coordinates in North American Datum (NAD) 1983, State Plane, Georgia-West, feet.
(2) Elevations referenced to the North American Vertical Datum of 1988 (NAVD88).

Table 2

Groundwater Sampling Event Summary
Plant Branch AP-E, Putnam County, Georgia

Well ID	Hydraulic Location	Aug. 22-24, 2023	Jan. 30-31, 2024	Status of Monitoring Well
Purpose of Sampling Event:		**Assessment**	**Assessment**	
Detection Monitoring Well Network				
BRGWA-2S	Upgradient	X	X	Assessment
BRGWA-2I	Upgradient	X	X	Assessment
BRGWA-5S	Upgradient	X	X	Assessment
BRGWA-5I	Upgradient	X	X	Assessment
BRGWA-6S	Upgradient	X	X	Assessment
BRGWC-17S	Downgradient	X	X	Assessment
BRGWC-33S	Downgradient	X	X	Assessment
BRGWC-34S	Downgradient	X	X	Assessment
BRGWC-35S	Downgradient	X	X	Assessment
BRGWC-36S	Downgradient	X	X	Assessment
BRGWC-37S	Downgradient	X	X	Assessment
BRGWC-38S	Downgradient	X	X	Assessment
Assessment Monitoring Well Network				
PZ-13S	Downgradient	X	X	Assessment
PZ-52D	Downgradient	X	X	Assessment
PZ-53D	Downgradient	X	X	Assessment
PZ-70I	Downgradient	X	X	Assessment

Table 3
Summary of Groundwater Elevations
Plant Branch AP-E, Putnam County, Georgia

Well ID	Top of Casing Elevation [(1)] (ft)	August 21, 2023		January 29, 2024	
		Depth to Water (ft BTOC)	Groundwater Elevation [(1)] (ft)	Depth to Water (ft BTOC)	Groundwater Elevation [(1)] (ft)
AP-BCD Detection Monitoring Well Network					
BRGWA-2S	443.20	12.27	430.93	12.04	431.16
BRGWA-2I	443.14	12.07	431.07	11.86	431.28
BRGWA-5S	443.86	12.94	430.92	13.57	430.29
BRGWA-5I	443.79	12.85	430.94	13.43	430.36
BRGWA-6S	458.96	26.46	432.50	27.61	431.35
BRGWA-23S	428.24	38.69	389.55	41.41	386.83
BRGWC-25I	357.37	11.08	346.29	11.83	345.54
BRGWC-27I	366.86	10.98	355.88	12.32	354.54
BRGWC-29I	353.23	10.88	342.35	10.63	342.60
BRGWC-30I	352.61	4.88	347.73	5.02	347.59
BRGWC-32S	406.39	40.50	365.89	41.76	364.63
BRGWC-45	384.58	15.20	369.38	14.90	369.68
BRGWC-47	411.20	27.42	383.78	29.65	381.55
BRGWC-50	381.35	38.23	343.12	38.48	342.87
BRGWC-52I	383.87	39.68	344.19	40.18	343.69
AP-E Detection Monitoring Well Network					
BRGWA-2S	443.20	12.27	430.93	12.04	431.16
BRGWA-2I	443.14	12.07	431.07	11.86	431.28
BRGWA-5S	443.86	12.94	430.92	13.57	430.29
BRGWA-5I	443.79	12.85	430.94	13.43	430.36
BRGWA-6S	458.96	26.46	432.50	27.61	431.35
BRGWC-17S	365.32	6.03	359.29	5.91	359.41
BRGWC-33S	416.68	12.31	404.37	13.35	403.33
BRGWC-34S	391.96	3.45	388.51	3.43	388.53
BRGWC-35S	366.31	2.20	364.11	0.83	365.48
BRGWC-36S	389.84	4.98	384.86	5.20	384.64
BRGWC-37S	447.05	53.22	393.83	54.60	392.45
BRGWC-38S	432.24	23.30	408.94	24.63	407.61
AP-BCD Assessment Monitoring Well Network					
PZ-44	383.04	27.66	355.38	30.11	352.93
PZ-50D	380.86	38.42	342.44	38.66	342.20
PZ-51S	380.27	38.25	342.02	38.51	341.76
PZ-51I	380.52	38.38	342.14	38.38	342.14
PZ-51D	380.75	38.11	342.64	38.25	342.50
PZ-57I	382.50	36.29	346.21	37.20	345.30
PZ-58I	382.27	37.41	344.86	38.08	344.19
PZ-59I	383.49	38.73	344.76	39.42	344.07
PZ-60I	382.61	38.19	344.42	38.75	343.86
PZ-61I	380.64	40.66	339.98	40.23	340.41
PZ-62I	380.95	39.17	341.78	39.12	341.83
PZ-63I	381.31	39.47	341.84	39.44	341.87
PZ-64I	381.94	38.53	343.41	38.85	343.09
PZ-65I	382.06	36.08	345.98	36.94	345.12
PZ-66I	383.52	35.75	347.77	36.93	346.59
PZ-68D	405.25	40.75	364.50	42.27	362.98
PZ-74I	371.13	28.17	342.96	28.40	342.73
PZ-75I	357.86	17.86	340.00	17.36	340.50
AP-E Assessment Monitoring Well Network					
PZ-13S	409.97	27.85	382.12	30.09	379.88
PZ-52D	417.03	24.93	392.10	25.47	391.56
PZ-53D	434.68	24.07	410.61	25.71	408.97
PZ-70I	425.70	28.62	397.08	30.50	395.20
AP-E Assessment Monitoring Well Network					
PZ-13S	409.97	27.85	382.12	30.09	379.88
PZ-52D	417.03	24.93	392.10	25.47	391.56
PZ-53D	434.68	24.07	410.61	25.71	408.97
PZ-70I	425.70	28.62	397.08	30.50	395.20

Table 3
Summary of Groundwater Elevations
Plant Branch AP-E, Putnam County, Georgia

Well ID	Top of Casing Elevation [(1)] (ft)	August 21, 2023		January 29, 2024	
		Depth to Water (ft BTOC)	Groundwater Elevation [(1)] (ft)	Depth to Water (ft BTOC)	Groundwater Elevation [(1)] (ft)
Piezometers					
PZ-1D	463.41	39.89	423.52	41.22	422.19
PZ-1I	464.71	41.53	423.18	42.98	421.73
PZ-1S	465.07	39.69	425.38	41.25	423.82
PZ-3D	487.50	49.44	438.06	49.60	437.90
PZ-3I	489.49	51.06	438.43	51.69	437.80
PZ-3S	490.53	--	--	--	--
PZ-4I	482.98	33.98	449.00	35.30	447.68
PZ-4S	482.87	32.21	450.66	--	--
PZ-7S	451.57	28.60	422.97	31.14	420.43
PZ-8S	453.08	27.06	426.02	27.82	425.26
PZ-9S	469.28	35.90	433.38	37.04	432.24
PZ-10S	433.85	27.75	406.10	29.12	404.73
PZ-14I	422.71	19.95	402.76	21.16	401.55
PZ-14S	423.31	23.84	399.47	25.34	397.97
PZ-15I	403.06	11.12	391.94	11.20	391.86
PZ-15S	402.90	11.38	391.52	11.41	391.49
PZ-16I	382.45	12.43	370.02	11.95	370.50
PZ-16S	382.52	12.59	369.93	12.11	370.41
PZ-17I	365.33	3.56	361.77	2.92	362.41
PZ-18I	362.55	20.68	341.87	20.73	341.82
PZ-18S	362.82	20.87	341.95	20.92	341.90
PZ-19I	371.74	15.13	356.61	16.85	354.89
PZ-19S	371.42	14.85	356.57	16.34	355.08
PZ-20I	365.34	17.14	348.20	17.23	348.11
PZ-20S	365.41	17.28	348.13	17.37	348.04
PZ-21I	358.92	12.58	346.34	13.36	345.56
PZ-21S	358.52	12.09	346.43	--	--
PZ-23I	427.74	38.14	389.60	39.77	387.97
PZ-24S	354.10	14.21	339.89	13.91	340.19
PZ-26I	370.63	22.92	347.71	25.43	345.20
PZ-28I	364.81	16.62	348.19	16.72	348.09
PZ-31S	376.77	27.07	349.70	28.48	348.29
PZ-40S	355.96	15.79	340.17	15.70	340.26
PZ-41S	357.17	16.98	340.19	16.90	340.27
PZ-42S	361.66	20.14	341.52	20.66	341.00
PZ-43	383.71	29.72	353.99	31.20	352.51
PZ-46	384.64	11.69	372.95	11.64	373.00
PZ-48	420.90	31.82	389.08	34.24	386.66
PZ-49	384.99	9.47	375.52	9.56	375.43
PZ-54	443.86	49.29	394.57	50.97	392.89
PZ-55	453.07	55.51	397.56	47.79	405.28
PZ-56	418.84	9.21	409.63	8.05	410.79
PZ-67	381.48	30.41	351.07	32.17	349.31
PZ-69I	379.36	21.95	357.41	22.63	356.73
PZ-71I	385.34	34.14	351.20	34.30	351.04
PZ-72I	368.57	25.87	342.70	25.53	343.04
PZ-73I	352.63	7.57	345.06	7.55	345.08

Notes:
-- = Dry well, groundwater depth not measured
ft = feet
ft BTOC = feet below top of casing
(1) Elevations referenced to the North American Vertical Datum of 1988 (NAVD88).

Table 4
Horizontal Gradient and Flow Velocity Calculations
Plant Branch AP-E, Putnam County, Georgia

	August 21, 2023				January 29, 2024			
Flow Path Direction [(1)]	**h_1 (ft)**	**h_2 (ft)**	**L (ft)**	**i (ft/ft)**	**h_1 (ft)**	**h_2 (ft)**	**L (ft)**	**i (ft/ft)**
BRGWA-5S/BRGWC-33S	430.92	404.37	5108	0.005	430.29	403.33	5108	0.005
PZ-4S or 4I/BRGWC-38S[(4)]	450.66	408.94	3917	0.011	447.68	407.61	3904	0.010

			Average		
Flow Path Direction [(1)]	**K_h (ft/day)**	**n_e**	**i (ft/ft)**	**V (ft/day)[(2)]**	**V (ft/day)[(3)]**
BRGWA-5S/BRGWC-33S	2.21	0.20	0.005	0.06	0.09
PZ-4S or 4I/BRGWC-38S[(4)]	2.21	0.20	0.010	0.12	

Notes:
ft = feet
ft/day = feet per day
ft/ft = feet per foot
h_1 and h_2 = groundwater elevation at location 1 and 2
$i = h_1\text{-}h_2/L$ = horizontal hydraulic gradient
K_h = horizontal hydraulic conductivity
L = distance between location 1 and 2 along the flow path
n_e = effective porosity
V = groundwater flow velocity
(1) Flow path direction relative to the orientation of AP-E and illustrated on Figure 3 of associated report.
(2) Groundwater flow velocity equation: $V = [K_h * i] / n_e$
(3) Average groundwater flow velocity for unit.
(4) Groundwater elevation at PZ-4S was used to contour the water level in August 2023 since PZ-4I was dry. PZ-4I was used to contour the water level in January 2024.

Table 5
Summary of Groundwater Analytical Data
Plant Branch AP-E, Putnam County, Georgia

	Well ID:	BRGWA-2S	BRGWA-2S	BRGWA-2I	BRGWA-2I	BRGWA-5S	BRGWA-5S	BRGWA-5I	BRGWA-5I	BRGWA-6S	BRGWA-6S	BRGWC-17S	BRGWC-17S	BRGWC-33S	BRGWC-33S	BRGWC-34S	BRGWC-34S
	Sample Date:	08/22/23	01/30/24	08/22/23	01/30/24	08/22/23	01/30/24	08/22/23	01/30/24	08/22/23	01/30/24	08/23/23	01/30/24	08/22/23	01/31/24	08/22/23	01/31/24
	Parameter [1,2,3]																
APPENDIX III	Boron	0.00738 J	< 0.0052	0.00649 J	< 0.0052	0.00764 J	< 0.0052	0.00730 J	< 0.0052	0.00611 J	< 0.0052	0.0601	0.0758	0.946	1.28	1.90	2.14
	Calcium	5.02	5.25	12.6	14.1	14.9	18.2	14.3	16	3.79	4.27	47.9	53.3	135	281	83.4	99.2
	Chloride	2.14	2.14	1.90	2.35	3.37	3.52	3.53	3.98	2.34	3.23	5.18	5.69	32.7	65.3	13.2	15.7
	Fluoride	0.229	0.184	0.267	< 0.033	0.277	0.233	0.289	0.232	0.0787 J	0.0341 J	0.484	0.34	0.123	0.194	0.0816 J	0.101
	pH	5.97	6.05	6.91	6.57	6.09	6.38	6.36	6.44	6.27	5.75	6.16	6.28	4.58	4.78	5.72	5.95
	Sulfate	0.526	0.423	6.85	2.65	0.540	0.617	1.83	2.74	0.467	0.456	180	189	466	872	299	289
	TDS	36	54	81	98	73	113	80	118	30	45	391	413	778	1,420	495	494
APPENDIX IV	Antimony	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	Arsenic	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	0.00516	< 0.002	< 0.002
	Barium	0.0135	0.0137	0.0068	0.0124	0.0352	0.0396	0.0245	0.0296	0.0143	0.0151	0.0445	0.0522	0.0357	0.0515	0.0268	0.0261
	Beryllium	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	0.00190	0.00269	< 0.0002	0.000202 J
	Cadmium	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	0.000533 J	0.000792 J	< 0.0003	< 0.0003
	Chromium	0.00921 J	0.00854 J	< 0.003	0.00458 J	0.00472 J	0.00582 J	0.00701 J	0.00551 J	0.0132	0.0139	0.0115	0.011	< 0.003	< 0.003	< 0.003	< 0.003
	Cobalt	0.000707 J	0.000962 J	0.000707 J	0.0014	0.000327 J	< 0.0003	0.000474 J	0.000555 J	< 0.0003	< 0.0003	< 0.0003	< 0.0003	0.0659	0.0988	0.00384	0.00751
	Fluoride	0.229	0.184	0.267	< 0.033	0.277	0.233	0.289	0.232	0.0787 J	0.0341 J	0.484	0.34	0.123	0.194	0.0816 J	0.101
	Lead	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
	Lithium	< 0.003	< 0.003	0.0209	0.00407 J	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	0.00317 J	< 0.003	< 0.003	0.00967 J	0.0117	< 0.003	< 0.003
	Mercury	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067
	Molybdenum	< 0.0002	< 0.0002	0.00169	0.000362 J	< 0.0002	< 0.0002	0.000953 J	0.00143	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
	Comb. Radium 226/228	0.592 U	2.54	0.857 U	1.25	1.31 U	0 U	1.36	1.48 U	1.89 U	1.29	1.92 U	1.36	0.521 U	2.66	1.06 U	1.31 U
	Selenium	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	0.00214 J	0.00271 J	0.00572	0.0164	< 0.0015	< 0.0015
	Thallium	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006
GEOCHEM	Alkalinity (Bicarbonate as CaCO3)	37.1	38.1	71.7	68.4	68.4	78.1	77.2	81.1	36.8	25.9	71.8	74.4	1.40 J	2.2	28.9	33.5
	Alkalinity (Carbonate as CaCO3)	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725
	Alkalinity (total) as CaCO3	37.1	38.1	71.7	68.4	68.4	78.1	77.2	81.1	36.8	25.9	71.8	74.4	1.40 J	2.2	28.9	33.5
	Ferrous Iron	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
	Iron	0.0513 J	0.119	0.0904 J	0.224	0.263	0.087 J	0.0953 J	0.0342 J	< 0.033	< 0.033	0.0446 J	< 0.033	0.0388 J	0.0373 J	< 0.033	< 0.033
	Magnesium	4.66	5.36	7.27	8.67	6.25	8.58	9.41	10.8	3.48	4.38	24.7	32.3	19.5	45.2	18.9	20.1
	Manganese	0.0283	0.0378	0.0145	0.0159	0.0105	0.00634	0.00104 J	0.0012 J	0.00120 J	< 0.001	< 0.001	< 0.001	3.14	5.33	3.33	4.17
	Nitrate	0.218	0.275	< 0.033	0.271	0.203	0.204	0.266	0.349	0.646	0.671	0.0940 J	0.119	0.0707 J	< 0.033	0.0431 J	0.0409 J
	Potassium	0.415	0.443	5.25	1.79	0.435	0.515	0.933	1.23	0.607	0.659	1.19	1.26	14.4	19.4	3.52	3.73
	Sodium	3.09	3.51	5.26	5.31	3.48	4.64	4.69	5.05	2.11	2.6	24.3	26.7	39.9	67.7	20.7	22
	Sulfide	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033

Notes:
< = Indicates the parameter was not detected above the analytical method detection limit (MDL).
J = Indicates the parameter was estimated and detected between the MDL and the reporting limit (RL).
TDS = total dissolved solids
U = Indicates the parameter was not detected above the analytical minimum detectable concentration (MDC) (Specific to combined radium 226/228)
(1) Appendix III/IV parameter per 40 CFR 257 Subpart D. Parameters are reported in units of milligrams per liter (mg/L), except for pH reported as s.u. (standard units) and combined radium reported as picocuries per liter (pCi/L).
(2) Metals were analyzed by EPA Method 6010D, 6020B, and 7470A, anions were analyzed by EPA Method 300.0, TDS was analyzed by SM2540-2011, and combined radium 226/228 by EPA Methods 9315/9320.
(3) The pH value presented was recorded at the time of sample collection in the field.

Table 5
Summary of Groundwater Analytical Data
Plant Branch AP-E, Putnam County, Georgia

	Well ID:	BRGWC-35S	BRGWC-35S	BRGWC-36S	BRGWC-36S	BRGWC-37S	BRGWC-37S	BRGWC-38S	BRGWC-38S	PZ-13S	PZ-13S	PZ-52D	PZ-52D	PZ-53D	PZ-53D	PZ-70I	PZ-70I
	Sample Date:	08/22/23	01/30/24	08/23/23	01/31/24	08/23/23	01/31/24	08/22/23	01/31/24	08/23/23	01/30/24	08/23/23	01/31/24	08/24/23	01/31/24	08/23/23	01/31/24
	Parameter [1,2,3]																
APPENDIX III	Boron	2.36	2.39	1.04	1.12	0.00802 J	< 0.0052	1.37	1.26	0.00855 J	0.00656 J	0.0668	0.0633	1.06	1.03	1.01	1.06
	Calcium	71.4	68.9	43.4	44.4	3.47	3.54	28.7	23.7	8.74	15.9	46.7	45.6	74.4	81.7	31.4	31.6
	Chloride	6.21	6.51	8.26	8.32	1.89	2	6.44	7	2.73	3.19	6.90	5.59	4.43	4.58	5.75	5.74
	Fluoride	0.347	0.263	0.301	0.144	0.0445 J	0.109	0.748	0.493	< 0.033	0.222	1.94	1.9	0.334	0.153	0.229	0.108
	pH	5.90	5.5	5.26	5.63	5.42	5.76	3.91	4.1	5.37	5.66	6.99	7.69	6.54	6.7	5.36	5.5
	Sulfate	269	278	223	222	0.355 J	0.258 J	274	233	46.2	76.9	112	94.4	293	302	139	133
	TDS	485	502	398	435	42	37	459	393	112	161	372	342	499	547	252	252
APPENDIX IV	Antimony	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	Arsenic	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
	Barium	0.0286	0.0299	0.0243	0.0273	0.0266	0.0256	0.0134	0.016	0.0683	0.0499	0.0163	0.0184	0.0485	0.0517	0.0196	0.0207
	Beryllium	0.000200 J	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	0.00680	0.00591	0.000259 J	0.000388 J	< 0.0002	< 0.0002	< 0.0002	< 0.0002	0.000325 J	0.00034 J
	Cadmium	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	0.000410 J	0.000342 J	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003
	Chromium	0.00592 J	0.0059 J	0.00649 J	0.00648 J	< 0.003	< 0.003	0.00338 J	0.00305 J	0.0111	0.0134	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
	Cobalt	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	0.139	0.134	< 0.0003	< 0.0003	0.000307 J	0.00104	< 0.0003	< 0.0003	0.000784 J	0.000866 J
	Fluoride	0.347	0.263	0.301	0.144	0.0445 J	0.109	0.748	0.493	< 0.033	0.222	1.94	1.9	0.334	0.153	0.229	0.108
	Lead	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
	Lithium	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	0.0195	0.0201	< 0.003	< 0.003	0.0182	0.0184	0.0185	0.0182	0.00385 J	0.00385 J
	Mercury	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067	0.000085 J	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067	0.00322	0.00149
	Molybdenum	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	0.0154	0.0137	0.00211	0.00209	< 0.0002	< 0.0002
	Comb. Radium 226/228	3.33	2.4	3.87	2.31	0.578 U	1.74	5.98	2.98	0.823 U	2.01	1.14 U	2.54	3.67	3.57	4.35	1.55
	Selenium	< 0.0015	< 0.0015	0.00173 J	0.00174 J	< 0.0015	< 0.0015	0.0186	0.0187	< 0.0015	0.00203 J	< 0.0015	< 0.0015	< 0.0015	< 0.0015	0.00829	0.00789
	Thallium	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006
GEOCHEM	Alkalinity (Bicarbonate as CaCO3)	52.7	54.1	20.6	21.3	21.9	22.5	< 0.725	< 0.725	21.0	20.4	180	178	50.9	52.5	14.5	15.9
	Alkalinity (Carbonate as CaCO3)	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725
	Alkalinity (total) as CaCO3	52.7	54.1	20.6	21.3	21.9	22.5	< 0.725	< 0.725	21.0	20.4	180	178	50.9	52.5	14.5	15.9
	Ferrous Iron	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
	Iron	0.100	< 0.033	0.0387 J	< 0.033	< 0.033	< 0.033	0.0343 J	< 0.033	< 0.033	< 0.033	0.0556 J	0.192	0.327	0.213	0.105	0.123
	Magnesium	32	36.6	17.2	18.8	1.16	1.22	30.4	29.2	5.04	10.1	10.7	11.3	17.3	19.4	11.1	11.3
	Manganese	0.0108	0.0108	0.00167 J	< 0.001	< 0.001	< 0.001	1.43	1.4	0.00237 J	0.00176 J	0.00623	0.00989	0.503	0.52	0.291	0.267
	Nitrate	< 0.033	0.183	0.136	0.159	0.294	0.293	0.123	0.119	0.0695 J	0.0732 J	< 0.033	0.151	0.0807 J	0.0429 J	0.175	0.152
	Potassium	3.93	4.11	3.40	3.62	1.79	1.86	5.28	5.15	3.58	4.28	7.47	5.6	5.84	6.03	3.91	3.97
	Sodium	18.5	19.3	36.9	38.5	4.23	4.35	36.3	31.3	11.4	11.9	68.2	58.6	42.8	43.3	19.5	19.8
	Sulfide	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033

Notes:
< = Indicates the parameter was not detected above the analytical method detection limit (MDL).
J = Indicates the parameter was estimated and detected between the MDL and the reporting limit (RL).
TDS = total dissolved solids
U = Indicates the parameter was not detected above the analytical minimum detectable concentration (MDC) (Specific to combined radium 226/228)
(1) Appendix III/IV parameter per 40 CFR 257 Subpart D. Parameters are reported in units of milligrams per liter (mg/L), except for pH reported as s.u. (standard units) and combined radium reported as picocuries per liter (pCi/L).
(2) Metals were analyzed by EPA Method 6010D, 6020B, and 7470A, anions were analyzed by EPA Method 300.0, TDS was analyzed by SM2540-2011, and combined radium 226/228 by EPA Methods 9315/9320.
(3) The pH value presented was recorded at the time of sample collection in the field.

Table 6

Summary of Background Concentrations and Groundwater Protection Standards

Plant Branch AP-E, Putnam County, Georgia

Analyte	Units	MCL	CCR-Rule Specified	Background[(1)] August 2023	Background[(1)] January 2024	GWPS[(2)(3)]
Antimony	mg/L	0.006		0.003	0.0016	0.006
Arsenic	mg/L	0.01		0.005	0.0027	0.01
Barium	mg/L	2		0.063	0.063	2
Beryllium	mg/L	0.004		0.0005	0.0002	0.004
Cadmium	mg/L	0.005		0.001	0.0003	0.005
Chromium	mg/L	0.1		0.016	0.016	0.1
Cobalt	mg/L	n/a	0.006	0.0034	0.0034	0.006
Fluoride	mg/L	4		0.29	0.29	4
Lead	mg/L	n/a	0.015	0.002	0.0013	0.015
Lithium	mg/L	n/a	0.040	0.089	0.089	0.089
Mercury	mg/L	0.002		0.00021	0.00021	0.002
Molybdenum	mg/L	n/a	0.1	0.008	0.008	0.1
Selenium	mg/L	0.05		0.005	0.0015	0.05
Thallium	mg/L	0.002		0.002	0.0006	0.002
Combined Radium-226/228	pCi/L	5		1.79	1.93	5

Notes:

CCR = Coal Combustion Residuals

GWPS = Groundwater Protection Standard

MCL = Maximum Contaminant Level

mg/L = milligrams per liter

n/a = not applicable

pCi/L = picocuries per liter

Statistical analyses were performed per semiannual assessment monitoring event conducted during the reporting period.

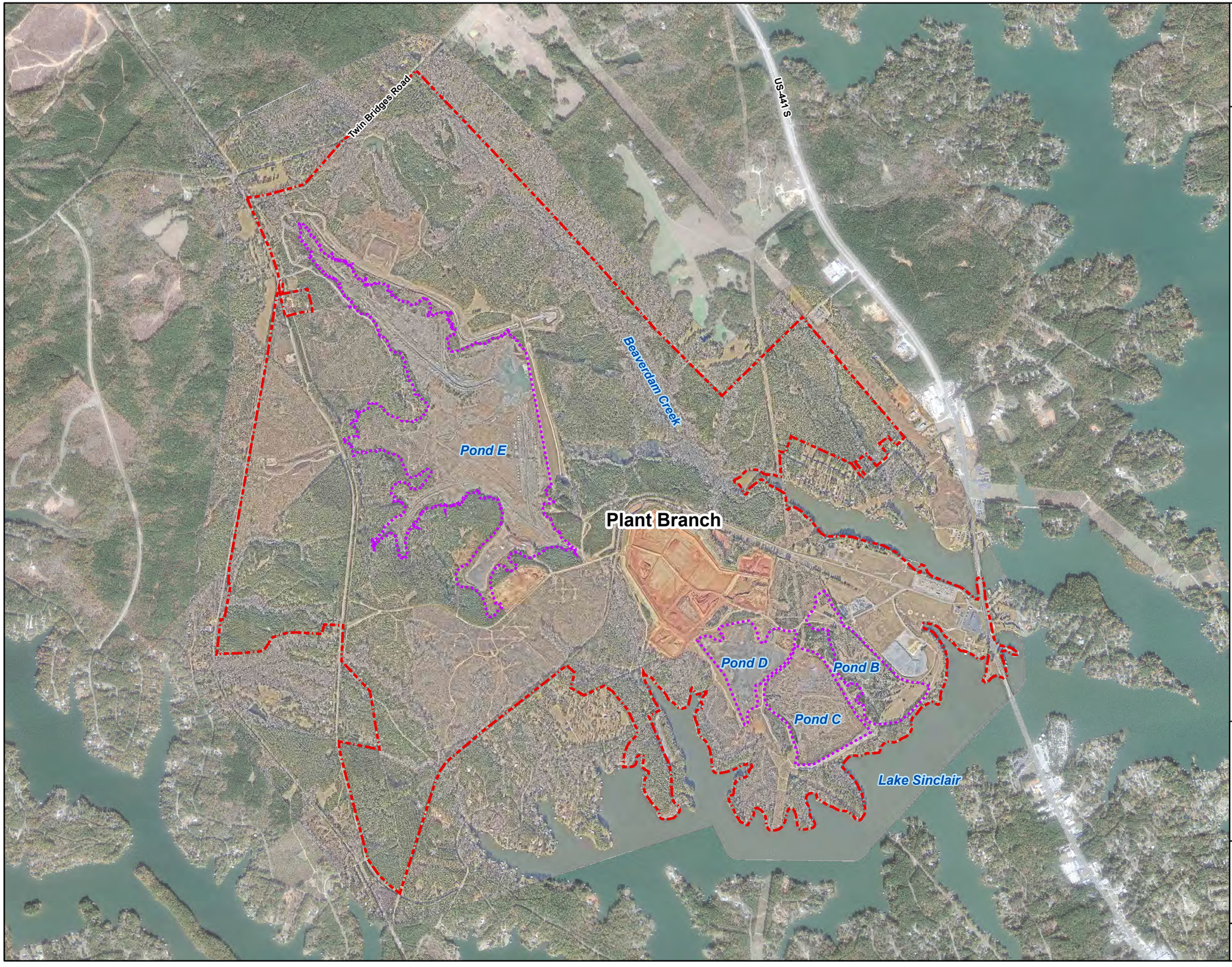
Background limits and groundwater protection standards (GWPS) are applicable to the August 2023 event.

(1) The background limits were used when determining the GWPS under 40 CFR 257.95(h) and Georgia Environmental Protection Division (GA EPD) Rule 391-3-4-.10(6)(a).

(2) Under 40 CFR 257.95(h)(1-3) the Federal GWPS is: (i) the maximum contaminant level (MCL) established under 141.62 and 141.66 of this title; (ii) where an MCL has not been established a rule-specific GWPS is used; or (iii) background concentrations for constituents were the background level is higher than the MCL or rule-specified GWPS.

(3) On February 22, 2022, GA EPD updated the Rules for Solid Waste Management 391-3-4-.10(6) to incorporate updated Federal GWPSs where an MCL has not been established, except when site-specific background concentrations of constituents is higher.

FIGURES



N

LEGEND

- Plant Branch Property Boundary
- Approximate Ash Pond Boundary

Notes:
1. Coordinate System: NAD 1983 State Plane Georgia West_FIPS (U.S. Feet).
2. Property Boundary Provided by Southern Company Services.
3. Aerial: Google Earth Imagery, November 2019 and Georgia Power Company, January 2024.

0 2,000 4,000
Scale in Feet

SITE LOCATION MAP

GEORGIA POWER COMPANY
PLANT BRANCH AP-E
PUTNAM COUNTY, GEORGIA

Prepared For: Georgia Power

Prepared By: Geosyntec consultants

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FIGURE 1

N

LEGEND

- Detection Monitoring Well
- Horizontal Assessment Monitoring Well
- Vertical Assessment Monitoring Well
- Plant Branch Property Boundary
- Approximate Ash Pond Boundary

Notes:
1. Property Boundary Provided by Southern Company Services.
2. Aerial: Google Earth Imagery, November 2019 and Georgia Power Company, January 2024.

0 1,000 2,000
Scale in Feet

MONITORING WELL NETWORK MAP

GEORGIA POWER COMPANY
PLANT BRANCH AP-E
PUTNAM COUNTY, GEORGIA

Prepared For: Georgia Power

Prepared By: Geosyntec consultants

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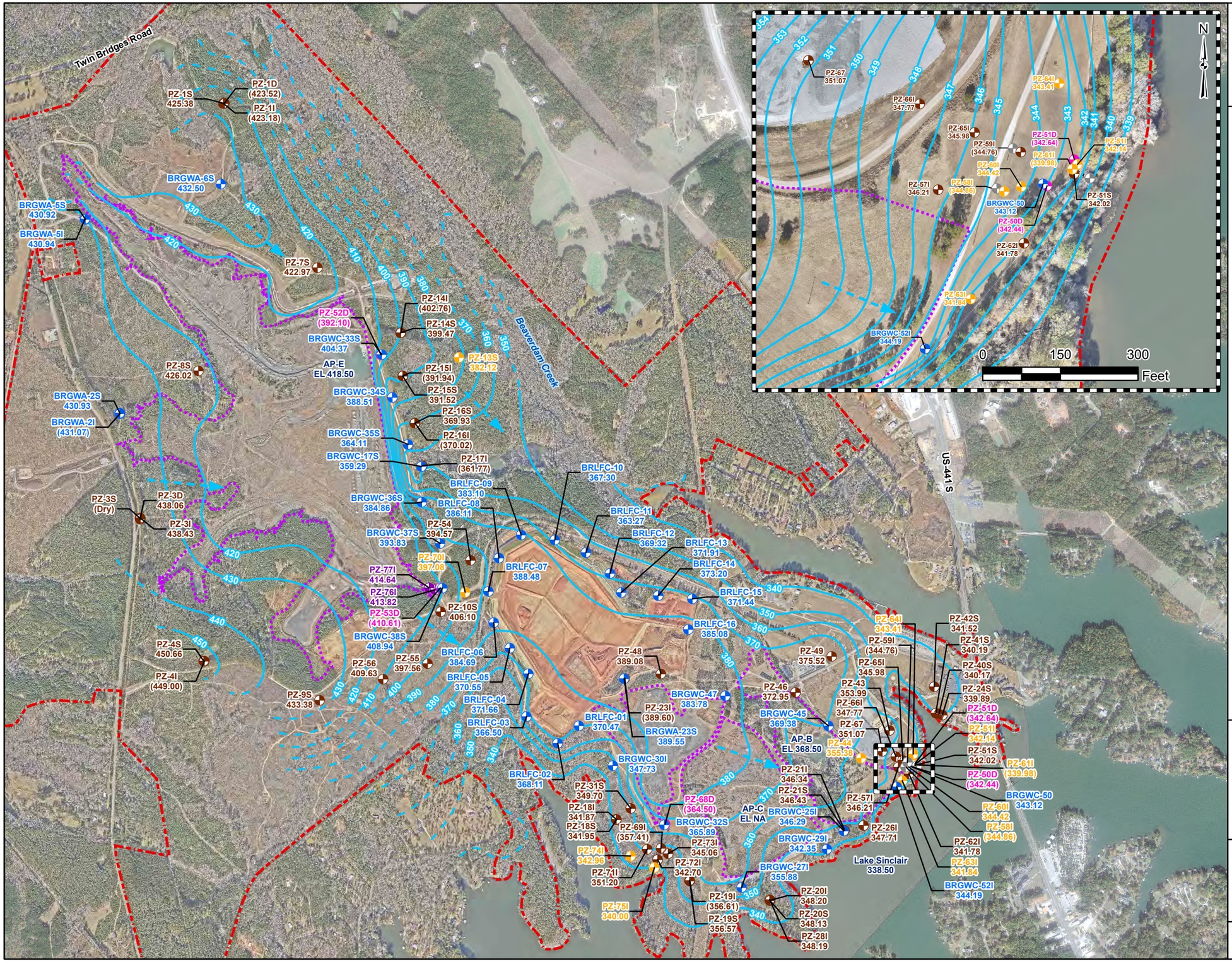
FIGURE 2



LEGEND

- Detection Monitoring Well
- Horizontal Assessment Monitoring Well
- Vertical Assessment Monitoring Well
- Piezometer
- Angled Well Screen
- Temporary Piezometer
- Groundwater Elevation Iso-Contour
- Groundwater Elevation Iso-Contour (Inferred)
- Approximate Groundwater Flow Direction
- Plant Branch Property Boundary
- Approximate Ash Pond Boundary

JOSEPH M. IVANOWSKI ★ GEORGIA REGISTERED PROFESSIONAL GEOLOGIST ★ No. 002140

Notes:
1. Water level elevation recorded on August 21, 2023, for semiannual groundwater event.
2. Elevation provided in feet (ft) referenced to the North American Vertical Datum of 1988 (NAVD 88).
3. Groundwater iso-contours based on linear interpolation and extrapolation from known groundwater elevation data, and topographic elevations.
4. Groundwater elevations in parentheses were not used to make the groundwater contours because these wells are screened at a different elevation in the formation/aquifer.
5. Coordinate System: NAD 1983 State Plane Georgia West_FIPS (U.S. Feet).
6. Property Boundary Provided by Southern Company Services.
7. Aerial: Google Earth Imagery, November 2019 and Georgia Power Company, January 2024.

0 1,500 3,000
Scale in Feet

POTENTIOMETRIC SURFACE CONTOUR MAP - AUGUST 2023

GEORGIA POWER COMPANY
PLANT BRANCH AP-E
PUTNAM COUNTY, GEORGIA

Prepared For: Georgia Power

Prepared By: Geosyntec consultants

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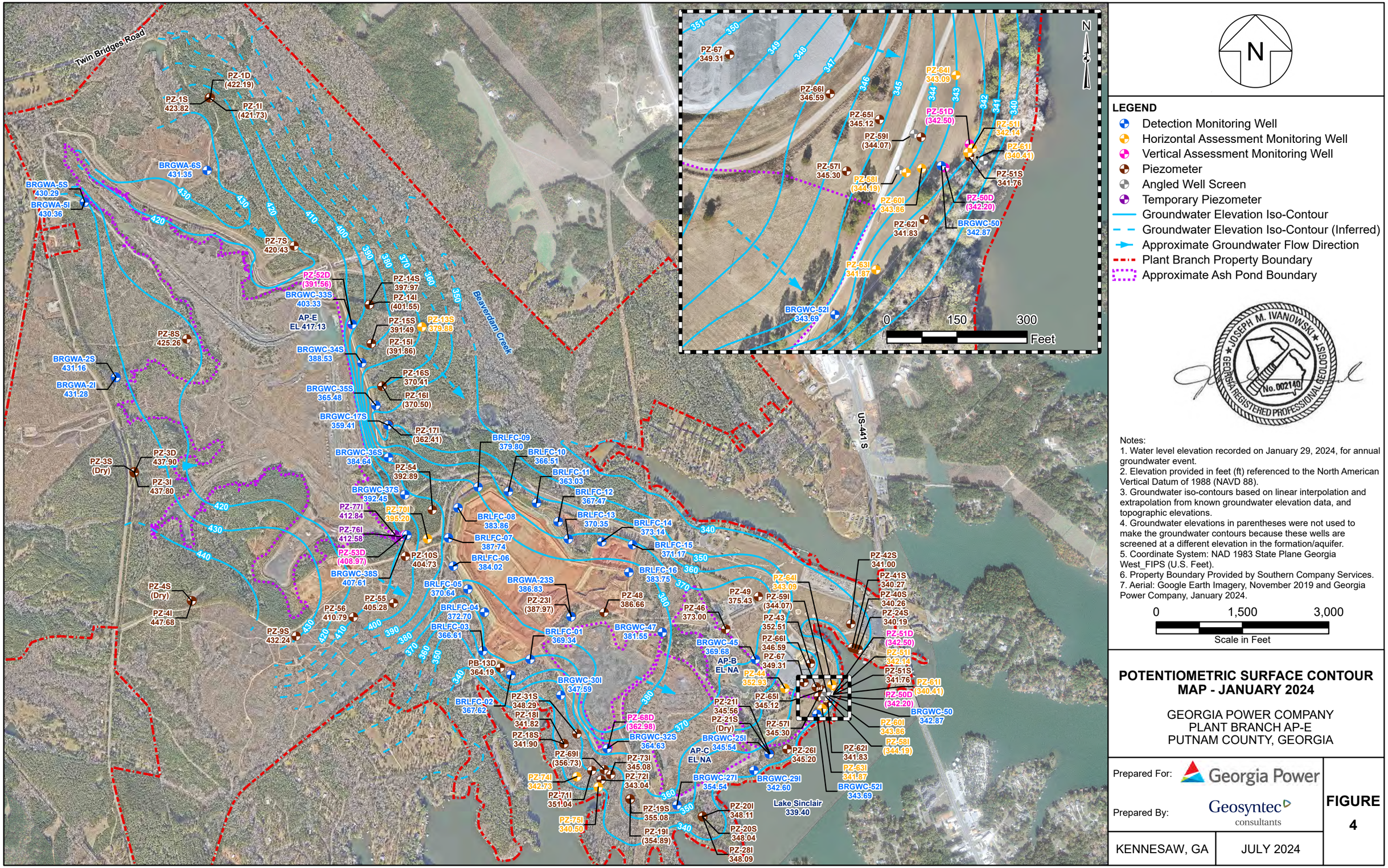
FIGURE 3



LEGEND

- Detection Monitoring Well
- Horizontal Assessment Monitoring Well
- Vertical Assessment Monitoring Well
- Piezometer
- Angled Well Screen
- Temporary Piezometer
- Groundwater Elevation Iso-Contour
- Groundwater Elevation Iso-Contour (Inferred)
- Approximate Groundwater Flow Direction
- Plant Branch Property Boundary
- Approximate Ash Pond Boundary

JOSEPH M. IVANOWSKI ★ GEORGIA REGISTERED PROFESSIONAL GEOLOGIST ★ No. 002140

Notes:
1. Water level elevation recorded on January 29, 2024, for annual groundwater event.
2. Elevation provided in feet (ft) referenced to the North American Vertical Datum of 1988 (NAVD 88).
3. Groundwater iso-contours based on linear interpolation and extrapolation from known groundwater elevation data, and topographic elevations.
4. Groundwater elevations in parentheses were not used to make the groundwater contours because these wells are screened at a different elevation in the formation/aquifer.
5. Coordinate System: NAD 1983 State Plane Georgia West_FIPS (U.S. Feet).
6. Property Boundary Provided by Southern Company Services.
7. Aerial: Google Earth Imagery, November 2019 and Georgia Power Company, January 2024.

0 1,500 3,000
Scale in Feet

POTENTIOMETRIC SURFACE CONTOUR MAP - JANUARY 2024

GEORGIA POWER COMPANY
PLANT BRANCH AP-E
PUTNAM COUNTY, GEORGIA

Prepared For: Georgia Power

Prepared By: Geosyntec consultants

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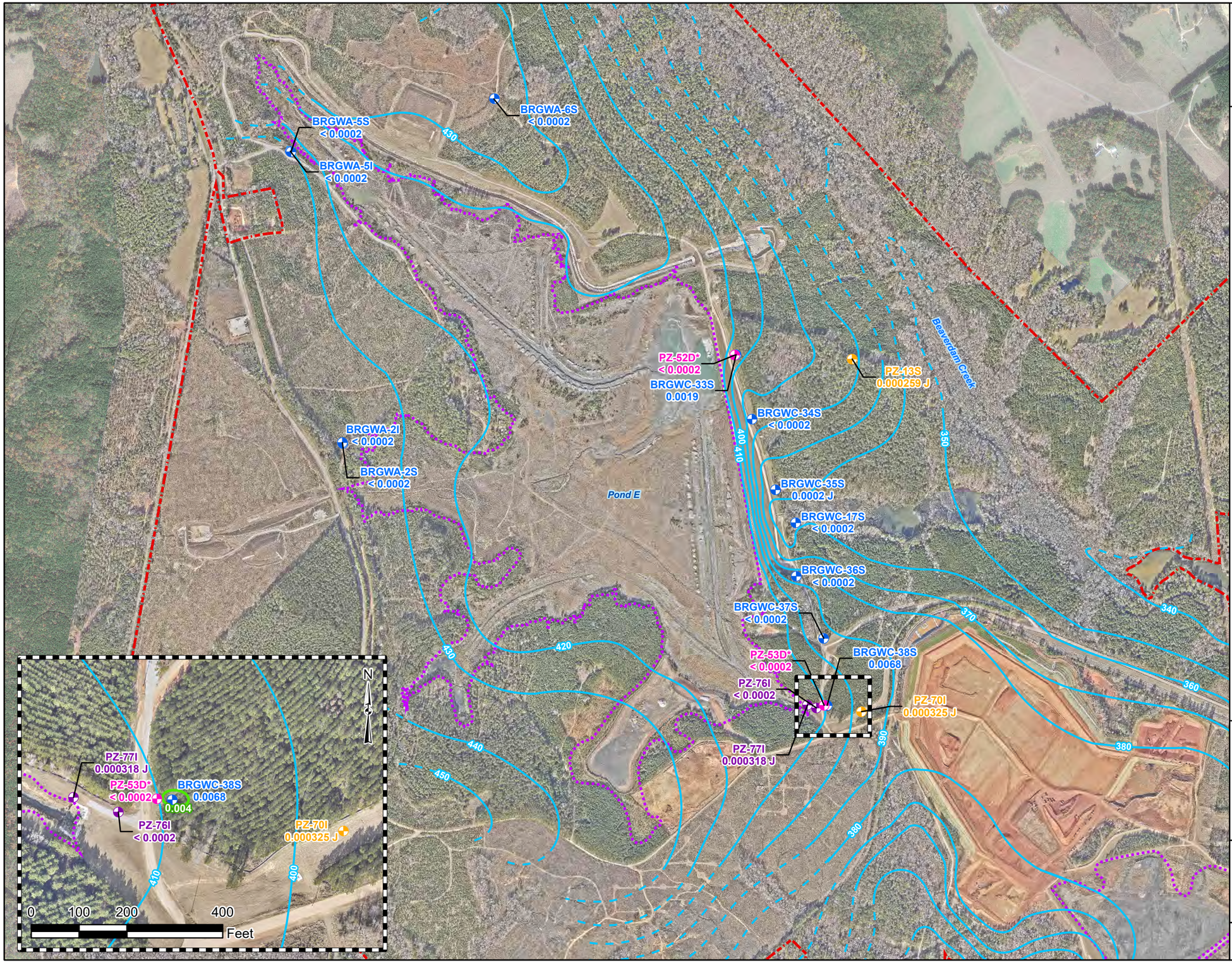
FIGURE 4



N

LEGEND

- Detection Monitoring Well
- Horizontal Assessment Monitoring Well
- Vertical Assessment Monitoring Well
- Temporary Piezometer
- Groundwater Elevation Iso-Contour (August 2023)
- Groundwater Elevation Iso-Contour (Inferred)(August 2023)
- 0.004 Beryllium GWPS Iso-Concentration Contour (mg/L)
- Plant Branch Property Boundary
- Approximate Ash Pond Boundary

Notes:
1. Concentration data from groundwater samples collected during the August 2023, annual monitoring event.
2. Concentrations are reported in milligrams per liter (mg/L).
3. Water level elevation recorded on August 21, 2023.
4. Elevation provided in feet (ft) referenced to the North American Vertical Datum (NAVD) 88.
5. The Groundwater Protection Standard (GWPS) for beryllium is 0.004 mg/L.
6. J - Estimated value.
7. * - Data reported was not used to generate the iso-concentration contour.
8. Property Boundary Provided by Southern Company Services.
9. Aerial: Google Earth Imagery, November 2019 and Georgia Power Company, January 2024.

0 1,000 2,000
Scale in Feet

ISO-CONCENTRATION MAP, BERYLLIUM - AUGUST 2023

GEORGIA POWER COMPANY
PLANT BRANCH AP-E
PUTNAM COUNTY, GEORGIA

Prepared For: Georgia Power

Prepared By: Geosyntec consultants

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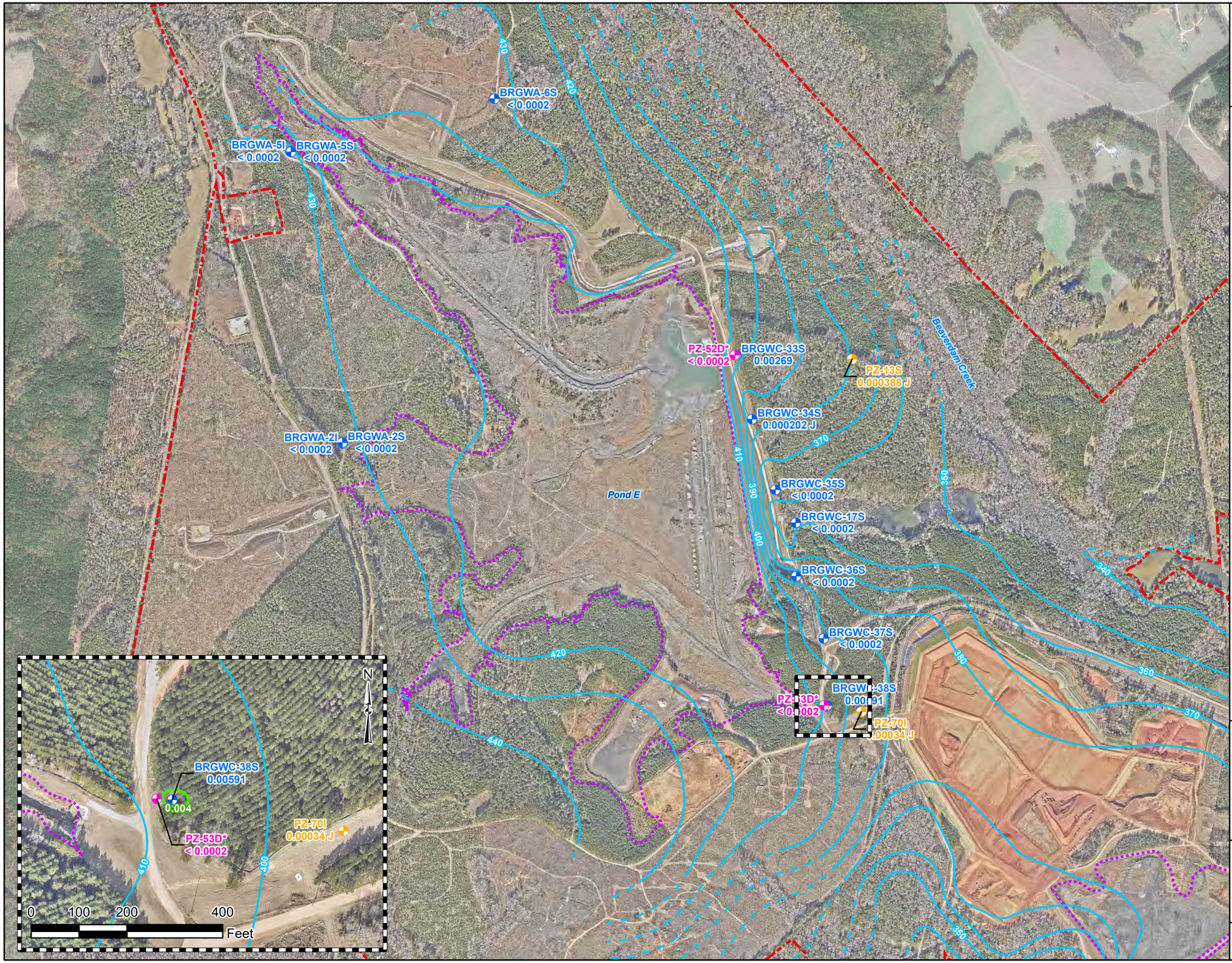
FIGURE 5



LEGEND

- Detection Monitoring Well
- Horizontal Assessment Monitoring Well
- Vertical Assessment Monitoring Well
- Groundwater Elevation Iso-Contour (January 2024)
- Groundwater Elevation Iso-Contour (Inferred)(January 2024)
- 0.004 Beryllium GWPS Iso-Concentration Contour (mg/L)
- Plant Branch Property Boundary
- Approximate Ash Pond Boundary

Notes:
1. Concentration data from groundwater samples collected during the January/February 2024, annual monitoring event.
2. Concentrations are reported in milligrams per liter (mg/L).
3. Water level elevation recorded on January 29, 2024.
4. Elevation provided in feet (ft) referenced to the North American Vertical Datum (NAVD) 88.
5. The Groundwater Protection Standard (GWPS) for beryllium is 0.004 mg/L.
6. J - Estimated value.
7. * - Data reported was not used to generate the iso-concentration contour.
8. Property Boundary Provided by Southern Company Services.
9. Aerial: Google Earth Imagery, November 2019 and Georgia Power Company, January 2024.

0 1,000 2,000
Scale in Feet

ISO-CONCENTRATION MAP, BERYLLIUM - JANUARY 2024

GEORGIA POWER COMPANY
PLANT BRANCH AP-E
PUTNAM COUNTY, GEORGIA

Prepared For: Georgia Power
Prepared By: Geosyntec consultants

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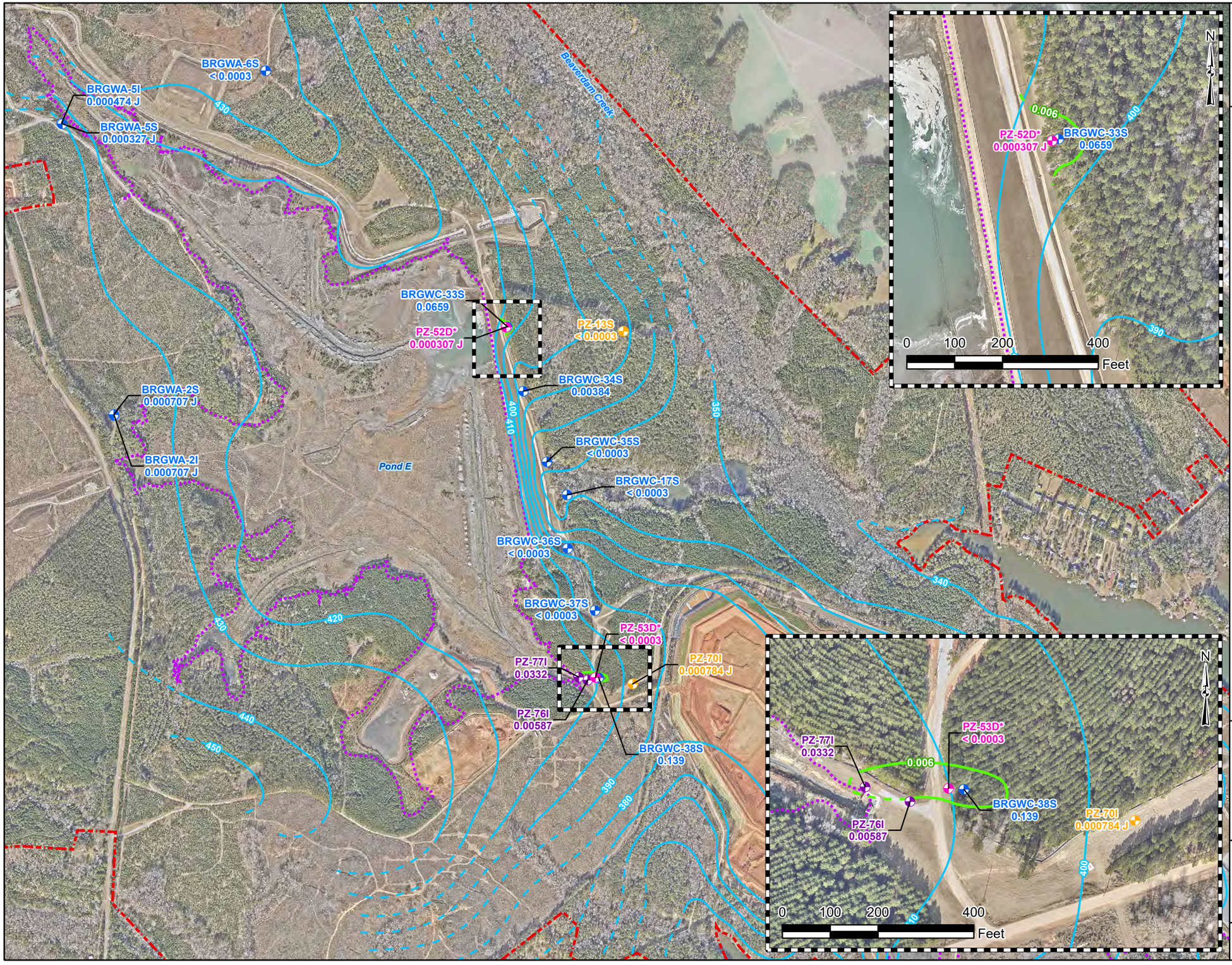
FIGURE 6



LEGEND

- Detection Monitoring Well
- Horizontal Assessment Monitoring Well
- Vertical Assessment Monitoring Well
- Temporary Piezometer
- Groundwater Elevation Iso-Contour (August 2023)
- Groundwater Elevation Iso-Contour (Inferred)(August 2023)
- Cobalt GWPS Iso-Concentration Contour (mg/L) (dashed where inferred)
- Plant Branch Property Boundary
- Approximate Ash Pond Boundary

Notes:
1. Concentration data from groundwater samples collected during the August 2023, semiannual monitoring event.
2. Concentrations are reported in milligrams per liter (mg/L).
3. Water level elevation recorded on August 21, 2023.
4. Elevation provided in feet (ft) referenced to the North American Vertical Datum (NAVD) 88.
5. The Groundwater Protection Standard (GWPS) for cobalt is 0.006 mg/L.
6. J - Estimated value.
7. * - Data reported was not used to generate the iso-concentration contour.
8. Property Boundary Provided by Southern Company Services.
9. Aerial: Google Earth Imagery, November 2019 and Georgia Power Company, January 2024.

0 1,000 2,000
Scale in Feet

ISO-CONCENTRATION MAP, COBALT - AUGUST 2023

GEORGIA POWER COMPANY
PLANT BRANCH AP-E
PUTNAM COUNTY, GEORGIA

Prepared For: Georgia Power
Prepared By: Geosyntec consultants

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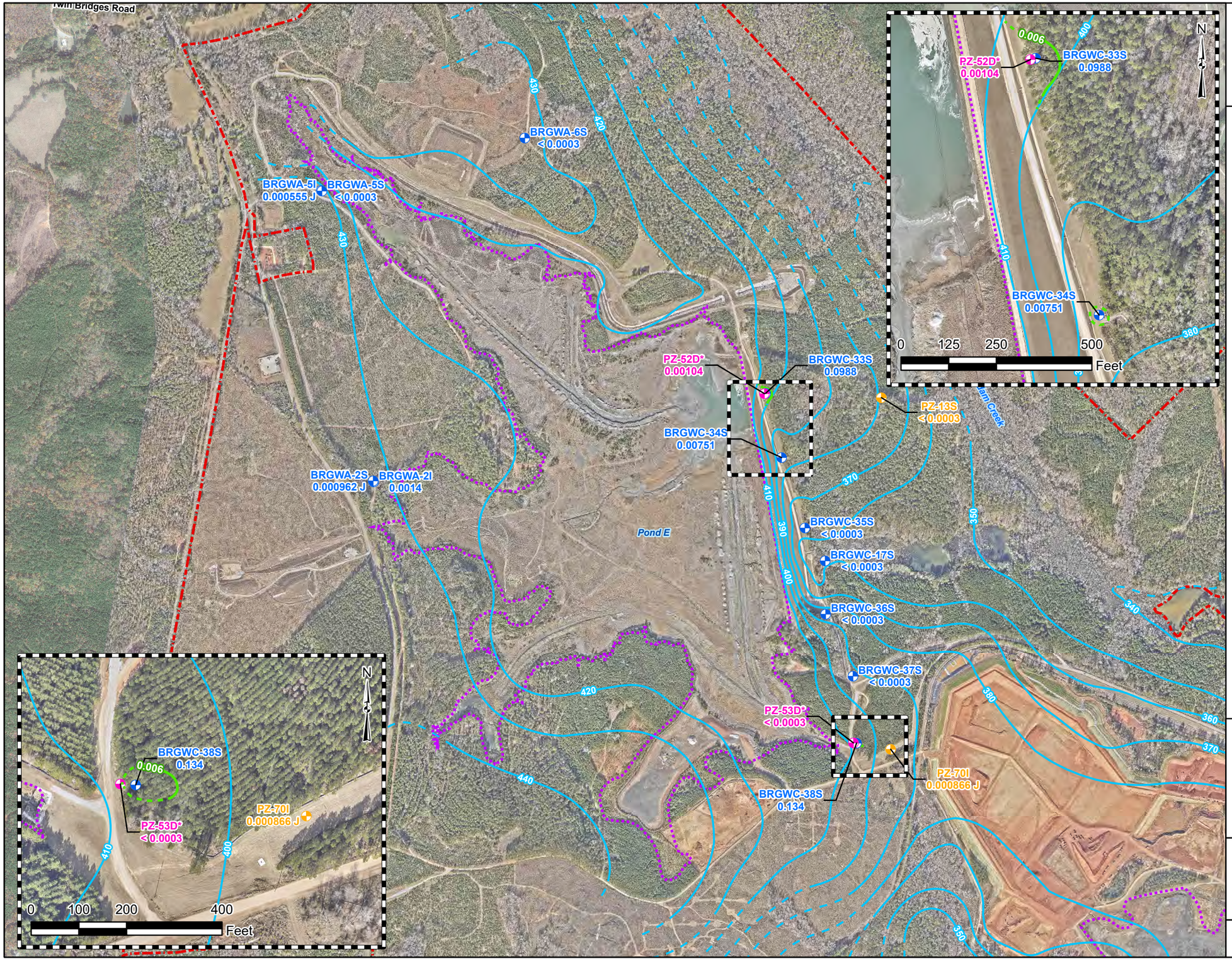
FIGURE 7



LEGEND

- Detection Monitoring Well
- Horizontal Assessment Monitoring Well
- Vertical Assessment Monitoring Well
- Groundwater Elevation Iso-Contour (January 2024)
- Groundwater Elevation Iso-Contour (Inferred)(January 2024)
- 0.006 Cobalt GWPS Iso-Concentration Contour (mg/L) (dashed where inferred)
- Plant Branch Property Boundary
- Approximate Ash Pond Boundary

Notes:
1. Concentration data from groundwater samples collected during the January/February 2024, annual monitoring event.
2. Concentrations are reported in milligrams per liter (mg/L).
3. Water level elevation recorded on January 29, 2024.
4. Elevation provided in feet (ft) referenced to the North American Vertical Datum (NAVD) 88.
5. The Groundwater Protection Standard (GWPS) for cobalt is 0.006 mg/L.
6. J - Estimated value.
7. * - Data reported was not used to generate the iso-concentration contour.
8. Property Boundary Provided by Southern Company Services.
9. Aerial: Google Earth Imagery, November 2019 and Georgia Power Company, January 2024.

0 1,000 2,000
Scale in Feet

ISO-CONCENTRATION MAP, COBALT - JANUARY 2024

GEORGIA POWER COMPANY
PLANT BRANCH AP-E
PUTNAM COUNTY, GEORGIA

Prepared For: Georgia Power
Prepared By: Geosyntec consultants

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FIGURE 8

APPENDIX A

Well Maintenance and Repair Documentation Memoranda

ATLANTIC COAST CONSULTING, INC.

Our work helps produce a cleaner environment for all.

Memorandum

To:	Joju Abraham, Southern Company Services Ben Hodges, Georgia Power Company Regina Linch, Plant Branch
From:	Atlantic Coast Consulting
Date	November 13, 2023
Subject:	Plant Branch Unit AP-BCD and AP-E Well Maintenance and Repair Documentation Plant Branch, Putnam County, Georgia

Atlantic Coast Consulting (ACC) has prepared this memorandum to provide documentation of any groundwater monitoring well maintenance and/or repairs performed at Plant Branch Ash Ponds during the 2023 Annual Groundwater Monitoring reporting period. The groundwater monitoring well network (including associated piezometers) for Ash Ponds B, C, and D (AP-BCD) and Ash Pond E (AP-E) at Plant Branch were inspected on 8/21/2023. The groundwater monitoring well network was observed to be well maintained and in good condition; no deficiencies requiring maintenance or repair were identified.

Well Inspection

Site Name: Plant Branch

Date: 08/21/2023

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

Well ID:	Location/Identification			
	Visible and accessible	Properly identified with correct well ID	Located in high traffic area; does the well require protection from traffic	Acceptable drainage around well (no standing water, not located in obvious drainage flow path)
BRGWA-2S	Yes	Yes	No	Yes
BRGWA-2I	Yes	Yes	No	Yes
BRGWA-5S	Yes	Yes	No	Yes
BRGWA-5I	Yes	Yes	No	Yes
BRGWA-6S	Yes	Yes	No	Yes
BRGWA-23S	Yes	Yes	No	Yes
BRGWC-25I	Yes	Yes	No	Yes
BRGWC-27I	Yes	Yes	No	Yes
BRGWC-29I	Yes	Yes	No	Yes
BRGWC-30I	Yes	Yes	No	Yes
BRGWC-32S	Yes	Yes	No	Yes
BRGWC-45	Yes	Yes	No	Yes
BRGWC-47	Yes	Yes	No	Yes
BRGWC-50	Yes	Yes	No	Yes
BRGWC-52I	Yes	Yes	No	Yes
BRGWC-17S	Yes	Yes	No	Yes
BRGWC-33S	Yes	Yes	No	Yes
BRGWC-34S	Yes	Yes	No	Yes
BRGWC-35S	Yes	Yes	No	Yes
BRGWC-36S	Yes	Yes	No	Yes
BRGWC-37S	Yes	Yes	No	Yes
BRGWC-38S	Yes	Yes	No	Yes

Well Inspection

Site Name: Plant Branch

Date: 08/21/2023

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

	Protective Casing				
Well ID:	Free from apparent damage and able to be secured	No degradation or deterioration	Functioning weep hole	Annular space clear of debris and water, or filled with pea gravel/sand	Locked and is the lock in good condition
BRGWA-2S	Yes	Yes	Yes	Yes	Yes
BRGWA-2I	Yes	Yes	Yes	Yes	Yes
BRGWA-5S	Yes	Yes	Yes	Yes	Yes
BRGWA-5I	Yes	Yes	Yes	Yes	Yes
BRGWA-6S	Yes	Yes	Yes	Yes	Yes
BRGWA-23S	Yes	Yes	Yes	Yes	Yes
BRGWC-25I	Yes	Yes	Yes	Yes	Yes
BRGWC-27I	Yes	Yes	Yes	Yes	Yes
BRGWC-29I	Yes	Yes	Yes	Yes	Yes
BRGWC-30I	Yes	Yes	Yes	Yes	Yes
BRGWC-32S	Yes	Yes	Yes	Yes	Yes
BRGWC-45	Yes	Yes	Yes	Yes	Yes
BRGWC-47	Yes	Yes	Yes	Yes	Yes
BRGWC-50	Yes	Yes	Yes	Yes	Yes
BRGWC-52I	Yes	Yes	Yes	Yes	Yes
BRGWC-17S	Yes	Yes	Yes	Yes	Yes
BRGWC-33S	Yes	Yes	Yes	Yes	Yes
BRGWC-34S	Yes	Yes	Yes	Yes	Yes
BRGWC-35S	Yes	Yes	Yes	Yes	Yes
BRGWC-36S	Yes	Yes	Yes	Yes	Yes
BRGWC-37S	Yes	Yes	Yes	Yes	Yes
BRGWC-38S	Yes	Yes	Yes	Yes	Yes

Well Inspection

Site Name: Plant Branch

Date: 08/21/2023

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

	Surface Pad			Internal Casing		
Well ID:	Good condition (not cracked/ broken)	Sloped away from the protective casing	In complete contact with the ground surface and stable	Cap prevents entry of foreign material into the well	Free of kinks/bends, or any obstructions from foreign objects (such as bailers)	Properly vented for equilibration of air pressure
BRGWA-2S	Yes	Yes	Yes	Yes	Yes	Yes
BRGWA-2I	Yes	Yes	Yes	Yes	Yes	Yes
BRGWA-5S	Yes	Yes	Yes	Yes	Yes	Yes
BRGWA-5I	Yes	Yes	Yes	Yes	Yes	Yes
BRGWA-6S	Yes	Yes	Yes	Yes	Yes	Yes
BRGWA-23S	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-25I	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-27I	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-29I	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-30I	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-32S	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-45	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-47	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-50	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-52I	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-17S	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-33S	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-34S	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-35S	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-36S	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-37S	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-38S	Yes	Yes	Yes	Yes	Yes	Yes

Well Inspection

Site Name: Plant Branch

Date: 08/21/2023

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

Well ID:	Corrective actions as needed, by date:
BRGWA-2S	
BRGWA-2I	
BRGWA-5S	
BRGWA-5I	
BRGWA-6S	
BRGWA-23S	
BRGWC-25I	
BRGWC-27I	
BRGWC-29I	
BRGWC-30I	
BRGWC-32S	
BRGWC-45	
BRGWC-47	
BRGWC-50	
BRGWC-52I	
BRGWC-17S	
BRGWC-33S	
BRGWC-34S	
BRGWC-35S	
BRGWC-36S	
BRGWC-37S	
BRGWC-38S	

Well Inspection

Site Name: Plant Branch

Date: 08/21/2023

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

Well ID:	Location/Identification			
	Visible and accessible	Properly identified with correct well ID	Located in high traffic area; does the well require protection from traffic	Acceptable drainage around well (no standing water, not located in obvious drainage flow path)
PZ-44	Yes	Yes	No	Yes
PZ-50D	Yes	Yes	No	Yes
PZ-51S	Yes	Yes	No	Yes
PZ-51I	Yes	Yes	No	Yes
PZ-51D	Yes	Yes	No	Yes
PZ-57I	Yes	Yes	No	Yes
PZ-58I	Yes	Yes	No	Yes
PZ-59I	Yes	Yes	No	Yes
PZ-60I	Yes	Yes	No	Yes
PZ-61I	Yes	Yes	No	Yes
PZ-62I	Yes	Yes	No	Yes
PZ-63I	Yes	Yes	No	Yes
PZ-64I	Yes	Yes	No	Yes
PZ-65I	Yes	Yes	No	Yes
PZ-66I	Yes	Yes	No	Yes
PZ-68D	Yes	Yes	No	Yes
PZ-74I	Yes	Yes	No	Yes
PZ-75I	Yes	Yes	No	Yes
PZ-79I	Yes	Yes	No	Yes
PZ-13S	Yes	Yes	No	Yes
PZ-52D	Yes	Yes	No	Yes
PZ-53D	Yes	Yes	No	Yes
PZ-70I	Yes	Yes	No	Yes
PZ-76I	Yes	Yes	No	Yes
PZ-77I	Yes	Yes	No	Yes
PZ-79	Yes	Yes	No	Yes

Well Inspection

Site Name: Plant Branch

Date: 08/21/2023

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

Well ID:	Protective Casing				
	Free from apparent damage and able to be secured	No degradation or deterioration	Functioning weep hole	Annular space clear of debris and water, or filled with pea gravel/sand	Locked and is the lock in good condition
PZ-44	Yes	Yes	Yes	Yes	Yes
PZ-50D	Yes	Yes	Yes	Yes	Yes
PZ-51S	Yes	Yes	Yes	Yes	Yes
PZ-51I	Yes	Yes	Yes	Yes	Yes
PZ-51D	Yes	Yes	Yes	Yes	Yes
PZ-57I	Yes	Yes	Yes	Yes	Yes
PZ-58I	Yes	Yes	Yes	Yes	Yes
PZ-59I	Yes	Yes	Yes	Yes	Yes
PZ-60I	Yes	Yes	Yes	Yes	Yes
PZ-61I	Yes	Yes	Yes	Yes	Yes
PZ-62I	Yes	Yes	Yes	Yes	Yes
PZ-63I	Yes	Yes	Yes	Yes	Yes
PZ-64I	Yes	Yes	Yes	Yes	Yes
PZ-65I	Yes	Yes	Yes	Yes	Yes
PZ-66I	Yes	Yes	Yes	Yes	Yes
PZ-68D	Yes	Yes	Yes	Yes	Yes
PZ-74I	Yes	Yes	Yes	Yes	Yes
PZ-75I	Yes	Yes	Yes	Yes	Yes
PZ-79I	Yes	Yes	Yes	Yes	Yes
PZ-13S	Yes	Yes	Yes	Yes	Yes
PZ-52D	Yes	Yes	Yes	Yes	Yes
PZ-53D	Yes	Yes	Yes	Yes	Yes
PZ-70I	Yes	Yes	Yes	Yes	Yes
PZ-76I	Yes	Yes	Yes	Yes	Yes
PZ-77I	Yes	Yes	Yes	Yes	Yes
PZ-79	Yes	Yes	Yes	Yes	Yes

Well Inspection

Site Name: Plant Branch

Date: 08/21/2023

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

Well ID:	Surface Pad			Internal Casing		
	Good condition (not cracked/ broken)	Sloped away from the protective casing	In complete contact with the ground surface and stable	Cap prevents entry of foreign material into the well	Free of kinks/bends, or any obstructions from foreign objects (such as bailers)	Properly vented for equilibration of air pressure
PZ-44	Yes	Yes	Yes	Yes	Yes	Yes
PZ-50D	Yes	Yes	Yes	Yes	Yes	Yes
PZ-51S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-51I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-51D	Yes	Yes	Yes	Yes	Yes	Yes
PZ-57I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-58I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-59I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-60I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-61I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-62I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-63I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-64I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-65I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-66I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-68D	Yes	Yes	Yes	Yes	Yes	Yes
PZ-74I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-75I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-79I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-13S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-52D	Yes	Yes	Yes	Yes	Yes	Yes
PZ-53D	Yes	Yes	Yes	Yes	Yes	Yes
PZ-70I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-76I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-77I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-79	Yes	Yes	Yes	Yes	Yes	Yes

Well Inspection

Site Name: Plant Branch

Date: 08/21/2023

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

Well ID:	Corrective actions as needed, by date:
PZ-44	
PZ-50D	
PZ-51S	
PZ-51I	
PZ-51D	
PZ-57I	
PZ-58I	
PZ-59I	
PZ-60I	
PZ-61I	
PZ-62I	
PZ-63I	
PZ-64I	
PZ-65I	
PZ-66I	
PZ-68D	
PZ-74I	
PZ-75I	
PZ-79I	
PZ-13S	
PZ-52D	
PZ-53D	
PZ-70I	
PZ-76I	
PZ-77I	
PZ-79	

Well Inspection

Site Name: Plant Branch

Date: 08/21/2023

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

Well ID:	Location/Identification			
	Visible and accessible	Properly identified with correct well ID	Located in high traffic area; does the well require protection from traffic	Acceptable drainage around well (no standing water, not located in obvious drainage flow path)
PZ-1S	Yes	Yes	No	Yes
PZ-1I	Yes	Yes	No	Yes
PZ-1D	Yes	Yes	No	Yes
PZ-3S	Yes	Yes	No	Yes
PZ-3I	Yes	Yes	No	Yes
PZ-3D	Yes	Yes	No	Yes
PZ-4S	Yes	Yes	No	Yes
PZ-4I	Yes	Yes	No	Yes
PZ-7S	Yes	Yes	No	Yes
PZ-8S	Yes	Yes	No	Yes
PZ-9S	Yes	Yes	No	Yes
PZ-10S	Yes	Yes	No	Yes
PZ-14S	Yes	Yes	No	Yes
PZ-14I	Yes	Yes	No	Yes
PZ-15S	Yes	Yes	No	Yes
PZ-15I	Yes	Yes	No	Yes
PZ-16S	Yes	Yes	No	Yes
PZ-16I	Yes	Yes	No	Yes
PZ-17I	Yes	Yes	No	Yes
PZ-18S	Yes	Yes	No	Yes
PZ-18I	Yes	Yes	No	Yes
PZ-19S	Yes	Yes	No	Yes
PZ-19I	Yes	Yes	No	Yes
PZ-20S	Yes	Yes	No	Yes
PZ-20I	Yes	Yes	No	Yes
PZ-21S	Yes	Yes	No	Yes
PZ-21I	Yes	Yes	No	Yes
PZ-23I	Yes	Yes	No	Yes
BRGWC-24S	Yes	Yes	No	Yes
PZ-26I	Yes	Yes	No	Yes
PZ-28I	Yes	Yes	No	Yes
PZ-31S	Yes	Yes	No	Yes
PZ-40S	Yes	Yes	No	Yes
PZ-41S	Yes	Yes	No	Yes

Well Inspection

Site Name: Plant Branch

Date: 08/21/2023

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

Well ID:	Protective Casing				
	Free from apparent damage and able to be secured	No degradation or deterioration	Functioning weep hole	Annular space clear of debris and water, or filled with pea gravel/sand	Locked and is the lock in good condition
PZ-1S	Yes	Yes	Yes	Yes	Yes
PZ-1I	Yes	Yes	Yes	Yes	Yes
PZ-1D	Yes	Yes	Yes	Yes	Yes
PZ-3S	Yes	Yes	Yes	Yes	Yes
PZ-3I	Yes	Yes	Yes	Yes	Yes
PZ-3D	Yes	Yes	Yes	Yes	Yes
PZ-4S	Yes	Yes	Yes	Yes	Yes
PZ-4I	Yes	Yes	Yes	Yes	Yes
PZ-7S	Yes	Yes	Yes	Yes	Yes
PZ-8S	Yes	Yes	Yes	Yes	Yes
PZ-9S	Yes	Yes	Yes	Yes	Yes
PZ-10S	Yes	Yes	Yes	Yes	Yes
PZ-14S	Yes	Yes	Yes	Yes	Yes
PZ-14I	Yes	Yes	Yes	Yes	Yes
PZ-15S	Yes	Yes	Yes	Yes	Yes
PZ-15I	Yes	Yes	Yes	Yes	Yes
PZ-16S	Yes	Yes	Yes	Yes	Yes
PZ-16I	Yes	Yes	Yes	Yes	Yes
PZ-17I	Yes	Yes	Yes	Yes	Yes
PZ-18S	Yes	Yes	Yes	Yes	Yes
PZ-18I	Yes	Yes	Yes	Yes	Yes
PZ-19S	Yes	Yes	Yes	Yes	Yes
PZ-19I	Yes	Yes	Yes	Yes	Yes
PZ-20S	Yes	Yes	Yes	Yes	Yes
PZ-20I	Yes	Yes	Yes	Yes	Yes
PZ-21S	Yes	Yes	Yes	Yes	Yes
PZ-21I	Yes	Yes	Yes	Yes	Yes
PZ-23I	Yes	Yes	Yes	Yes	Yes
BRGWC-24S	Yes	Yes	Yes	Yes	Yes
PZ-26I	Yes	Yes	Yes	Yes	Yes
PZ-28I	Yes	Yes	Yes	Yes	Yes
PZ-31S	Yes	Yes	Yes	Yes	Yes
PZ-40S	Yes	Yes	Yes	Yes	Yes
PZ-41S	Yes	Yes	Yes	Yes	Yes

Well Inspection

Site Name: Plant Branch

Date: 08/21/2023

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

	Surface Pad			Internal Casing		
Well ID:	Good condition (not cracked/ broken)	Sloped away from the protective casing	In complete contact with the ground surface and stable	Cap prevents entry of foreign material into the well	Free of kinks/bends, or any obstructions from foreign objects (such as bailers)	Properly vented for equilibration of air pressure
PZ-1S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-1I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-1D	Yes	Yes	Yes	Yes	Yes	Yes
PZ-3S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-3I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-3D	Yes	Yes	Yes	Yes	Yes	Yes
PZ-4S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-4I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-7S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-8S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-9S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-10S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-14S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-14I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-15S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-15I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-16S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-16I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-17I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-18S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-18I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-19S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-19I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-20S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-20I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-21S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-21I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-23I	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-24S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-26I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-28I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-31S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-40S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-41S	Yes	Yes	Yes	Yes	Yes	Yes

Well Inspection

Site Name: Plant Branch

Date: 08/21/2023

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

Well ID:	Corrective actions as needed, by date:
PZ-1S	
PZ-1I	
PZ-1D	
PZ-3S	
PZ-3I	
PZ-3D	
PZ-4S	
PZ-4I	
PZ-7S	
PZ-8S	
PZ-9S	
PZ-10S	
PZ-14S	
PZ-14I	
PZ-15S	
PZ-15I	
PZ-16S	
PZ-16I	
PZ-17I	
PZ-18S	
PZ-18I	
PZ-19S	
PZ-19I	
PZ-20S	
PZ-20I	
PZ-21S	
PZ-21I	
PZ-23I	
BRGWC-24S	
PZ-26I	
PZ-28I	
PZ-31S	
PZ-40S	
PZ-41S	

Well Inspection

Site Name: Plant Branch

Date: 08/21/2023

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

Well ID:	Location/Identification			
	Visible and accessible	Properly identified with correct well ID	Located in high traffic area; does the well require protection from traffic	Acceptable drainage around well (no standing water, not located in obvious drainage flow path)
PZ-42S	Yes	Yes	No	Yes
PZ-43	Yes	Yes	No	Yes
PZ-46	Yes	Yes	No	Yes
PZ-48	Yes	Yes	No	Yes
PZ-49	Yes	Yes	No	Yes
PZ-54	Yes	Yes	No	Yes
PZ-55	Yes	Yes	No	Yes
PZ-56	Yes	Yes	No	Yes
PZ-67	Yes	Yes	No	Yes
PZ-69I	Yes	Yes	No	Yes
PZ-71I	Yes	Yes	No	Yes
PZ-72I	Yes	Yes	No	Yes
PZ-73I	Yes	Yes	No	Yes

Well Inspection

Site Name: Plant Branch

Date: 08/21/2023

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

Well ID:	Protective Casing				
	Free from apparent damage and able to be secured	No degradation or deterioration	Functioning weep hole	Annular space clear of debris and water, or filled with pea gravel/sand	Locked and is the lock in good condition
PZ-42S	Yes	Yes	Yes	Yes	Yes
PZ-43	Yes	Yes	Yes	Yes	Yes
PZ-46	Yes	Yes	Yes	Yes	Yes
PZ-48	Yes	Yes	Yes	Yes	Yes
PZ-49	Yes	Yes	Yes	Yes	Yes
PZ-54	Yes	Yes	Yes	Yes	Yes
PZ-55	Yes	Yes	Yes	Yes	Yes
PZ-56	Yes	Yes	Yes	Yes	Yes
PZ-67	Yes	Yes	Yes	Yes	Yes
PZ-69I	Yes	Yes	Yes	Yes	Yes
PZ-71I	Yes	Yes	Yes	Yes	Yes
PZ-72I	Yes	Yes	Yes	Yes	Yes
PZ-73I	Yes	Yes	Yes	Yes	Yes

Well Inspection

Site Name: Plant Branch

Date: 08/21/2023

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

Well ID:	Surface Pad			Internal Casing		
	Good condition (not cracked/ broken)	Sloped away from the protective casing	In complete contact with the ground surface and stable	Cap prevents entry of foreign material into the well	Free of kinks/bends, or any obstructions from foreign objects (such as bailers)	Properly vented for equilibration of air pressure
PZ-42S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-43	Yes	Yes	Yes	Yes	Yes	Yes
PZ-46	Yes	Yes	Yes	Yes	Yes	Yes
PZ-48	Yes	Yes	Yes	Yes	Yes	Yes
PZ-49	Yes	Yes	Yes	Yes	Yes	Yes
PZ-54	Yes	Yes	Yes	Yes	Yes	Yes
PZ-55	Yes	Yes	Yes	Yes	Yes	Yes
PZ-56	Yes	Yes	Yes	Yes	Yes	Yes
PZ-67	Yes	Yes	Yes	Yes	Yes	Yes
PZ-69I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-71I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-72I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-73I	Yes	Yes	Yes	Yes	Yes	Yes

Well Inspection

Site Name: Plant Branch

Date: 08/21/2023

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

Well ID:	Corrective actions as needed, by date:
PZ-42S	
PZ-43	
PZ-46	
PZ-48	
PZ-49	
PZ-54	
PZ-55	
PZ-56	
PZ-67	
PZ-69I	
PZ-71I	
PZ-72I	
PZ-73I	

Well Inspection

Site Name: Plant Branch

Date: 01/29/2024

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

Well ID:	Location/Identification			
	Visible and accessible	Properly identified with correct well ID	Located in high traffic area; does the well require protection from traffic	Acceptable drainage around well (no standing water, not located in obvious drainage flow path)
BRGWA-2S	Yes	Yes	No	Yes
BRGWA-2I	Yes	Yes	No	Yes
BRGWA-5S	Yes	Yes	No	Yes
BRGWA-5I	Yes	Yes	No	Yes
BRGWA-6S	Yes	Yes	No	Yes
BRGWA-23S	Yes	Yes	No	Yes
BRGWC-25I	Yes	Yes	No	Yes
BRGWC-27I	Yes	Yes	No	Yes
BRGWC-29I	Yes	Yes	No	Yes
BRGWC-30I	Yes	Yes	No	Yes
BRGWC-32S	Yes	Yes	No	Yes
BRGWC-45	Yes	Yes	No	Yes
BRGWC-47	Yes	Yes	No	Yes
BRGWC-50	Yes	Yes	No	Yes
BRGWC-52I	Yes	Yes	No	Yes
BRGWC-17S	Yes	Yes	No	Yes
BRGWC-33S	Yes	Yes	No	Yes
BRGWC-34S	Yes	Yes	No	Yes
BRGWC-35S	Yes	Yes	No	Yes
BRGWC-36S	Yes	Yes	No	Yes
BRGWC-37S	Yes	Yes	No	Yes
BRGWC-38S	Yes	Yes	No	Yes

Well Inspection

Site Name: Plant Branch

Date: 01/29/2024

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

Well ID:	Protective Casing				
	Free from apparent damage and able to be secured	No degradation or deterioration	Functioning weep hole	Annular space clear of debris and water, or filled with pea gravel/sand	Locked and is the lock in good condition
BRGWA-2S	Yes	Yes	Yes	Yes	Yes
BRGWA-2I	Yes	Yes	Yes	Yes	Yes
BRGWA-5S	Yes	Yes	Yes	Yes	Yes
BRGWA-5I	Yes	Yes	Yes	Yes	Yes
BRGWA-6S	Yes	Yes	Yes	Yes	Yes
BRGWA-23S	Yes	Yes	Yes	Yes	Yes
BRGWC-25I	Yes	Yes	Yes	Yes	Yes
BRGWC-27I	Yes	Yes	Yes	Yes	Yes
BRGWC-29I	Yes	Yes	Yes	Yes	Yes
BRGWC-30I	Yes	Yes	Yes	Yes	Yes
BRGWC-32S	Yes	Yes	Yes	Yes	Yes
BRGWC-45	Yes	Yes	Yes	Yes	Yes
BRGWC-47	Yes	Yes	Yes	Yes	Yes
BRGWC-50	Yes	Yes	Yes	Yes	Yes
BRGWC-52I	Yes	Yes	Yes	Yes	Yes
BRGWC-17S	Yes	Yes	Yes	Yes	Yes
BRGWC-33S	Yes	Yes	Yes	Yes	Yes
BRGWC-34S	Yes	Yes	Yes	Yes	Yes
BRGWC-35S	Yes	Yes	Yes	Yes	Yes
BRGWC-36S	Yes	Yes	Yes	Yes	Yes
BRGWC-37S	Yes	Yes	Yes	Yes	Yes
BRGWC-38S	Yes	Yes	Yes	Yes	Yes

Well Inspection

Site Name: Plant Branch

Date: 01/29/2024

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

Well ID:	Surface Pad			Internal Casing		
	Good condition (not cracked/ broken)	Sloped away from the protective casing	In complete contact with the ground surface and stable	Cap prevents entry of foreign material into the well	Free of kinks/bends, or any obstructions from foreign objects (such as bailers)	Properly vented for equilibration of air pressure
BRGWA-2S	Yes	Yes	Yes	Yes	Yes	Yes
BRGWA-2I	Yes	Yes	Yes	Yes	Yes	Yes
BRGWA-5S	Yes	Yes	Yes	Yes	Yes	Yes
BRGWA-5I	Yes	Yes	Yes	Yes	Yes	Yes
BRGWA-6S	Yes	Yes	Yes	Yes	Yes	Yes
BRGWA-23S	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-25I	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-27I	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-29I	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-30I	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-32S	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-45	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-47	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-50	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-52I	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-17S	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-33S	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-34S	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-35S	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-36S	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-37S	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-38S	Yes	Yes	Yes	Yes	Yes	Yes

Well Inspection

Site Name: Plant Branch

Date: 01/29/2024

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

Well ID:	Corrective actions as needed, by date:
BRGWA-2S	
BRGWA-2I	
BRGWA-5S	
BRGWA-5I	
BRGWA-6S	
BRGWA-23S	
BRGWC-25I	
BRGWC-27I	
BRGWC-29I	
BRGWC-30I	
BRGWC-32S	
BRGWC-45	
BRGWC-47	
BRGWC-50	
BRGWC-52I	
BRGWC-17S	
BRGWC-33S	
BRGWC-34S	
BRGWC-35S	
BRGWC-36S	
BRGWC-37S	
BRGWC-38S	

Well Inspection

Site Name: Plant Branch

Date: 01/29/2024

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

Well ID:	Location/Identification			
	Visible and accessible	Properly identified with correct well ID	Located in high traffic area; does the well require protection from traffic	Acceptable drainage around well (no standing water, not located in obvious drainage flow path)
PZ-44	Yes	Yes	No	Yes
PZ-50D	Yes	Yes	No	Yes
PZ-51S	Yes	Yes	No	Yes
PZ-51I	Yes	Yes	No	Yes
PZ-51D	Yes	Yes	No	Yes
PZ-57I	Yes	Yes	No	Yes
PZ-58I	Yes	Yes	No	Yes
PZ-59I	Yes	Yes	No	Yes
PZ-60I	Yes	Yes	No	Yes
PZ-61I	Yes	Yes	No	Yes
PZ-62I	Yes	Yes	No	Yes
PZ-63I	Yes	Yes	No	Yes
PZ-64I	Yes	Yes	No	Yes
PZ-65I	Yes	Yes	No	Yes
PZ-66I	Yes	Yes	No	Yes
PZ-68D	Yes	Yes	No	Yes
PZ-74I	Yes	Yes	No	Yes
PZ-75I	Yes	Yes	No	Yes
PZ-79I	Yes	Yes	No	Yes
PZ-13S	Yes	Yes	No	Yes
PZ-52D	Yes	Yes	No	Yes
PZ-53D	Yes	Yes	No	Yes
PZ-70I	Yes	Yes	No	Yes
PZ-76I	Yes	Yes	No	Yes
PZ-77I	Yes	Yes	No	Yes
PZ-79	Yes	Yes	No	Yes

Well Inspection

Site Name: Plant Branch

Date: 01/29/2024

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

Well ID:	Protective Casing				
	Free from apparent damage and able to be secured	No degradation or deterioration	Functioning weep hole	Annular space clear of debris and water, or filled with pea gravel/sand	Locked and is the lock in good condition
PZ-44	Yes	Yes	Yes	Yes	Yes
PZ-50D	Yes	Yes	Yes	Yes	Yes
PZ-51S	Yes	Yes	Yes	Yes	Yes
PZ-51I	Yes	Yes	Yes	Yes	Yes
PZ-51D	Yes	Yes	Yes	Yes	Yes
PZ-57I	Yes	Yes	Yes	Yes	Yes
PZ-58I	Yes	Yes	Yes	Yes	Yes
PZ-59I	Yes	Yes	Yes	Yes	Yes
PZ-60I	Yes	Yes	Yes	Yes	Yes
PZ-61I	Yes	Yes	Yes	Yes	Yes
PZ-62I	Yes	Yes	Yes	Yes	Yes
PZ-63I	Yes	Yes	Yes	Yes	Yes
PZ-64I	Yes	Yes	Yes	Yes	Yes
PZ-65I	Yes	Yes	Yes	Yes	Yes
PZ-66I	Yes	Yes	Yes	Yes	Yes
PZ-68D	Yes	Yes	Yes	Yes	Yes
PZ-74I	Yes	Yes	Yes	Yes	Yes
PZ-75I	Yes	Yes	Yes	Yes	Yes
PZ-79I	Yes	Yes	Yes	Yes	Yes
PZ-13S	Yes	Yes	Yes	Yes	Yes
PZ-52D	Yes	Yes	Yes	Yes	Yes
PZ-53D	Yes	Yes	Yes	Yes	Yes
PZ-70I	Yes	Yes	Yes	Yes	Yes
PZ-76I	Yes	Yes	Yes	Yes	Yes
PZ-77I	Yes	Yes	Yes	Yes	Yes
PZ-79	Yes	Yes	Yes	Yes	Yes

Well Inspection

Site Name: Plant Branch

Date: 01/29/2024

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

Well ID:	Surface Pad			Internal Casing		
	Good condition (not cracked/ broken)	Sloped away from the protective casing	In complete contact with the ground surface and stable	Cap prevents entry of foreign material into the well	Free of kinks/bends, or any obstructions from foreign objects (such as bailers)	Properly vented for equilibration of air pressure
PZ-44	Yes	Yes	Yes	Yes	Yes	Yes
PZ-50D	Yes	Yes	Yes	Yes	Yes	Yes
PZ-51S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-51I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-51D	Yes	Yes	Yes	Yes	Yes	Yes
PZ-57I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-58I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-59I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-60I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-61I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-62I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-63I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-64I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-65I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-66I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-68D	Yes	Yes	Yes	Yes	Yes	Yes
PZ-74I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-75I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-79I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-13S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-52D	Yes	Yes	Yes	Yes	Yes	Yes
PZ-53D	Yes	Yes	Yes	Yes	Yes	Yes
PZ-70I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-76I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-77I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-79	Yes	Yes	Yes	Yes	Yes	Yes

Well Inspection

Site Name: Plant Branch

Date: 01/29/2024

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

Well ID:	Corrective actions as needed, by date:
PZ-44	
PZ-50D	
PZ-51S	
PZ-51I	
PZ-51D	
PZ-57I	
PZ-58I	
PZ-59I	
PZ-60I	
PZ-61I	
PZ-62I	
PZ-63I	
PZ-64I	
PZ-65I	
PZ-66I	
PZ-68D	
PZ-74I	
PZ-75I	
PZ-79I	
PZ-13S	
PZ-52D	
PZ-53D	
PZ-70I	
PZ-76I	
PZ-77I	
PZ-79	

Well Inspection

Site Name: Plant Branch

Date: 01/29/2024

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

Well ID:	Location/Identification			
	Visible and accessible	Properly identified with correct well ID	Located in high traffic area; does the well require protection from traffic	Acceptable drainage around well (no standing water, not located in obvious drainage flow path)
PZ-1S	Yes	Yes	No	Yes
PZ-1I	Yes	Yes	No	Yes
PZ-1D	Yes	Yes	No	Yes
PZ-3S	Yes	Yes	No	Yes
PZ-3I	Yes	Yes	No	Yes
PZ-3D	Yes	Yes	No	Yes
PZ-4S	Yes	Yes	No	Yes
PZ-4I	Yes	Yes	No	Yes
PZ-7S	Yes	Yes	No	Yes
PZ-8S	Yes	Yes	No	Yes
PZ-9S	Yes	Yes	No	Yes
PZ-10S	Yes	Yes	No	Yes
PZ-14S	Yes	Yes	No	Yes
PZ-14I	Yes	Yes	No	Yes
PZ-15S	Yes	Yes	No	Yes
PZ-15I	Yes	Yes	No	Yes
PZ-16S	Yes	Yes	No	Yes
PZ-16I	Yes	Yes	No	Yes
PZ-17I	Yes	Yes	No	Yes
PZ-18S	Yes	Yes	No	Yes
PZ-18I	Yes	Yes	No	Yes
PZ-19S	Yes	Yes	No	Yes
PZ-19I	Yes	Yes	No	Yes
PZ-20S	Yes	Yes	No	Yes
PZ-20I	Yes	Yes	No	Yes
PZ-21S	Yes	Yes	No	Yes
PZ-21I	Yes	Yes	No	Yes
PZ-23I	Yes	Yes	No	Yes
BRGWC-24S	Yes	Yes	No	Yes
PZ-26I	Yes	Yes	No	Yes
PZ-28I	Yes	Yes	No	Yes
PZ-31S	Yes	Yes	No	Yes
PZ-40S	Yes	Yes	No	Yes
PZ-41S	Yes	Yes	No	Yes

Well Inspection

Site Name: Plant Branch

Date: 01/29/2024

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

Well ID:	Protective Casing				
	Free from apparent damage and able to be secured	No degradation or deterioration	Functioning weep hole	Annular space clear of debris and water, or filled with pea gravel/sand	Locked and is the lock in good condition
PZ-1S	Yes	Yes	Yes	Yes	Yes
PZ-1I	Yes	Yes	Yes	Yes	Yes
PZ-1D	Yes	Yes	Yes	Yes	Yes
PZ-3S	Yes	Yes	Yes	Yes	Yes
PZ-3I	Yes	Yes	Yes	Yes	Yes
PZ-3D	Yes	Yes	Yes	Yes	Yes
PZ-4S	Yes	Yes	Yes	Yes	Yes
PZ-4I	Yes	Yes	Yes	Yes	Yes
PZ-7S	Yes	Yes	Yes	Yes	Yes
PZ-8S	Yes	Yes	Yes	Yes	Yes
PZ-9S	Yes	Yes	Yes	Yes	Yes
PZ-10S	Yes	Yes	Yes	Yes	Yes
PZ-14S	Yes	Yes	Yes	Yes	Yes
PZ-14I	Yes	Yes	Yes	Yes	Yes
PZ-15S	Yes	Yes	Yes	Yes	Yes
PZ-15I	Yes	Yes	Yes	Yes	Yes
PZ-16S	Yes	Yes	Yes	Yes	Yes
PZ-16I	Yes	Yes	Yes	Yes	Yes
PZ-17I	Yes	Yes	Yes	Yes	Yes
PZ-18S	Yes	Yes	Yes	Yes	Yes
PZ-18I	Yes	Yes	Yes	Yes	Yes
PZ-19S	Yes	Yes	Yes	Yes	Yes
PZ-19I	Yes	Yes	Yes	Yes	Yes
PZ-20S	Yes	Yes	Yes	Yes	Yes
PZ-20I	Yes	Yes	Yes	Yes	Yes
PZ-21S	Yes	Yes	Yes	Yes	Yes
PZ-21I	Yes	Yes	Yes	Yes	Yes
PZ-23I	Yes	Yes	Yes	Yes	Yes
BRGWC-24S	Yes	Yes	Yes	Yes	Yes
PZ-26I	Yes	Yes	Yes	Yes	Yes
PZ-28I	Yes	Yes	Yes	Yes	Yes
PZ-31S	Yes	Yes	Yes	Yes	Yes
PZ-40S	Yes	Yes	Yes	Yes	Yes
PZ-41S	Yes	Yes	Yes	Yes	Yes

Well Inspection

Site Name: Plant Branch

Date: 01/29/2024

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

Well ID:	Surface Pad			Internal Casing		
	Good condition (not cracked/ broken)	Sloped away from the protective casing	In complete contact with the ground surface and stable	Cap prevents entry of foreign material into the well	Free of kinks/bends, or any obstructions from foreign objects (such as bailers)	Properly vented for equilibration of air pressure
PZ-1S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-1I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-1D	Yes	Yes	Yes	Yes	Yes	Yes
PZ-3S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-3I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-3D	Yes	Yes	Yes	Yes	Yes	Yes
PZ-4S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-4I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-7S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-8S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-9S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-10S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-14S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-14I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-15S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-15I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-16S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-16I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-17I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-18S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-18I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-19S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-19I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-20S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-20I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-21S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-21I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-23I	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-24S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-26I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-28I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-31S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-40S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-41S	Yes	Yes	Yes	Yes	Yes	Yes

Well Inspection

Site Name: Plant Branch

Date: 01/29/2024

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

Well ID:	Corrective actions as needed, by date:
PZ-1S	
PZ-1I	
PZ-1D	
PZ-3S	
PZ-3I	
PZ-3D	
PZ-4S	
PZ-4I	
PZ-7S	
PZ-8S	
PZ-9S	
PZ-10S	
PZ-14S	
PZ-14I	
PZ-15S	
PZ-15I	
PZ-16S	
PZ-16I	
PZ-17I	
PZ-18S	
PZ-18I	
PZ-19S	
PZ-19I	
PZ-20S	
PZ-20I	
PZ-21S	
PZ-21I	
PZ-23I	
BRGWC-24S	
PZ-26I	
PZ-28I	
PZ-31S	
PZ-40S	
PZ-41S	

Well Inspection

Site Name: Plant Branch

Date: 01/29/2024

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

Well ID:	Location/Identification			
	Visible and accessible	Properly identified with correct well ID	Located in high traffic area; does the well require protection from traffic	Acceptable drainage around well (no standing water, not located in obvious drainage flow path)
PZ-42S	Yes	Yes	No	Yes
PZ-43	Yes	Yes	No	Yes
PZ-46	Yes	Yes	No	Yes
PZ-48	Yes	Yes	No	Yes
PZ-49	Yes	Yes	No	Yes
PZ-54	Yes	Yes	No	Yes
PZ-55	Yes	Yes	No	Yes
PZ-56	Yes	Yes	No	Yes
PZ-67	Yes	Yes	No	Yes
PZ-69I	Yes	Yes	No	Yes
PZ-71I	Yes	Yes	No	Yes
PZ-72I	Yes	Yes	No	Yes
PZ-73I	Yes	Yes	No	Yes

Well Inspection

Site Name: Plant Branch

Date: 01/29/2024

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

Well ID:	Protective Casing				
	Free from apparent damage and able to be secured	No degradation or deterioration	Functioning weep hole	Annular space clear of debris and water, or filled with pea gravel/sand	Locked and is the lock in good condition
PZ-42S	Yes	Yes	Yes	Yes	Yes
PZ-43	Yes	Yes	Yes	Yes	Yes
PZ-46	Yes	Yes	Yes	Yes	Yes
PZ-48	Yes	Yes	Yes	Yes	Yes
PZ-49	Yes	Yes	Yes	Yes	Yes
PZ-54	Yes	Yes	Yes	Yes	Yes
PZ-55	Yes	Yes	Yes	Yes	Yes
PZ-56	Yes	Yes	Yes	Yes	Yes
PZ-67	Yes	Yes	Yes	Yes	Yes
PZ-69I	Yes	Yes	Yes	Yes	Yes
PZ-71I	Yes	Yes	Yes	Yes	Yes
PZ-72I	Yes	Yes	Yes	Yes	Yes
PZ-73I	Yes	Yes	Yes	Yes	Yes

Well Inspection

Site Name: Plant Branch

Date: 01/29/2024

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

Well ID:	Surface Pad			Internal Casing		
	Good condition (not cracked/ broken)	Sloped away from the protective casing	In complete contact with the ground surface and stable	Cap prevents entry of foreign material into the well	Free of kinks/bends, or any obstructions from foreign objects (such as bailers)	Properly vented for equilibration of air pressure
PZ-42S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-43	Yes	Yes	Yes	Yes	Yes	Yes
PZ-46	Yes	Yes	Yes	Yes	Yes	Yes
PZ-48	Yes	Yes	Yes	Yes	Yes	Yes
PZ-49	Yes	Yes	Yes	Yes	Yes	Yes
PZ-54	Yes	Yes	Yes	Yes	Yes	Yes
PZ-55	Yes	Yes	Yes	Yes	Yes	Yes
PZ-56	Yes	Yes	Yes	Yes	Yes	Yes
PZ-67	Yes	Yes	Yes	Yes	Yes	Yes
PZ-69I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-71I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-72I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-73I	Yes	Yes	Yes	Yes	Yes	Yes

Well Inspection

Site Name: Plant Branch

Date: 01/29/2024

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

Well ID:	Corrective actions as needed, by date:
PZ-42S	
PZ-43	
PZ-46	
PZ-48	
PZ-49	
PZ-54	
PZ-55	
PZ-56	
PZ-67	
PZ-69I	
PZ-71I	
PZ-72I	
PZ-73I	

APPENDIX B

Analytical Laboratory Results and Field Sampling Forms

GEL Laboratories LLC
a member of The GEL Group INC

September 07, 2023

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

Re: Branch CCR Groundwater Compliance APE
Work Orders: 634615 and 634441

Dear Joju Abraham:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on August 23, 2023 and August 24, 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. Samples "BRA-BRGWC-35S" "BRA-BRGWC-36S" BRA-APE-FB-08" "BRA-BRGWC-38S" "BRA-APE-FD-05" containers for sodium hydroxide/zinc acetate did not hold preservation. Samples were preserved upon receipt and placed on a 24 hour preservation hold. *634615002(BRA-BRGWC-35S), 634615003(BRA-BRGWC-36S), 634615004(BRA-BRGWC-38S), 634615007(BRA-APE-FD-05), 634615008(BRA-APE-FB-08)*. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Recieved
634441001	BRA-BRGWC-33S	Ground Water	22/08/23 12:10	23/08/23 13:00
634441002	BRA-APE-FD-04	Ground Water	22/08/23 12:00	23/08/23 13:00
634441003	BRA-BRGWC-34S	Ground Water	22/08/23 14:35	23/08/23 13:00
634441004	BRA-APE-FB-07	Water	22/08/23 15:10	23/08/23 13:00
634441005	BRA-BRGWC-37S	Ground Water	22/08/23 16:51	23/08/23 13:00
634441006	BRA-PZ-13S	Ground Water	22/08/23 16:47	23/08/23 13:00
634615001	BRA-BRGWC-17S	Ground Water	23/08/23 14:05	24/08/23 12:43
634615002	BRA-BRGWC-35S	Ground Water	23/08/23 12:01	24/08/23 12:43
634615003	BRA-BRGWC-36S	Ground Water	23/08/23 15:56	24/08/23 12:43
634615004	BRA-BRGWC-38S	Ground Water	23/08/23 12:12	24/08/23 12:43
634615005	BRA-PZ-52D	Ground Water	23/08/23 13:46	24/08/23 12:43
634615006	BRA-PZ-70I	Ground Water	23/08/23 16:12	24/08/23 12:43
634615007	BRA-APE-FD-05	Ground Water	23/08/23 12:00	24/08/23 12:43
634615008	BRA-APE-FB-08	Water	23/08/23 16:30	24/08/23 12:43

634615009	BRA-APE-EB-09	Water	23/08/23 16:45	24/08/23 12:43
634615010	BRA-APE-EB-10	Water	23/08/23 13:15	24/08/23 12:43

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

Prep Methods and Prep Dates

Method	Run Date ID
SW846 3005A	25-AUG-2023
SW846 7470A Prep	24-AUG-2023
SW846 7470A Prep	25-AUG-2023

Analysis Methods and Analysis Dates

Method	Run Date ID
EPA 300.0	23-AUG-2023
EPA 300.0	24-AUG-2023
EPA 300.0	25-AUG-2023
SM 2320B	24-AUG-2023
SM 2320B	29-AUG-2023
SM 2540C	25-AUG-2023
SM 2540C	28-AUG-2023
SM 2540C	29-AUG-2023
SM 4500-S (2-) D	24-AUG-2023
SM 4500-S (2-) D	25-AUG-2023
SM 4500-S (2-) D	28-AUG-2023
SW846 3005A/6020B	01-SEP-2023
SW846 3005A/6020B	06-SEP-2023
SW846 3005A/6020B	07-SEP-2023
SW846 3005A/6020B	31-AUG-2023
SW846 7470A	25-AUG-2023
SW846 7470A	28-AUG-2023

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4504.

Sincerely,

Erin B. Trent

Erin Trent
Project Manager

Purchase Order: GPC82177-0006
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: 634615 GEL Work Order: 634615

The Qualifiers in this report are defined as follows:

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

** Analyte is a Tracer compound

** Analyte is a surrogate compound

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

J Value is estimated

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

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

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

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

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

Reviewed by Erin B. Trent

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: 634441 GEL Work Order: 634441

The Qualifiers in this report are defined as follows:

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

** Analyte is a Tracer compound

** Analyte is a surrogate compound

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

J Value is estimated

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

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

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

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

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

Reviewed by Erin B. Trent

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

Certificate of Analysis

Report Date: September 7, 2023

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPE

Client Sample ID: BRA-BRGWC-17S
Sample ID: 634615001
Matrix: WG
Collect Date: 23-AUG-23 14:05
Receive Date: 24-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		5.18	0.0670	0.200	mg/L		1	HXC1	08/24/23	1915	2482580	1
Fluoride		0.484	0.0330	0.100	mg/L		1					
Nitrate-N	J	0.0940	0.0330	0.100	mg/L		1					
Sulfate		180	2.66	8.00	mg/L		20	HXC1	08/25/23	0430	2482580	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/28/23	0927	2482668	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/06/23	2105	2482705	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0445	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron		0.0601	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium		0.0115	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0446	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		24.7	0.0100	0.0300	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		1.19	0.0800	0.300	mg/L	1.00	1					
Selenium	J	0.00214	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Calcium		47.9	0.400	1.00	mg/L	1.00	5	PRB	09/07/23	0958	2482705	5
Sodium		24.3	0.400	1.25	mg/L	1.00	5					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		391	2.38	10.0	mg/L			CH6	08/28/23	1550	2483702	6
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/25/23	1052	2482961	7

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Certificate of Analysis

Report Date: September 7, 2023

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPE

Client Sample ID: BRA-BRGWC-17S
Sample ID: 634615001
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		71.8	0.725	2.00	mg/L			JW2	08/29/23	1156	2484392	8
Bicarbonate alkalinity (CaCO3)		71.8	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482704
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/25/23	1050	2482660

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	SM 2540C	
7	SM 4500-S (2-) D	
8	SM 2320B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: September 7, 2023

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPE

Client Sample ID: BRA-BRGWC-35S
Sample ID: 634615002
Matrix: WG
Collect Date: 23-AUG-23 12:01
Receive Date: 24-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		6.21	0.0670	0.200	mg/L		1	HXC1	08/24/23	1712	2482580	1
Fluoride		0.347	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate		269	5.32	16.0	mg/L		40	HXC1	08/25/23	0603	2482580	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/28/23	0929	2482668	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/06/23	2130	2482705	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0286	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	J	0.00592	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron		0.100	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Magnesium		32.0	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.0108	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		3.93	0.0800	0.300	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		2.36	0.104	0.300	mg/L	1.00	20	PRB	09/07/23	1013	2482705	5
Calcium		71.4	1.60	4.00	mg/L	1.00	20					
Beryllium	J	0.000200	0.000200	0.000500	mg/L	1.00	1	PRB	09/06/23	2355	2482705	6
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Sodium		18.5	0.0800	0.250	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		485	2.38	10.0	mg/L			CH6	08/29/23	1539	2484233	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/28/23	1254	2483779	8

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Certificate of Analysis

Report Date: September 7, 2023

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPE

Client Sample ID: BRA-BRGWC-35S
Sample ID: 634615002
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		52.7	0.725	2.00	mg/L			JW2	08/29/23	1159	2484392	9
Bicarbonate alkalinity (CaCO3)		52.7	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/25/23	1050	2482660
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482704

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	
8	SM 4500-S (2-) D	
9	SM 2320B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: September 7, 2023

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPE

Client Sample ID: BRA-BRGWC-36S
Sample ID: 634615003
Matrix: WG
Collect Date: 23-AUG-23 15:56
Receive Date: 24-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		223	2.66	8.00	mg/L		20	HXC1	08/25/23	0735	2482580	1
Fluoride		0.301	0.0660	0.200	mg/L		2	HXC1	08/25/23	0806	2482580	2
Chloride		8.26	0.0670	0.200	mg/L		1	HXC1	08/24/23	1946	2482580	3
Nitrate-N		0.136	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/28/23	0930	2482668	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/06/23	2134	2482705	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0243	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	J	0.00649	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0387	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Magnesium		17.2	0.0100	0.0300	mg/L	1.00	1					
Manganese	J	0.00167	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		3.40	0.0800	0.300	mg/L	1.00	1					
Selenium	J	0.00173	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	PRB	09/06/23	2359	2482705	6
Calcium		43.4	0.0800	0.200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Sodium		36.9	0.0800	0.250	mg/L	1.00	1					
Boron		1.04	0.0520	0.150	mg/L	1.00	10	PRB	09/07/23	1015	2482705	7
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		398	2.38	10.0	mg/L			CH6	08/29/23	1539	2484233	8
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/28/23	1256	2483779	9

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Certificate of Analysis

Report Date: September 7, 2023

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPE

Client Sample ID: BRA-BRGWC-36S
Sample ID: 634615003
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		20.6	0.725	2.00	mg/L			JW2	08/29/23	1200	2484392	10
Bicarbonate alkalinity (CaCO3)		20.6	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482704
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/25/23	1050	2482660

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 4500-S (2-) D	
10	SM 2320B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: September 7, 2023

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPE

Client Sample ID: BRA-BRGWC-38S
Sample ID: 634615004
Matrix: WG
Collect Date: 23-AUG-23 12:12
Receive Date: 24-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		6.44	0.0670	0.200	mg/L		1	HXC1	08/24/23	2017	2482580	1
Fluoride		0.748	0.0330	0.100	mg/L		1					
Nitrate-N		0.123	0.0330	0.100	mg/L		1					
Sulfate		274	5.32	16.0	mg/L		40	HXC1	08/25/23	0837	2482580	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/28/23	0932	2482668	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/06/23	2138	2482705	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0134	0.000670	0.00400	mg/L	1.00	1					
Cadmium	J	0.000410	0.000300	0.00100	mg/L	1.00	1					
Chromium	J	0.00338	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.139	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0343	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Magnesium		30.4	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		5.28	0.0800	0.300	mg/L	1.00	1					
Selenium		0.0186	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Beryllium		0.00680	0.000200	0.000500	mg/L	1.00	1	PRB	09/07/23	0002	2482705	5
Calcium		28.7	0.0800	0.200	mg/L	1.00	1					
Lithium		0.0195	0.00300	0.0100	mg/L	1.00	1					
Sodium		36.3	0.0800	0.250	mg/L	1.00	1					
Boron		1.37	0.0520	0.150	mg/L	1.00	10	PRB	09/07/23	1017	2482705	6
Manganese		1.43	0.0100	0.0500	mg/L	1.00	10					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		459	2.38	10.0	mg/L			CH6	08/29/23	1539	2484233	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/28/23	1256	2483779	8

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Certificate of Analysis

Report Date: September 7, 2023

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPE

Client Sample ID: BRA-BRGWC-38S
Sample ID: 634615004
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	08/29/23	1202	2484392	9
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/25/23	1050	2482660
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482704

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	
8	SM 4500-S (2-) D	
9	SM 2320B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: September 7, 2023

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPE

Client Sample ID: BRA-PZ-52D
Sample ID: 634615005
Matrix: WG
Collect Date: 23-AUG-23 13:46
Receive Date: 24-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		6.90	0.0670	0.200	mg/L		1	HXC1	08/24/23	2047	2482580	1
Fluoride		1.94	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate		112	1.33	4.00	mg/L		10	HXC1	08/25/23	0908	2482580	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/28/23	0934	2482668	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	PRB	09/07/23	0006	2482705	4
Boron		0.0668	0.00520	0.0150	mg/L	1.00	1					
Calcium		46.7	0.0800	0.200	mg/L	1.00	1					
Lithium		0.0182	0.00300	0.0100	mg/L	1.00	1					
Sodium		68.2	0.800	2.50	mg/L	1.00	10	PRB	09/07/23	1019	2482705	5
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/06/23	2141	2482705	6
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0163	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000307	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0556	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Magnesium		10.7	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.00623	0.00100	0.00500	mg/L	1.00	1					
Molybdenum		0.0154	0.000200	0.00100	mg/L	1.00	1					
Potassium		7.47	0.0800	0.300	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		372	2.38	10.0	mg/L			CH6	08/29/23	1539	2484233	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/25/23	1052	2482961	8

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Certificate of Analysis

Report Date: September 7, 2023

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPE

Client Sample ID: BRA-PZ-52D
Sample ID: 634615005
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		180	0.725	2.00	mg/L			JW2	08/29/23	1204	2484392	9
Bicarbonate alkalinity (CaCO3)		180	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/25/23	1050	2482660
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482704

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	
8	SM 4500-S (2-) D	
9	SM 2320B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: September 7, 2023

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPE

Client Sample ID: BRA-PZ-70I
Sample ID: 634615006
Matrix: WG
Collect Date: 23-AUG-23 16:12
Receive Date: 24-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		139	1.33	4.00	mg/L		10	HXC1	08/25/23	0939	2482580	1
Chloride		5.75	0.0670	0.200	mg/L		1	HXC1	08/24/23	2118	2482580	2
Nitrate-N		0.175	0.0330	0.100	mg/L		1					
Fluoride		0.229	0.0660	0.200	mg/L		2	HXC1	08/25/23	1010	2482580	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury		0.00322	0.0000670	0.000200	mg/L	1.00	1	JP2	08/28/23	0939	2482668	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Beryllium	J	0.000325	0.000200	0.000500	mg/L	1.00	1	PRB	09/07/23	0010	2482705	5
Calcium		31.4	0.0800	0.200	mg/L	1.00	1					
Lithium	J	0.00385	0.00300	0.0100	mg/L	1.00	1					
Sodium		19.5	0.0800	0.250	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/06/23	2145	2482705	6
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0196	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000784	0.000300	0.00100	mg/L	1.00	1					
Iron		0.105	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Magnesium		11.1	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.291	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		3.91	0.0800	0.300	mg/L	1.00	1					
Selenium		0.00829	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		1.01	0.0520	0.150	mg/L	1.00	10	PRB	09/07/23	1021	2482705	7
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		252	2.38	10.0	mg/L			CH6	08/29/23	1539	2484233	8
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/25/23	1052	2482961	9

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Certificate of Analysis

Report Date: September 7, 2023

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPE

Client Sample ID: BRA-PZ-70I
Sample ID: 634615006
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		14.5	0.725	2.00	mg/L			JW2	08/29/23	1207	2484392	10
Bicarbonate alkalinity (CaCO3)		14.5	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/25/23	1050	2482660
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482704

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 4500-S (2-) D	
10	SM 2320B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: September 7, 2023

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPE

Client Sample ID: BRA-APE-FD-05
Sample ID: 634615007
Matrix: WG
Collect Date: 23-AUG-23 12:00
Receive Date: 24-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		6.34	0.0670	0.200	mg/L		1	HXC1	08/24/23	2149	2482580	1
Fluoride		0.341	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate		273	3.33	10.0	mg/L		25	HXC1	08/25/23	1041	2482580	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/28/23	0940	2482668	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/06/23	2148	2482705	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0269	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	J	0.00564	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0804	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Magnesium		31.7	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.00976	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		3.84	0.0800	0.300	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		2.22	0.104	0.300	mg/L	1.00	20	PRB	09/07/23	1023	2482705	5
Calcium		66.3	1.60	4.00	mg/L	1.00	20					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	PRB	09/07/23	0013	2482705	6
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Sodium		18.3	0.0800	0.250	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		505	2.38	10.0	mg/L			CH6	08/29/23	1539	2484233	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/28/23	1256	2483779	8

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Report Date: September 7, 2023

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPE

Client Sample ID: BRA-APE-FD-05 Project: GPCC00101
Sample ID: 634615007 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		53.0	0.725	2.00	mg/L			JW2	08/29/23	1209	2484392	9
Bicarbonate alkalinity (CaCO3)		53.0	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482704
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/25/23	1050	2482660

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	
8	SM 4500-S (2-) D	
9	SM 2320B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: September 7, 2023

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPE

Client Sample ID: BRA-APE-FB-08
Sample ID: 634615008
Matrix: WQ
Collect Date: 23-AUG-23 16:30
Receive Date: 24-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	HXC1	08/24/23	2220	2482580	1
Fluoride		0.340	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/28/23	0942	2482668	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/06/23	2152	2482705	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	J	0.000714	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Magnesium	J	0.0147	0.0100	0.0300	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	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					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	PRB	09/07/23	0017	2482705	4
Boron		0.0205	0.00520	0.0150	mg/L	1.00	1					
Calcium	J	0.0850	0.0800	0.200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Sodium		0.282	0.0800	0.250	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			CH6	08/29/23	1603	2484234	5
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/28/23	1257	2483779	6

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Certificate of Analysis

Report Date: September 7, 2023

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

Client Sample ID:	BRA-APE-FB-08	Project:	GPCC00101
Sample ID:	634615008	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	08/29/23	1211	2484392	7
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482704
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/25/23	1050	2482660

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	SM 2540C	
6	SM 4500-S (2-) D	
7	SM 2320B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: September 7, 2023

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPE

Client Sample ID: BRA-APE-EB-09
Sample ID: 634615009
Matrix: WQ
Collect Date: 23-AUG-23 16:45
Receive Date: 24-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	HXC1	08/24/23	2251	2482580	1
Fluoride	J	0.0531	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/28/23	0944	2482668	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	PRB	09/07/23	0028	2482705	3
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Sodium	U	ND	0.0800	0.250	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/06/23	2203	2482705	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Magnesium	U	ND	0.0100	0.0300	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	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	08/29/23	1603	2484234	5
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/25/23	1053	2482961	6

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Certificate of Analysis

Report Date: September 7, 2023

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

Client Sample ID:	BRA-APE-EB-09	Project:	GPCC00101
Sample ID:	634615009	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	08/29/23	1213	2484392	7
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482704
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/25/23	1050	2482660

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	SM 2540C	
6	SM 4500-S (2-) D	
7	SM 2320B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: September 7, 2023

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPE

Client Sample ID: BRA-APE-EB-10
Sample ID: 634615010
Matrix: WQ
Collect Date: 23-AUG-23 13:15
Receive Date: 24-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		0.581	0.0670	0.200	mg/L		1	HXC1	08/24/23	2322	2482580	1
Fluoride		0.302	0.0330	0.100	mg/L		1					
Nitrate-N		0.470	0.0330	0.100	mg/L		1					
Sulfate	J	0.329	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/28/23	0945	2482668	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	PRB	09/07/23	0031	2482705	3
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1					
Calcium		0.361	0.0800	0.200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Sodium		0.289	0.0800	0.250	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/06/23	2207	2482705	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Magnesium	J	0.0142	0.0100	0.0300	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium	J	0.110	0.0800	0.300	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	08/29/23	1603	2484234	5
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/25/23	1054	2482961	6

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Certificate of Analysis

Report Date: September 7, 2023

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

Client Sample ID:	BRA-APE-EB-10	Project:	GPCC00101
Sample ID:	634615010	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	08/29/23	1214	2484392	7
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/25/23	1050	2482660
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482704

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	SM 2540C	
6	SM 4500-S (2-) D	
7	SM 2320B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: September 6, 2023

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPE

Client Sample ID: BRA-BRGWC-33S
Sample ID: 634441001
Matrix: WG
Collect Date: 22-AUG-23 12:10
Receive Date: 23-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		32.7	3.35	10.0	mg/L		50	JLD1	08/24/23	0117	2481584	1
Sulfate		466	6.65	20.0	mg/L		50					
Fluoride		0.123	0.0330	0.100	mg/L		1	JLD1	08/23/23	1647	2481584	2
Nitrate-N	J	0.0707	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/25/23	1159	2482624	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	08/31/23	2225	2482703	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0357	0.000670	0.00400	mg/L	1.00	1					
Beryllium		0.00190	0.000200	0.000500	mg/L	1.00	1					
Cadmium	J	0.000533	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.0659	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0388	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00967	0.00300	0.0100	mg/L	1.00	1					
Magnesium		19.5	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		14.4	0.0800	0.300	mg/L	1.00	1					
Selenium		0.00572	0.00150	0.00500	mg/L	1.00	1					
Sodium		39.9	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.946	0.0520	0.150	mg/L	1.00	10	PRB	09/01/23	0854	2482703	5
Calcium		135	0.800	2.00	mg/L	1.00	10					
Manganese		3.14	0.0100	0.0500	mg/L	1.00	10					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		778	2.38	10.0	mg/L			CH6	08/25/23	0938	2482652	6
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/24/23	1736	2481696	7

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Certificate of Analysis

Report Date: September 6, 2023

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

Client Sample ID:	BRA-BRGWC-33S	Project:	GPCC00101
Sample ID:	634441001	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	J	1.40	0.725	2.00	mg/L			JW2	08/24/23	1558	2482476	8
Bicarbonate alkalinity (CaCO3)	J	1.40	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/24/23	1200	2482623
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482702

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	SM 2540C	
7	SM 4500-S (2-) D	
8	SM 2320B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: September 6, 2023

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPE

Client Sample ID:	BRA-APE-FD-04	Project:	GPCC00101
Sample ID:	634441002	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	22-AUG-23 12:00		
Receive Date:	23-AUG-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		0.119	0.0330	0.100	mg/L		1	JLD1	08/23/23	1719	2481584	1
Nitrate-N	J	0.0630	0.0330	0.100	mg/L		1					
Chloride		33.4	3.35	10.0	mg/L		50	JLD1	08/24/23	0253	2481584	2
Sulfate		472	6.65	20.0	mg/L		50					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/25/23	1201	2482624	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	08/31/23	2228	2482703	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0379	0.000670	0.00400	mg/L	1.00	1					
Beryllium		0.00199	0.000200	0.000500	mg/L	1.00	1					
Cadmium	J	0.000586	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.0696	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0416	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0100	0.00300	0.0100	mg/L	1.00	1					
Magnesium		20.7	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		15.3	0.0800	0.300	mg/L	1.00	1					
Selenium		0.00628	0.00150	0.00500	mg/L	1.00	1					
Sodium		42.0	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.988	0.0520	0.150	mg/L	1.00	10	PRB	09/01/23	0856	2482703	5
Calcium		143	0.800	2.00	mg/L	1.00	10					
Manganese		3.29	0.0100	0.0500	mg/L	1.00	10					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		766	2.38	10.0	mg/L			CH6	08/25/23	0938	2482652	6
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/24/23	1738	2481696	7

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Certificate of Analysis

Report Date: September 6, 2023

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPE

Client Sample ID: BRA-APE-FD-04 Project: GPCC00101
Sample ID: 634441002 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	J	1.20	0.725	2.00	mg/L			JW2	08/24/23	1601	2482476	8
Bicarbonate alkalinity (CaCO3)	J	1.20	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/24/23	1200	2482623
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482702

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	SM 2540C	
7	SM 4500-S (2-) D	
8	SM 2320B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: September 6, 2023

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPE

Client Sample ID: BRA-BRGWC-34S
Sample ID: 634441003
Matrix: WG
Collect Date: 22-AUG-23 14:35
Receive Date: 23-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		299	3.33	10.0	mg/L		25	JLD1	08/24/23	0357	2481584	1
Chloride		13.2	0.134	0.400	mg/L		2	JLD1	08/24/23	0325	2481584	2
Fluoride	J	0.0816	0.0660	0.200	mg/L		2					
Nitrate-N	J	0.0431	0.0330	0.100	mg/L		1	JLD1	08/23/23	1751	2481584	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/25/23	1203	2482624	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	08/31/23	2232	2482703	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0268	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		0.00384	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		18.9	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		3.52	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		20.7	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		1.90	0.104	0.300	mg/L	1.00	20	PRB	09/01/23	0858	2482703	6
Calcium		83.4	1.60	4.00	mg/L	1.00	20					
Manganese		3.33	0.0200	0.100	mg/L	1.00	20					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		495	2.38	10.0	mg/L			CH6	08/25/23	0938	2482652	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/24/23	1739	2481696	8

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Certificate of Analysis

Report Date: September 6, 2023

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPE

Client Sample ID: BRA-BRGWC-34S
Sample ID: 634441003
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		28.9	0.725	2.00	mg/L			JW2	08/24/23	1603	2482476	9
Bicarbonate alkalinity (CaCO3)		28.9	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/24/23	1200	2482623
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482702

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 4500-S (2-) D	
9	SM 2320B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: September 6, 2023

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

Client Sample ID:	BRA-APE-FB-07	Project:	GPCC00101
Sample ID:	634441004	Client ID:	GPCC001
Matrix:	WQ		
Collect Date:	22-AUG-23 15:10		
Receive Date:	23-AUG-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	JLD1	08/23/23	1823	2481584	1
Fluoride	J	0.0478	0.0330	0.100	mg/L		1					
Nitrate-N	J	0.0430	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/25/23	1204	2482624	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	08/31/23	2257	2482703	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron	J	0.00844	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium	U	ND	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium	U	ND	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1	PRB	09/01/23	0910	2482703	4
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			CH6	08/25/23	0938	2482652	5
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/24/23	1740	2481696	6

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Certificate of Analysis

Report Date: September 6, 2023

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

Client Sample ID:	BRA-APE-FB-07	Project:	GPCC00101
Sample ID:	634441004	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	08/24/23	1605	2482476	7
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482702
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/24/23	1200	2482623

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	SM 2540C	
6	SM 4500-S (2-) D	
7	SM 2320B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: September 6, 2023

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

Client Sample ID:	BRA-BRGWC-37S	Project:	GPCC00101
Sample ID:	634441005	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	22-AUG-23 16:51		
Receive Date:	23-AUG-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		1.89	0.0670	0.200	mg/L		1	JLD1	08/23/23	1855	2481584	1
Fluoride	J	0.0445	0.0330	0.100	mg/L		1					
Nitrate-N		0.294	0.0330	0.100	mg/L		1					
Sulfate	J	0.355	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/25/23	1206	2482624	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	08/31/23	2301	2482703	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0266	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron	J	0.00802	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		3.47	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		1.16	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		1.79	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		4.23	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1	PRB	09/01/23	0912	2482703	4
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		42.0	2.38	10.0	mg/L			CH6	08/25/23	0938	2482652	5
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/24/23	1740	2481696	6

GEL LABORATORIES LLC
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Certificate of Analysis

Report Date: September 6, 2023

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

Client Sample ID:	BRA-BRGWC-37S	Project:	GPCC00101
Sample ID:	634441005	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		21.9	0.725	2.00	mg/L			JW2	08/24/23	1607	2482476	7
Bicarbonate alkalinity (CaCO3)		21.9	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482702
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/24/23	1200	2482623

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	SM 2540C	
6	SM 4500-S (2-) D	
7	SM 2320B	

Notes:

Column headers are defined as follows:

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

GEL LABORATORIES LLC
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Certificate of Analysis

Report Date: September 6, 2023

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPE

Client Sample ID: BRA-PZ-13S
Sample ID: 634441006
Matrix: WG
Collect Date: 22-AUG-23 16:47
Receive Date: 23-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		46.2	0.665	2.00	mg/L		5	JLD1	08/24/23	1046	2481584	1
Chloride		2.73	0.0670	0.200	mg/L		1	JLD1	08/23/23	1927	2481584	2
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Nitrate-N	J	0.0695	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/25/23	1208	2482624	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Manganese	J	0.00237	0.00100	0.00500	mg/L	1.00	1	PRB	09/01/23	0914	2482703	4
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	08/31/23	2304	2482703	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0683	0.000670	0.00400	mg/L	1.00	1					
Beryllium	J	0.000259	0.000200	0.000500	mg/L	1.00	1					
Boron	J	0.00855	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		8.74	0.0800	0.200	mg/L	1.00	1					
Chromium		0.0111	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		5.04	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		3.58	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		11.4	0.0800	0.250	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		112	2.38	10.0	mg/L			CH6	08/25/23	1010	2482655	6
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/24/23	1741	2481696	7

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

Certificate of Analysis

Report Date: September 6, 2023

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPE

Client Sample ID: BRA-PZ-13S
Sample ID: 634441006
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		21.0	0.725	2.00	mg/L			JW2	08/24/23	1609	2482476	8
Bicarbonate alkalinity (CaCO3)		21.0	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482702
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/24/23	1200	2482623

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	SM 2540C	
7	SM 4500-S (2-) D	
8	SM 2320B	

Notes:

Column headers are defined as follows:

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

QC Summary

Report Date: September 7, 2023

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

Contact: **Joju Abraham**

Workorder: **634615**

Parmname	NOM		Sample	Qual	QC	Units	RPD%		REC%	Range	Anlst	Date Time
Ion Chromatography												
Batch 2482580												
QC1205499015 634615001 DUP												
Chloride			5.18		5.20	mg/L	0.566			(0%-20%)	HXC1	08/25/23 03:29
Fluoride			0.484		0.453	mg/L	6.49	^		(+/-0.100)		
Nitrate-N		J	0.0940	J	0.0939	mg/L	0.106	^		(+/-0.100)		
Sulfate			180		180	mg/L	0.133			(0%-20%)		08/25/23 05:01
QC1205499014 LCS												
Chloride	5.00				4.79	mg/L			95.8	(90%-110%)		08/25/23 01:56
Fluoride	2.50				2.47	mg/L			98.9	(90%-110%)		
Nitrate-N	2.50				2.37	mg/L			94.9	(90%-110%)		
Sulfate	10.0				9.81	mg/L			98.1	(90%-110%)		
QC1205499013 MB												
Chloride				U	ND	mg/L						08/25/23 01:25
Fluoride				U	ND	mg/L						
Nitrate-N				U	ND	mg/L						
Sulfate				U	ND	mg/L						
QC1205499016 634615001 PS												
Chloride	5.00		5.18		10.7	mg/L			111	* (90%-110%)		08/25/23 03:59

QC Summary

Workorder: **634615**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography											
Batch 2482580											
Fluoride	2.50		0.484		2.91	mg/L		97	(90%-110%)	HXC1	08/25/23 03:59
Nitrate-N	2.50	J	0.0940		2.43	mg/L		93.5	(90%-110%)		
Sulfate	10.0		9.00		19.6	mg/L		106	(90%-110%)		08/25/23 05:32
Metals Analysis - ICPMS											
Batch 2482705											
QC1205499170 LCS											
Antimony	0.0500				0.0501	mg/L		100	(80%-120%)	PRB	09/06/23 21:01
Arsenic	0.0500				0.0502	mg/L		100	(80%-120%)		
Barium	0.0500				0.0473	mg/L		94.6	(80%-120%)		
Beryllium	0.0500				0.0598	mg/L		120	(80%-120%)		
Boron	0.100				0.111	mg/L		111	(80%-120%)		
Cadmium	0.0500				0.0509	mg/L		102	(80%-120%)		
Calcium	2.00				2.11	mg/L		105	(80%-120%)		09/07/23 09:49
Chromium	0.0500				0.0514	mg/L		103	(80%-120%)		09/06/23 21:01
Cobalt	0.0500				0.0511	mg/L		102	(80%-120%)		
Iron	2.00				2.05	mg/L		102	(80%-120%)		
Lead	0.0500				0.0517	mg/L		103	(80%-120%)		

QC Summary

Workorder: **634615**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2482705										
Lithium	0.0500			0.0576	mg/L		115	(80%-120%)	PRB	09/06/23 21:01
Magnesium	2.00			2.09	mg/L		104	(80%-120%)		
Manganese	0.0500			0.0497	mg/L		99.4	(80%-120%)		
Molybdenum	0.0500			0.0517	mg/L		103	(80%-120%)		
Potassium	2.00			2.02	mg/L		101	(80%-120%)		
Selenium	0.0500			0.0478	mg/L		95.7	(80%-120%)		
Sodium	2.00			2.16	mg/L		108	(80%-120%)		09/07/23 09:49
Thallium	0.0500			0.0497	mg/L		99.4	(80%-120%)		09/06/23 21:01
QC1205499169 MB										
Antimony			U	ND	mg/L					09/06/23 20:58
Arsenic			U	ND	mg/L					
Barium			U	ND	mg/L					
Beryllium			U	ND	mg/L					
Boron			U	ND	mg/L					
Cadmium			U	ND	mg/L					
Calcium			U	ND	mg/L					09/07/23 09:47

QC Summary

Workorder: **634615**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2482705										
Chromium			U	ND	mg/L				PRB	09/06/23 20:58
Cobalt			U	ND	mg/L					
Iron			U	ND	mg/L					
Lead			U	ND	mg/L					
Lithium			U	ND	mg/L					
Magnesium			U	ND	mg/L					
Manganese			U	ND	mg/L					
Molybdenum			U	ND	mg/L					
Potassium			U	ND	mg/L					
Selenium			U	ND	mg/L					
Sodium			U	ND	mg/L					09/07/23 09:47
Thallium			U	ND	mg/L					09/06/23 20:58
QC1205499171 634615001 MS										
Antimony	0.0500	U	ND	0.0514	mg/L		103	(75%-125%)		09/06/23 21:09
Arsenic	0.0500	U	ND	0.0505	mg/L		98.8	(75%-125%)		
Barium	0.0500		0.0445	0.0929	mg/L		96.9	(75%-125%)		

QC Summary

Workorder: **634615**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2482705											
Beryllium	0.0500	U	ND		0.0595	mg/L		119	(75%-125%)	PRB	09/06/23 21:09
Boron	0.100		0.0601		0.170	mg/L		110	(75%-125%)		
Cadmium	0.0500	U	ND		0.0509	mg/L		102	(75%-125%)		
Calcium	2.00		47.9		49.7	mg/L		N/A	(75%-125%)		09/07/23 10:00
Chromium	0.0500		0.0115		0.0621	mg/L		101	(75%-125%)		09/06/23 21:09
Cobalt	0.0500	U	ND		0.0495	mg/L		99	(75%-125%)		
Iron	2.00	J	0.0446		2.04	mg/L		99.9	(75%-125%)		
Lead	0.0500	U	ND		0.0508	mg/L		102	(75%-125%)		
Lithium	0.0500	U	ND		0.0584	mg/L		114	(75%-125%)		
Magnesium	2.00		24.7		27.2	mg/L		N/A	(75%-125%)		
Manganese	0.0500	U	ND		0.0498	mg/L		99	(75%-125%)		
Molybdenum	0.0500	U	ND		0.0537	mg/L		107	(75%-125%)		
Potassium	2.00		1.19		3.21	mg/L		101	(75%-125%)		
Selenium	0.0500	J	0.00214		0.0529	mg/L		102	(75%-125%)		
Sodium	2.00		24.3		26.5	mg/L		N/A	(75%-125%)		09/07/23 10:00

QC Summary

Workorder: **634615**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2482705											
Thallium	0.0500	U	ND		0.0486	mg/L		97.1	(75%-125%)	PRB	09/06/23 21:09
QC1205499172 634615001 MSD											
Antimony	0.0500	U	ND		0.0505	mg/L	1.68	101	(0%-20%)		09/06/23 21:12
Arsenic	0.0500	U	ND		0.0503	mg/L	0.359	98.4	(0%-20%)		
Barium	0.0500		0.0445		0.0900	mg/L	3.18	91.1	(0%-20%)		
Beryllium	0.0500	U	ND		0.0597	mg/L	0.435	119	(0%-20%)		
Boron	0.100		0.0601		0.169	mg/L	0.597	109	(0%-20%)		
Cadmium	0.0500	U	ND		0.0501	mg/L	1.62	100	(0%-20%)		
Calcium	2.00		47.9		47.5	mg/L	4.48	N/A	(0%-20%)		09/07/23 10:02
Chromium	0.0500		0.0115		0.0609	mg/L	1.91	98.8	(0%-20%)		09/06/23 21:12
Cobalt	0.0500	U	ND		0.0488	mg/L	1.57	97.5	(0%-20%)		
Iron	2.00	J	0.0446		2.02	mg/L	0.88	99	(0%-20%)		
Lead	0.0500	U	ND		0.0491	mg/L	3.4	98.3	(0%-20%)		
Lithium	0.0500	U	ND		0.0572	mg/L	2.02	112	(0%-20%)		
Magnesium	2.00		24.7		26.1	mg/L	4.35	N/A	(0%-20%)		
Manganese	0.0500	U	ND		0.0491	mg/L	1.28	97.7	(0%-20%)		

QC Summary

Workorder: **634615**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2482705											
Molybdenum	0.0500	U	ND		0.0522	mg/L	2.82	104	(0%-20%)	PRB	09/06/23 21:12
Potassium	2.00		1.19		3.12	mg/L	2.62	96.9	(0%-20%)		
Selenium	0.0500	J	0.00214		0.0511	mg/L	3.51	97.9	(0%-20%)		
Sodium	2.00		24.3		25.2	mg/L	4.79	N/A	(0%-20%)		09/07/23 10:02
Thallium	0.0500	U	ND		0.0480	mg/L	1.1	96	(0%-20%)		09/06/23 21:12
QC1205499173 634615001 SDILT											
Antimony		U	ND	U	ND	ug/L	N/A		(0%-20%)		09/06/23 21:20
Arsenic		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Barium			44.5		9.45	ug/L	6.18		(0%-20%)		
Beryllium		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Boron			60.1	J	12.2	ug/L	1.49		(0%-20%)		
Cadmium		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Calcium			9580		1920	ug/L	.186		(0%-20%)		09/07/23 10:07
Chromium			11.5	U	ND	ug/L	N/A		(0%-20%)		09/06/23 21:20
Cobalt		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Iron		J	44.6	U	ND	ug/L	N/A		(0%-20%)		

QC Summary

Workorder: **634615**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2482705										
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)	PRB	09/06/23 21:20
Lithium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Magnesium		24700		5300	ug/L	7.32		(0%-20%)		
Manganese	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Molybdenum	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Potassium		1190	J	231	ug/L	2.54		(0%-20%)		
Selenium	J	2.14	U	ND	ug/L	N/A		(0%-20%)		
Sodium		4860		988	ug/L	1.66		(0%-20%)		09/07/23 10:07
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)		09/06/23 21:20
Metals Analysis-Mercury										
Batch 2482668										
QC1205499097 634513006 DUP										
Mercury	U	ND	U	ND	mg/L	N/A			JP2	08/28/23 09:09
QC1205499096 LCS										
Mercury 0.00200				0.00205	mg/L		103	(80%-120%)		08/28/23 09:01
QC1205499095 MB										
Mercury			U	ND	mg/L					08/28/23 08:59
QC1205499098 634513006 MS										
Mercury 0.00200	U	ND		0.00197	mg/L		98.5	(75%-125%)		08/28/23 09:11

QC Summary

Workorder: **634615**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis-Mercury										
Batch 2482668										
QC1205499099 634513006 SDILT Mercury	U	ND	U	ND	ug/L	N/A		(0%-10%)	JP2	08/28/23 09:12
Solids Analysis										
Batch 2483702										
QC1205501048 634610003 DUP Total Dissolved Solids		5050		5870	mg/L	15*		(0%-5%)	CH6	08/28/23 15:50
QC1205501047 LCS Total Dissolved Solids	300			301	mg/L		100	(95%-105%)		08/28/23 15:50
QC1205501046 MB Total Dissolved Solids			U	ND	mg/L					08/28/23 15:50
Batch 2484233										
QC1205502071 634810010 DUP Total Dissolved Solids		184		187	mg/L	1.62		(0%-5%)	CH6	08/29/23 15:39
QC1205502070 LCS Total Dissolved Solids	300			301	mg/L		100	(95%-105%)		08/29/23 15:39
QC1205502069 MB Total Dissolved Solids			U	ND	mg/L					08/29/23 15:39
Batch 2484234										
QC1205502076 634643001 DUP Total Dissolved Solids		1270		1280	mg/L	0.94		(0%-5%)	CH6	08/29/23 16:03
QC1205502074 LCS Total Dissolved Solids	300			301	mg/L		100	(95%-105%)		08/29/23 16:03
QC1205502073 MB Total Dissolved Solids			U	ND	mg/L					08/29/23 16:03

QC Summary

Workorder: 634615

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Spectrometric Analysis										
Batch 2482961										
QC1205499656 LCS										
Total Sulfide	0.400			0.399	mg/L		99.7	(85%-115%)	JW2	08/25/23 10:42
QC1205499655 MB										
Total Sulfide			U	ND	mg/L					08/25/23 10:42
QC1205499657 634513005 PS										
Total Sulfide	0.400 U	ND		0.389	mg/L		96.4	(75%-125%)		08/25/23 10:48
QC1205499658 634513005 PSD										
Total Sulfide	0.400 U	ND		0.391	mg/L	0.511	96.9	(0%-15%)		08/25/23 10:48
Batch 2483779										
QC1205501209 LCS										
Total Sulfide	0.400			0.398	mg/L		99.4	(85%-115%)	JW2	08/28/23 12:54
QC1205501208 MB										
Total Sulfide			U	ND	mg/L					08/28/23 12:54
QC1205501210 634615002 PS										
Total Sulfide	0.400 U	ND		0.118	mg/L		29.4*	(75%-125%)		08/28/23 12:55
QC1205501212 634650011 PS										
Total Sulfide	0.400 U	ND		0.111	mg/L		27.7*	(75%-125%)		08/28/23 12:59
QC1205501211 634615002 PSD										
Total Sulfide	0.400 U	ND		0.113	mg/L	3.73	28.3*	(0%-15%)		08/28/23 12:55
QC1205501213 634650011 PSD										
Total Sulfide	0.400 U	ND		0.109	mg/L	1.96	27.2*	(0%-15%)		08/28/23 13:00

QC Summary

Workorder: **634615**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Titration and Ion Analysis											
Batch 2484392											
QC1205502340 634448001 DUP											
Alkalinity, Total as CaCO3			65.8		65.5	mg/L	0.457		(0%-20%)	JW2	08/29/23 11:54
Bicarbonate alkalinity (CaCO3)			65.8		65.5	mg/L	0.457		(0%-20%)		
Carbonate alkalinity (CaCO3)		U	ND	U	ND	mg/L	N/A				
QC1205502342 634643001 DUP											
Alkalinity, Total as CaCO3			80.2		80.4	mg/L	0.249		(0%-20%)		08/29/23 12:16
Bicarbonate alkalinity (CaCO3)			80.2		80.4	mg/L	0.249		(0%-20%)		
Carbonate alkalinity (CaCO3)		U	ND	U	ND	mg/L	N/A				
QC1205502339 LCS											
Alkalinity, Total as CaCO3	50.0				51.8	mg/L		104	(90%-110%)		08/29/23 11:37
QC1205502344 LCS											
Alkalinity, Total as CaCO3	15.0				14.8	mg/L		98.7	(90%-110%)		08/29/23 11:38
QC1205502341 634448001 MS											
Alkalinity, Total as CaCO3	50.0		65.8		118	mg/L		104	(80%-120%)		08/29/23 11:54
QC1205502343 634643001 MS											
Alkalinity, Total as CaCO3	50.0		80.2		132	mg/L		103	(80%-120%)		08/29/23 12:17

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

QC Summary

Workorder: **634615**

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

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

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

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

QC Summary

Report Date: September 6, 2023

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

Contact: **Joju Abraham**

Workorder: **634441**

Parmname	NOM		Sample	Qual	QC	Units	RPD%		REC%	Range	Anlst	Date Time
Ion Chromatography												
Batch 2481584												
QC1205497354 634441001 DUP												
Chloride			32.7		32.5	mg/L	0.522	^		(+/-10.0)	JLD1	08/24/23 01:49
Fluoride			0.123		0.124	mg/L	1.13	^		(+/-0.100)		08/24/23 00:14
Nitrate-N		J	0.0707	J	0.0739	mg/L	4.43	^		(+/-0.100)		
Sulfate			466		474	mg/L	1.69			(0%-20%)		08/24/23 01:49
QC1205497353 LCS												
Chloride	5.00				4.64	mg/L			92.8	(90%-110%)		08/23/23 23:42
Fluoride	2.50				2.37	mg/L			94.6	(90%-110%)		
Nitrate-N	2.50				2.27	mg/L			91	(90%-110%)		
Sulfate	10.0				9.48	mg/L			94.8	(90%-110%)		
QC1205497352 MB												
Chloride				U	ND	mg/L						08/23/23 23:10
Fluoride				U	ND	mg/L						
Nitrate-N				U	ND	mg/L						
Sulfate				U	ND	mg/L						
QC1205497355 634441001 PS												
Chloride	5.00		0.654		5.10	mg/L			88.9 *	(90%-110%)		08/24/23 02:21

QC Summary

Workorder: **634441**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography											
Batch 2481584											
Fluoride	2.50		0.123		2.56	mg/L		97.3	(90%-110%)	JLD1	08/24/23 00:45
Nitrate-N	2.50	J	0.0707		2.29	mg/L		88.7*	(90%-110%)		
Sulfate	10.0		9.32		18.8	mg/L		94.3	(90%-110%)		08/24/23 02:21
Metals Analysis - ICPMS											
Batch 2482703											
QC1205499165 LCS											
Antimony	0.0500				0.0492	mg/L		98.4	(80%-120%)	PRB	08/31/23 22:21
Arsenic	0.0500				0.0500	mg/L		99.9	(80%-120%)		
Barium	0.0500				0.0522	mg/L		104	(80%-120%)		
Beryllium	0.0500				0.0527	mg/L		105	(80%-120%)		
Boron	0.100				0.103	mg/L		103	(80%-120%)		
Cadmium	0.0500				0.0502	mg/L		100	(80%-120%)		
Calcium	2.00				1.96	mg/L		98	(80%-120%)		
Chromium	0.0500				0.0515	mg/L		103	(80%-120%)		
Cobalt	0.0500				0.0514	mg/L		103	(80%-120%)		
Iron	2.00				2.02	mg/L		101	(80%-120%)		
Lead	0.0500				0.0518	mg/L		104	(80%-120%)		

QC Summary

Workorder: **634441**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2482703										
Lithium	0.0500			0.0506	mg/L		101	(80%-120%)	PRB	08/31/23 22:21
Magnesium	2.00			1.97	mg/L		98.4	(80%-120%)		
Manganese	0.0500			0.0497	mg/L		99.4	(80%-120%)		09/01/23 08:52
Molybdenum	0.0500			0.0499	mg/L		99.8	(80%-120%)		08/31/23 22:21
Potassium	2.00			1.94	mg/L		97	(80%-120%)		
Selenium	0.0500			0.0493	mg/L		98.7	(80%-120%)		
Sodium	2.00			1.95	mg/L		97.6	(80%-120%)		
Thallium	0.0500			0.0507	mg/L		101	(80%-120%)		
QC1205499164 MB										
Antimony			U	ND	mg/L					08/31/23 22:18
Arsenic			U	ND	mg/L					
Barium			U	ND	mg/L					
Beryllium			U	ND	mg/L					
Boron			U	ND	mg/L					
Cadmium			U	ND	mg/L					
Calcium			U	ND	mg/L					

QC Summary

Workorder: **634441**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2482703											
Chromium				U	ND	mg/L				PRB	08/31/23 22:18
Cobalt				U	ND	mg/L					
Iron				U	ND	mg/L					
Lead				U	ND	mg/L					
Lithium				U	ND	mg/L					
Magnesium				U	ND	mg/L					
Manganese				U	ND	mg/L					09/01/23 08:50
Molybdenum				U	ND	mg/L					08/31/23 22:18
Potassium				U	ND	mg/L					
Selenium				U	ND	mg/L					
Sodium				U	ND	mg/L					
Thallium				U	ND	mg/L					
QC1205499166 634441003 MS											
Antimony	0.0500	U	ND		0.0511	mg/L		102	(75%-125%)		08/31/23 22:36
Arsenic	0.0500	U	ND		0.0528	mg/L		105	(75%-125%)		
Barium	0.0500		0.0268		0.0800	mg/L		106	(75%-125%)		

QC Summary

Workorder: **634441**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2482703											
Beryllium	0.0500	U	ND		0.0531	mg/L		106	(75%-125%)	PRB	08/31/23 22:36
Boron	0.100		1.90		2.08	mg/L		N/A	(75%-125%)		09/01/23 09:00
Cadmium	0.0500	U	ND		0.0511	mg/L		102	(75%-125%)		08/31/23 22:36
Calcium	2.00		83.4		88.8	mg/L		N/A	(75%-125%)		09/01/23 09:00
Chromium	0.0500	U	ND		0.0518	mg/L		103	(75%-125%)		08/31/23 22:36
Cobalt	0.0500		0.00384		0.0554	mg/L		103	(75%-125%)		
Iron	2.00	U	ND		2.06	mg/L		102	(75%-125%)		
Lead	0.0500	U	ND		0.0511	mg/L		102	(75%-125%)		
Lithium	0.0500	U	ND		0.0521	mg/L		102	(75%-125%)		
Magnesium	2.00		18.9		21.3	mg/L		N/A	(75%-125%)		
Manganese	0.0500		3.33		3.48	mg/L		N/A	(75%-125%)		09/01/23 09:00
Molybdenum	0.0500	U	ND		0.0527	mg/L		105	(75%-125%)		08/31/23 22:36
Potassium	2.00		3.52		5.59	mg/L		104	(75%-125%)		
Selenium	0.0500	U	ND		0.0531	mg/L		106	(75%-125%)		
Sodium	2.00		20.7		23.1	mg/L		N/A	(75%-125%)		

QC Summary

Workorder: **634441**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2482703											
Thallium	0.0500	U	ND		0.0503	mg/L		101	(75%-125%)	PRB	08/31/23 22:36
QC1205499167 634441003 MSD											
Antimony	0.0500	U	ND		0.0491	mg/L	4.07	98.1	(0%-20%)		08/31/23 22:39
Arsenic	0.0500	U	ND		0.0508	mg/L	3.79	101	(0%-20%)		
Barium	0.0500		0.0268		0.0757	mg/L	5.49	97.8	(0%-20%)		
Beryllium	0.0500	U	ND		0.0506	mg/L	4.96	101	(0%-20%)		
Boron	0.100		1.90		2.00	mg/L	4.07	N/A	(0%-20%)		09/01/23 09:02
Cadmium	0.0500	U	ND		0.0496	mg/L	2.97	98.7	(0%-20%)		08/31/23 22:39
Calcium	2.00		83.4		84.1	mg/L	5.45	N/A	(0%-20%)		09/01/23 09:02
Chromium	0.0500	U	ND		0.0504	mg/L	2.88	101	(0%-20%)		08/31/23 22:39
Cobalt	0.0500		0.00384		0.0540	mg/L	2.65	100	(0%-20%)		
Iron	2.00	U	ND		2.00	mg/L	2.95	98.6	(0%-20%)		
Lead	0.0500	U	ND		0.0493	mg/L	3.6	98.5	(0%-20%)		
Lithium	0.0500	U	ND		0.0509	mg/L	2.35	99.9	(0%-20%)		
Magnesium	2.00		18.9		20.7	mg/L	2.55	N/A	(0%-20%)		
Manganese	0.0500		3.33		3.35	mg/L	3.62	N/A	(0%-20%)		09/01/23 09:02

QC Summary

Workorder: **634441**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2482703											
Molybdenum	0.0500	U	ND		0.0512	mg/L	2.82	102	(0%-20%)	PRB	08/31/23 22:39
Potassium	2.00		3.52		5.37	mg/L	4.12	92.4	(0%-20%)		
Selenium	0.0500	U	ND		0.0512	mg/L	3.53	102	(0%-20%)		
Sodium	2.00		20.7		22.6	mg/L	2.28	N/A	(0%-20%)		
Thallium	0.0500	U	ND		0.0488	mg/L	3.06	97.5	(0%-20%)		
QC1205499168 634441003 SDILT											
Antimony		U	ND	U	ND	ug/L	N/A		(0%-20%)		08/31/23 22:46
Arsenic		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Barium			26.8		5.04	ug/L	6.03		(0%-20%)		
Beryllium		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Boron			95.1		20.6	ug/L	8.16		(0%-20%)		09/01/23 09:04
Cadmium		U	ND	U	ND	ug/L	N/A		(0%-20%)		08/31/23 22:46
Calcium			4170		869	ug/L	4.2		(0%-20%)		09/01/23 09:04
Chromium		U	ND	U	ND	ug/L	N/A		(0%-20%)		08/31/23 22:46
Cobalt			3.84	J	0.796	ug/L	3.56		(0%-20%)		
Iron		U	ND	U	ND	ug/L	N/A		(0%-20%)		

QC Summary

Workorder: **634441**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2482703										
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)	PRB	08/31/23 22:46
Lithium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Magnesium		18900		3500	ug/L	7.29		(0%-20%)		
Manganese		167		33.7	ug/L	1.09		(0%-20%)		09/01/23 09:04
Molybdenum	U	ND	U	ND	ug/L	N/A		(0%-20%)		08/31/23 22:46
Potassium		3520		680	ug/L	3.4		(0%-20%)		
Selenium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Sodium		20700		3830	ug/L	7.8		(0%-20%)		
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Metals Analysis-Mercury										
Batch 2482624										
QC1205499046 634447002 DUP										
Mercury	U	ND	U	ND	mg/L	N/A			JP2	08/25/23 12:24
QC1205499045 LCS										
Mercury 0.00200				0.00199	mg/L		99.5	(80%-120%)		08/25/23 11:58
QC1205499044 MB										
Mercury			U	ND	mg/L					08/25/23 11:56
QC1205499047 634447002 MS										
Mercury 0.00200	U	ND		0.00199	mg/L		99.5	(75%-125%)		08/25/23 12:26

QC Summary

Workorder: **634441**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis-Mercury											
Batch 2482624											
QC1205499048 634447002 SDILT											
Mercury		U	ND	U	ND	ug/L	N/A		(0%-10%)	JP2	08/25/23 12:27
Solids Analysis											
Batch 2482652											
QC1205499070 634323005 DUP											
Total Dissolved Solids			219		217	mg/L	0.917		(0%-5%)	CH6	08/25/23 09:38
QC1205499068 LCS											
Total Dissolved Solids	300				300	mg/L		100	(95%-105%)		08/25/23 09:38
QC1205499067 MB											
Total Dissolved Solids				U	ND	mg/L					08/25/23 09:38
Batch 2482655											
QC1205499078 634530001 DUP											
Total Dissolved Solids			360		364	mg/L	1.1		(0%-5%)	CH6	08/25/23 10:10
QC1205499076 LCS											
Total Dissolved Solids	300				301	mg/L		100	(95%-105%)		08/25/23 10:10
QC1205499075 MB											
Total Dissolved Solids				U	ND	mg/L					08/25/23 10:10
Spectrometric Analysis											
Batch 2481696											
QC1205497560 LCS											
Total Sulfide	0.400				0.398	mg/L		99.6	(85%-115%)	JW2	08/24/23 17:36
QC1205497559 MB											
Total Sulfide				U	ND	mg/L					08/24/23 17:36
QC1205497561 634441001 PS											
Total Sulfide	0.400	U	ND		0.363	mg/L		90.8	(75%-125%)		08/24/23 17:37

QC Summary

Workorder: **634441**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Spectrometric Analysis											
Batch 2481696											
QC1205497563 634447001 PS											
Total Sulfide	0.400	U	ND		0.420	mg/L		105	(75%-125%)	JW2	08/24/23 17:46
QC1205497562 634441001 PSD											
Total Sulfide	0.400	U	ND		0.367	mg/L	1.09	91.8	(0%-15%)		08/24/23 17:38
QC1205497564 634447001 PSD											
Total Sulfide	0.400	U	ND		0.412	mg/L	1.92	103	(0%-15%)		08/24/23 17:47
Titration and Ion Analysis											
Batch 2482476											
QC1205498938 LCS											
Alkalinity, Total as CaCO3	50.0				50.2	mg/L		100	(90%-110%)	JW2	08/24/23 15:56
QC1205499028 LCSD											
Alkalinity, Total as CaCO3	50.0				50.7	mg/L	0.991	101	(0%-20%)		08/24/23 15:57

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

QC Summary

Workorder: **634441**

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

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 #: 634615

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2482705

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 14
Preparation Batch: 2482704

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

GEL Sample ID#	Client Sample Identification
634615001	BRA-BRGWC-17S
634615002	BRA-BRGWC-35S
634615003	BRA-BRGWC-36S
634615004	BRA-BRGWC-38S
634615005	BRA-PZ-52D
634615006	BRA-PZ-70I
634615007	BRA-APE-FD-05
634615008	BRA-APE-FB-08
634615009	BRA-APE-EB-09
634615010	BRA-APE-EB-10
1205499169	Method Blank (MB)**ICP-MS**
1205499170	Laboratory Control Sample (LCS)
1205499173	634615001(BRA-BRGWC-17SL) Serial Dilution (SD)
1205499171	634615001(BRA-BRGWC-17SS) Matrix Spike (MS)
1205499172	634615001(BRA-BRGWC-17SSD) 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 634615001 (BRA-BRGWC-17S),

634615002 (BRA-BRGWC-35S), 634615003 (BRA-BRGWC-36S), 634615004 (BRA-BRGWC-38S), 634615005 (BRA-PZ-52D), 634615006 (BRA-PZ-70I) and 634615007 (BRA-APE-FD-05) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument.

Analyte	634615						
	001	**002**	**003**	**004**	**005**	**006**	**007**
Boron	1X	20X	10X	10X	1X	10X	20X
Calcium	5X	20X	1X	1X	1X	1X	20X
Manganese	1X	1X	1X	10X	1X	1X	1X
Sodium	5X	1X	1X	1X	10X	1X	1X

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**
Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 40
Analytical Batch: 2482668

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 40
Preparation Batch: 2482660

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

GEL Sample ID#	Client Sample Identification
634615001	BRA-BRGWC-17S
634615002	BRA-BRGWC-35S
634615003	BRA-BRGWC-36S
634615004	BRA-BRGWC-38S
634615005	BRA-PZ-52D
634615006	BRA-PZ-70I
634615007	BRA-APE-FD-05
634615008	BRA-APE-FB-08
634615009	BRA-APE-EB-09
634615010	BRA-APE-EB-10
1205499095	Method Blank (MB)**CVAA**
1205499096	Laboratory Control Sample (LCS)
1205499099	634513006(NonSDGL) Serial Dilution (SD)
1205499097	634513006(NonSDGD) Sample Duplicate (DUP)
1205499098	634513006(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# 33
Analytical Batch: 2482580

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

GEL Sample ID#	Client Sample Identification
634615001	BRA-BRGWC-17S
634615002	BRA-BRGWC-35S
634615003	BRA-BRGWC-36S
634615004	BRA-BRGWC-38S
634615005	BRA-PZ-52D
634615006	BRA-PZ-70I
634615007	BRA-APE-FD-05
634615008	BRA-APE-FB-08
634615009	BRA-APE-EB-09
634615010	BRA-APE-EB-10
1205499013	Method Blank (MB)
1205499014	Laboratory Control Sample (LCS)
1205499015	634615001(BRA-BRGWC-17S) Sample Duplicate (DUP)
1205499016	634615001(BRA-BRGWC-17S) Post Spike (PS)

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

Data Summary:

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

Quality Control (QC) Information

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

Analyte	Sample	Value
Chloride	1205499016 (BRA-BRGWC-17SPS)	111* (90%-110%)

Technical Information

Sample Dilutions
The following samples 1205499015 (BRA-BRGWC-17SDUP), 1205499016 (BRA-BRGWC-17SPS), 634615001 (BRA-BRGWC-17S), 634615002 (BRA-BRGWC-35S), 634615003 (BRA-BRGWC-36S), 634615004 (BRA-BRGWC-38S), 634615005 (BRA-PZ-52D), 634615006 (BRA-PZ-70I) and 634615007 (BRA-APE-FD-05) were diluted because target analyte concentrations exceeded the calibration range. The following samples 634615003 (BRA-BRGWC-36S) and 634615006 (BRA-PZ-70I) in this sample group were diluted due to matrix interference. 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	634615						
	001	**002**	**003**	**004**	**005**	**006**	**007**
Fluoride	1X	1X	2X	1X	1X	2X	1X
Sulfate	20X	40X	20X	40X	10X	10X	25X

Miscellaneous Information

Manual Integrations
Samples 1205499015 (BRA-BRGWC-17SDUP), 634615003 (BRA-BRGWC-36S) and 634615006 (BRA-PZ-70I) were 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: 2483702

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

GEL Sample ID#	Client Sample Identification
634615001	BRA-BRGWC-17S
1205501046	Method Blank (MB)
1205501047	Laboratory Control Sample (LCS)
1205501048	634610003(NonSDG) Sample Duplicate (DUP)

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

Data Summary:

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

Quality Control (QC) Information

Duplicate Relative Percent Difference (RPD) Statement
The Relative Percent Difference (RPD) between the sample and duplicate falls outside of the established acceptance limits because of the heterogeneous matrix of the sample:

Analyte	Sample	Value
Total Dissolved Solids	1205501048 (Non SDG 634610003DUP)	15* (0%-5%)

Miscellaneous Information

Additional Comments
A TDS meter was used to check the sample for interference prior to analysis. 1205501048 (Non SDG 634610003DUP).

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 21
Analytical Batch: 2484233

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

GEL Sample ID#	Client Sample Identification
634615002	BRA-BRGWC-35S
634615003	BRA-BRGWC-36S
634615004	BRA-BRGWC-38S
634615005	BRA-PZ-52D
634615006	BRA-PZ-70I
634615007	BRA-APE-FD-05
1205502069	Method Blank (MB)
1205502070	Laboratory Control Sample (LCS)
1205502071	634810010(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: 2484234

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

GEL Sample ID#	Client Sample Identification
634615008	BRA-APE-FB-08
634615009	BRA-APE-EB-09
634615010	BRA-APE-EB-10
1205502073	Method Blank (MB)
1205502074	Laboratory Control Sample (LCS)
1205502076	634643001(BRA-PZ-79) 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 sample for interference prior to analysis. 1205502076 (BRA-PZ-79DUP).

Product: **Sulfide, Total**
Analytical Method: SM 4500-S (2-) D
Analytical Procedure: GL-GC-E-052 REV# 13
Analytical Batch: 2482961

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

GEL Sample ID#	Client Sample Identification
634615001	BRA-BRGWC-17S
634615005	BRA-PZ-52D
634615006	BRA-PZ-70I
634615009	BRA-APE-EB-09
634615010	BRA-APE-EB-10
1205499655	Method Blank (MB)
1205499656	Laboratory Control Sample (LCS)
1205499657	634513005(NonSDG) Post Spike (PS)
1205499658	634513005(NonSDG) Post Spike Duplicate (PSD)

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: **Sulfide, Total**
Analytical Method: SM 4500-S (2-) D
Analytical Procedure: GL-GC-E-052 REV# 13
Analytical Batch: 2483779

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

GEL Sample ID#	Client Sample Identification
634615002	BRA-BRGWC-35S
634615003	BRA-BRGWC-36S
634615004	BRA-BRGWC-38S
634615007	BRA-APE-FD-05
634615008	BRA-APE-FB-08
1205501208	Method Blank (MB)
1205501209	Laboratory Control Sample (LCS)
1205501210	634615002(BRA-BRGWC-35S) Post Spike (PS)
1205501211	634615002(BRA-BRGWC-35S) Post Spike Duplicate (PSD)
1205501212	634650011(BRA-BRGWC-50) Post Spike (PS)
1205501213	634650011(BRA-BRGWC-50) Post Spike Duplicate (PSD)

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

Data Summary:

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

applicable, with the following exceptions.

Quality Control (QC) Information

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

Analyte	Sample	Value
Total Sulfide	1205501210 (BRA-BRGWC-35SPS)	29.4* (75%-125%)
	1205501211 (BRA-BRGWC-35SPSD)	28.3* (75%-125%)
	1205501212 (BRA-BRGWC-50PS)	27.7* (75%-125%)
	1205501213 (BRA-BRGWC-50PSD)	27.2* (75%-125%)

Product: **Alkalinity**
Analytical Method: SM 2320B
Analytical Procedure: GL-GC-E-033 REV# 15
Analytical Batch: 2484392

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

GEL Sample ID#	Client Sample Identification
634615001	BRA-BRGWC-17S
634615002	BRA-BRGWC-35S
634615003	BRA-BRGWC-36S
634615004	BRA-BRGWC-38S
634615005	BRA-PZ-52D
634615006	BRA-PZ-70I
634615007	BRA-APE-FD-05
634615008	BRA-APE-FB-08
634615009	BRA-APE-EB-09
634615010	BRA-APE-EB-10
1205502339	Laboratory Control Sample (LCS)
1205502340	634448001(BRA-PZ-79) Sample Duplicate (DUP)
1205502341	634448001(BRA-PZ-79) Matrix Spike (MS)
1205502342	634643001(BRA-PZ-79) Sample Duplicate (DUP)
1205502343	634643001(BRA-PZ-79) Matrix Spike (MS)
1205502344	Laboratory Control Sample (LCS)

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

Data Summary:

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

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.

Technical Case Narrative
Georgia Power Company
SDG #: 634441

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2482703

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 14
Preparation Batch: 2482702

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

GEL Sample ID#	Client Sample Identification
634441001	BRA-BRGWC-33S
634441002	BRA-APE-FD-04
634441003	BRA-BRGWC-34S
634441004	BRA-APE-FB-07
634441005	BRA-BRGWC-37S
634441006	BRA-PZ-13S
1205499164	Method Blank (MB)**ICP-MS**
1205499165	Laboratory Control Sample (LCS)
1205499168	634441003(BRA-BRGWC-34SL) Serial Dilution (SD)
1205499166	634441003(BRA-BRGWC-34SS) Matrix Spike (MS)
1205499167	634441003(BRA-BRGWC-34SSD) 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 634441001 (BRA-BRGWC-33S), 634441002 (BRA-APE-FD-04) and 634441003 (BRA-BRGWC-34S) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument.

Analyte	634441		
	001	002	003
Boron	10X	10X	20X
Calcium	10X	10X	20X
Manganese	10X	10X	20X

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**
Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 40
Analytical Batch: 2482624

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 40
Preparation Batch: 2482623

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

GEL Sample ID#	Client Sample Identification
634441001	BRA-BRGWC-33S
634441002	BRA-APE-FD-04
634441003	BRA-BRGWC-34S
634441004	BRA-APE-FB-07
634441005	BRA-BRGWC-37S
634441006	BRA-PZ-13S
1205499044	Method Blank (MB)**CVAA**
1205499045	Laboratory Control Sample (LCS)
1205499048	634447002(BRA-BRGWA-5SL) Serial Dilution (SD)
1205499046	634447002(BRA-BRGWA-5SD) Sample Duplicate (DUP)
1205499047	634447002(BRA-BRGWA-5SS) Matrix Spike (MS)

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

Data Summary:

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

General Chemistry

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 32
Analytical Batch: 2481584

Product: **Ion Chromatography**
Analytical Method: EPA 300.0

Analytical Procedure: GL-GC-E-086 REV# 33
Analytical Batch: 2481584

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

GEL Sample ID#	Client Sample Identification
634441001	BRA-BRGWC-33S
634441002	BRA-APE-FD-04
634441003	BRA-BRGWC-34S
634441004	BRA-APE-FB-07
634441005	BRA-BRGWC-37S
634441006	BRA-PZ-13S
1205497352	Method Blank (MB)
1205497353	Laboratory Control Sample (LCS)
1205497354	634441001(BRA-BRGWC-33S) Sample Duplicate (DUP)
1205497355	634441001(BRA-BRGWC-33S) Post Spike (PS)

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

Data Summary:

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

Quality Control (QC) Information

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

Analyte	Sample	Value
Chloride	1205497355 (BRA-BRGWC-33SPS)	88.9* (90%-110%)
Nitrate-N	1205497355 (BRA-BRGWC-33SPS)	88.7* (90%-110%)

Technical Information

Sample Dilutions
The following samples 1205497354 (BRA-BRGWC-33SDUP), 1205497355 (BRA-BRGWC-33SPS), 634441001 (BRA-BRGWC-33S), 634441002 (BRA-APE-FD-04), 634441003 (BRA-BRGWC-34S) and 634441006 (BRA-PZ-13S) were diluted because target analyte concentrations exceeded the calibration range. The following sample 634441003 (BRA-BRGWC-34S) in this sample group was diluted due to matrix interference. 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	634441			
	001	002	003	006
Chloride	50X	50X	2X	1X
Fluoride	1X	1X	2X	1X
Sulfate	50X	50X	25X	5X

Miscellaneous Information

Manual Integrations
Samples 634441002 (BRA-APE-FD-04), 634441005 (BRA-BRGWC-37S) and 634441006 (BRA-PZ-13S) were 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: 2482652

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

GEL Sample ID#	Client Sample Identification
634441001	BRA-BRGWC-33S
634441002	BRA-APE-FD-04
634441003	BRA-BRGWC-34S
634441004	BRA-APE-FB-07
634441005	BRA-BRGWC-37S
1205499067	Method Blank (MB)
1205499068	Laboratory Control Sample (LCS)
1205499070	634323005(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: 2482655

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

GEL Sample ID#	Client Sample Identification
634441006	BRA-PZ-13S
1205499075	Method Blank (MB)
1205499076	Laboratory Control Sample (LCS)
1205499078	634530001(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: **Sulfide, Total**
Analytical Method: SM 4500-S (2-) D
Analytical Procedure: GL-GC-E-052 REV# 13
Analytical Batch: 2481696

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

GEL Sample ID#	Client Sample Identification
634441001	BRA-BRGWC-33S
634441002	BRA-APE-FD-04
634441003	BRA-BRGWC-34S
634441004	BRA-APE-FB-07
634441005	BRA-BRGWC-37S
634441006	BRA-PZ-13S
1205497559	Method Blank (MB)
1205497560	Laboratory Control Sample (LCS)
1205497561	634441001(BRA-BRGWC-33S) Post Spike (PS)
1205497562	634441001(BRA-BRGWC-33S) Post Spike Duplicate (PSD)
1205497563	634447001(BRA-BRGWA-2S) Post Spike (PS)
1205497564	634447001(BRA-BRGWA-2S) Post Spike Duplicate (PSD)

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

Data Summary:

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

Product: **Alkalinity**
Analytical Method: SM 2320B
Analytical Procedure: GL-GC-E-033 REV# 15
Analytical Batch: 2482476

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

GEL Sample ID#	Client Sample Identification
634441001	BRA-BRGWC-33S
634441002	BRA-APE-FD-04
634441003	BRA-BRGWC-34S
634441004	BRA-APE-FB-07
634441005	BRA-BRGWC-37S
634441006	BRA-PZ-13S
1205498938	Laboratory Control Sample (LCS)
1205499028	Laboratory Control Sample Duplicate (LCSD)

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

Data Summary:

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

Quality Control (QC) Information

Laboratory Control Sample Duplicate (LCSD)
An LCSD was used in place of matrix QC due to limited sample volume. 634441001 (BRA-BRGWC-33S), 634441002 (BRA-APE-FD-04), 634441003 (BRA-BRGWC-34S), 634441004 (BRA-APE-FB-07), 634441005 (BRA-BRGWC-37S) and 634441006 (BRA-PZ-13S).

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.

634648

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Project #:
GEL Quote #:
COC Number (1):
PO Number:

GEL Laboratories LLC 634615

gel.com
Chemistry | Radiochemistry | Radiobioassay | 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

Client Name: GA Power | Phone #: 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - II | Fax #:
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30318
Collected By: T. Goode, D. Snowden, ACC | Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested (2) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop durations)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (3)	Field Filtered (4)	Sample Matrix (5)	Should this sample be considered: Radioactive (If yes, please specify isotope(s) below)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS, NO3 EPA 300, SM 2340C	TAL Cat. & Boat Ash SM5310B	Metals * EPA 6020, 6010, 7470	Sulfide EPA 9034/9030, 9030	Sulfide SM 4500	Preservative Type (6)
BRA- BRGWC-175	08/23/23	1405	G	N	WG	N	N	5	✓	✓	✓	✓	✓	
BRA- BRGWC-355	08/23/23	1201	G	N	WG	N	N	5	✓	✓	✓	✓	✓	
BRA- BRGWC-365	08/23/23	1556	G	N	WG	N	N	5	✓	✓	✓	✓	✓	
BRA- BRGWC-385	08/23/23	1212	G	N	WG	N	N	5	✓	✓	✓	✓	✓	
BRA- PZ-52D	08/23/23	1346	G	N	WG	N	N	5	✓	✓	✓		✓	
BRA- PZ-70I	08/23/23	1612	G	N	WG	N	N	5	✓	✓	✓	✓	✓	
BRA- APE-FD-05	08/23/23	—	G	N	WG	N	N	5	✓	✓	✓	✓	✓	
BRA- APE-FD-06	08/23/23	1630	G	N	WQ	N	N	5	✓	✓	✓	✓	✓	
BRA- APE-EB-09	08/23/23	1645	G	N	WQ	N	N	5	✓	✓	✓	✓	✓	
BRA- APE-EB-10	08/23/23	1315	G	N	WQ	N	N	5	✓	✓	✓	✓	✓	

Comments
Note: extra sample is required for sample specific QC
Task_Code: BRA-CCR-ASSMT-202352

Chain of Custody Signatures

	Relinquished by (Signed)	Date	Time	Received by (Signed)	Date	Time
1	Tyler Bell	8-24-23	0740		8/24/23	840
2		8/24/23	1243	2	8/24/23	1243
3				3		

TAT Requested: Normal: x Rush: ____ Specify: ____ (Subject to Surcharge)
Fax Results: [ ] Yes [x] No
Select Deliverable: [ ] C of A [ ] QC Summary [ ] Level 1 [x] Level 2 [ ] Level 3 [ ] Level 4
Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg
For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No Cooler Temp: °C

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

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

1.) Chain of Custody Number = Client Determined

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

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

4.) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7471A) and number of containers provided for each (i.e. 8260B - 2, 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:

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.)

634448 634643
634652 634650
634649
634647 634648 634615

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC

SDG/AR/COC/Work Order:

Received By: EG

Date Received: 8-24-23

Carrier and Tracking Number: FedEx Ground / FedEx Express / FedEx Overnight / UPS / Field Services / Courier / Other

Cooler 1 - 3°
Cooler 2 - 3°
Cooler 3 - 3°
Cooler 4 - 2°
Cooler 5 - 3°

Suspected Hazard Information	Yes	No	*If Yes or Unknown, complete the Radiation Safety Group Receipt Survey Form.
A) Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: Did the client designate the samples are to be received as radioactive?
B) Did the client designate the samples are to be received as radioactive?		✓	
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): cpm / dpm Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate or indicate the samples are hazardous?		✓	
E) Did the RSO identify possible hazards?		✓	If Yes or if yes, select Hazards below: PCBs / Flammables / Foreign Soil / RCRA / Asbestos / Beryllium / Other

Sample Receipt Criteria		Yes	No	NA	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken / Damaged container / Leaking container / Other (describe)
2	COC/A of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC / COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)*	✓			Preservation Method: Wet Ice / Ice Packs / Dry Ice / None / Other *If not temperature documented in Chiller. TEMP: See coolers above for temps
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR#25 Secondary Temperature Device Serial # (IR Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken / Damaged container / Leaking container / Other (describe)
6	Samples requiring chemical preservation at proper pH?			✓	Sample ID's and Containers Affected: See continuation form
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for soil(s)? Yes___ No___ NA___ (If yes, refer to VOA Receipt) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___ (If answered, refer to) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No date or time on container / No time on container / COC or label illegible / Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: See container count on COC / Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC has been properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished / Other (describe)

Comments (Use Continuation Form if needed):

cooler 6-1
cooler 7-2
cooler 8-4
cooler 9-1

PM (or PMA) review: Initials: AT Date: 8/24/23 Page 1 of 2

GL-CHL-SR-001 Rev 7

GEL | Laboratories LLC **SAMPLE RECEIPT & REVIEW CONTINUATION FORM**

Client: GPCL Received By: EG Date Received: 8/24/23 COC/GAR/COC/Work Order: _____

BRA-P2-511
BRA-P2-591
BRA-BRGWC-353
BRA-BRGWC-365
BRA-APE-FB-07
BRA-P2-601
BRA-P2-581
BRA-P2-631
BRA-BRGWC-385
BRA-P2-641
BRA-P2-680
BRA-APBUD-FD-02
BRA-P2-500
BRA-BRGWC-50
BRA-APE-FD-05

L7 containers for sodium hydroxide/zinc acetate did not hold preservation. Were preserved & placed in 24 hr hold preservation

PM (or PMA) review: Initials AT Date 8/28/23 Page 2 of 2

634441 634443

Page: 1 of 1
Project #:
GEL Quote #:
COC Number (1):
PO Number:

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

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

Client Name: GA Power
Phone #: 404-506-7116
Project/Site Name: Plant Bowen Ash Ponds - E
Fax #:
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: T. Cobb/D. Acc (Initials)
Send Results To: SCS & Geosyntec Contacts

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

Sample ID (* Use composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Hazardous (If yes, please assign hazards code)	Should this sample be considered: Known or possible Hazards	Total number of containers	CLP, 9045, TDS, NO3 EPA 300, SM 2540C	Total Carb, Bicarb Alk SM 2320B	NI Metals * EPA 6020, 6010, 7470	NI Radium 226 & 228 SW 846 9315, 9320	Sulfide SM 4500						<-- Preservative Type (6)
BRA- GWC-33S	08/22/23	1210	G	N	WG	N	N	8	✓	✓	✓	✓	✓						
BRA- APE-FD-04	08/22/23	—	G	N	WG	N	N	8	✓	✓	✓	✓	✓						
BRA- GWC-34S	08/22/23	1435	G	N	WG	N	N	8	✓	✓	✓	✓	✓						
BRA- APE-FB-07	08/22/23	1510	G	N	WQ	N	N	8	✓	✓	✓	✓	✓						
BRA- BRGWC-37S	08/22/23	1651	G	N	WG	N	N	8	✓	✓	✓	✓	✓						
BRA- PZ-13S	08/22/23	1647	G	N	WG	N	N	8	✓	✓	✓	✓	✓						
BRA-																			
BRA-																			
BRA-																			
BRA-																			

Comments
Note: extra sample is required for sample specific QC
Task_Code: BRA-CCR-ASSMT-202352

Chain of Custody Signatures

Relinquished by (Signed)	Date	Time	Received by (signed)	Date	Time
1	8-23-23	0825	1	8/23/23	0825
2	8/23/23	0832	2	8/23/23	832
3	8/23/23	1100	3	8/23/23	1200

TAT Requested: Normal: X Rush: ____ Specify: ____ (Subject to Surcharge)
Fax Results: [ ] Yes [x] No
Select Deliverable: [ ] C of A [ ] QC Summary [ ] Level 1 [x] Level 2 [ ] Level 3 [ ] Level 4
Additional Remarks: *Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mn,Se,Tl,Fe,Mg,Mo,K,Na,Hg
For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No Cooler Temp: ____ °C
> For sample shipping and delivery details, see Sample Receipt & Review form (SRR).
Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other

1.) Chain of Custody Number = Client Determined

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

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

4.) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix

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

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

7.) KNOWN OR POSSIBLE HAZARDS

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

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

TSCA Regulated
PCB = Polychlorinated biphenyls

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

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

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

634644 634643
634448 634447
634443 634450
634441 634444
634446

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: CCP	SDG/ARCOC/Work Order: ET
Received By: MVH	Date Received: 8/23/2023
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other
	Cooler 2-3°C Cooler 4-1°C Cooler 6-1°C Cooler 1-2°C Cooler 3-1°C Cooler 5-2°C

Suspected Hazard Information	Yes	No	If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation
A) Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Complete? 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): 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 Yes or E is yes, select Hazards below. PCBs Flammable Foreign Soil RCRA Asbestos Beryllium Other:

Sample Receipt Criteria		Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)*	✓			Preservation Method: Wet Ice Ice Packs Dry Ice None Other: *all temperatures are recorded in Celsius TEMP:
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?			✓	BRA-D2-G11, BRA-BRGWA-S1, BRA-BRGWA-23S,
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encore or Soil Kits present for soils? Yes ___ No ___ NA ___ (If yes, refer to VOA Pairing) Are liquid VOA vials free of headspace? Yes ___ No ___ NA ___ Sample IDs and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No containers noted on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

BRA-D2-13S, BRA-BRGWA-2S, BRA-BRGWA-6S, BRA-BRGWC-32S, BRA-BRGWA-2I, BRA-BRGWC-37S, BRA-BRGWC-34S, BRA-BRGWC-30I Sulfide samples didn't hold proper preservation.

PM (or PMA) review: Initials AT Date 8/25/23 Page 1 of 1

GL-CHL-SR-001 Rev 7

Amanda Turner

From: Amanda Turner
Sent: Tuesday, August 29, 2023 10:04 AM
To: JABRAHAM@SOUTHERNCO.COM; KNJURINK@SOUTHERNCO.COM; MJSMILLE@SOUTHERNCO.COM; NSMUSKUS@SOUTHERNCO.COM; lbmidkif@southernco.com
Cc: Team Trent
Subject: Preservation issues (634652, 634650, 634648, 634615)
Attachments: 634648 634615.pdf; 634652 634650.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

Good morning!

I wanted to notify you of the following preservation issues. The samples containers for sodium hydroxide/zinc acetate listed below did not hold preservation. The samples were preserved upon receipt and placed on a 24-hour preservation hold.

"BRA-PZ-51I" "BRA-PZ-60I" "BRA-PZ-58I" "BRA-PZ-63I" "BRA-PZ-64I" "BRA-PZ-68D" "BRA-APBCD-FD-02" "BRA-PZ-50D" "BRA-BRGWC-50" for work orders 634652 and 634650

"BRA-PZ-59I" for work order 634650

"BRA-BRGWC-35S" "BRA-BRGWC-36S" BRA-APE-FB-08" "BRA-BRGWC-38S" "BRA-APE-FD-05" for work orders 634648 and 634615

See attachments for reference.

Thank you!
Amanda

Amanda Turner
Project Manager Assistant
GEL Laboratories LLC 1981
2040 Savage Road, Charleston, SC 29407
Office Main: 843.556.8171 | Fax: 843.766.1178
E-Mail: amanda.turner@gel.com | Website: www.gel.com
Analytical Testing

Amanda Turner

From: Abraham, Joju <JABRAHAM@SOUTHERNCO.COM>
Sent: Friday, August 25, 2023 8:52 AM
To: Amanda Turner; Jurinko, Kristen Nichole; Smilley, Michael Jay; Gangi, Noelia S.; Midkiff, Laura B.
Cc: Team Trent
Subject: RE: Samples did not hold preservation (634441, 634443, 634444, 634446, 634447, 634450)

[EXTERNAL EMAIL] DO NOT CLICK links or attachments unless you recognize the sender and know the content is safe.

Re-preserve and analyze for sulfide in all samples.

JA

From: Amanda Turner <Amanda.Turner@gel.com>
Sent: Friday, August 25, 2023 8:29 AM
To: Abraham, Joju <JABRAHAM@SOUTHERNCO.COM>; Jurinko, Kristen Nichole <KNJURINK@SOUTHERNCO.COM>; Smilley, Michael Jay <MJSMILLE@SOUTHERNCO.COM>; Gangi, Noelia S. <NSMUSKUS@SOUTHERNCO.COM>; Midkiff, Laura B. <lbmidkif@southernco.com>
Cc: Team Trent <Team.Trent@gel.com>
Subject: Samples did not hold preservation (634441, 634443, 634444, 634446, 634447, 634450)

Good morning,

I wanted to notify you of the following preservation issues. These samples did not hold proper sulfide preservation. Please advise.

"BRA-GWC-34S" "BRA-BRGWC-37S" "BRA-PZ-13S" on work orders 634441 and 634443
“BRA-BRGWC-32S” “BRA-BRGWC-30I” "BRA-PZ-61I" "BRA-BRGWA-23S" on work orders 634444 and 634446
"BRA-BRGWA-2S" "BRA-BRGWA-6S" "BRA-BRGWA-2I" "BRA-BRAW-5I" on work orders 634447 and 634450

See attachments for reference.

Thank you!
Amanda

Amanda Turner
Project Manager Assistant
GEL Laboratories LLC EST. 1961
2040 Savage Road, Charleston, SC 29407
Office Main: 843.556.8171 | Fax: 843.766.1178
E-Mail: amanda.turner@gel.com | Website: www.gel.com [gel.com]
Analytical Testing
[gellaboratories.com] [linkedin.com]

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List of current GEL Certifications as of 07 September 2023

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122023-4
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2022-160
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-22-20
Utah NELAP	SC000122022-37
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC

a member of The GEL Group INC

September 06, 2023

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

Re: Branch CCR Groundwater Compliance Upgradient
Work Order: 634447

Dear Joju Abraham:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on August 23, 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. Samples "BRA-BRGWA-2S" "BRA-BRGWA-6S" "BRA-BRAW-5I" and "BRA-BRGWA-2I" did not hold sulfide preservation. *634447001(BRA-BRGWA-2S), 634447003(BRA-BRGWA-5I), 634447004(BRA-BRGWA-6S), 634447005(BRA-BRGWA-2I)*. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Recieved
634447001	BRA-BRGWA-2S	Ground Water	22/08/23 10:06	23/08/23 13:00
634447002	BRA-BRGWA-5S	Ground Water	22/08/23 10:05	23/08/23 13:00
634447003	BRA-BRGWA-5I	Ground Water	22/08/23 10:10	23/08/23 13:00
634447004	BRA-BRGWA-6S	Ground Water	22/08/23 10:15	23/08/23 13:00
634447005	BRA-BRGWA-2I	Ground Water	22/08/23 10:12	23/08/23 13:00

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

Prep Methods and Prep Dates

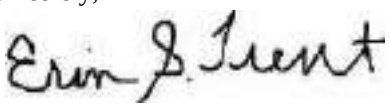
Method	Run Date ID
SW846 3005A	25-AUG-2023
SW846 7470A Prep	24-AUG-2023

Analysis Methods and Analysis Dates

Method	Run Date ID
EPA 300.0	23-AUG-2023
SM 2320B	29-AUG-2023
SM 2540C	25-AUG-2023
SM 2540C	28-AUG-2023
SM 4500-S (2-) D	24-AUG-2023
SW846 3005A/6020B	01-SEP-2023
SW846 3005A/6020B	31-AUG-2023
SW846 7470A	25-AUG-2023

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4504.

Sincerely,



Erin Trent
Project Manager

Purchase Order: GPC82177-0006
Enclosures

GEL LABORATORIES LLC
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Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 634447 GEL Work Order: 634447

The Qualifiers in this report are defined as follows:

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

** Analyte is a Tracer compound

** Analyte is a surrogate compound

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

J Value is estimated

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

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

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

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

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

Reviewed by Erin B. Trent

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

Certificate of Analysis

Report Date: September 6, 2023

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceUpgradient

Client Sample ID:	BRA-BRGWA-2S	Project:	GPCC00101
Sample ID:	634447001	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	22-AUG-23 10:06		
Receive Date:	23-AUG-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		2.14	0.0670	0.200	mg/L		1	HXC1	08/23/23	1637	2481608	1
Fluoride		0.229	0.0330	0.100	mg/L		1					
Nitrate-N		0.218	0.0330	0.100	mg/L		1					
Sulfate		0.526	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/25/23	1221	2482624	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	08/31/23	2333	2482703	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0135	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron	J	0.00738	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		5.02	0.0800	0.200	mg/L	1.00	1					
Chromium	J	0.00921	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000707	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0513	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		4.66	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		0.415	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		3.09	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Manganese		0.0283	0.00100	0.00500	mg/L	1.00	1	PRB	09/01/23	0936	2482703	4
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		36.0	2.38	10.0	mg/L			CH6	08/25/23	1010	2482655	5
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/24/23	1745	2481696	6

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Certificate of Analysis

Report Date: September 6, 2023

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

Client Sample ID:	BRA-BRGWA-2S	Project:	GPCC00101
Sample ID:	634447001	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		37.1	0.725	2.00	mg/L			JW2	08/29/23	1140	2484392	7
Bicarbonate alkalinity (CaCO3)		37.1	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482702
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/24/23	1200	2482623

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	SM 2540C	
6	SM 4500-S (2-) D	
7	SM 2320B	

Notes:

Column headers are defined as follows:

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

GEL LABORATORIES LLC
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Certificate of Analysis

Report Date: September 6, 2023

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceUpgradient

Client Sample ID: BRA-BRGWA-5S
Sample ID: 634447002
Matrix: WG
Collect Date: 22-AUG-23 10:05
Receive Date: 23-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		3.37	0.0670	0.200	mg/L		1	HXC1	08/23/23	1707	2481608	1
Fluoride		0.277	0.0330	0.100	mg/L		1					
Nitrate-N		0.203	0.0330	0.100	mg/L		1					
Sulfate		0.540	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/25/23	1222	2482624	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	08/31/23	2337	2482703	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0352	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron	J	0.00764	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		14.9	0.0800	0.200	mg/L	1.00	1					
Chromium	J	0.00472	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000327	0.000300	0.00100	mg/L	1.00	1					
Iron		0.263	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		6.25	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		0.435	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		3.48	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Manganese		0.0105	0.00100	0.00500	mg/L	1.00	1	PRB	09/01/23	0939	2482703	4
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		73.0	2.38	10.0	mg/L			CH6	08/25/23	1010	2482655	5
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/24/23	1747	2481696	6

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Certificate of Analysis

Report Date: September 6, 2023

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

Client Sample ID:	BRA-BRGWA-5S	Project:	GPCC00101
Sample ID:	634447002	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		68.4	0.725	2.00	mg/L			JW2	08/29/23	1142	2484392	7
Bicarbonate alkalinity (CaCO3)		68.4	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482702
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/24/23	1200	2482623

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	SM 2540C	
6	SM 4500-S (2-) D	
7	SM 2320B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: September 6, 2023

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceUpgradient

Client Sample ID:	BRA-BRGWA-5I	Project:	GPCC00101
Sample ID:	634447003	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	22-AUG-23 10:10		
Receive Date:	23-AUG-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		3.53	0.0670	0.200	mg/L		1	HXC1	08/23/23	1738	2481608	1
Fluoride		0.289	0.0330	0.100	mg/L		1					
Nitrate-N		0.266	0.0330	0.100	mg/L		1					
Sulfate		1.83	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/25/23	1231	2482624	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	08/31/23	2340	2482703	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0245	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron	J	0.00730	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		14.3	0.0800	0.200	mg/L	1.00	1					
Chromium	J	0.00701	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000474	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0953	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		9.41	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	J	0.000953	0.000200	0.00100	mg/L	1.00	1					
Potassium		0.933	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		4.69	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Manganese	J	0.00104	0.00100	0.00500	mg/L	1.00	1	PRB	09/01/23	0941	2482703	4
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		80.0	2.38	10.0	mg/L			CH6	08/28/23	1403	2482658	5
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/24/23	1748	2481696	6

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

Certificate of Analysis

Report Date: September 6, 2023

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

Client Sample ID:	BRA-BRGWA-5I	Project:	GPCC00101
Sample ID:	634447003	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		77.2	0.725	2.00	mg/L			JW2	08/29/23	1144	2484392	7
Bicarbonate alkalinity (CaCO3)		77.2	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482702
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/24/23	1200	2482623

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	SM 2540C	
6	SM 4500-S (2-) D	
7	SM 2320B	

Notes:

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: September 6, 2023

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceUpgradient

Client Sample ID: BRA-BRGWA-6S
Sample ID: 634447004
Matrix: WG
Collect Date: 22-AUG-23 10:15
Receive Date: 23-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		2.34	0.0670	0.200	mg/L		1	HXC1	08/23/23	1809	2481608	1
Fluoride	J	0.0787	0.0330	0.100	mg/L		1					
Nitrate-N		0.646	0.0330	0.100	mg/L		1					
Sulfate		0.467	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/25/23	1236	2482624	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Manganese	J	0.00120	0.00100	0.00500	mg/L	1.00	1	PRB	09/01/23	0943	2482703	3
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	08/31/23	2344	2482703	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0143	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron	J	0.00611	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		3.79	0.0800	0.200	mg/L	1.00	1					
Chromium		0.0132	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		3.48	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		0.607	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		2.11	0.0800	0.250	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		30.0	2.38	10.0	mg/L			CH6	08/28/23	1403	2482658	5
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/24/23	1748	2481696	6

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

Certificate of Analysis

Report Date: September 6, 2023

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

Client Sample ID:	BRA-BRGWA-6S	Project:	GPCC00101
Sample ID:	634447004	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		36.8	0.725	2.00	mg/L			JW2	08/29/23	1147	2484392	7
Bicarbonate alkalinity (CaCO3)		36.8	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482702
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/24/23	1200	2482623

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	SM 2540C	
6	SM 4500-S (2-) D	
7	SM 2320B	

Notes:

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: September 6, 2023

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

Client Sample ID:	BRA-BRGWA-2I	Project:	GPCC00101
Sample ID:	634447005	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	22-AUG-23 10:12		
Receive Date:	23-AUG-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		1.90	0.0670	0.200	mg/L		1	HXC1	08/23/23	1840	2481608	1
Fluoride		0.267	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate		6.85	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/25/23	1237	2482624	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	08/31/23	2348	2482703	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.00680	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron	J	0.00649	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		12.6	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000707	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0904	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0209	0.00300	0.0100	mg/L	1.00	1					
Magnesium		7.27	0.0100	0.0300	mg/L	1.00	1					
Molybdenum		0.00169	0.000200	0.00100	mg/L	1.00	1					
Potassium		5.25	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		5.26	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Manganese		0.0145	0.00100	0.00500	mg/L	1.00	1	PRB	09/01/23	0945	2482703	4
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		81.0	2.38	10.0	mg/L			CH6	08/28/23	1403	2482658	5
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/24/23	1749	2481696	6

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

Certificate of Analysis

Report Date: September 6, 2023

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

Client Sample ID:	BRA-BRGWA-2I	Project:	GPCC00101
Sample ID:	634447005	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		71.7	0.725	2.00	mg/L			JW2	08/29/23	1149	2484392	7
Bicarbonate alkalinity (CaCO3)		71.7	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482702
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/24/23	1200	2482623

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	SM 2540C	
6	SM 4500-S (2-) D	
7	SM 2320B	

Notes:

Column headers are defined as follows:

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

QC Summary

Report Date: September 6, 2023

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

Contact: **Joju Abraham**

Workorder: **634447**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography										
Batch 2481608										
QC1205497371 634145003 DUP										
Chloride		78.8		79.7	mg/L	1.1		(0%-20%)	HXC1	08/24/23 15:05
Fluoride		0.719		0.719	mg/L	0.0417		(0%-20%)		08/23/23 20:43
Nitrate-N		10.9		11.0	mg/L	0.894 ^		(+/-2.50)		08/24/23 15:05
Sulfate		37.6		37.5	mg/L	0.306 ^		(+/-10.0)		
QC1205497369 LCS										
Chloride	5.00			4.78	mg/L		95.6	(90%-110%)		08/23/23 23:18
Fluoride	2.50			2.46	mg/L		98.3	(90%-110%)		
Nitrate-N	2.50			2.36	mg/L		94.3	(90%-110%)		
Sulfate	10.0			9.76	mg/L		97.6	(90%-110%)		
QC1205497368 MB										
Chloride			U	ND	mg/L					08/23/23 22:47
Fluoride			U	ND	mg/L					
Nitrate-N			U	ND	mg/L					
Sulfate			U	ND	mg/L					
QC1205497373 634145003 PS										
Chloride	5.00	3.15		8.45	mg/L		106	(90%-110%)		08/24/23 15:36

QC Summary

Workorder: **634447**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography										
Batch 2481608										
Fluoride	2.50	0.719		3.17	mg/L		98	(90%-110%)	HXC1	08/23/23 21:14
Nitrate-N	2.50	0.434		2.85	mg/L		96.5	(90%-110%)		08/24/23 15:36
Sulfate	10.0	1.51		11.3	mg/L		98.4	(90%-110%)		
Metals Analysis - ICPMS										
Batch 2482703										
QC1205499165 LCS										
Antimony	0.0500			0.0492	mg/L		98.4	(80%-120%)	PRB	08/31/23 22:21
Arsenic	0.0500			0.0500	mg/L		99.9	(80%-120%)		
Barium	0.0500			0.0522	mg/L		104	(80%-120%)		
Beryllium	0.0500			0.0527	mg/L		105	(80%-120%)		
Boron	0.100			0.103	mg/L		103	(80%-120%)		
Cadmium	0.0500			0.0502	mg/L		100	(80%-120%)		
Calcium	2.00			1.96	mg/L		98	(80%-120%)		
Chromium	0.0500			0.0515	mg/L		103	(80%-120%)		
Cobalt	0.0500			0.0514	mg/L		103	(80%-120%)		
Iron	2.00			2.02	mg/L		101	(80%-120%)		
Lead	0.0500			0.0518	mg/L		104	(80%-120%)		

QC Summary

Workorder: **634447**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2482703										
Lithium	0.0500			0.0506	mg/L		101	(80%-120%)	PRB	08/31/23 22:21
Magnesium	2.00			1.97	mg/L		98.4	(80%-120%)		
Manganese	0.0500			0.0497	mg/L		99.4	(80%-120%)		09/01/23 08:52
Molybdenum	0.0500			0.0499	mg/L		99.8	(80%-120%)		08/31/23 22:21
Potassium	2.00			1.94	mg/L		97	(80%-120%)		
Selenium	0.0500			0.0493	mg/L		98.7	(80%-120%)		
Sodium	2.00			1.95	mg/L		97.6	(80%-120%)		
Thallium	0.0500			0.0507	mg/L		101	(80%-120%)		
QC1205499164 MB										
Antimony			U	ND	mg/L					08/31/23 22:18
Arsenic			U	ND	mg/L					
Barium			U	ND	mg/L					
Beryllium			U	ND	mg/L					
Boron			U	ND	mg/L					
Cadmium			U	ND	mg/L					
Calcium			U	ND	mg/L					

QC Summary

Workorder: **634447**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2482703											
Chromium				U	ND	mg/L				PRB	08/31/23 22:18
Cobalt				U	ND	mg/L					
Iron				U	ND	mg/L					
Lead				U	ND	mg/L					
Lithium				U	ND	mg/L					
Magnesium				U	ND	mg/L					
Manganese				U	ND	mg/L					09/01/23 08:50
Molybdenum				U	ND	mg/L					08/31/23 22:18
Potassium				U	ND	mg/L					
Selenium				U	ND	mg/L					
Sodium				U	ND	mg/L					
Thallium				U	ND	mg/L					
QC1205499166 634441003 MS											
Antimony	0.0500	U	ND		0.0511	mg/L		102	(75%-125%)		08/31/23 22:36
Arsenic	0.0500	U	ND		0.0528	mg/L		105	(75%-125%)		
Barium	0.0500		0.0268		0.0800	mg/L		106	(75%-125%)		

QC Summary

Workorder: **634447**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2482703											
Beryllium	0.0500	U	ND		0.0531	mg/L		106	(75%-125%)	PRB	08/31/23 22:36
Boron	0.100		1.90		2.08	mg/L		N/A	(75%-125%)		09/01/23 09:00
Cadmium	0.0500	U	ND		0.0511	mg/L		102	(75%-125%)		08/31/23 22:36
Calcium	2.00		83.4		88.8	mg/L		N/A	(75%-125%)		09/01/23 09:00
Chromium	0.0500	U	ND		0.0518	mg/L		103	(75%-125%)		08/31/23 22:36
Cobalt	0.0500		0.00384		0.0554	mg/L		103	(75%-125%)		
Iron	2.00	U	ND		2.06	mg/L		102	(75%-125%)		
Lead	0.0500	U	ND		0.0511	mg/L		102	(75%-125%)		
Lithium	0.0500	U	ND		0.0521	mg/L		102	(75%-125%)		
Magnesium	2.00		18.9		21.3	mg/L		N/A	(75%-125%)		
Manganese	0.0500		3.33		3.48	mg/L		N/A	(75%-125%)		09/01/23 09:00
Molybdenum	0.0500	U	ND		0.0527	mg/L		105	(75%-125%)		08/31/23 22:36
Potassium	2.00		3.52		5.59	mg/L		104	(75%-125%)		
Selenium	0.0500	U	ND		0.0531	mg/L		106	(75%-125%)		
Sodium	2.00		20.7		23.1	mg/L		N/A	(75%-125%)		

QC Summary

Workorder: **634447**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2482703											
Thallium	0.0500	U	ND		0.0503	mg/L		101	(75%-125%)	PRB	08/31/23 22:36
QC1205499167 634441003 MSD											
Antimony	0.0500	U	ND		0.0491	mg/L	4.07	98.1	(0%-20%)		08/31/23 22:39
Arsenic	0.0500	U	ND		0.0508	mg/L	3.79	101	(0%-20%)		
Barium	0.0500		0.0268		0.0757	mg/L	5.49	97.8	(0%-20%)		
Beryllium	0.0500	U	ND		0.0506	mg/L	4.96	101	(0%-20%)		
Boron	0.100		1.90		2.00	mg/L	4.07	N/A	(0%-20%)		09/01/23 09:02
Cadmium	0.0500	U	ND		0.0496	mg/L	2.97	98.7	(0%-20%)		08/31/23 22:39
Calcium	2.00		83.4		84.1	mg/L	5.45	N/A	(0%-20%)		09/01/23 09:02
Chromium	0.0500	U	ND		0.0504	mg/L	2.88	101	(0%-20%)		08/31/23 22:39
Cobalt	0.0500		0.00384		0.0540	mg/L	2.65	100	(0%-20%)		
Iron	2.00	U	ND		2.00	mg/L	2.95	98.6	(0%-20%)		
Lead	0.0500	U	ND		0.0493	mg/L	3.6	98.5	(0%-20%)		
Lithium	0.0500	U	ND		0.0509	mg/L	2.35	99.9	(0%-20%)		
Magnesium	2.00		18.9		20.7	mg/L	2.55	N/A	(0%-20%)		
Manganese	0.0500		3.33		3.35	mg/L	3.62	N/A	(0%-20%)		09/01/23 09:02

QC Summary

Workorder: **634447**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2482703											
Molybdenum	0.0500	U	ND		0.0512	mg/L	2.82	102	(0%-20%)	PRB	08/31/23 22:39
Potassium	2.00		3.52		5.37	mg/L	4.12	92.4	(0%-20%)		
Selenium	0.0500	U	ND		0.0512	mg/L	3.53	102	(0%-20%)		
Sodium	2.00		20.7		22.6	mg/L	2.28	N/A	(0%-20%)		
Thallium	0.0500	U	ND		0.0488	mg/L	3.06	97.5	(0%-20%)		
QC1205499168 634441003 SDILT											
Antimony		U	ND	U	ND	ug/L	N/A		(0%-20%)		08/31/23 22:46
Arsenic		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Barium			26.8		5.04	ug/L	6.03		(0%-20%)		
Beryllium		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Boron			95.1		20.6	ug/L	8.16		(0%-20%)		09/01/23 09:04
Cadmium		U	ND	U	ND	ug/L	N/A		(0%-20%)		08/31/23 22:46
Calcium			4170		869	ug/L	4.2		(0%-20%)		09/01/23 09:04
Chromium		U	ND	U	ND	ug/L	N/A		(0%-20%)		08/31/23 22:46
Cobalt			3.84	J	0.796	ug/L	3.56		(0%-20%)		
Iron		U	ND	U	ND	ug/L	N/A		(0%-20%)		

QC Summary

Workorder: **634447**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2482703										
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)	PRB	08/31/23 22:46
Lithium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Magnesium		18900		3500	ug/L	7.29		(0%-20%)		
Manganese		167		33.7	ug/L	1.09		(0%-20%)		09/01/23 09:04
Molybdenum	U	ND	U	ND	ug/L	N/A		(0%-20%)		08/31/23 22:46
Potassium		3520		680	ug/L	3.4		(0%-20%)		
Selenium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Sodium		20700		3830	ug/L	7.8		(0%-20%)		
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Metals Analysis-Mercury										
Batch 2482624										
QC1205499046 634447002 DUP										
Mercury	U	ND	U	ND	mg/L	N/A			JP2	08/25/23 12:24
QC1205499045 LCS										
Mercury 0.00200				0.00199	mg/L		99.5	(80%-120%)		08/25/23 11:58
QC1205499044 MB										
Mercury			U	ND	mg/L					08/25/23 11:56
QC1205499047 634447002 MS										
Mercury 0.00200	U	ND		0.00199	mg/L		99.5	(75%-125%)		08/25/23 12:26

QC Summary

Workorder: **634447**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis-Mercury											
Batch 2482624											
QC1205499048 634447002 SDILT											
Mercury		U	ND	U	ND	ug/L	N/A		(0%-10%)	JP2	08/25/23 12:27
Solids Analysis											
Batch 2482655											
QC1205499077 634352015 DUP											
Total Dissolved Solids		U	ND	U	ND	mg/L	N/A			CH6	08/25/23 10:10
QC1205499076 LCS											
Total Dissolved Solids	300				301	mg/L		100	(95%-105%)		08/25/23 10:10
QC1205499075 MB											
Total Dissolved Solids				U	ND	mg/L					08/25/23 10:10
Batch 2482658											
QC1205499081 634205010 DUP											
Total Dissolved Solids			400		390	mg/L	2.53		(0%-5%)	CH6	08/28/23 14:03
QC1205499080 LCS											
Total Dissolved Solids	300				301	mg/L		100	(95%-105%)		08/28/23 14:03
QC1205499079 MB											
Total Dissolved Solids				U	ND	mg/L					08/28/23 14:03
Spectrometric Analysis											
Batch 2481696											
QC1205497560 LCS											
Total Sulfide	0.400				0.398	mg/L		99.6	(85%-115%)	JW2	08/24/23 17:36
QC1205497559 MB											
Total Sulfide				U	ND	mg/L					08/24/23 17:36
QC1205497561 634441001 PS											
Total Sulfide	0.400	U	ND		0.363	mg/L		90.8	(75%-125%)		08/24/23 17:37

QC Summary

Workorder: **634447**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Spectrometric Analysis											
Batch 2481696											
QC1205497563 634447001 PS											
Total Sulfide	0.400	U	ND		0.420	mg/L		105	(75%-125%)	JW2	08/24/23 17:46
QC1205497562 634441001 PSD											
Total Sulfide	0.400	U	ND		0.367	mg/L	1.09	91.8	(0%-15%)		08/24/23 17:38
QC1205497564 634447001 PSD											
Total Sulfide	0.400	U	ND		0.412	mg/L	1.92	103	(0%-15%)		08/24/23 17:47
Titration and Ion Analysis											
Batch 2484392											
QC1205502340 634448001 DUP											
Alkalinity, Total as CaCO3			65.8		65.5	mg/L	0.457		(0%-20%)	JW2	08/29/23 11:54
Bicarbonate alkalinity (CaCO3)			65.8		65.5	mg/L	0.457		(0%-20%)		
Carbonate alkalinity (CaCO3)		U	ND	U	ND	mg/L	N/A				
QC1205502342 634643001 DUP											
Alkalinity, Total as CaCO3			80.2		80.4	mg/L	0.249		(0%-20%)		08/29/23 12:16
Bicarbonate alkalinity (CaCO3)			80.2		80.4	mg/L	0.249		(0%-20%)		
Carbonate alkalinity (CaCO3)		U	ND	U	ND	mg/L	N/A				
QC1205502339 LCS											
Alkalinity, Total as CaCO3	50.0				51.8	mg/L		104	(90%-110%)		08/29/23 11:37
QC1205502344 LCS											
Alkalinity, Total as CaCO3	15.0				14.8	mg/L		98.7	(90%-110%)		08/29/23 11:38
QC1205502341 634448001 MS											
Alkalinity, Total as CaCO3	50.0		65.8		118	mg/L		104	(80%-120%)		08/29/23 11:54

QC Summary

Workorder: **634447**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Titration and Ion Analysis											
Batch 2484392											
QC1205502343 634643001 MS											
Alkalinity, Total as CaCO3	50.0	80.2		132	mg/L		103	(80%-120%)	JW2	08/29/23	12:17

Notes:

The Qualifiers in this report are defined as follows:

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

QC Summary

Workorder: **634447**

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

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

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

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2482703

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 14
Preparation Batch: 2482702

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

GEL Sample ID#	Client Sample Identification
634447001	BRA-BRGWA-2S
634447002	BRA-BRGWA-5S
634447003	BRA-BRGWA-5I
634447004	BRA-BRGWA-6S
634447005	BRA-BRGWA-2I
1205499164	Method Blank (MB)**ICP-MS**
1205499165	Laboratory Control Sample (LCS)
1205499168	634441003(BRA-BRGWC-34SL) Serial Dilution (SD)
1205499166	634441003(BRA-BRGWC-34SS) Matrix Spike (MS)
1205499167	634441003(BRA-BRGWC-34SSD) 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.

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**
Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 40
Analytical Batch: 2482624

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

Preparation Batch: 2482623

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

GEL Sample ID#	Client Sample Identification
634447001	BRA-BRGWA-2S
634447002	BRA-BRGWA-5S
634447003	BRA-BRGWA-5I
634447004	BRA-BRGWA-6S
634447005	BRA-BRGWA-2I
1205499044	Method Blank (MB)**CVAA**
1205499045	Laboratory Control Sample (LCS)
1205499048	634447002(BRA-BRGWA-5SL) Serial Dilution (SD)
1205499046	634447002(BRA-BRGWA-5SD) Sample Duplicate (DUP)
1205499047	634447002(BRA-BRGWA-5SS) Matrix Spike (MS)

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

Data Summary:

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

General Chemistry

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 32
Analytical Batch: 2481608

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

GEL Sample ID#	Client Sample Identification
634447001	BRA-BRGWA-2S
634447002	BRA-BRGWA-5S
634447003	BRA-BRGWA-5I
634447004	BRA-BRGWA-6S
634447005	BRA-BRGWA-2I
1205497368	Method Blank (MB)
1205497369	Laboratory Control Sample (LCS)
1205497371	634145003(NonSDG) Sample Duplicate (DUP)
1205497373	634145003(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 1205497371 (Non SDG 634145003DUP) and 1205497373 (Non SDG 634145003PS) were diluted because target analyte concentrations exceeded the calibration range. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 21
Analytical Batch: 2482655

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

GEL Sample ID#	Client Sample Identification
634447001	BRA-BRGWA-2S
634447002	BRA-BRGWA-5S
1205499075	Method Blank (MB)
1205499076	Laboratory Control Sample (LCS)
1205499077	634352015(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: 2482658

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

GEL Sample ID#	Client Sample Identification
634447003	BRA-BRGWA-5I
634447004	BRA-BRGWA-6S
634447005	BRA-BRGWA-2I
1205499079	Method Blank (MB)
1205499080	Laboratory Control Sample (LCS)
1205499081	634205010(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: **Sulfide, Total**
Analytical Method: SM 4500-S (2-) D
Analytical Procedure: GL-GC-E-052 REV# 13
Analytical Batch: 2481696

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

GEL Sample ID#	Client Sample Identification
634447001	BRA-BRGWA-2S
634447002	BRA-BRGWA-5S
634447003	BRA-BRGWA-5I
634447004	BRA-BRGWA-6S
634447005	BRA-BRGWA-2I
1205497559	Method Blank (MB)
1205497560	Laboratory Control Sample (LCS)
1205497561	634441001(BRA-BRGWC-33S) Post Spike (PS)
1205497562	634441001(BRA-BRGWC-33S) Post Spike Duplicate (PSD)
1205497563	634447001(BRA-BRGWA-2S) Post Spike (PS)
1205497564	634447001(BRA-BRGWA-2S) Post Spike Duplicate (PSD)

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

Data Summary:

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

Product: **Alkalinity**
Analytical Method: SM 2320B
Analytical Procedure: GL-GC-E-033 REV# 15
Analytical Batch: 2484392

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

GEL Sample ID#	Client Sample Identification
634447001	BRA-BRGWA-2S
634447002	BRA-BRGWA-5S
634447003	BRA-BRGWA-5I
634447004	BRA-BRGWA-6S
634447005	BRA-BRGWA-2I
1205502339	Laboratory Control Sample (LCS)
1205502340	634448001(BRA-PZ-79) Sample Duplicate (DUP)
1205502341	634448001(BRA-PZ-79) Matrix Spike (MS)
1205502342	634643001(BRA-PZ-79) Sample Duplicate (DUP)
1205502343	634643001(BRA-PZ-79) Matrix Spike (MS)
1205502344	Laboratory Control Sample (LCS)

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

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this

report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

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.

634447 634450

Page: ____ of ____
Project #:
GEL Quote #:
COC Number (1):
PO Number:

GEL Laboratories LLC
an Inscor company
Chemistry | Radiochemistry | Field Laboratory | 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

Client Name: GA Power
Phone # 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - Upgradient
Fax #
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: B. Gilbert ACC
Send Results To: SCS & Geosyntec Contacts

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

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (Hour)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: (If Reactive, please specify sample info.)	Should this sample be considered: (*) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS, ALK (EPA 300, SM 2340C)	Total Carb, Bicarb Alk (SM 2320B)	Metals* (EPA 6020, 6010, 7470)	Sulfides (SM 4500)	<-- Preservative Type (6)
BRA-BR6WA-25	08/22/23	1006	D	N	WG			8	✓	✓	✓	✓	✓
BRA-BR6WA-55	08/22/23	1005	G	N	WG			3	✓	✓	✓	✓	✓
BRA-BR6WA-51	08/22/23	1010	G	N	WG			8	✓	✓	✓	✓	✓
BRA-BR6WA-65	08/22/23	1015	G	N	WG			8	✓	✓	✓	✓	✓
BRA-BR6WA-21	08/22/23	1012	G	N	WG			8	✓	✓	✓	✓	✓
BRA-													
BRA-													
BRA-													
BRA-													
BRA-													

Comments
Note: extra sample is required for sample specific QC
Task_Code: BRA-CCR-ASSMT-2023S2

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	8/23/23	0932	1	8/23/23	832
2	8/23/23	1:00	2	8/23/23	1300
3			3		

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

Fax Results: [ ] Yes [x] No

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

Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg

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

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

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

1.) Chain of Custody Number = Client Determined

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

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

4.) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix

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

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

7.) KNOWN OR POSSIBLE HAZARDS

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

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

TSCA Regulated
PCB = Polychlorinated biphenyls

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

Other
OT= Other / Unknown
(i.e.: Highflow pH, asbestos, beryllium, friticana, 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.)

~~634444~~ 634643
634448 634447
634443 634450
634441 634446

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client:

Received By: MVH

Date Received: 5-25-2013

Courier and Tracking Number: FedEx Express FedEx Ground UPS Field Services Courier Other

COOLER 2-3°C COOLER 4-1°C COOLER 6-1°C
COOLER 1-2°C COOLER 3-1°C COOLER 5-2°C

	Yes	No	NA
Suspected Hazard Information			If Yes, Contact Client/Supervisor to discuss. If samples are marked "radioactive", contact the Radiation Safety Group for further investigation.
A) Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: Is the Radioactive Shipment Survey Complete? 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): _____ CPM/mR/Hr Classified as: Class 1 Class 2 Class 3
D) Did the client designate samples are hazardous?		✓	If Yes to any, select Hazards below. PCB's Flammable Poison Unknown Other
E) Did the RSO identify possible hazards?		✓	If Yes to any, select Hazards below. PCB's Flammable Poison Unknown Other

	Sample Receipt Criteria	Yes	No	NA	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping container(s) received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents (including sampler signature & dates) received with shipment?	✓			Circle Applicable: Client refused to sign COC COC not received with shipment
3	Samples requiring cold preservation within (0 < 6 deg. C)?	✓			Preservation Method: Wet Ice Ice Packs Dry Ice None Other: Thermometer ID:
4	Daily check performed and passing for IR temperature gun?	✓			Temperature Device Serial #: Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?			✓	Sample ID's and Preservation Checked: BRA-D2-GW, BRA-BREWA-SW, BRA-BREWA-23S,
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for analysis? Yes__ No__ N/A__ (If yes, take to VOA Storage) Are liquid VOAs without headspace? Yes__ No__ N/A__ (If unknown, select No) Are liquid VOAs without headspace or bubble <6mm (1/4")? Yes__ No__ N/A__ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & Time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No containers received as COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

BRA-D2-BS, BRA-BREWA-2S, BRA-BREWA-6S, BRA-BREWC-32S, BRA-BREWA-4I, BRA-BREWC-37S, BRA-BWC-34S, BRA-BRGWC-30I Sulfide samples didnt hold proper preservation.

PM (or PMA) review: Initials PM Date 5/25/13 Page 1 of 1

GLHL-SR-001 Rev 7

Amanda Turner

From: Abraham, Joju <JABRAHAM@SOUTHERNCO.COM>
Sent: Friday, August 25, 2023 8:52 AM
To: Amanda Turner; Jurinko, Kristen Nichole; Smilley, Michael Jay; Gangi, Noelia S.; Midkiff, Laura B.
Cc: Team Trent
Subject: RE: Samples did not hold preservation (634441, 634443, 634444, 634446, 634447, 634450)

[EXTERNAL EMAIL] DO NOT CLICK links or attachments unless you recognize the sender and know the content is safe.

Re-preserve and analyze for sulfide in all samples.

JA

From: Amanda Turner <Amanda.Turner@gel.com>
Sent: Friday, August 25, 2023 8:29 AM
To: Abraham, Joju <JABRAHAM@SOUTHERNCO.COM>; Jurinko, Kristen Nichole <KNJURINK@SOUTHERNCO.COM>; Smilley, Michael Jay <MJSMILLE@SOUTHERNCO.COM>; Gangi, Noelia S. <NSMUSKUS@SOUTHERNCO.COM>; Midkiff, Laura B. <lbmidkif@southernco.com>
Cc: Team Trent <Team.Trent@gel.com>
Subject: Samples did not hold preservation (634441, 634443, 634444, 634446, 634447, 634450)

Good morning,

I wanted to notify you of the following preservation issues. These samples did not hold proper sulfide preservation. Please advise.

"BRA-GWC-34S" "BRA-BRGWC-37S" "BRA-PZ-13S" on work orders 634441 and 634443
“BRA-BRGWC-32S” “BRA-BRGWC-30I” "BRA-PZ-61I" "BRA-BRGWA-23S" on work orders 634444 and 634446
"BRA-BRGWA-2S" "BRA-BRGWA-6S" "BRA-BRGWA-2I" "BRA-BRAW-5I" on work orders 634447 and 634450

See attachments for reference.

Thank you!
Amanda

Amanda Turner
Project Manager Assistant
GEL Laboratories LLC EST. 1961
2040 Savage Road, Charleston, SC 29407
Office Main: 843.556.8171 | Fax: 843.766.1178
E-Mail: amanda.turner@gel.com | Website: www.gel.com [gel.com]
Analytical Testing
[gellaboratories.com] [linkedin.com]

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List of current GEL Certifications as of 06 September 2023

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122023-4
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2022-160
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-22-20
Utah NELAP	SC000122022-37
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

September 07, 2023

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

Re: Branch CCR Groundwater Compliance PZ
Work Order: 634649

Dear Joju Abraham:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on August 24, 2023. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

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

Laboratory ID	Client ID	Matrix	Date Collected	Date Recieved
634649001	BRA-PZ-76I	Ground Water	23/08/23 10:37	24/08/23 12:43
634649002	BRA-PZ-77I	Ground Water	23/08/23 10:26	24/08/23 12:43

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

Prep Methods and Prep Dates

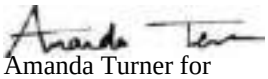
Method	Run Date ID
SW846 3005A	25-AUG-2023

Analysis Methods and Analysis Dates

Method	Run Date ID
EPA 300.0	24-AUG-2023
EPA 300.0	25-AUG-2023
SM 2320B	29-AUG-2023
SM 2540C	29-AUG-2023
SM 4500-S (2-) D	25-AUG-2023
SW846 3005A/6020B	06-SEP-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,



Amanda Turner for
Erin Trent
Project Manager

Purchase Order: GPC82177-0006
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: 634649 GEL Work Order: 634649

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 Amanda Tew

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

Certificate of Analysis

Report Date: September 7, 2023

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

Client Sample ID:	BRA-PZ-76I	Project:	GPCC00101
Sample ID:	634649001	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	23-AUG-23 10:37		
Receive Date:	24-AUG-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		5.28	0.0670	0.200	mg/L		1	LXA2	08/24/23	1728	2482641	1
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate		158	2.66	8.00	mg/L		20	LXA2	08/25/23	1640	2482641	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Aluminum		0.0505	0.0193	0.0500	mg/L	1.00	1	PRB	09/06/23	2214	2482705	3
Cobalt		0.00587	0.000300	0.00100	mg/L	1.00	1					
Iron		0.194	0.0330	0.100	mg/L	1.00	1					
Magnesium		5.68	0.0100	0.0300	mg/L	1.00	1					
Potassium		6.83	0.0800	0.300	mg/L	1.00	1					
Boron		2.10	0.104	0.300	mg/L	1.00	20	PRB	09/07/23	1027	2482705	4
Calcium		141	1.60	4.00	mg/L	1.00	20					
Manganese		4.65	0.0200	0.100	mg/L	1.00	20					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	PRB	09/07/23	0039	2482705	5
Sodium		19.7	0.0800	0.250	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		304	2.38	10.0	mg/L			CH6	08/29/23	1603	2484234	6
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/25/23	1055	2482961	7
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		23.1	0.725	2.00	mg/L			JW2	08/29/23	1219	2484392	8
Bicarbonate alkalinity (CaCO3)		23.1	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482704

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

Certificate of Analysis

Report Date: September 7, 2023

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

Client Sample ID:	BRA-PZ-76I	Project:	GPCC00101
Sample ID:	634649001	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 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 4500-S (2-) D	
8	SM 2320B	

Notes:

Column headers are defined as follows:

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

GEL LABORATORIES LLC
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Certificate of Analysis

Report Date: September 7, 2023

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

Client Sample ID:	BRA-PZ-77I	Project:	GPCC00101
Sample ID:	634649002	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	23-AUG-23 10:26		
Receive Date:	24-AUG-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		12.1	1.34	4.00	mg/L		20	LXA2	08/25/23	1711	2482641	1
Sulfate		269	2.66	8.00	mg/L		20					
Nitrate-N		0.151	0.0330	0.100	mg/L		1	LXA2	08/24/23	1759	2482641	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Beryllium	J	0.000318	0.000200	0.000500	mg/L	1.00	1	PRB	09/07/23	0042	2482705	3
Sodium		27.9	0.0800	0.250	mg/L	1.00	1					
Aluminum		0.122	0.0193	0.0500	mg/L	1.00	1	PRB	09/06/23	2217	2482705	4
Cobalt		0.0332	0.000300	0.00100	mg/L	1.00	1					
Iron		0.402	0.0330	0.100	mg/L	1.00	1					
Magnesium		10.6	0.0100	0.0300	mg/L	1.00	1					
Potassium		13.6	0.0800	0.300	mg/L	1.00	1					
Boron		0.936	0.104	0.300	mg/L	1.00	20	PRB	09/07/23	1029	2482705	5
Calcium		86.8	1.60	4.00	mg/L	1.00	20					
Manganese		3.51	0.0200	0.100	mg/L	1.00	20					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		466	2.38	10.0	mg/L			CH6	08/29/23	1603	2484234	6
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/25/23	1056	2482961	7
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		21.9	0.725	2.00	mg/L			JW2	08/29/23	1221	2484392	8
Bicarbonate alkalinity (CaCO3)		21.9	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	CD3	08/25/23	0735	2482704

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

Certificate of Analysis

Report Date: September 7, 2023

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

Client Sample ID:	BRA-PZ-77I	Project:	GPCC00101
Sample ID:	634649002	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 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 4500-S (2-) D	
8	SM 2320B	

Notes:

Column headers are defined as follows:

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

QC Summary

Report Date: September 7, 2023

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

Contact: **Joju Abraham**

Workorder: **634649**

Parmname	NOM		Sample	Qual	QC	Units	RPD%		REC%	Range	Anlst	Date Time
Ion Chromatography												
Batch 2482641												
QC1205499056 634643001 DUP												
Chloride			2.56		2.56	mg/L	0.235			(0%-20%)	LXA2	08/24/23 23:40
Nitrate-N		J	0.0737	J	0.0724	mg/L	1.78	^		(+/-0.100)		
Sulfate			761		761	mg/L	0.0329			(0%-20%)		08/25/23 15:38
QC1205499055 LCS												
Chloride	5.00				4.61	mg/L			92.3	(90%-110%)		08/24/23 22:06
Nitrate-N	2.50				2.31	mg/L			92.4	(90%-110%)		
Sulfate	10.0				9.50	mg/L			95	(90%-110%)		
QC1205499054 MB												
Chloride				U	ND	mg/L						08/24/23 23:09
Nitrate-N				U	ND	mg/L						
Sulfate				U	ND	mg/L						
QC1205499057 634643001 PS												
Chloride	5.00		2.56		7.48	mg/L			98.4	(90%-110%)		08/25/23 00:11
Nitrate-N	2.50	J	0.0737		2.40	mg/L			92.9	(90%-110%)		
Sulfate	10.0		7.61		17.7	mg/L			101	(90%-110%)		08/25/23 16:09

QC Summary

Workorder: **634649**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2482705										
QC1205499170 LCS										
Aluminum	2.00			2.04	mg/L		102	(80%-120%)	PRB	09/06/23 21:01
Beryllium	0.0500			0.0598	mg/L		120	(80%-120%)		
Boron	0.100			0.111	mg/L		111	(80%-120%)		
Calcium	2.00			2.11	mg/L		105	(80%-120%)		09/07/23 09:49
Cobalt	0.0500			0.0511	mg/L		102	(80%-120%)		09/06/23 21:01
Iron	2.00			2.05	mg/L		102	(80%-120%)		
Magnesium	2.00			2.09	mg/L		104	(80%-120%)		
Manganese	0.0500			0.0497	mg/L		99.4	(80%-120%)		
Potassium	2.00			2.02	mg/L		101	(80%-120%)		
Sodium	2.00			2.16	mg/L		108	(80%-120%)		09/07/23 09:49
QC1205499169 MB										
Aluminum			U	ND	mg/L					09/06/23 20:58
Beryllium			U	ND	mg/L					
Boron			U	ND	mg/L					
Calcium			U	ND	mg/L					09/07/23 09:47
Cobalt			U	ND	mg/L					09/06/23 20:58

QC Summary

Workorder: **634649**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2482705											
Iron				U	ND	mg/L				PRB	09/06/23 20:58
Magnesium				U	ND	mg/L					
Manganese				U	ND	mg/L					
Potassium				U	ND	mg/L					
Sodium				U	ND	mg/L					09/07/23 09:47
QC1205499171 634615001 MS											
Aluminum	2.00	U	ND		2.06	mg/L		102	(75%-125%)		09/06/23 21:09
Beryllium	0.0500	U	ND		0.0595	mg/L		119	(75%-125%)		
Boron	0.100		0.0601		0.170	mg/L		110	(75%-125%)		
Calcium	2.00		47.9		49.7	mg/L		N/A	(75%-125%)		09/07/23 10:00
Cobalt	0.0500	U	ND		0.0495	mg/L		99	(75%-125%)		09/06/23 21:09
Iron	2.00	J	0.0446		2.04	mg/L		99.9	(75%-125%)		
Magnesium	2.00		24.7		27.2	mg/L		N/A	(75%-125%)		
Manganese	0.0500	U	ND		0.0498	mg/L		99	(75%-125%)		
Potassium	2.00		1.19		3.21	mg/L		101	(75%-125%)		
Sodium	2.00		24.3		26.5	mg/L		N/A	(75%-125%)		09/07/23 10:00

QC Summary

Workorder: **634649**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2482705											
QC1205499172 634615001 MSD											
Aluminum	2.00	U	ND		2.00	mg/L	3.03	99.4	(0%-20%)	PRB	09/06/23 21:12
Beryllium	0.0500	U	ND		0.0597	mg/L	0.435	119	(0%-20%)		
Boron	0.100		0.0601		0.169	mg/L	0.597	109	(0%-20%)		
Calcium	2.00		47.9		47.5	mg/L	4.48	N/A	(0%-20%)		09/07/23 10:02
Cobalt	0.0500	U	ND		0.0488	mg/L	1.57	97.5	(0%-20%)		09/06/23 21:12
Iron	2.00	J	0.0446		2.02	mg/L	0.88	99	(0%-20%)		
Magnesium	2.00		24.7		26.1	mg/L	4.35	N/A	(0%-20%)		
Manganese	0.0500	U	ND		0.0491	mg/L	1.28	97.7	(0%-20%)		
Potassium	2.00		1.19		3.12	mg/L	2.62	96.9	(0%-20%)		
Sodium	2.00		24.3		25.2	mg/L	4.79	N/A	(0%-20%)		09/07/23 10:02
QC1205499173 634615001 SDILT											
Aluminum		U	ND	U	ND	ug/L	N/A		(0%-20%)		09/06/23 21:20
Beryllium		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Boron			60.1	J	12.2	ug/L	1.49		(0%-20%)		
Calcium			9580		1920	ug/L	.186		(0%-20%)		09/07/23 10:07
Cobalt		U	ND	U	ND	ug/L	N/A		(0%-20%)		09/06/23 21:20

QC Summary

Workorder: **634649**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2482705											
Iron		J	44.6	U	ND	ug/L	N/A		(0%-20%)	PRB	09/06/23 21:20
Magnesium			24700		5300	ug/L	7.32		(0%-20%)		
Manganese		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Potassium			1190	J	231	ug/L	2.54		(0%-20%)		
Sodium			4860		988	ug/L	1.66		(0%-20%)		09/07/23 10:07
Solids Analysis											
Batch 2484234											
QC1205502076 634643001 DUP											
Total Dissolved Solids			1270		1280	mg/L	0.94		(0%-5%)	CH6	08/29/23 16:03
QC1205502074 LCS											
Total Dissolved Solids	300				301	mg/L		100	(95%-105%)		08/29/23 16:03
QC1205502073 MB											
Total Dissolved Solids				U	ND	mg/L					08/29/23 16:03
Spectrometric Analysis											
Batch 2482961											
QC1205499656 LCS											
Total Sulfide	0.400				0.399	mg/L		99.7	(85%-115%)	JW2	08/25/23 10:42
QC1205499655 MB											
Total Sulfide				U	ND	mg/L					08/25/23 10:42
QC1205499657 634513005 PS											
Total Sulfide	0.400	U	ND		0.389	mg/L		96.4	(75%-125%)		08/25/23 10:48

QC Summary

Workorder: **634649**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Spectrometric Analysis											
Batch 2482961											
QC1205499658 634513005 PSD											
Total Sulfide	0.400	U	ND		0.391	mg/L	0.511	96.9	(0%-15%)	JW2	08/25/23 10:48
Titration and Ion Analysis											
Batch 2484392											
QC1205502340 634448001 DUP											
Alkalinity, Total as CaCO3			65.8		65.5	mg/L	0.457		(0%-20%)	JW2	08/29/23 11:54
Bicarbonate alkalinity (CaCO3)			65.8		65.5	mg/L	0.457		(0%-20%)		
Carbonate alkalinity (CaCO3)		U	ND	U	ND	mg/L	N/A				
QC1205502342 634643001 DUP											
Alkalinity, Total as CaCO3			80.2		80.4	mg/L	0.249		(0%-20%)		08/29/23 12:16
Bicarbonate alkalinity (CaCO3)			80.2		80.4	mg/L	0.249		(0%-20%)		
Carbonate alkalinity (CaCO3)		U	ND	U	ND	mg/L	N/A				
QC1205502339 LCS											
Alkalinity, Total as CaCO3	50.0				51.8	mg/L		104	(90%-110%)		08/29/23 11:37
QC1205502344 LCS											
Alkalinity, Total as CaCO3	15.0				14.8	mg/L		98.7	(90%-110%)		08/29/23 11:38
QC1205502341 634448001 MS											
Alkalinity, Total as CaCO3	50.0		65.8		118	mg/L		104	(80%-120%)		08/29/23 11:54
QC1205502343 634643001 MS											
Alkalinity, Total as CaCO3	50.0		80.2		132	mg/L		103	(80%-120%)		08/29/23 12:17

Notes:

The Qualifiers in this report are defined as follows:

QC Summary

Workorder: **634649**

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

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

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

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

Technical Case Narrative
Georgia Power Company
SDG #: 634649

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2482705

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 14
Preparation Batch: 2482704

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

GEL Sample ID#	Client Sample Identification
634649001	BRA-PZ-76I
634649002	BRA-PZ-77I
1205499169	Method Blank (MB)**ICP-MS**
1205499170	Laboratory Control Sample (LCS)
1205499173	634615001(BRA-BRGWC-17SL) Serial Dilution (SD)
1205499171	634615001(BRA-BRGWC-17SS) Matrix Spike (MS)
1205499172	634615001(BRA-BRGWC-17SSD) 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 634649001 (BRA-PZ-76I) and 634649002 (BRA-PZ-77I) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument.

Analyte	634649	
	001	002
Boron	20X	20X
Calcium	20X	20X

Manganese	20X	20X

General Chemistry

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 33
Analytical Batch: 2482641

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

GEL Sample ID#	Client Sample Identification
634649001	BRA-PZ-76I
634649002	BRA-PZ-77I
1205499054	Method Blank (MB)
1205499055	Laboratory Control Sample (LCS)
1205499056	634643001(BRA-PZ-79) Sample Duplicate (DUP)
1205499057	634643001(BRA-PZ-79) 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 1205499056 (BRA-PZ-79DUP), 1205499057 (BRA-PZ-79PS), 634649001 (BRA-PZ-76I) and 634649002 (BRA-PZ-77I) were diluted because target analyte concentrations exceeded the calibration range. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	634649	
	001	002
Chloride	1X	20X
Sulfate	20X	20X

Miscellaneous Information

Manual Integrations
Sample 634649001 (BRA-PZ-76I) 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: 2484234

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

GEL Sample ID#	Client Sample Identification
634649001	BRA-PZ-76I
634649002	BRA-PZ-77I
1205502073	Method Blank (MB)
1205502074	Laboratory Control Sample (LCS)
1205502076	634643001(BRA-PZ-79) 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 sample for interference prior to analysis. 1205502076 (BRA-PZ-79DUP).

Product: **Sulfide, Total**
Analytical Method: SM 4500-S (2-) D
Analytical Procedure: GL-GC-E-052 REV# 13
Analytical Batch: 2482961

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

GEL Sample ID#	Client Sample Identification
634649001	BRA-PZ-76I
634649002	BRA-PZ-77I
1205499655	Method Blank (MB)
1205499656	Laboratory Control Sample (LCS)
1205499657	634513005(NonSDG) Post Spike (PS)
1205499658	634513005(NonSDG) Post Spike Duplicate (PSD)

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

Data Summary:

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

Product: **Alkalinity**
Analytical Method: SM 2320B
Analytical Procedure: GL-GC-E-033 REV# 15

Analytical Batch: 2484392

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

GEL Sample ID#	Client Sample Identification
634649001	BRA-PZ-76I
634649002	BRA-PZ-77I
1205502339	Laboratory Control Sample (LCS)
1205502340	634448001(BRA-PZ-79) Sample Duplicate (DUP)
1205502341	634448001(BRA-PZ-79) Matrix Spike (MS)
1205502342	634643001(BRA-PZ-79) Sample Duplicate (DUP)
1205502343	634643001(BRA-PZ-79) Matrix Spike (MS)
1205502344	Laboratory Control Sample (LCS)

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

Data Summary:

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

Certification Statement

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

Page: 1 of 1
Project #:
GEL Quote #:
COC Number (4):
PO Number:

GEL Laboratories LLC

Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

634649

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

Client Name: GA Power | Phone #: 404-506-7116

Project/Site Name: Plant Branch Ash Pond | Fax #:

Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308

Collected By: T. Goble, D. Johnson, ACC | Send Results To: SCS & Geosyntec Contacts

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

Sample ID (*For composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (1)	Field Filtered (2)	Sample Matrix (3)	Should this sample be considered: Radioactive (if yes, please supply concentration units)	Hazardous (if yes, please supply hazards code)	Total number of containers	Ca, Co, Fe, Li, Mn, Mo, Sr, Tl, V by SW 6020B	Total Carbon by SM 5310B	Alkalinity SM 2320B	Sulfide SM 4500	<-- Preservative Type (6)
BRA-PZ-76I	08/23/23	1037	G	N	WG	N	N	5	✓	✓	✓	✓	
BRA-PZ-77I	08/23/23	1026	G	N	WG	N	N	5	✓	✓	✓	✓	

Comments
Note: extra sample is required for sample specific QC
Task_Code: BRA-CCR-OTH 2023 5623

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received By (Signed)	Date	Time
1		8-24-23	0840		8/24/23	840
2		8/24/23	1243		8/24/23	1243
3						

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

Fax Results: [ ] Yes [x] No

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

Additional Remarks: *Metals: B,Ca,Be,Co,Al,Fe,Mg,Mn,K,Na

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

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

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

(1) Chain of Custody Number = Client Determined

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

(3) Field Filtered: For liquid matrices, indicate with a Y = for sample was field filtered or N = for sample was not field filtered

(4) Matrix Codes: WG=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix

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

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

7.) KNOWN OR POSSIBLE HAZARDS

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

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

TSCA Regulated
PCB = Polychlorinated biphenyls

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

Other
OT = Other / Unknown
(i.e., Highly toxic, asbestos, beryllium, benzene, other misc. health hazards, etc.)
Description:

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

634448 634643
634652 634650
634649
634648 634615

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC

SDG/AR/COC/Work Order:

Received By: EG

Date Received: 8.24.23

Carrier and Tracking Number

Circle Applicable: FedEx Express | FedEx Ground | UPS | Field Services | Courier | Other

Cooler 1 - 3°
Cooler 2 - 3°
Cooler 3 - 3°
Cooler 4 - 2°
Cooler 5 - 3°

Suspected Hazard Information	Yes	No
A) Shipped as a DOT Hazardous?		/
B) Did the client designate the samples are to be received as radioactive?		/
C) Did the RSO classify the samples as radioactive?		/
D) Did the client designate samples are hazardous?		/
E) Did the RSO identify possible hazards?		/

*If Hazardous Select Radioactive Shipment Survey Completed: Yes ___ No ___

Radiological Survey(s): Were all packages surveyed by RSO? (Y) (N)

Observed Hazards: PCB | Flammable | Sample Oil | RCRA | Asbestos | Beryllium | Other:

Sample Receipt Criteria	Yes	No	NA	Comments/Qualifiers (Required for Non-Conforming Items)
1 Shipping container(s) received intact and sealed?	/			Circle Applicable: Seals broken	Damaged container	Leaking container	Other (describe)
2 Chain of custody document(s) included with shipment?	/			Circle Applicable: Client refused to sign COC	COC created upon receipt
3 Samples requiring cold preservation within (≤ 6 deg. C)*	/			Preservation Method: Wet Ice	Ice Packs	Dry Ice	None	Other: TEMP: See readings above for temps
4 Daily check performed and passed on IR temperature gun?	/			Temperature Device Serial #: Secondary Temperature Device Serial # (if applicable):
5 Sample containers intact and sealed?	/			Circle Applicable: Seals broken	Damaged container	Leaking container	Other (describe)
6 Samples requiring chemical preservation at proper pH?			/	Sample ID's and Containers Affected: If Preservation added, note: See confirmation form
7 Do any samples require Volatile Analysis?			/	If Yes, are Encores or Soil Kits present for soil VOA? Yes ___ No ___ NA ___ (If yes, place in VOA freezer) Do any VOA vials contain visible headspace? Yes ___ No ___ NA ___ (If Yes, select VOA) Are liquid VOA vials free of headspace? Yes ___ No ___ N/A ___ Samples ID's and containers affected:
8 Samples received within holding time?	/			ID's and tests affected:
9 Sample ID's on COC match ID's on bottles?	/			ID's and containers affected:
10 Date & time on COC match date & time on bottles?	/			Circle Applicable: No date or time on container	No time on container	COC missing info	Other (describe)
11 Number of containers received matches number indicated on COC?	/			Circle Applicable: No containers received per COC	Other (describe)
12 Are sample containers identifiable as GEL provided by use of GEL labels?	/			
13 COC form is properly signed in relinquished/received sections?	/			Circle Applicable: Not relinquished	Other (describe)

Comments (Use Continuation Form if needed):

Cooler 6-1
Cooler 7-2
Cooler 8-4
Cooler 9-1

PM (or PMA) reviewed: Initials: AT Date: 8/24/23 Page 1 of 3

GL-CHL-SR-001 Rev 3

GEL Laboratories LLC **SAMPLE RECEIPT & REVIEW CONTINUATION FORM**

Client: GPCC Received By: EG Date Received: 8/24/23 SDG/ARCOC/Work Order: _____

BRA-P2-511
BRA-P2-591
BRA-BRGWC-353
BRA-BRGWC-365
BRA-APE-FB-05
BRA-P2-601
BRA-P2-581
BRA-P2-631
BRA-BRGWC-385
BRA-P2-641
BRA-P2-681D
BRA-APBLD-FD-02
BRA-P2-500D
BRA-BRGWC-50
BRA-APE-FD-05
L→ containers for sodium hydroxide/zinc acetate did not hold preservation. Were preserved & placed in 24 hr hold preservation

PM (or PM(A) review) Initials AT Date 8/28/23 Page 2 of 2

List of current GEL Certifications as of 07 September 2023

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122023-4
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2022-160
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-22-20
Utah NELAP	SC000122022-37
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

September 07, 2023

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

Re: Branch CCR Groundwater Compliance PZ
Work Order: 634784

Dear Joju Abraham:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on August 25, 2023. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

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

Laboratory ID	Client ID	Matrix	Date Collected	Date Recieved
634784001	BRA-PZ-53D	Ground Water	24/08/23 10:12	25/08/23 08:57
634784002	BRA-PZ-52D	Ground Water	23/08/23 13:46	25/08/23 08:57

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

Prep Methods and Prep Dates

Method	Run Date ID
SW846 3005A	29-AUG-2023
SW846 7470A Prep	28-AUG-2023

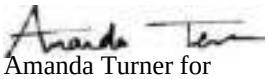
Analysis Methods and Analysis Dates

Method	Run Date ID
EPA 300.0	25-AUG-2023
EPA 300.0	26-AUG-2023
SM 2320B	01-SEP-2023
SM 2540C	30-AUG-2023
SM 4500-S (2-) D	28-AUG-2023

SW846	3005A/6020B	06-SEP-2023
SW846	3005A/6020B	07-SEP-2023
SW846	7470A	29-AUG-2023

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4504.

Sincerely,



Amanda Turner for
Erin Trent
Project Manager

Purchase Order: GPC82177-0006
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: 634784 GEL Work Order: 634784

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 Amanda Tew

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

Certificate of Analysis

Report Date: September 7, 2023

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater CompliancePZ

Client Sample ID: BRA-PZ-53D
Sample ID: 634784001
Matrix: WG
Collect Date: 24-AUG-23 10:12
Receive Date: 25-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		4.43	0.0670	0.200	mg/L		1	HXC1	08/25/23	1757	2483150	1
Fluoride		0.334	0.0330	0.100	mg/L		1					
Nitrate-N	J	0.0807	0.0330	0.100	mg/L		1					
Sulfate		293	5.32	16.0	mg/L		40	HXC1	08/26/23	0007	2483150	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/29/23	1236	2483668	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		1.06	0.0520	0.150	mg/L	1.00	10	PRB	09/06/23	2014	2483979	4
Calcium		74.4	0.800	2.00	mg/L	1.00	10					
Sodium		42.8	0.0800	0.250	mg/L	1.00	1	PRB	09/07/23	1050	2483979	5
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/06/23	2011	2483979	6
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0485	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron		0.327	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0185	0.00300	0.0100	mg/L	1.00	1					
Magnesium		17.3	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.503	0.00100	0.00500	mg/L	1.00	1					
Molybdenum		0.00211	0.000200	0.00100	mg/L	1.00	1					
Potassium		5.84	0.0800	0.300	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		499	2.38	10.0	mg/L			CH6	08/30/23	1718	2484594	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/28/23	1302	2483779	8

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

Certificate of Analysis

Report Date: September 7, 2023

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater CompliancePZ

Client Sample ID: BRA-PZ-53D
Sample ID: 634784001
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		50.9	0.725	2.00	mg/L			JW2	09/01/23	1140	2486267	9
Bicarbonate alkalinity (CaCO3)		50.9	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	JM13	08/29/23	1515	2483978
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/28/23	1155	2483667

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	
8	SM 4500-S (2-) D	
9	SM 2320B	

Notes:

Column headers are defined as follows:

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

QC Summary

Report Date: September 7, 2023

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

Contact: **Joju Abraham**

Workorder: **634784**

Parmname	NOM		Sample	Qual	QC	Units	RPD%		REC%	Range	Anlst	Date Time
Ion Chromatography												
Batch 2483150												
QC1205499980 634784001 DUP												
Chloride			4.43		4.44	mg/L	0.11			(0%-20%)	HXC1	08/25/23 18:28
Fluoride			0.334		0.337	mg/L	0.983	^		(+/-0.100)		
Nitrate-N		J	0.0807	J	0.0778	mg/L	3.66	^		(+/-0.100)		
Sulfate			293		294	mg/L	0.0981			(0%-20%)		08/26/23 00:38
QC1205499979 LCS												
Chloride	5.00				4.79	mg/L			95.9	(90%-110%)		08/25/23 21:02
Fluoride	2.50				2.49	mg/L			99.6	(90%-110%)		
Nitrate-N	2.50				2.38	mg/L			95.4	(90%-110%)		
Sulfate	10.0				9.79	mg/L			97.9	(90%-110%)		
QC1205499978 MB												
Chloride				U	ND	mg/L						08/25/23 19:29
Fluoride				U	ND	mg/L						
Nitrate-N				U	ND	mg/L						
Sulfate				U	ND	mg/L						
QC1205499981 634784001 PS												
Chloride	5.00		4.43		9.90	mg/L			109	(90%-110%)		08/25/23 18:59

QC Summary

Workorder: **634784**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography											
Batch 2483150											
Fluoride	2.50		0.334		2.76	mg/L		97	(90%-110%)	HXC1	08/25/23 18:59
Nitrate-N	2.50	J	0.0807		2.45	mg/L		94.7	(90%-110%)		
Sulfate	10.0		7.33		17.7	mg/L		103	(90%-110%)		08/26/23 01:09
Metals Analysis - ICPMS											
Batch 2483979											
QC1205501592 LCS											
Antimony	0.0500				0.0501	mg/L		100	(80%-120%)	PRB	09/06/23 18:04
Arsenic	0.0500				0.0507	mg/L		101	(80%-120%)		
Barium	0.0500				0.0497	mg/L		99.5	(80%-120%)		
Beryllium	0.0500				0.0581	mg/L		116	(80%-120%)		
Boron	0.100				0.110	mg/L		110	(80%-120%)		
Cadmium	0.0500				0.0516	mg/L		103	(80%-120%)		
Calcium	2.00				2.10	mg/L		105	(80%-120%)		
Chromium	0.0500				0.0509	mg/L		102	(80%-120%)		
Cobalt	0.0500				0.0507	mg/L		101	(80%-120%)		
Iron	2.00				2.01	mg/L		101	(80%-120%)		
Lead	0.0500				0.0517	mg/L		103	(80%-120%)		

QC Summary

Workorder: **634784**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2483979										
Lithium	0.0500			0.0563	mg/L		113	(80%-120%)	PRB	09/06/23 18:04
Magnesium	2.00			2.08	mg/L		104	(80%-120%)		
Manganese	0.0500			0.0498	mg/L		99.6	(80%-120%)		
Molybdenum	0.0500			0.0532	mg/L		106	(80%-120%)		
Potassium	2.00			2.02	mg/L		101	(80%-120%)		
Selenium	0.0500			0.0495	mg/L		98.9	(80%-120%)		
Sodium	2.00			2.25	mg/L		112	(80%-120%)		
Thallium	0.0500			0.0496	mg/L		99.2	(80%-120%)		
QC1205501591 MB										
Antimony			U	ND	mg/L					09/06/23 18:00
Arsenic			U	ND	mg/L					
Barium			U	ND	mg/L					
Beryllium			U	ND	mg/L					
Boron			U	ND	mg/L					
Cadmium			U	ND	mg/L					
Calcium			U	ND	mg/L					

QC Summary

Workorder: **634784**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2483979											
Chromium				U	ND	mg/L				PRB	09/06/23 18:00
Cobalt				U	ND	mg/L					
Iron				U	ND	mg/L					
Lead				U	ND	mg/L					
Lithium				U	ND	mg/L					
Magnesium				U	ND	mg/L					
Manganese				U	ND	mg/L					
Molybdenum				U	ND	mg/L					
Potassium				U	ND	mg/L					
Selenium				U	ND	mg/L					
Sodium				U	ND	mg/L					
Thallium				U	ND	mg/L					
QC1205501593 634768003 MS											
Antimony	0.0500	U	ND		0.0513	mg/L		103	(75%-125%)		09/06/23 18:18
Arsenic	0.0500	U	ND		0.0514	mg/L		99.8	(75%-125%)		
Barium	0.0500		0.0151		0.0634	mg/L		96.5	(75%-125%)		

QC Summary

Workorder: **634784**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2483979											
Beryllium	0.0500	U	ND		0.0551	mg/L		110	(75%-125%)	PRB	09/06/23 18:18
Boron	0.100		1.25		1.39	mg/L		N/A	(75%-125%)		09/06/23 18:44
Cadmium	0.0500	U	ND		0.0492	mg/L		98.3	(75%-125%)		09/06/23 18:18
Calcium	2.00		74.4		76.1	mg/L		N/A	(75%-125%)		09/06/23 18:44
Chromium	0.0500	U	ND		0.0497	mg/L		99	(75%-125%)		09/06/23 18:18
Cobalt	0.0500		0.00601		0.0548	mg/L		97.6	(75%-125%)		
Iron	2.00	J	0.0749		2.05	mg/L		98.8	(75%-125%)		
Lead	0.0500	U	ND		0.0503	mg/L		101	(75%-125%)		
Lithium	0.0500	U	ND		0.0547	mg/L		107	(75%-125%)		
Magnesium	2.00		6.53		8.41	mg/L		94.2	(75%-125%)		
Manganese	0.0500		0.458		0.511	mg/L		N/A	(75%-125%)		
Molybdenum	0.0500	U	ND		0.0528	mg/L		105	(75%-125%)		
Potassium	2.00		4.90		6.94	mg/L		102	(75%-125%)		
Selenium	0.0500	U	ND		0.0488	mg/L		97.5	(75%-125%)		
Sodium	2.00		16.3		18.1	mg/L		N/A	(75%-125%)		

QC Summary

Workorder: **634784**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2483979											
Thallium	0.0500	U	ND		0.0490	mg/L		98	(75%-125%)	PRB	09/06/23 18:18
QC1205501594 634768003 MSD											
Antimony	0.0500	U	ND		0.0500	mg/L	2.65	99.9	(0%-20%)		09/06/23 18:22
Arsenic	0.0500	U	ND		0.0495	mg/L	3.85	96	(0%-20%)		
Barium	0.0500		0.0151		0.0615	mg/L	3	92.7	(0%-20%)		
Beryllium	0.0500	U	ND		0.0552	mg/L	0.165	110	(0%-20%)		
Boron	0.100		1.25		1.36	mg/L	2.5	N/A	(0%-20%)		09/06/23 18:47
Cadmium	0.0500	U	ND		0.0481	mg/L	2.27	96.1	(0%-20%)		09/06/23 18:22
Calcium	2.00		74.4		74.0	mg/L	2.8	N/A	(0%-20%)		09/06/23 18:47
Chromium	0.0500	U	ND		0.0482	mg/L	3.1	96	(0%-20%)		09/06/23 18:22
Cobalt	0.0500		0.00601		0.0529	mg/L	3.54	93.8	(0%-20%)		
Iron	2.00	J	0.0749		1.96	mg/L	4.48	94.3	(0%-20%)		
Lead	0.0500	U	ND		0.0491	mg/L	2.44	98.1	(0%-20%)		
Lithium	0.0500	U	ND		0.0532	mg/L	2.78	104	(0%-20%)		
Magnesium	2.00		6.53		8.23	mg/L	2.18	85.2	(0%-20%)		
Manganese	0.0500		0.458		0.493	mg/L	3.49	N/A	(0%-20%)		

QC Summary

Workorder: **634784**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2483979											
Molybdenum	0.0500	U	ND		0.0513	mg/L	2.83	102	(0%-20%)	PRB	09/06/23 18:22
Potassium	2.00		4.90		6.74	mg/L	2.93	92.1	(0%-20%)		
Selenium	0.0500	U	ND		0.0468	mg/L	4.28	93.4	(0%-20%)		
Sodium	2.00		16.3		17.9	mg/L	0.949	N/A	(0%-20%)		
Thallium	0.0500	U	ND		0.0473	mg/L	3.67	94.4	(0%-20%)		
QC1205501595 634768003 SDILT											
Antimony		U	ND	U	ND	ug/L	N/A		(0%-20%)		09/06/23 18:29
Arsenic		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Barium			15.1	J	3.20	ug/L	5.84		(0%-20%)		
Beryllium		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Boron			62.7	J	13.1	ug/L	4.57		(0%-20%)		09/06/23 18:51
Cadmium		U	ND	U	ND	ug/L	N/A		(0%-20%)		09/06/23 18:29
Calcium			3720		786	ug/L	5.58		(0%-20%)		09/06/23 18:51
Chromium		U	ND	U	ND	ug/L	N/A		(0%-20%)		09/06/23 18:29
Cobalt			6.01		1.25	ug/L	4.24		(0%-20%)		
Iron		J	74.9	U	ND	ug/L	N/A		(0%-20%)		

QC Summary

Workorder: **634784**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2483979										
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)	PRB	09/06/23 18:29
Lithium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Magnesium		6530		1280	ug/L	1.77		(0%-20%)		
Manganese		458		91.7	ug/L	.114		(0%-20%)		
Molybdenum	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Potassium		4900		968	ug/L	1.19		(0%-20%)		
Selenium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Sodium		16300		3340	ug/L	2.56		(0%-20%)		
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Metals Analysis-Mercury										
Batch 2483668										
QC1205500965 634563009 DUP										
Mercury	U	ND	U	ND	mg/L	N/A			AXS5	08/29/23 11:59
QC1205500964 LCS										
Mercury 0.00200				0.00214	mg/L		107	(80%-120%)		08/29/23 11:56
QC1205500963 MB										
Mercury			U	ND	mg/L					08/29/23 11:54
QC1205500966 634563009 MS										
Mercury 0.00200	U	ND		0.00211	mg/L		106	(75%-125%)		08/29/23 12:00

QC Summary

Workorder: 634784

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis-Mercury											
Batch 2483668											
QC1205500967 634563009 SDILT											
Mercury		U	ND	U	ND	ug/L	N/A		(0%-10%)	AXS5	08/29/23 12:02
Solids Analysis											
Batch 2484594											
QC1205502665 634784001 DUP											
Total Dissolved Solids			499		515	mg/L	3.16		(0%-5%)	CH6	08/30/23 17:18
QC1205502664 LCS											
Total Dissolved Solids	300				301	mg/L		100	(95%-105%)		08/30/23 17:18
QC1205502663 MB											
Total Dissolved Solids				U	ND	mg/L					08/30/23 17:18
Spectrometric Analysis											
Batch 2483779											
QC1205501209 LCS											
Total Sulfide	0.400				0.398	mg/L		99.4	(85%-115%)	JW2	08/28/23 12:54
QC1205501208 MB											
Total Sulfide				U	ND	mg/L					08/28/23 12:54
QC1205501210 634615002 PS											
Total Sulfide	0.400	U	ND		0.118	mg/L		29.4*	(75%-125%)		08/28/23 12:55
QC1205501212 634650011 PS											
Total Sulfide	0.400	U	ND		0.111	mg/L		27.7*	(75%-125%)		08/28/23 12:59
QC1205501211 634615002 PSD											
Total Sulfide	0.400	U	ND		0.113	mg/L	3.73	28.3*	(0%-15%)		08/28/23 12:55
QC1205501213 634650011 PSD											
Total Sulfide	0.400	U	ND		0.109	mg/L	1.96	27.2*	(0%-15%)		08/28/23 13:00

QC Summary

Workorder: **634784**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Titration and Ion Analysis										
Batch 2486267										
QC1205505693 LCS										
Alkalinity, Total as CaCO3	50.0			51.2	mg/L		102	(90%-110%)	JW2	09/01/23 11:10
QC1205505710 LCS										
Alkalinity, Total as CaCO3	15.0			15.3	mg/L		102	(90%-110%)		09/01/23 11:11
QC1205506027 LCSD										
Alkalinity, Total as CaCO3	50.0			51.5	mg/L	0.584	103	(0%-20%)		09/01/23 11:11
QC1205506195 LCSD										
Alkalinity, Total as CaCO3	15.0			14.8	mg/L	3.32	98.7	(0%-20%)		09/01/23 11:11

Notes:

The Qualifiers in this report are defined as follows:

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

QC Summary

Workorder: **634784**

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

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 #: 634784

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2483979

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 14
Preparation Batch: 2483978

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

GEL Sample ID#	Client Sample Identification
634784001	BRA-PZ-53D
1205501591	Method Blank (MB)**ICP-MS**
1205501592	Laboratory Control Sample (LCS)
1205501595	634768003(BRA-BRGWC-27IL) Serial Dilution (SD)
1205501593	634768003(BRA-BRGWC-27IS) Matrix Spike (MS)
1205501594	634768003(BRA-BRGWC-27ISD) Matrix Spike Duplicate (MSD)

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

Data Summary:

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

Calibration Information

CRDL/PQL Requirements
The CRDL standard recoveries for SW846 6020B met the advisory control limits with the exception of calcium. Client sample concentrations were less than the MDL or greater than two times the CRDL; therefore the data were not adversely affected. 634784001 (BRA-PZ-53D).

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

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Sample 634784001 (BRA-PZ-53D) was diluted to ensure that the analyte concentration was within the linear calibration range of the instrument.

Analyte	634784
	001
Boron	10X
Calcium	10X

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**
Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 40
Analytical Batch: 2483668

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 40
Preparation Batch: 2483667

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

GEL Sample ID#	Client Sample Identification
634784001	BRA-PZ-53D
1205500963	Method Blank (MB)**CVAA**
1205500964	Laboratory Control Sample (LCS)
1205500967	634563009(NonSDGL) Serial Dilution (SD)
1205500965	634563009(NonSDGD) Sample Duplicate (DUP)
1205500966	634563009(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# 33
Analytical Batch: 2483150

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

GEL Sample ID#	Client Sample Identification
634784001	BRA-PZ-53D
1205499978	Method Blank (MB)
1205499979	Laboratory Control Sample (LCS)
1205499980	634784001(BRA-PZ-53D) Sample Duplicate (DUP)
1205499981	634784001(BRA-PZ-53D) 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 1205499980 (BRA-PZ-53DDUP), 1205499981 (BRA-PZ-53DPS) and 634784001 (BRA-PZ-53D) were diluted because target analyte concentrations exceeded the calibration range. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	634784 001
Sulfate	40X

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 21
Analytical Batch: 2484594

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

GEL Sample ID#	Client Sample Identification
634784001	BRA-PZ-53D
1205502663	Method Blank (MB)
1205502664	Laboratory Control Sample (LCS)
1205502665	634784001(BRA-PZ-53D) 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: **Sulfide, Total**
Analytical Method: SM 4500-S (2-) D
Analytical Procedure: GL-GC-E-052 REV# 13
Analytical Batch: 2483779

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

GEL Sample ID#	Client Sample Identification
634784001	BRA-PZ-53D
1205501208	Method Blank (MB)
1205501209	Laboratory Control Sample (LCS)

1205501210	634615002(BRA-BRGWC-35S) Post Spike (PS)
1205501211	634615002(BRA-BRGWC-35S) Post Spike Duplicate (PSD)
1205501212	634650011(BRA-BRGWC-50) Post Spike (PS)
1205501213	634650011(BRA-BRGWC-50) Post Spike Duplicate (PSD)

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

Data Summary:

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

Quality Control (QC) Information

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

Analyte	Sample	Value
Total Sulfide	1205501210 (BRA-BRGWC-35SPS)	29.4* (75%-125%)
	1205501211 (BRA-BRGWC-35SPSD)	28.3* (75%-125%)
	1205501212 (BRA-BRGWC-50PS)	27.7* (75%-125%)
	1205501213 (BRA-BRGWC-50PSD)	27.2* (75%-125%)

Product: **Alkalinity**
Analytical Method: SM 2320B
Analytical Procedure: GL-GC-E-033 REV# 15
Analytical Batch: 2486267

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

GEL Sample ID#	Client Sample Identification
634784001	BRA-PZ-53D
1205505693	Laboratory Control Sample (LCS)
1205505710	Laboratory Control Sample (LCS)
1205506027	Laboratory Control Sample Duplicate (LCSD)
1205506195	Laboratory Control Sample Duplicate (LCSD)

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

Data Summary:

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

Quality Control (QC) Information

Laboratory Control Sample Duplicate (LCSD)
An LCSD was used in place of matrix QC due to limited sample volume. 634784001 (BRA-PZ-53D).

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.

Relog

ET

GEL Laboratories LLC
Chain of Custody and Analytical Request

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

GEL Work Order Number:
GEL Project Manager: Erin Tyne

Client Name: GA Power
Phone #: 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - II
Fax #:
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: T Gebre ACC
Send Results To: SCS & Georgia Coasts

Sample Analysis Requested [4] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (Hour)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Composite (yes, check applicable box)	Composite (no, check applicable box)	Total number of containers	Preservative Type (5)
BRA-PZ-52D	05/23/23	1346	G	N	WG	U	N	3	
BRA-PZ-53D	05/24/23	1012	G	N	WG	N	N	18	
BRA-									
BRA-									
BRA-									
BRA-									
BRA-									
BRA-									
BRA-									
BRA-									

Comments
Note: extra sample is required for sample specific QC
Task_Code: BRA-CCR-ASSMT-391382

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1 Tyler Gill	5/24/23	0857	1		
2			2		
3			3		

TAT Requested: Normal: x Rush: ____ Specify: ____ (Subject to Surcharge)
Fax Results: [ ] Yes (x) No
Select Deliverable: [ ] C of A [ ] QC Summary [ ] Level 2 (x) Level 3 [ ] Level 3 [ ] Level 4
Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mn,Se,Tl,Fe,Mg,Mo,K,Na,Sr
For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No Cooler Temp: ____ °C
> For sample shipping and delivery details, see Sample Receipt & Review form (SRR)
Sample Collection Time Zone: (x) Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1) Chain of Custody Number = Client Determined
2) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite
3) Field Filtered - For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered
4) Matrix Codes: WI=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix
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 Bisulfate, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

7) KNOWN OR POSSIBLE HAZARDS

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

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

TSCA Regulated
PCB = Polychlorinated biphenyls

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

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, aerosols, 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.)

634784 & 634789

634784 634789

Page: 1 of 1
Project #:
GEL Quote #:
COC Number:
PO Number:

GEL Laboratories LLC
Chemistry | Radiochemistry | Environmental | Specialty Analytics
Chain of Custody and Analytical Request

GEL Work Order Number: GEL Project Manager: Erin Trust

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

Client Name: GA Power
Phone # 404-506-7136
Project/Site Name: Plant Branch Ash Ponds - B
Fax #
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: T. Gable ACC
Send Results To: SCS & Groundwater Contacts

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

Sample ID *For composites - indicate start and end date/time	*Date Collected (mm/dd/yy)	*Time Collected (Military)	QC Code	Field Filtered	Sample Matrix	Check this analysis box when sample is received	Is sufficient sample available?	Total number of containers	Cl, F, SO4, TDS, Alkalinity, pH, Specific Conductance	Total Coli & Fecal Coli	Metals - EPA 6020, 6010, 7470	Radium 226 & 228, EPA 9315, 9320	Sulfide SM 4500	←Preservative Type (6)
BRA-PZ-52D	05/23/23	1346	G	N	WG	N	N	3				✓		
BRA-PZ-53D	05/24/23	1012	G	N	WG	N	N	8	✓	✓	✓	✓	✓	
BRA-														
BRA-														
BRA-														
BRA-														
BRA-														
BRA-														
BRA-														
BRA-														

Comments
Note: extra sample is required for sample specific QC
Task_Code: BRA-CCR-ASSMT-202352

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	5/24/23	1300	1	5/24/23	1300
2	5/25/23	0853	2	5/25/23	0857
3			3		

TAT Requested: Normal: X Rush: ____ Specify: ____ (Subject to Surcharge)
Fax Results: [ ] Yes [X] No
Select Deliverables: [ ] COA [ ] QC Summary [ ] Level 1 [X] Level 2 [ ] Level 3 [ ] Level 4
Additional Remarks: Metals: B, Ca, Fe, As, Ba, Be, Cd, Co, Cu, Pb, Li, Mn, Ni, Se, Ag, Tl, V, Zn, Sb, Mo, Sr, Al, Mg, Mn, K, Na, Hg
For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No Cooler Temp: ____ °C
Sample Collection Time Zone: [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

→ For sample shipping and delivery details, see Sample Receipt & Review Form (SRR)

Cooler 1 - 4°
Cooler 2 - 4°
Cooler 3 - 1°
Cooler 4 - 1°
Cooler 5 - 5

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: WT = Drinking Water, WG = Groundwater, WW = Wastewater, WW = Waste Water, WL = Leachate, SO = Soil, SD = Sediment, SL = Sludge, WQ = Water Quality Parameters
5) Sample Analysis Requested: Analytical method requested (i.e. 6020B, 9315/9320 etc.) and number of containers provided for each (i.e. 6020B - 1, 9315/9320 - 1).
6) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, FB = Field Blank, EB = Equipment Blank

If RUSH or POSSIBLE HAZARD:

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

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

TSCA Regulated
PCB = Polychlorinated biphenyls

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

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

Please provide any additional details below regarding hazards, sample dispositioning, etc. (i.e. Origin of sample (if non-GA), client to be billed for, additional analyses, etc.)

ET

634784 634789 634768 634781

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC

SDG/AR/COC/Work Order:

Received By: EG

Date Received: 8/25/13 0857

Carrier and Tracking Number: Fedex Express / Fedex Ground / UPS / Field Services / Courier / Other

Cooler 1 - 4° Cooler 3 - 1° Cooler 5 - 3°

Cooler 2 - 4° Cooler 4 - 1°

Suspected Hazard Information	Y	N
A) Shipped as a DOT Hazardous?		✓
B) Did the client designate the samples are to be received as radioactive?		✓
C) Did the GEL classify the samples as radioactive?		✓
D) Did the client designate samples are hazardous?		✓
E) Did the GEL identify possible hazards?		✓

If Yes to A, B, C, or D, please see below.

Radiological Survey Completed: Yes ___ No ___

If D or E is yes, select Hazards below.

PCBs Flammable Foreign Soil RCRA Asbestos Beryllium Other

Sample Receipt Criteria	Y	N	NA	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client refused to sign COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)*	✓			Preservation Method: Wet Ice Ice Packs Dry Ice None Other *All temperatures are recorded in Celsius TEMP: See above
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial # (IR ID#): Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?			✓	Sample ID's and Containers Affected: If Preservation added, Lot#: See below
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for soils? Yes ___ No ___ NA ___ (If Yes, use for VOA Samples) Do field VOA vials contain acceptable headspace? Yes ___ No ___ NA ___ (If no, indicate on COC) Are field VOA vials free of headspace? Yes ___ No ___ NA ___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?			✓	ID's and containers affected: COC says BRA-P2-74I bottles say BRA-P2-74
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No date or time on bottle No sampler name/initials COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No containers listed on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

containers BRA-P2-75I, BRA-BRGWC-27I, BRA-P2-53D, & BRA-BRGWC-29I preserved with NaOH/Zinc Acetate did not have preservation

PM (or PMA) review: Initials EF Date 8/28/13 Page 1 of 1

GL-CHL-SR-004 Rev 7

List of current GEL Certifications as of 07 September 2023

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122023-4
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2022-160
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-22-20
Utah NELAP	SC000122022-37
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

September 22, 2023

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

Re: Branch CCR Groundwater Compliance APE-R
Work Orders: 634443 and 634648

Dear Joju Abraham:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on August 23, 2023 and August 24, 2023. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

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

Laboratory ID	Client ID	Matrix	Date Collected	Date Recieved
634443001	BRA-BRGWC-33S	Ground Water	22/08/23 12:10	23/08/23 13:00
634443002	BRA-APE-FD-04	Ground Water	22/08/23 12:00	23/08/23 13:00
634443003	BRA-BRGWC-34S	Ground Water	22/08/23 14:35	23/08/23 13:00
634443004	BRA-APE-FB-07	Water	22/08/23 15:10	23/08/23 13:00
634443005	BRA-BRGWC-37S	Ground Water	22/08/23 16:51	23/08/23 13:00
634443006	BRA-PZ-13S	Ground Water	22/08/23 16:47	23/08/23 13:00
634648001	BRA-BRGWC-17S	Ground Water	23/08/23 14:05	24/08/23 12:43
634648002	BRA-BRGWC-35S	Ground Water	23/08/23 12:01	24/08/23 12:43
634648003	BRA-BRGWC-36S	Ground Water	23/08/23 15:56	24/08/23 12:43
634648004	BRA-BRGWC-38S	Ground Water	23/08/23 12:12	24/08/23 12:43
634648005	BRA-PZ-70I	Ground Water	23/08/23 16:12	24/08/23 12:43
634648006	BRA-APE-FD-05	Ground Water	23/08/23 12:00	24/08/23 12:43
634648007	BRA-APE-FB-08	Water	23/08/23 16:30	24/08/23 12:43
634648008	BRA-APE-EB-09	Water	23/08/23 16:45	24/08/23 12:43
634648009	BRA-APE-EB-10	Water	23/08/23 13:15	24/08/23 12:43

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

Prep Methods and Prep Dates

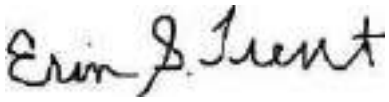
Not Applicable

Analysis Methods and Analysis Dates

Method	Run Date ID
Calculation	20-SEP-2023
Calculation	22-SEP-2023
EPA 903.1 Modified	20-SEP-2023
EPA 904.0/SW846 9320 Modified	05-SEP-2023
EPA 904.0/SW846 9320 Modified	18-SEP-2023
EPA 904.0/SW846 9320 Modified	20-SEP-2023
EPA 904.0/SW846 9320 Modified	22-SEP-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,



Erin Trent
Project Manager

Purchase Order: GPC82177-0006
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: 634443 GEL Work Order: 634443

The Qualifiers in this report are defined as follows:

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

** Analyte is a Tracer compound

** Analyte is a surrogate compound

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

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

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

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

Reviewed by Erin B. Trent

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

Certificate of Analysis

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

Atlanta, Georgia 30308 Report Date: September 22, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPE-R

Client Sample ID: BRA-BRGWC-33S
Sample ID: 634443001
Matrix: WG
Collect Date: 22-AUG-23
Receive Date: 23-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.119	+/-0.702	1.33	+/-0.702	3.00	pCi/L			JE1	09/22/23	0821	2494433	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	0.521	+/-0.773	1.33	+/-0.779		pCi/L			NXL1	09/22/23	1016	2488604	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.401	+/-0.326	0.499	+/-0.337	1.00	pCi/L			LXP1	09/20/23	0819	2482017	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"	2494433	83.7	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

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

Certificate of Analysis

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

Atlanta, Georgia 30308 Report Date: September 22, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPE-R

Client Sample ID: BRA-APE-FD-04 Project: GPCC00101
Sample ID: 634443002 Client ID: GPCC001
Matrix: WG
Collect Date: 22-AUG-23
Receive Date: 23-AUG-23
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.08	+/-0.881	1.41	+/-0.924	3.00	pCi/L			JE1	09/22/23	0821	2494433	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		1.55	+/-0.921	1.41	+/-0.966		pCi/L			NXL1	09/22/23	1016	2488604	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.466	+/-0.269	0.337	+/-0.280	1.00	pCi/L			LXP1	09/20/23	0819	2482017	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"	2494433	92.7	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

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

Certificate of Analysis

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

Atlanta, Georgia 30308 Report Date: September 22, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPE-R

Client Sample ID: BRA-BRGWC-34S
Sample ID: 634443003
Matrix: WG
Collect Date: 22-AUG-23
Receive Date: 23-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.558	+/-0.907	1.58	+/-0.918	3.00	pCi/L			JE1	09/22/23	0822	2494433	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	1.06	+/-0.955	1.58	+/-0.973		pCi/L			NXL1	09/22/23	1016	2488604	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.499	+/-0.299	0.393	+/-0.321	1.00	pCi/L			LXP1	09/20/23	0819	2482017	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"	2494433	90.2	(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

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

Certificate of Analysis

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

Atlanta, Georgia 30308 Report Date: September 22, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPE-R

Client Sample ID: BRA-APE-FB-07
Sample ID: 634443004
Matrix: WQ
Collect Date: 22-AUG-23
Receive Date: 23-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.169	+/-0.878	1.62	+/-0.879	3.00	pCi/L			JE1	09/22/23	0822	2494433	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	0.546	+/-0.912	1.62	+/-0.916		pCi/L			NXL1	09/22/23	1016	2488604	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.377	+/-0.246	0.301	+/-0.256	1.00	pCi/L			LXP1	09/20/23	0820	2482017	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"	2494433	83.7	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

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

Certificate of Analysis

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

Atlanta, Georgia 30308 Report Date: September 22, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPE-R

Client Sample ID: BRA-BRGWC-37S
Sample ID: 634443005
Matrix: WG
Collect Date: 22-AUG-23
Receive Date: 23-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	-0.458	+/-0.719	1.50	+/-0.720	3.00	pCi/L			JE1	09/22/23	0822	2494433	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	0.578	+/-0.770	1.50	+/-0.781		pCi/L			NXL1	09/22/23	1016	2488604	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.578	+/-0.274	0.309	+/-0.303	1.00	pCi/L			LXP1	09/20/23	0820	2482017	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"	2494433	87.6	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

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

Certificate of Analysis

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

Atlanta, Georgia 30308 Report Date: September 22, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPE-R

Client Sample ID: BRA-PZ-13S
Sample ID: 634443006
Matrix: WG
Collect Date: 22-AUG-23
Receive Date: 23-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.273	+/-1.08	1.97	+/-1.08	3.00	pCi/L			JE1	09/22/23	0822	2494433	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	0.823	+/-1.12	1.97	+/-1.12		pCi/L			NXL1	09/22/23	1016	2488604	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.550	+/-0.277	0.335	+/-0.300	1.00	pCi/L			LXP1	09/20/23	0820	2482017	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"	2494433	72.5	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

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: 634648 GEL Work Order: 634648

The Qualifiers in this report are defined as follows:

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

** Analyte is a Tracer compound

** Analyte is a surrogate compound

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

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

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

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

Reviewed by Erin B. Trent

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

Certificate of Analysis

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

Atlanta, Georgia 30308 Report Date: September 20, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPE-R

Client Sample ID: BRA-BRGWC-17S
Sample ID: 634648001
Matrix: WG
Collect Date: 23-AUG-23
Receive Date: 24-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.78	+/-1.48	2.33	+/-1.55	3.00	pCi/L			JE1	09/18/23	1426	2485947	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	1.92	+/-1.50	2.33	+/-1.57		pCi/L		1	NXL1	09/20/23	1401	2485949	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.139	+/-0.249	0.448	+/-0.250	1.00	pCi/L			LXP1	09/20/23	0926	2485948	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"	2485947	59.7	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

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Certificate of Analysis

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

Atlanta, Georgia 30308 Report Date: September 20, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPE-R

Client Sample ID: BRA-BRGWC-35S
Sample ID: 634648002
Matrix: WG
Collect Date: 23-AUG-23
Receive Date: 24-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		2.78	+/-1.27	1.59	+/-1.45	3.00	pCi/L			JE1	09/18/23	1141	2485947	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		3.33	+/-1.29	1.59	+/-1.48		pCi/L		1	NXL1	09/20/23	1401	2485949	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.546	+/-0.248	0.238	+/-0.263	1.00	pCi/L			LXP1	09/20/23	0926	2485948	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"	2485947	56.5	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

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Certificate of Analysis

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

Atlanta, Georgia 30308 Report Date: September 20, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPE-R

Client Sample ID: BRA-BRGWC-36S
Sample ID: 634648003
Matrix: WG
Collect Date: 23-AUG-23
Receive Date: 24-AUG-23
Collector: Client

Project: GPCC00101
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		3.28	+/-1.66	2.40	+/-1.86	3.00	pCi/L			JE1	09/18/23	1141	2485947	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		3.87	+/-1.69	2.40	+/-1.89		pCi/L		1	NXL1	09/20/23	1401	2485949	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.594	+/-0.297	0.328	+/-0.313	1.00	pCi/L			LXP1	09/20/23	0926	2485948	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"	2485947	57.9	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

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Certificate of Analysis

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

Atlanta, Georgia 30308 Report Date: September 20, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPE-R

Client Sample ID: BRA-BRGWC-38S
Sample ID: 634648004
Matrix: WG
Collect Date: 23-AUG-23
Receive Date: 24-AUG-23
Collector: Client

Project: GPCC00101
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		5.37	+/-2.03	2.73	+/-2.45	3.00	pCi/L			JE1	09/20/23	0823	2485947	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		5.98	+/-2.05	2.73	+/-2.47		pCi/L		1	NXL1	09/20/23	1401	2485949	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.610	+/-0.288	0.246	+/-0.307	1.00	pCi/L			LXP1	09/20/23	0926	2485948	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"	2485947	51.8	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

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Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
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Atlanta, Georgia 30308 Report Date: September 20, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPE-R

Client Sample ID: BRA-PZ-70I
Sample ID: 634648005
Matrix: WG
Collect Date: 23-AUG-23
Receive Date: 24-AUG-23
Collector: Client

Project: GPCC00101
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		3.70	+/-1.64	2.30	+/-1.89	3.00	pCi/L			JE1	09/18/23	1143	2485947	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		4.35	+/-1.67	2.30	+/-1.92		pCi/L		1	NXL1	09/20/23	1401	2485949	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.655	+/-0.330	0.410	+/-0.354	1.00	pCi/L			LXP1	09/20/23	0958	2485948	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"	2485947	59.4	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

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Atlanta, Georgia 30308 Report Date: September 20, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPE-R

Client Sample ID: BRA-APE-FD-05
Sample ID: 634648006
Matrix: WG
Collect Date: 23-AUG-23
Receive Date: 24-AUG-23
Collector: Client

Project: GPCC00101
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		4.09	+/-1.67	2.27	+/-1.97	3.00	pCi/L			JE1	09/18/23	1143	2485947	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		4.65	+/-1.69	2.27	+/-1.99		pCi/L		1	NXL1	09/20/23	1401	2485949	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.559	+/-0.250	0.204	+/-0.281	1.00	pCi/L			LXP1	09/20/23	0958	2485948	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"	2485947	58.9	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

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Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
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Atlanta, Georgia 30308 Report Date: September 20, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPE-R

Client Sample ID: BRA-APE-FB-08
Sample ID: 634648007
Matrix: WQ
Collect Date: 23-AUG-23
Receive Date: 24-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	2.26	+/-1.55	2.41	+/-1.65	3.00	pCi/L			JE1	09/20/23	0823	2485947	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.50	+/-1.56	2.41	+/-1.67		pCi/L		1	NXL1	09/20/23	1401	2485949	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.247	+/-0.194	0.263	+/-0.201	1.00	pCi/L			LXP1	09/20/23	0958	2485948	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"	2485947	55.4	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

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Certificate of Analysis

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

Atlanta, Georgia 30308 Report Date: September 20, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPE-R

Client Sample ID: BRA-APE-EB-09
Sample ID: 634648008
Matrix: WQ
Collect Date: 23-AUG-23
Receive Date: 24-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	2.20	+/-1.48	2.28	+/-1.59	3.00	pCi/L			JE1	09/20/23	0823	2485947	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.86	+/-1.52	2.28	+/-1.63		pCi/L		1	NXL1	09/20/23	1401	2485949	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.662	+/-0.366	0.483	+/-0.384	1.00	pCi/L			LXP1	09/20/23	0958	2485948	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"	2485947	57.5	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

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Certificate of Analysis

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

Atlanta, Georgia 30308 Report Date: September 20, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPE-R

Client Sample ID: BRA-APE-EB-10
Sample ID: 634648009
Matrix: WQ
Collect Date: 23-AUG-23
Receive Date: 24-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.46	+/-1.15	1.79	+/-1.21	3.00	pCi/L			JE1	09/18/23	1142	2485947	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	1.62	+/-1.17	1.79	+/-1.23		pCi/L		1	NXL1	09/20/23	1401	2485949	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.162	+/-0.225	0.390	+/-0.228	1.00	pCi/L			LXP1	09/20/23	0958	2485948	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"	2485947	57.2	(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

QC Summary

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

Atlanta, Georgia

Contact: **Joju Abraham**

Workorder: **634443**

Report Date: September 22, 2023

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gas Flow										
Batch 2494433										
QC1205520856 634443001 DUP										
Radium-228	U	0.119	U	1.16	pCi/L	0		N/A	JE1	09/22/2308:46
	Uncert:	+/-0.702		+/-0.838						
	TPU:	+/-0.702		+/-0.891						
QC1205520857 LCS										
Radium-228	75.6			76.2	pCi/L		101	(75%-125%)	JE1	09/22/2308:46
	Uncert:			+/-4.33						
	TPU:			+/-19.9						
QC1205520855 MB										
Radium-228				1.38	pCi/L				JE1	09/22/2308:46
	Uncert:			+/-0.802						
	TPU:			+/-0.875						
Rad Ra-226										
Batch 2482017										
QC1205498038 634443001 DUP										
Radium-226	U	0.401	U	0.170	pCi/L	0		N/A	LXP1	09/20/2309:26
	Uncert:	+/-0.326		+/-0.249						
	TPU:	+/-0.337		+/-0.251						
QC1205498040 LCS										
Radium-226	26.9			33.3	pCi/L		124	(75%-125%)	LXP1	09/20/2309:26
	Uncert:			+/-2.02						
	TPU:			+/-5.55						
QC1205498037 MB										
Radium-226			U	0.142	pCi/L				LXP1	09/20/2309:26
	Uncert:			+/-0.184						
	TPU:			+/-0.188						
QC1205498039 634443001 MS										
Radium-226	137 U	0.401		103	pCi/L		75.1	(75%-125%)	LXP1	09/20/2309:26
	Uncert:	+/-0.326		+/-7.23						
	TPU:	+/-0.337		+/-17.8						

Notes:

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

The Qualifiers in this report are defined as follows:

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

QC Summary

Workorder: **634443**

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

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

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

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

QC Summary

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

Atlanta, Georgia

Contact: **Joju Abraham**

Workorder: **634648**

Report Date: September 20, 2023

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gas Flow										
Batch 2485947										
QC1205505245 634648001 DUP										
Radium-228	U	1.78		3.83	pCi/L	72.8		(0% - 100%)	JE1	09/18/2314:26
	Uncert:	+/-1.48		+/-1.84						
	TPU:	+/-1.55		+/-2.09						
QC1205505246 LCS										
Radium-228	78.3			73.1	pCi/L		93.4	(75%-125%)	JE1	09/18/2311:42
	Uncert:			+/-5.15						
	TPU:			+/-19.6						
QC1205505244 MB										
Radium-228			U	2.08	pCi/L				JE1	09/18/2314:26
	Uncert:			+/-1.45						
	TPU:			+/-1.54						
Rad Ra-226										
Batch 2485948										
QC1205505248 634648001 DUP										
Radium-226	U	0.139	U	0.237	pCi/L	0		N/A	LXP1	09/20/2309:58
	Uncert:	+/-0.249		+/-0.233						
	TPU:	+/-0.250		+/-0.238						
QC1205505250 LCS										
Radium-226	26.9			27.4	pCi/L		102	(75%-125%)	LXP1	09/20/2310:30
	Uncert:			+/-1.80						
	TPU:			+/-4.71						
QC1205505247 MB										
Radium-226			U	0.316	pCi/L				LXP1	09/20/2309:58
	Uncert:			+/-0.263						
	TPU:			+/-0.271						
QC1205505249 634648001 MS										
Radium-226	122 U	0.139		91.7	pCi/L		75.1	(75%-125%)	LXP1	09/20/2309:58
	Uncert:	+/-0.249		+/-6.79						
	TPU:	+/-0.250		+/-18.5						

Notes:

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

The Qualifiers in this report are defined as follows:

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

QC Summary

Workorder: **634648**

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

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

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

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

Radiochemistry
Technical Case Narrative
Georgia Power Company
SDG #: 634443

Product: **Radium-226+Radium-228 Calculation**
Analytical Method: Calculation
Analytical Procedure: GL-RAD-D-003 REV# 45
Analytical Batch: 2488604

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

GEL Sample ID#	Client Sample Identification
634443001	BRA-BRGWC-33S
634443002	BRA-APE-FD-04
634443003	BRA-BRGWC-34S
634443004	BRA-APE-FB-07
634443005	BRA-BRGWC-37S
634443006	BRA-PZ-13S

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: 2494433

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

GEL Sample ID#	Client Sample Identification
634443001	BRA-BRGWC-33S
634443002	BRA-APE-FD-04
634443003	BRA-BRGWC-34S
634443004	BRA-APE-FB-07
634443005	BRA-BRGWC-37S
634443006	BRA-PZ-13S
1205520855	Method Blank (MB)
1205520856	634443001(BRA-BRGWC-33S) Sample Duplicate (DUP)
1205520857	Laboratory Control Sample (LCS)

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

Data Summary:

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

Quality Control (QC) Information

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

Sample	Analyte	Value
1205520855 (MB)	Radium-228	Result: 1.38 pCi/L > MDA: 1.13 pCi/L <= RDL: 3.00 pCi/L

Technical Information

Sample Re-prep/Re-analysis
Samples were reprepped due to high relative percent difference/relative error ratio. The re-analysis is being reported.

Product: **Lucas Cell, Ra226, Liquid**
Analytical Method: EPA 903.1 Modified
Analytical Procedure: GL-RAD-A-008 REV# 15
Analytical Batch: 2482017

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

GEL Sample ID#	Client Sample Identification
634443001	BRA-BRGWC-33S
634443002	BRA-APE-FD-04
634443003	BRA-BRGWC-34S
634443004	BRA-APE-FB-07
634443005	BRA-BRGWC-37S
634443006	BRA-PZ-13S
1205498037	Method Blank (MB)
1205498038	634443001(BRA-BRGWC-33S) Sample Duplicate (DUP)
1205498039	634443001(BRA-BRGWC-33S) Matrix Spike (MS)
1205498040	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, 1205498039 (BRA-BRGWC-33SMS), 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.

Radiochemistry
Technical Case Narrative
Georgia Power Company
SDG #: 634648

Product: **Radium-226+Radium-228 Calculation**
Analytical Method: Calculation
Analytical Procedure: GL-RAD-D-003 REV# 45
Analytical Batch: 2485949

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

GEL Sample ID#	Client Sample Identification
634648001	BRA-BRGWC-17S
634648002	BRA-BRGWC-35S
634648003	BRA-BRGWC-36S
634648004	BRA-BRGWC-38S
634648005	BRA-PZ-70I
634648006	BRA-APE-FD-05
634648007	BRA-APE-FB-08
634648008	BRA-APE-EB-09
634648009	BRA-APE-EB-10

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: 2485947

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

GEL Sample ID#	Client Sample Identification
634648001	BRA-BRGWC-17S
634648002	BRA-BRGWC-35S
634648003	BRA-BRGWC-36S
634648004	BRA-BRGWC-38S
634648005	BRA-PZ-70I
634648006	BRA-APE-FD-05
634648007	BRA-APE-FB-08
634648008	BRA-APE-EB-09
634648009	BRA-APE-EB-10
1205505244	Method Blank (MB)

1205505245	634648001(BRA-BRGWC-17S) Sample Duplicate (DUP)
1205505246	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 1205505244 (MB) was recounted due to a suspected blank false positive. The recount is reported. Samples 1205505245 (BRA-BRGWC-17SDUP) and 634648001 (BRA-BRGWC-17S) were recounted due to high relative percent difference/relative error ratio. The recounts are reported. Samples 634648004 (BRA-BRGWC-38S), 634648007 (BRA-APE-FB-08) and 634648008 (BRA-APE-EB-09) were re-eluted and recounted to verify sample results. The recounts are reported.

Product: **Lucas Cell, Ra226, Liquid**
Analytical Method: EPA 903.1 Modified
Analytical Procedure: GL-RAD-A-008 REV# 15
Analytical Batch: 2485948

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

GEL Sample ID#	Client Sample Identification
634648001	BRA-BRGWC-17S
634648002	BRA-BRGWC-35S
634648003	BRA-BRGWC-36S
634648004	BRA-BRGWC-38S
634648005	BRA-PZ-70I
634648006	BRA-APE-FD-05
634648007	BRA-APE-FB-08
634648008	BRA-APE-EB-09
634648009	BRA-APE-EB-10
1205505247	Method Blank (MB)
1205505248	634648001(BRA-BRGWC-17S) Sample Duplicate (DUP)
1205505249	634648001(BRA-BRGWC-17S) Matrix Spike (MS)
1205505250	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, 1205505249 (BRA-BRGWC-17SMS), 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.

634441 634443

Page: 1 of 1
Project #:
GEL Quote #:
COC Number (1):
PO Number:

GEL Laboratories LLC

gel.com | Chemistry | Radiochemistry | Radiobioassay | 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

Client Name: GA Power | Phone #: 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - E | Fax #:
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: T. Gable/D. Taylor ACC | Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested (8) (Fill in the number of containers for each test)

Sample ID (* Use composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (Hr:Min)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Hazardous (If yes, please specify sample info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS, NO3 EPA 300, SM 2540C	Total Carb. & Dissolved SM 2320B	Metals* EPA 6020, 6010, 7470	Radium 226 & 228 SW-846 9315, 9320	Sulfide SM 4500	<-- Preservative Type (6)
BRA- GWC-335	08/22/23	1210	G	N	WG	N	N	8	✓	✓	✓	✓	✓	
BRA- APE-FD-04	08/22/23	—	G	N	WG	N	N	8	✓	✓	✓	✓	✓	
BRA- GWC-345	08/22/23	1435	G	N	WG	N	N	8	✓	✓	✓	✓	✓	
BRA- APE-FB-07	08/22/23	1510	G	N	WQ	N	N	8	✓	✓	✓	✓	✓	
BRA- BRGWC-375	08/22/23	1651	G	N	WG	N	N	8	✓	✓	✓	✓	✓	
BRA- PZ-135	08/22/23	1647	G	N	WG	N	N	8	✓	✓	✓	✓	✓	
BRA-														
BRA-														
BRA-														
BRA-														

Comments
Note: extra sample is required for sample specific QC
Task_Code: BRA-CCR-ASSMT-202352

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received By (signed)	Date	Time
1		8-23-23	0825		8/23/23	0825
2		8/23/23	0832		8/23/23	832
3		8/23/23	100		8/23/23	1300

TAT Requested: Normal: X Rush: ____ Specify: ____ (Subject to Surcharge)
Fax Results: [ ] Yes [X] No
Select Deliverable: [ ] C of A [ ] QC Summary [ ] Level 1 [X] Level 2 [ ] Level 3 [ ] Level 4
Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mn,Se,Tl,Fe,Mg,Mo,K,Na,Hg
For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No *Cooler Temp:* ____ °C
> For sample shipping and delivery details, see Sample Receipt & Review form (SRR).
Sample Collection Time Zone: [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

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

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

4.) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 2, 6010B/7470A - 1).

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

7.) KNOWN OR POSSIBLE HAZARDS

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

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

TSCA Regulated
PCB = Polychlorinated biphenyls

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

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other toxic, 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.)

634444 634643
634448 634447
634443 634450
634441 634444
634446

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: CLP	SDG/AR/COC/Work Order:
Received By: MVH	Date Received: 8-25-2023
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other

Cooler 2-3°c Cooler 4-1°c Cooler 6-1°c
Cooler 1-2°c Cooler 3-1°c Cooler 5-2°c

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

Sample Receipt Criteria		Yes	No	NA	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping container/cooler received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)*	✓			Preservation Method: Wet Ice Ice Packs Dry Ice None Other: *All temperatures are recorded in Celsius TEMP:
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: 09251 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?			✓	Sample ID's and Containers Affected: BRA-P2-GII, BRA-BRGWA-5I, BRA-BRGWA-23S, Preservation added: (Lot#)
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for soil(s)? Yes__ No__ NA__ (If yes, refer to VOA Planner) Is Liquid VOA vials free of air or headspace? Yes__ No__ NA__ (If answer is "no", select No) Are Liquid VOA vials free of Headspace? Yes__ No__ NA__ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as CEL provided by use of CEL labels?	✓			
13	COC forms properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):
BRA-P2-BS, BRA-BRGWA-2S, BRA-BRGWA-6S, BRA-BRGWC-32S, BRA-BRGWA-2I, BRA-BRGWC-37S, BRA-BRGWC-34S, BRA-BRGWC-30I Sulfide samples didn't hold proper preservation.

PM (or PMA) review: Initials AT Date 8/25/23 Page 1 of 1

GL-CHL-SR-001 Rev7

634648

Page: 1 of 1
Project #:
GEL Quote #:
COC Number (3):
PO Number:

GEL Laboratories LLC 634615

Chemistry | Radiochemistry | Radioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trout*

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

Client Name: GA Power
Phone # 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - E
Fax #
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: T. Goode, D. Johnson, ACC
Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested (9) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (Hours)	QC Code (1)	Field Filtered (2)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS, NO3 EPA 300, SM 2540C	Total, Ca+, & Black Alk SM 2320B	Metals* EPA 6020, 6010, 7470	Radium 226 & 228 SW 846 9315, 9320	Sulfide SM 4500	<-- Preservative Type (6)	Comments
BRA-BPGWC-175	08/23/23	1405	G	N	WG	N	N	4	✓	✓	✓	✓	✓		Note: extra sample is required for sample specific QC Task_Code: BRA-CCR-ASSMT-2023S2
BRA-BPGWC-355	08/23/23	1201	G	N	WG	N	N	4	✓	✓	✓	✓	✓		
BRA-BAGWC-360	08/23/23	1556	G	N	WG	N	N	4	✓	✓	✓	✓	✓		
BRA-BPGWC-385	08/23/23	1212	G	N	WG	N	N	4	✓	✓	✓	✓	✓		
BRA-PZ-52D	08/23/23	1346	G	N	WG	N	N	5	✓	✓	✓		✓		
BRA-PZ-70I	08/23/23	1612	G	N	WG	N	N	4	✓	✓	✓	✓	✓		
BRA-APE-FD-05	08/23/23	—	G	N	WG	N	N	4	✓	✓	✓	✓	✓		
BRA-APE-FB-08	08/23/23	1630	G	N	WQ	N	N	3	✓	✓	✓	✓	✓		
BRA-APE-EB-09	08/23/23	1645	G	N	WQ	N	N	3	✓	✓	✓	✓	✓		
BRA-APE-EB-10	08/23/23	1315	G	N	WQ	N	N	3	✓	✓	✓	✓	✓		

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	Taylor Goode	8-24-23	0940		8/24/23	840
2		8/24/23	1243		8/24/23	1243
3				3		

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

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

Fax Results: [ ] Yes [x] No

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

Additional Remarks: * Metals: B, Ca, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl, Pu, Mg, Mn, K, Na, Hg

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

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

1.) Chain of Custody Number = Client Determined

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

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

4.) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix

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, EX = 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, ME = Misc. RCRA metals
Pb = Lead

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

TSCA Regulated
PCB = Polychlorinated biphenyls

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

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

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

634448 634643
634652 634650
634649
634648 634615

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: LaPCC	SDG/ARCOC/Work Order:
Received By: EG	Date Received: 8.24.23
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other
	Cooler 1 - 3° Cooler 3 - 3° Cooler 2 - 3° Cooler 4 - 2° Cooler 5 - 3°

Suspected Hazard Information	Yes	No	If "Yes" or "No" to any of the following, contact the Radiation Safety Group for further investigation.
A) Shipped as a DOT Hazardous?		✓	Hazard Class/Shipping Name: UN/NA #: Was the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): ___ Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?		✓	
E) Did the RSO identify possible hazards?		✓	If "Yes" to E, what was identified: DOT/IATA Flammable Poison Inhalation Hazard Oxidizer Other

Sample Receipt Criteria	Yes	No	NA	Comments/Qualifiers (Required for Non-Conforming Items)
1 Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2 Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3 Samples requiring cold preservation within (0 < 6 deg. C)*	✓			Preservation Method: Wet Ice Ice Packs Dry Ice Water Other TEMP: See comments above & below for temps All temps are recorded in Celsius
4 Daily check performed and passed on IR temperature gun?	✓			Thermometer ID/Correction Factor: 18/+0.1 Secondary Temperature Device Serial #: (If Applicable)
5 Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6 Samples requiring chemical preservation at proper pH?			✓	Sample ID's and Containers Affected: See continuation form
7 Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Bulk Kits present for soils? Yes___ No___ NA___ (If yes, also fill VOA Survey) Do any VOA Vials contain Headspace? Yes___ No___ NA___ (Encores will not have) Are Trip Blank VOA Vials free of headspace? Yes___ No___ NA___ Bubble Size must not exceed 6mm
8 Samples received within holding time?	✓			ID's and Tests Affected:
9 Sample ID's on COC match ID's on bottles?	✓			ID's and containers Affected:
10 Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11 Number of containers received match number indicated on COC?	✓			Circle Applicable: No containers received per COC Other (describe)
12 Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13 COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

Cooler 6-1
Cooler 7-2
Cooler 8-4
Cooler 9-1

PM (or PMA) review: Initials AT Date 8/28/23 Page 1 of 3

GL-CHL-SR-001 Rev 7

GEL | Laboratories LLC SAMPLE RECEIPT & REVIEW CONTINUATION FORM

Client: GPCC Received By: EG Date Received: 8/24/23 COC/Work Order: _____

BRA-P2-511
BRA-P2-591
BRA-BRGWC-353
BRA-BRGWC-365
BRA-APE-FB-07
BRA-P2-601
BRA-P2-581
BRA-P2-631
BRA-BRGWC-385
BRA-P2-641
BRA-P2-681
BRA-APBCD-FD-02
BRA-P2-500
BRA-BRGWC-50
BRA-APE-FD-05
↳ containers for sodium hydroxide/zinc acetate did not hold preservation. Were preserved & placed in 24 hr hold preservation

PM (or PMA) review: Initials AT Date 8/28/23 Page 2 of 2

List of current GEL Certifications as of 20 September 2023

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122023-4
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2022-160
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-23-21
Utah NELAP	SC000122022-37
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

September 22, 2023

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

Re: Branch CCR Groundwater Compliance Upgradient-R
Work Order: 634450

Dear Joju Abraham:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on August 23, 2023. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

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

Laboratory ID	Client ID	Matrix	Date Collected	Date Recieved
634450001	BRA-BRGWA-2S	Ground Water	22/08/23 10:06	23/08/23 13:00
634450002	BRA-BRGWA-5S	Ground Water	22/08/23 10:05	23/08/23 13:00
634450003	BRA-BRGWA-5I	Ground Water	22/08/23 10:10	23/08/23 13:00
634450004	BRA-BRGWA-6S	Ground Water	22/08/23 10:15	23/08/23 13:00
634450005	BRA-BRGWA-2I	Ground Water	22/08/23 10:12	23/08/23 13:00

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

Prep Methods and Prep Dates

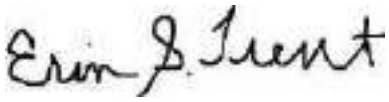
Not Applicable

Analysis Methods and Analysis Dates

Method	Run Date ID
Calculation	22-SEP-2023
EPA 903.1 Modified	20-SEP-2023
EPA 904.0/SW846 9320 Modified	05-SEP-2023
EPA 904.0/SW846 9320 Modified	22-SEP-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,



Erin Trent
Project Manager

Purchase Order: GPC82177-0006
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: 634450 GEL Work Order: 634450

The Qualifiers in this report are defined as follows:

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

** Analyte is a Tracer compound

** Analyte is a surrogate compound

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

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

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

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

Reviewed by Erin B. Trent

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

Certificate of Analysis

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

Atlanta, Georgia 30308 Report Date: September 22, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceUpgradient-R

Client Sample ID: BRA-BRGWA-2S
Sample ID: 634450001
Matrix: WG
Collect Date: 22-AUG-23
Receive Date: 23-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.216	+/-0.967	1.76	+/-0.969	3.00	pCi/L			JE1	09/22/23	0847	2494433	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	0.592	+/-0.998	1.76	+/-1.00		pCi/L			NXL1	09/22/23	1016	2488604	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.377	+/-0.246	0.301	+/-0.257	1.00	pCi/L			LXP1	09/20/23	0852	2482017	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"	2494433	91.3	(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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2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

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

Atlanta, Georgia 30308 Report Date: September 22, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceUpgradient-R

Client Sample ID: BRA-BRGWA-5S
Sample ID: 634450002
Matrix: WG
Collect Date: 22-AUG-23
Receive Date: 23-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.19	+/-1.05	1.70	+/-1.09	3.00	pCi/L			JE1	09/22/23	0847	2494433	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	1.31	+/-1.06	1.70	+/-1.11		pCi/L			NXL1	09/22/23	1016	2488604	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.119	+/-0.181	0.320	+/-0.183	1.00	pCi/L			LXP1	09/20/23	0852	2482017	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"	2494433	82.3	(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

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: September 22, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceUpgradient-R

Client Sample ID: BRA-BRGWA-5I
Sample ID: 634450003
Matrix: WG
Collect Date: 22-AUG-23
Receive Date: 23-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.862	+/-0.810	1.30	+/-0.839	3.00	pCi/L			JE1	09/22/23	0847	2494433	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		1.36	+/-0.850	1.30	+/-0.884		pCi/L			NXL1	09/22/23	1016	2488604	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.501	+/-0.260	0.308	+/-0.277	1.00	pCi/L			LXP1	09/20/23	0852	2482017	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"	2494433	79.1	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

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

Certificate of Analysis

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

Atlanta, Georgia 30308 Report Date: September 22, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceUpgradient-R

Client Sample ID: BRA-BRGWA-6S
Sample ID: 634450004
Matrix: WG
Collect Date: 22-AUG-23
Receive Date: 23-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.62	+/-1.32	2.15	+/-1.39	3.00	pCi/L			JE1	09/22/23	0847	2494433	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	1.89	+/-1.34	2.15	+/-1.41		pCi/L			NXL1	09/22/23	1016	2488604	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.271	+/-0.238	0.364	+/-0.243	1.00	pCi/L			LXP1	09/20/23	0852	2482017	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"	2494433	90	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

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

Certificate of Analysis

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

Atlanta, Georgia 30308 Report Date: September 22, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceUpgradient-R

Client Sample ID: BRA-BRGWA-2I
Sample ID: 634450005
Matrix: WG
Collect Date: 22-AUG-23
Receive Date: 23-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.367	+/-0.729	1.31	+/-0.735	3.00	pCi/L			JE1	09/22/23	0847	2494433	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	0.857	+/-0.777	1.31	+/-0.788		pCi/L			NXL1	09/22/23	1016	2488604	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.490	+/-0.269	0.294	+/-0.284	1.00	pCi/L			LXP1	09/20/23	0852	2482017	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"	2494433	87.2	(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

Product: **Radium-226+Radium-228 Calculation**
Analytical Method: Calculation
Analytical Procedure: GL-RAD-D-003 REV# 45
Analytical Batch: 2488604

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

GEL Sample ID#	Client Sample Identification
634450001	BRA-BRGWA-2S
634450002	BRA-BRGWA-5S
634450003	BRA-BRGWA-5I
634450004	BRA-BRGWA-6S
634450005	BRA-BRGWA-2I

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: 2494433

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

GEL Sample ID#	Client Sample Identification
634450001	BRA-BRGWA-2S
634450002	BRA-BRGWA-5S
634450003	BRA-BRGWA-5I
634450004	BRA-BRGWA-6S
634450005	BRA-BRGWA-2I
1205520855	Method Blank (MB)
1205520856	634443001(BRA-BRGWC-33S) Sample Duplicate (DUP)
1205520857	Laboratory Control Sample (LCS)

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

Data Summary:

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

applicable, with the following exceptions.

Quality Control (QC) Information

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

Sample	Analyte	Value
1205520855 (MB)	Radium-228	Result: 1.38 pCi/L > MDA: 1.13 pCi/L <= RDL: 3.00 pCi/L

Technical Information

Sample Re-prep/Re-analysis
Samples were reprepped due to high relative percent difference/relative error ratio. The re-analysis is being reported.

Product: **Lucas Cell, Ra226, Liquid**
Analytical Method: EPA 903.1 Modified
Analytical Procedure: GL-RAD-A-008 REV# 15
Analytical Batch: 2482017

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

GEL Sample ID#	Client Sample Identification
634450001	BRA-BRGWA-2S
634450002	BRA-BRGWA-5S
634450003	BRA-BRGWA-5I
634450004	BRA-BRGWA-6S
634450005	BRA-BRGWA-2I
1205498037	Method Blank (MB)
1205498038	634443001(BRA-BRGWC-33S) Sample Duplicate (DUP)
1205498039	634443001(BRA-BRGWC-33S) Matrix Spike (MS)
1205498040	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, 1205498039 (BRA-BRGWC-33SMS), aliquot was reduced to conserve sample volume.

Certification Statement

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

QC Summary

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

Atlanta, Georgia

Contact: **Joju Abraham**

Workorder: **634450**

Report Date: September 22, 2023

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gas Flow										
Batch 2494433										
QC1205520856 634443001 DUP										
Radium-228	U	0.119	U	1.16	pCi/L	0		N/A	JE1	09/22/2308:46
	Uncert:	+/-0.702		+/-0.838						
	TPU:	+/-0.702		+/-0.891						
QC1205520857 LCS										
Radium-228	75.6			76.2	pCi/L		101	(75%-125%)	JE1	09/22/2308:46
	Uncert:			+/-4.33						
	TPU:			+/-19.9						
QC1205520855 MB										
Radium-228				1.38	pCi/L				JE1	09/22/2308:46
	Uncert:			+/-0.802						
	TPU:			+/-0.875						
Rad Ra-226										
Batch 2482017										
QC1205498038 634443001 DUP										
Radium-226	U	0.401	U	0.170	pCi/L	0		N/A	LXP1	09/20/2309:26
	Uncert:	+/-0.326		+/-0.249						
	TPU:	+/-0.337		+/-0.251						
QC1205498040 LCS										
Radium-226	26.9			33.3	pCi/L		124	(75%-125%)	LXP1	09/20/2309:26
	Uncert:			+/-2.02						
	TPU:			+/-5.55						
QC1205498037 MB										
Radium-226			U	0.142	pCi/L				LXP1	09/20/2309:26
	Uncert:			+/-0.184						
	TPU:			+/-0.188						
QC1205498039 634443001 MS										
Radium-226	137 U	0.401		103	pCi/L		75.1	(75%-125%)	LXP1	09/20/2309:26
	Uncert:	+/-0.326		+/-7.23						
	TPU:	+/-0.337		+/-17.8						

Notes:

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

The Qualifiers in this report are defined as follows:

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

QC Summary

Workorder: **634450**

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

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

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

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

634447 634450

Page: ____ of ____
Project #
GEL Quote #:
COC Number (1):
PO Number:

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

Client Name: GA Power | Phone #: 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - Upgradient | Fax #:
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: B, Bryant ACC | Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested (3) (Fill in the number of containers for each test)

Sample ID (* For composites – indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: (1) (Radioactive (yes, please supply sample info.))	(2) (Known or possible Hazards)	Total number of containers	Cl, F, SO4, TDS, NO3 EPA 300; SM 4500C	Total Carb. & Bicarb Alk SM 2320	NI Metals * EPA 6020, 6010, 7470	NI Radium 226 & 228 SW 846 9315, 9320	Be,Ba SM 4500	<-- Preservative Type (6)
BRA-BRGWA-25	08/22/23	1006	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-BLGWA-55	08/22/23	1005	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-BRGWA-51	08/22/23	1010	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-BRGWA-65	08/22/23	1015	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-BRGWA-21	08/22/23	1012	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-														
BRA-														
BRA-														
BRA-														
BRA-														

Comments
Note: extra sample is required for sample specific QC
Task Code: BRA-CCR-ASSMT-2023S2

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1		8/23/23	0832		8/23/23	832
2		8/23/23	1:00		8/23/23	1300
3						

TAT Requested: Normal: x Rush: ____ Specify: ____ (Subject to Surcharge)
Fax Results: [ ] Yes [x] No
Select Deliverable: [ ] C of A [ ] QC Summary [ ] Level I [x] Level 2 [ ] Level 3 [ ] Level 4
Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg
For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No Cooler Temp: ____ °C
> For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)
Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

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

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

4.) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SS=Solid, SL=Sludge, WQ=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 6260B = 3, 6010B/7470A = 1).

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

7.) KNOWN OR POSSIBLE HAZARDS

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

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

TSCA Regulated
PCB = Polychlorinated biphenyls

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

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

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

~~634444~~ 634643
634448 634447
634443 634450
634441 634444
~~634445~~

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: CHG

Received By: MVH

SDG/AR/COC/Work Order:

Date Received: 8/26/2023

Carrier and Tracking Number: FedEx Express / FedEx Ground / UPS / Field Service / Courier / Other

COOLER 2-3°C COOLER 4-1°C COOLER 6-1°C
COOLER 1-2°C COOLER 3-1°C COOLER 5-2°C

Receipt Discrepancies	Yes	No
Adequately on DOT Shipping?		✓
Did the client designate the samples are to be received as radioactive?		✓
Did the RSO classify the samples as radioactive?		✓
Did the client have any unusual requests or instructions?		✓
Did the RSO identify possible hazards?		✓

Sample Receipt Checklist	Yes	N/A	No
1 Shipping containers received intact and sealed?	✓		
2 Chain of custody documents included with shipment?	✓		
3 Samples requiring cold preservation within (0 ≤ 6 deg. C)*	✓		
4 Daily check performed and passed on IR temperature gun?	✓		
5 Sample containers intact and sealed?	✓		
6 Samples requiring chemical preservation at proper pH?			✓
7 Do any samples require Volatile Analysis?			✓
8 Samples received within holding time?	✓		
9 Sample ID's on COC match ID's on bottles?	✓		
10 Date & time on COC match date & time on bottles?	✓		
11 Number of containers received match number indicated on COC?	✓		
12 Are sample containers identifiable as GEL provided by use of GEL labels?	✓		
13 COC form is properly signed in relinquished/received sections?	✓		

6 Comments: BRA-D2-BS, BRA-BRGWA-2S, BRA-BRGWA-6S, BRA-BRGWC-32S, BRA-BRGWA-3I, BRA-BRGWC-07S, BRA-BRGWC-34S, BRA-BRGWC-30I Sulfide samples didn't hold proper preservation.

PM (or PMA) review: Initials MH Date 8/28/23 Page 1 of 1

GL-CHL-SR-001 Rev 7

List of current GEL Certifications as of 22 September 2023

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122023-4
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2022-160
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-23-21
Utah NELAP	SC000122022-37
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

September 22, 2023

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

Re: Branch CCR Groundwater Compliance APE-R
Work Orders: 634443 and 634648

Dear Joju Abraham:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on August 23, 2023 and August 24, 2023. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

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

Laboratory ID	Client ID	Matrix	Date Collected	Date Recieved
634443001	BRA-BRGWC-33S	Ground Water	22/08/23 12:10	23/08/23 13:00
634443002	BRA-APE-FD-04	Ground Water	22/08/23 12:00	23/08/23 13:00
634443003	BRA-BRGWC-34S	Ground Water	22/08/23 14:35	23/08/23 13:00
634443004	BRA-APE-FB-07	Water	22/08/23 15:10	23/08/23 13:00
634443005	BRA-BRGWC-37S	Ground Water	22/08/23 16:51	23/08/23 13:00
634443006	BRA-PZ-13S	Ground Water	22/08/23 16:47	23/08/23 13:00
634648001	BRA-BRGWC-17S	Ground Water	23/08/23 14:05	24/08/23 12:43
634648002	BRA-BRGWC-35S	Ground Water	23/08/23 12:01	24/08/23 12:43
634648003	BRA-BRGWC-36S	Ground Water	23/08/23 15:56	24/08/23 12:43
634648004	BRA-BRGWC-38S	Ground Water	23/08/23 12:12	24/08/23 12:43
634648005	BRA-PZ-70I	Ground Water	23/08/23 16:12	24/08/23 12:43
634648006	BRA-APE-FD-05	Ground Water	23/08/23 12:00	24/08/23 12:43
634648007	BRA-APE-FB-08	Water	23/08/23 16:30	24/08/23 12:43
634648008	BRA-APE-EB-09	Water	23/08/23 16:45	24/08/23 12:43
634648009	BRA-APE-EB-10	Water	23/08/23 13:15	24/08/23 12:43

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

Prep Methods and Prep Dates

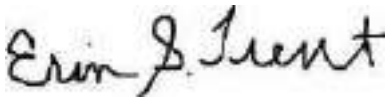
Not Applicable

Analysis Methods and Analysis Dates

Method	Run Date ID
Calculation	20-SEP-2023
Calculation	22-SEP-2023
EPA 903.1 Modified	20-SEP-2023
EPA 904.0/SW846 9320 Modified	05-SEP-2023
EPA 904.0/SW846 9320 Modified	18-SEP-2023
EPA 904.0/SW846 9320 Modified	20-SEP-2023
EPA 904.0/SW846 9320 Modified	22-SEP-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,



Erin Trent
Project Manager

Purchase Order: GPC82177-0006
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: 634443 GEL Work Order: 634443

The Qualifiers in this report are defined as follows:

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

** Analyte is a Tracer compound

** Analyte is a surrogate compound

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

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

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

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

Reviewed by Erin B. Trent

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

Certificate of Analysis

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

Atlanta, Georgia 30308 Report Date: September 22, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPE-R

Client Sample ID: BRA-BRGWC-33S
Sample ID: 634443001
Matrix: WG
Collect Date: 22-AUG-23
Receive Date: 23-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.119	+/-0.702	1.33	+/-0.702	3.00	pCi/L			JE1	09/22/23	0821	2494433	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	0.521	+/-0.773	1.33	+/-0.779		pCi/L			NXL1	09/22/23	1016	2488604	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.401	+/-0.326	0.499	+/-0.337	1.00	pCi/L			LXP1	09/20/23	0819	2482017	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"	2494433	83.7	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

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

Certificate of Analysis

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

Atlanta, Georgia 30308 Report Date: September 22, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPE-R

Client Sample ID: BRA-APE-FD-04 Project: GPCC00101
Sample ID: 634443002 Client ID: GPCC001
Matrix: WG
Collect Date: 22-AUG-23
Receive Date: 23-AUG-23
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.08	+/-0.881	1.41	+/-0.924	3.00	pCi/L			JE1	09/22/23	0821	2494433	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		1.55	+/-0.921	1.41	+/-0.966		pCi/L			NXL1	09/22/23	1016	2488604	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.466	+/-0.269	0.337	+/-0.280	1.00	pCi/L			LXP1	09/20/23	0819	2482017	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"	2494433	92.7	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

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

Certificate of Analysis

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

Atlanta, Georgia 30308 Report Date: September 22, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPE-R

Client Sample ID: BRA-BRGWC-34S
Sample ID: 634443003
Matrix: WG
Collect Date: 22-AUG-23
Receive Date: 23-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.558	+/-0.907	1.58	+/-0.918	3.00	pCi/L			JE1	09/22/23	0822	2494433	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	1.06	+/-0.955	1.58	+/-0.973		pCi/L			NXL1	09/22/23	1016	2488604	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.499	+/-0.299	0.393	+/-0.321	1.00	pCi/L			LXP1	09/20/23	0819	2482017	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"	2494433	90.2	(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

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

Certificate of Analysis

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

Atlanta, Georgia 30308 Report Date: September 22, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPE-R

Client Sample ID: BRA-APE-FB-07
Sample ID: 634443004
Matrix: WQ
Collect Date: 22-AUG-23
Receive Date: 23-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.169	+/-0.878	1.62	+/-0.879	3.00	pCi/L			JE1	09/22/23	0822	2494433	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	0.546	+/-0.912	1.62	+/-0.916		pCi/L			NXL1	09/22/23	1016	2488604	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.377	+/-0.246	0.301	+/-0.256	1.00	pCi/L			LXP1	09/20/23	0820	2482017	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"	2494433	83.7	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

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

Certificate of Analysis

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

Atlanta, Georgia 30308 Report Date: September 22, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPE-R

Client Sample ID: BRA-BRGWC-37S
Sample ID: 634443005
Matrix: WG
Collect Date: 22-AUG-23
Receive Date: 23-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	-0.458	+/-0.719	1.50	+/-0.720	3.00	pCi/L			JE1	09/22/23	0822	2494433	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	0.578	+/-0.770	1.50	+/-0.781		pCi/L			NXL1	09/22/23	1016	2488604	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.578	+/-0.274	0.309	+/-0.303	1.00	pCi/L			LXP1	09/20/23	0820	2482017	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"	2494433	87.6	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

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

Certificate of Analysis

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

Atlanta, Georgia 30308 Report Date: September 22, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPE-R

Client Sample ID: BRA-PZ-13S
Sample ID: 634443006
Matrix: WG
Collect Date: 22-AUG-23
Receive Date: 23-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.273	+/-1.08	1.97	+/-1.08	3.00	pCi/L			JE1	09/22/23	0822	2494433	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	0.823	+/-1.12	1.97	+/-1.12		pCi/L			NXL1	09/22/23	1016	2488604	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.550	+/-0.277	0.335	+/-0.300	1.00	pCi/L			LXP1	09/20/23	0820	2482017	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"	2494433	72.5	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

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: 634648 GEL Work Order: 634648

The Qualifiers in this report are defined as follows:

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

** Analyte is a Tracer compound

** Analyte is a surrogate compound

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

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

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

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

Reviewed by Erin B. Trent

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

Certificate of Analysis

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

Atlanta, Georgia 30308 Report Date: September 20, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPE-R

Client Sample ID: BRA-BRGWC-17S
Sample ID: 634648001
Matrix: WG
Collect Date: 23-AUG-23
Receive Date: 24-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.78	+/-1.48	2.33	+/-1.55	3.00	pCi/L			JE1	09/18/23	1426	2485947	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	1.92	+/-1.50	2.33	+/-1.57		pCi/L		1	NXL1	09/20/23	1401	2485949	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.139	+/-0.249	0.448	+/-0.250	1.00	pCi/L			LXP1	09/20/23	0926	2485948	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"	2485947	59.7	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

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Certificate of Analysis

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

Atlanta, Georgia 30308 Report Date: September 20, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPE-R

Client Sample ID: BRA-BRGWC-35S
Sample ID: 634648002
Matrix: WG
Collect Date: 23-AUG-23
Receive Date: 24-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		2.78	+/-1.27	1.59	+/-1.45	3.00	pCi/L			JE1	09/18/23	1141	2485947	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		3.33	+/-1.29	1.59	+/-1.48		pCi/L		1	NXL1	09/20/23	1401	2485949	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.546	+/-0.248	0.238	+/-0.263	1.00	pCi/L			LXP1	09/20/23	0926	2485948	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"	2485947	56.5	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

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Certificate of Analysis

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

Atlanta, Georgia 30308 Report Date: September 20, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPE-R

Client Sample ID: BRA-BRGWC-36S
Sample ID: 634648003
Matrix: WG
Collect Date: 23-AUG-23
Receive Date: 24-AUG-23
Collector: Client

Project: GPCC00101
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		3.28	+/-1.66	2.40	+/-1.86	3.00	pCi/L			JE1	09/18/23	1141	2485947	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		3.87	+/-1.69	2.40	+/-1.89		pCi/L		1	NXL1	09/20/23	1401	2485949	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.594	+/-0.297	0.328	+/-0.313	1.00	pCi/L			LXP1	09/20/23	0926	2485948	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"	2485947	57.9	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

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: September 20, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPE-R

Client Sample ID: BRA-BRGWC-38S
Sample ID: 634648004
Matrix: WG
Collect Date: 23-AUG-23
Receive Date: 24-AUG-23
Collector: Client

Project: GPCC00101
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		5.37	+/-2.03	2.73	+/-2.45	3.00	pCi/L			JE1	09/20/23	0823	2485947	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		5.98	+/-2.05	2.73	+/-2.47		pCi/L		1	NXL1	09/20/23	1401	2485949	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.610	+/-0.288	0.246	+/-0.307	1.00	pCi/L			LXP1	09/20/23	0926	2485948	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"	2485947	51.8	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

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Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
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Atlanta, Georgia 30308 Report Date: September 20, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPE-R

Client Sample ID: BRA-PZ-70I
Sample ID: 634648005
Matrix: WG
Collect Date: 23-AUG-23
Receive Date: 24-AUG-23
Collector: Client

Project: GPCC00101
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		3.70	+/-1.64	2.30	+/-1.89	3.00	pCi/L			JE1	09/18/23	1143	2485947	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		4.35	+/-1.67	2.30	+/-1.92		pCi/L		1	NXL1	09/20/23	1401	2485949	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.655	+/-0.330	0.410	+/-0.354	1.00	pCi/L			LXP1	09/20/23	0958	2485948	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"	2485947	59.4	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

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Certificate of Analysis

Company : Georgia Power Company, Southern
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Atlanta, Georgia 30308 Report Date: September 20, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPE-R

Client Sample ID: BRA-APE-FD-05
Sample ID: 634648006
Matrix: WG
Collect Date: 23-AUG-23
Receive Date: 24-AUG-23
Collector: Client

Project: GPCC00101
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		4.09	+/-1.67	2.27	+/-1.97	3.00	pCi/L			JE1	09/18/23	1143	2485947	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		4.65	+/-1.69	2.27	+/-1.99		pCi/L		1	NXL1	09/20/23	1401	2485949	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.559	+/-0.250	0.204	+/-0.281	1.00	pCi/L			LXP1	09/20/23	0958	2485948	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"	2485947	58.9	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

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Certificate of Analysis

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241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 20, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPE-R

Client Sample ID: BRA-APE-FB-08
Sample ID: 634648007
Matrix: WQ
Collect Date: 23-AUG-23
Receive Date: 24-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	2.26	+/-1.55	2.41	+/-1.65	3.00	pCi/L			JE1	09/20/23	0823	2485947	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.50	+/-1.56	2.41	+/-1.67		pCi/L		1	NXL1	09/20/23	1401	2485949	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.247	+/-0.194	0.263	+/-0.201	1.00	pCi/L			LXP1	09/20/23	0958	2485948	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"	2485947	55.4	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

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Certificate of Analysis

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

Atlanta, Georgia 30308 Report Date: September 20, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPE-R

Client Sample ID: BRA-APE-EB-09
Sample ID: 634648008
Matrix: WQ
Collect Date: 23-AUG-23
Receive Date: 24-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	2.20	+/-1.48	2.28	+/-1.59	3.00	pCi/L			JE1	09/20/23	0823	2485947	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.86	+/-1.52	2.28	+/-1.63		pCi/L		1	NXL1	09/20/23	1401	2485949	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.662	+/-0.366	0.483	+/-0.384	1.00	pCi/L			LXP1	09/20/23	0958	2485948	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"	2485947	57.5	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

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Certificate of Analysis

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

Atlanta, Georgia 30308 Report Date: September 20, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPE-R

Client Sample ID: BRA-APE-EB-10
Sample ID: 634648009
Matrix: WQ
Collect Date: 23-AUG-23
Receive Date: 24-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.46	+/-1.15	1.79	+/-1.21	3.00	pCi/L			JE1	09/18/23	1142	2485947	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	1.62	+/-1.17	1.79	+/-1.23		pCi/L		1	NXL1	09/20/23	1401	2485949	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.162	+/-0.225	0.390	+/-0.228	1.00	pCi/L			LXP1	09/20/23	0958	2485948	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"	2485947	57.2	(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

QC Summary

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

Atlanta, Georgia

Contact: **Joju Abraham**

Workorder: **634443**

Report Date: September 22, 2023

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gas Flow										
Batch 2494433										
QC1205520856 634443001 DUP										
Radium-228	U	0.119	U	1.16	pCi/L	0		N/A	JE1	09/22/2308:46
	Uncert:	+/-0.702		+/-0.838						
	TPU:	+/-0.702		+/-0.891						
QC1205520857 LCS										
Radium-228	75.6			76.2	pCi/L		101	(75%-125%)	JE1	09/22/2308:46
	Uncert:			+/-4.33						
	TPU:			+/-19.9						
QC1205520855 MB										
Radium-228				1.38	pCi/L				JE1	09/22/2308:46
	Uncert:			+/-0.802						
	TPU:			+/-0.875						
Rad Ra-226										
Batch 2482017										
QC1205498038 634443001 DUP										
Radium-226	U	0.401	U	0.170	pCi/L	0		N/A	LXP1	09/20/2309:26
	Uncert:	+/-0.326		+/-0.249						
	TPU:	+/-0.337		+/-0.251						
QC1205498040 LCS										
Radium-226	26.9			33.3	pCi/L		124	(75%-125%)	LXP1	09/20/2309:26
	Uncert:			+/-2.02						
	TPU:			+/-5.55						
QC1205498037 MB										
Radium-226			U	0.142	pCi/L				LXP1	09/20/2309:26
	Uncert:			+/-0.184						
	TPU:			+/-0.188						
QC1205498039 634443001 MS										
Radium-226	137 U	0.401		103	pCi/L		75.1	(75%-125%)	LXP1	09/20/2309:26
	Uncert:	+/-0.326		+/-7.23						
	TPU:	+/-0.337		+/-17.8						

Notes:

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

The Qualifiers in this report are defined as follows:

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

QC Summary

Workorder: **634443**

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

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

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

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

QC Summary

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

Atlanta, Georgia

Contact: **Joju Abraham**

Workorder: **634648**

Report Date: September 20, 2023

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gas Flow										
Batch 2485947										
QC1205505245 634648001 DUP										
Radium-228	U	1.78		3.83	pCi/L	72.8		(0% - 100%)	JE1	09/18/2314:26
	Uncert:	+/-1.48		+/-1.84						
	TPU:	+/-1.55		+/-2.09						
QC1205505246 LCS										
Radium-228	78.3			73.1	pCi/L		93.4	(75%-125%)	JE1	09/18/2311:42
	Uncert:			+/-5.15						
	TPU:			+/-19.6						
QC1205505244 MB										
Radium-228			U	2.08	pCi/L				JE1	09/18/2314:26
	Uncert:			+/-1.45						
	TPU:			+/-1.54						
Rad Ra-226										
Batch 2485948										
QC1205505248 634648001 DUP										
Radium-226	U	0.139	U	0.237	pCi/L	0		N/A	LXP1	09/20/2309:58
	Uncert:	+/-0.249		+/-0.233						
	TPU:	+/-0.250		+/-0.238						
QC1205505250 LCS										
Radium-226	26.9			27.4	pCi/L		102	(75%-125%)	LXP1	09/20/2310:30
	Uncert:			+/-1.80						
	TPU:			+/-4.71						
QC1205505247 MB										
Radium-226			U	0.316	pCi/L				LXP1	09/20/2309:58
	Uncert:			+/-0.263						
	TPU:			+/-0.271						
QC1205505249 634648001 MS										
Radium-226	122 U	0.139		91.7	pCi/L		75.1	(75%-125%)	LXP1	09/20/2309:58
	Uncert:	+/-0.249		+/-6.79						
	TPU:	+/-0.250		+/-18.5						

Notes:

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

The Qualifiers in this report are defined as follows:

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

QC Summary

Workorder: **634648**

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

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

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

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

Radiochemistry
Technical Case Narrative
Georgia Power Company
SDG #: 634443

Product: **Radium-226+Radium-228 Calculation**
Analytical Method: Calculation
Analytical Procedure: GL-RAD-D-003 REV# 45
Analytical Batch: 2488604

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

GEL Sample ID#	Client Sample Identification
634443001	BRA-BRGWC-33S
634443002	BRA-APE-FD-04
634443003	BRA-BRGWC-34S
634443004	BRA-APE-FB-07
634443005	BRA-BRGWC-37S
634443006	BRA-PZ-13S

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: 2494433

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

GEL Sample ID#	Client Sample Identification
634443001	BRA-BRGWC-33S
634443002	BRA-APE-FD-04
634443003	BRA-BRGWC-34S
634443004	BRA-APE-FB-07
634443005	BRA-BRGWC-37S
634443006	BRA-PZ-13S
1205520855	Method Blank (MB)
1205520856	634443001(BRA-BRGWC-33S) Sample Duplicate (DUP)
1205520857	Laboratory Control Sample (LCS)

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

Data Summary:

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

Quality Control (QC) Information

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

Sample	Analyte	Value
1205520855 (MB)	Radium-228	Result: 1.38 pCi/L > MDA: 1.13 pCi/L <= RDL: 3.00 pCi/L

Technical Information

Sample Re-prep/Re-analysis
Samples were reprepped due to high relative percent difference/relative error ratio. The re-analysis is being reported.

Product: **Lucas Cell, Ra226, Liquid**
Analytical Method: EPA 903.1 Modified
Analytical Procedure: GL-RAD-A-008 REV# 15
Analytical Batch: 2482017

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

GEL Sample ID#	Client Sample Identification
634443001	BRA-BRGWC-33S
634443002	BRA-APE-FD-04
634443003	BRA-BRGWC-34S
634443004	BRA-APE-FB-07
634443005	BRA-BRGWC-37S
634443006	BRA-PZ-13S
1205498037	Method Blank (MB)
1205498038	634443001(BRA-BRGWC-33S) Sample Duplicate (DUP)
1205498039	634443001(BRA-BRGWC-33S) Matrix Spike (MS)
1205498040	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, 1205498039 (BRA-BRGWC-33SMS), 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.

Radiochemistry
Technical Case Narrative
Georgia Power Company
SDG #: 634648

Product: **Radium-226+Radium-228 Calculation**
Analytical Method: Calculation
Analytical Procedure: GL-RAD-D-003 REV# 45
Analytical Batch: 2485949

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

GEL Sample ID#	Client Sample Identification
634648001	BRA-BRGWC-17S
634648002	BRA-BRGWC-35S
634648003	BRA-BRGWC-36S
634648004	BRA-BRGWC-38S
634648005	BRA-PZ-70I
634648006	BRA-APE-FD-05
634648007	BRA-APE-FB-08
634648008	BRA-APE-EB-09
634648009	BRA-APE-EB-10

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: 2485947

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

GEL Sample ID#	Client Sample Identification
634648001	BRA-BRGWC-17S
634648002	BRA-BRGWC-35S
634648003	BRA-BRGWC-36S
634648004	BRA-BRGWC-38S
634648005	BRA-PZ-70I
634648006	BRA-APE-FD-05
634648007	BRA-APE-FB-08
634648008	BRA-APE-EB-09
634648009	BRA-APE-EB-10
1205505244	Method Blank (MB)

1205505245	634648001(BRA-BRGWC-17S) Sample Duplicate (DUP)
1205505246	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 1205505244 (MB) was recounted due to a suspected blank false positive. The recount is reported. Samples 1205505245 (BRA-BRGWC-17SDUP) and 634648001 (BRA-BRGWC-17S) were recounted due to high relative percent difference/relative error ratio. The recounts are reported. Samples 634648004 (BRA-BRGWC-38S), 634648007 (BRA-APE-FB-08) and 634648008 (BRA-APE-EB-09) were re-eluted and recounted to verify sample results. The recounts are reported.

Product: **Lucas Cell, Ra226, Liquid**
Analytical Method: EPA 903.1 Modified
Analytical Procedure: GL-RAD-A-008 REV# 15
Analytical Batch: 2485948

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

GEL Sample ID#	Client Sample Identification
634648001	BRA-BRGWC-17S
634648002	BRA-BRGWC-35S
634648003	BRA-BRGWC-36S
634648004	BRA-BRGWC-38S
634648005	BRA-PZ-70I
634648006	BRA-APE-FD-05
634648007	BRA-APE-FB-08
634648008	BRA-APE-EB-09
634648009	BRA-APE-EB-10
1205505247	Method Blank (MB)
1205505248	634648001(BRA-BRGWC-17S) Sample Duplicate (DUP)
1205505249	634648001(BRA-BRGWC-17S) Matrix Spike (MS)
1205505250	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, 1205505249 (BRA-BRGWC-17SMS), 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.

634441 634443

Page: 1 of 1
Project #:
GEL Quote #:
COC Number (1):
PO Number:

GEL Laboratories LLC

gel.com | Chemistry | Radiochemistry | Radiobioassay | 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

Client Name: GA Power | Phone #: 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - E | Fax #:
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: T. Gable/D. Taylor ACC | Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested (8) (Fill in the number of containers for each test)

Sample ID (* Use composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (Hr:Min)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Hazardous (If yes, please specify sample info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS, NO3 EPA 300, SM 2540C	Total Carb. & Dissolved SM 2320B	Metals* EPA 6020, 6010, 7470	Radium 226 & 228 SW-846 9315, 9320	Sulfide SM 4500	<-- Preservative Type (6)
BRA- GWC-335	08/22/23	1210	G	N	WG	N	N	8	✓	✓	✓	✓	✓	
BRA- APE-FD-04	08/22/23	—	G	N	WG	N	N	8	✓	✓	✓	✓	✓	
BRA- GWC-345	08/22/23	1435	G	N	WG	N	N	8	✓	✓	✓	✓	✓	
BRA- APE-FB-07	08/22/23	1510	G	N	WQ	N	N	8	✓	✓	✓	✓	✓	
BRA- BRGWC-375	08/22/23	1651	G	N	WG	N	N	8	✓	✓	✓	✓	✓	
BRA- PZ-135	08/22/23	1647	G	N	WG	N	N	8	✓	✓	✓	✓	✓	
BRA-														
BRA-														
BRA-														
BRA-														

Comments
Note: extra sample is required for sample specific QC
Task_Code: BRA-CCR-ASSMT-202352

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received By (signed)	Date	Time
1		8-23-23	0825		8/23/23	0825
2		8/23/23	0832		8/23/23	832
3		8/23/23	100		8/23/23	1300

TAT Requested: Normal: X Rush: ____ Specify: ____ (Subject to Surcharge)
Fax Results: [ ] Yes [X] No
Select Deliverable: [ ] C of A [ ] QC Summary [ ] Level 1 [X] Level 2 [ ] Level 3 [ ] Level 4
Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mn,Se,Tl,Fe,Mg,Mo,K,Na,Hg
For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No *Cooler Temp:* ____ °C
> For sample shipping and delivery details, see Sample Receipt & Review form (SRR).
Sample Collection Time Zone: [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

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

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

4.) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 2, 6010B/7470A - 1).

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

7.) KNOWN OR POSSIBLE HAZARDS

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

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

TSCA Regulated
PCB = Polychlorinated biphenyls

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

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other toxic, 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.)

634444 634643
634448 634447
634443 634450
634441 634444
634446

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: CLP	SDG/AR/COC/Work Order:
Received By: MVH	Date Received: 8-25-2023
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other

Cooler 2-3°c Cooler 4-1°c Cooler 6-1°c
Cooler 1-2°c Cooler 3-1°c Cooler 5-2°c

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

Sample Receipt Criteria		Yes	No	NA	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping container/cooler received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)*	✓			Preservation Method: Wet Ice Ice Packs Dry Ice None Other: *All temperatures are recorded in Celsius TEMP:
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: 09251 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?			✓	Sample ID's and Containers Affected: BRA-P2-GII, BRA-BRGWA-5I, BRA-BRGWA-23S, Preservation added: (Lot#)
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for soil(s)? Yes__ No__ NA__ (If yes, refer to VOA Planner) Is Liquid VOA vials free of air or headspace? Yes__ No__ NA__ (If answer is "no", select No) Are Liquid VOA vials free of Headspace? Yes__ No__ NA__ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as CEL provided by use of CEL labels?	✓			
13	COC forms properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):
BRA-P2-BS, BRA-BRGWA-2S, BRA-BRGWA-6S, BRA-BRGWC-32S, BRA-BRGWA-2I, BRA-BRGWC-37S, BRA-BRGWC-34S, BRA-BRGWC-30I Sulfide samples didn't hold proper preservation.

PM (or PMA) review: Initials AT Date 8/25/23 Page 1 of 1

GL-CHL-SR-001 Rev7

634648

Page: 1 of 1
Project #:
GEL Quote #:
COC Number (3):
PO Number:

GEL Laboratories LLC 634615

Chemistry | Radiochemistry | Radioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trout*

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

Client Name: GA Power
Phone # 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - E
Fax #
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: T. Goode, D. Johnson, ACC
Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested (9) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (Hours)	QC Code (1)	Field Filtered (2)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS, NO3 EPA 300, SM 2540C	Total, Ca+, & Black Alk SM 2320B	Metals* EPA 6020, 6010, 7470	Radium 226 & 228 SW 846 9315, 9320	Sulfide SM 4500	<-- Preservative Type (6)	Comments
BRA-BPGWC-175	08/23/23	1405	G	N	WG	N	N	4	✓	✓	✓	✓	✓		Note: extra sample is required for sample specific QC Task_Code: BRA-CCR-ASSMT-2023S2
BRA-BPGWC-355	08/23/23	1201	G	N	WG	N	N	4	✓	✓	✓	✓	✓		
BRA-BAGWC-360	08/23/23	1556	G	N	WG	N	N	4	✓	✓	✓	✓	✓		
BRA-BPGWC-385	08/23/23	1212	G	N	WG	N	N	4	✓	✓	✓	✓	✓		
BRA-PZ-52D	08/23/23	1346	G	N	WG	N	N	5	✓	✓	✓		✓		
BRA-PZ-70I	08/23/23	1612	G	N	WG	N	N	4	✓	✓	✓	✓	✓		
BRA-APE-FD-05	08/23/23	—	G	N	WG	N	N	4	✓	✓	✓	✓	✓		
BRA-APE-FB-08	08/23/23	1630	G	N	WQ	N	N	3	✓	✓	✓	✓	✓		
BRA-APE-EB-09	08/23/23	1645	G	N	WQ	N	N	3	✓	✓	✓	✓	✓		
BRA-APE-EB-10	08/23/23	1315	G	N	WQ	N	N	3	✓	✓	✓	✓	✓		

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	Taylor Goode	8-24-23	0940		8/24/23	840
2		8/24/23	1243		8/24/23	1243
3				3		

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

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

Fax Results: [ ] Yes [x] No

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

Additional Remarks: * Metals: B, Ca, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl, Pu, Mg, Mn, K, Na, Hg

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

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

1.) Chain of Custody Number = Client Determined

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

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

4.) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix

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, EX = 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, ME = Misc. RCRA metals
Pb = Lead

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

TSCA Regulated
PCB = Polychlorinated biphenyls

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

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

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

634448 634643
634652 634650
634649
634648 634615

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: LaPCC	SDG/ARCOC/Work Order:
Received By: EG	Date Received: 8.24.23
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other
	Cooler 1 - 3° Cooler 3 - 3° Cooler 2 - 3° Cooler 4 - 2° Cooler 5 - 3°

Suspected Hazard Information	Yes	No	If "Yes" or "No" to any of the following, contact the Radiation Safety Group for further investigation.
A) Shipped as a DOT Hazardous?		✓	Hazard Class/Shipping Name: UN/NA #: Was the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): ___ Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?		✓	
E) Did the RSO identify possible hazards?		✓	If "Yes" to E, what was identified: DOT/IATA Flammable Poison Inhalation Hazard Oxidizer Other

Sample Receipt Criteria	Yes	No	NA	Comments/Qualifiers (Required for Non-Conforming Items)
1 Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2 Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3 Samples requiring cold preservation within (0 < 6 deg. C)*	✓			Preservation Method: Wet Ice Ice Packs Dry Ice Water Other TEMP: See comments above & below for temps All temps are recorded in Celsius
4 Daily check performed and passed on IR temperature gun?	✓			Thermometer ID/Correction Factor: 18/+0.1 Secondary Temperature Device Serial #: (If Applicable)
5 Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6 Samples requiring chemical preservation at proper pH?			✓	Sample ID's and Containers Affected: See continuation form
7 Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Bulk Kits present for soils? Yes___ No___ NA___ (If yes, also fill VOA Survey) Do any VOA Vials contain Headspace? Yes___ No___ NA___ (Encores will not have) Are Trip Blank VOA Vials free of headspace? Yes___ No___ NA___ Bubble Size must not exceed 6mm
8 Samples received within holding time?	✓			ID's and Tests Affected:
9 Sample ID's on COC match ID's on bottles?	✓			ID's and containers Affected:
10 Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11 Number of containers received match number indicated on COC?	✓			Circle Applicable: No containers received per COC Other (describe)
12 Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13 COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

Cooler 6-1
Cooler 7-2
Cooler 8-4
Cooler 9-1

PM (or PMA) review: Initials AT Date 8/28/23 Page 1 of 3

GL-CHL-SR-001 Rev 7

GEL | Laboratories LLC SAMPLE RECEIPT & REVIEW CONTINUATION FORM

Client: GPCC Received By: EG Date Received: 8/24/23 COC/Work Order: _____

BRA-P2-511
BRA-P2-591
BRA-BRGWC-353
BRA-BRGWC-365
BRA-APE-FB-07
BRA-P2-601
BRA-P2-581
BRA-P2-631
BRA-BRGWC-385
BRA-P2-641
BRA-P2-681
BRA-APBCD-FD-02
BRA-P2-500
BRA-BRGWC-50
BRA-APE-FD-05
↳ containers for sodium hydroxide/zinc acetate did not hold preservation. Were preserved & placed in 24 hr hold preservation

PM (or PMA) review: Initials AT Date 8/28/23 Page 2 of 2

List of current GEL Certifications as of 20 September 2023

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122023-4
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2022-160
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-23-21
Utah NELAP	SC000122022-37
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

September 26, 2023

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

Re: Branch CCR Groundwater Compliance PZ-R
Work Order: 634789

Dear Joju Abraham:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on August 25, 2023. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

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

Laboratory ID	Client ID	Matrix	Date Collected	Date Recieved
634789001	BRA-PZ-53D	Ground Water	24/08/23 10:12	25/08/23 08:57
634789002	BRA-PZ-52D	Ground Water	23/08/23 13:46	25/08/23 08:57

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

Prep Methods and Prep Dates

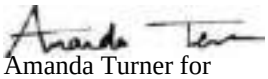
Not Applicable

Analysis Methods and Analysis Dates

Method	Run Date ID
Calculation	26-SEP-2023
EPA 903.1 Modified	26-SEP-2023
EPA 904.0/SW846 9320 Modified	19-SEP-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,



Amanda Turner for
Erin Trent
Project Manager

Purchase Order: GPC82177-0006
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: 634789 GEL Work Order: 634789

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

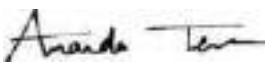
** Analyte is a surrogate compound

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: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater CompliancePZ-R

Client Sample ID: BRA-PZ-53D
Sample ID: 634789001
Matrix: WG
Collect Date: 24-AUG-23
Receive Date: 25-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		2.65	+/-1.02	1.29	+/-1.22	3.00	pCi/L			JE1	09/19/23	1052	2483519	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		3.67	+/-1.13	1.29	+/-1.32		pCi/L		1	LXB3	09/26/23	1107	2484347	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		1.01	+/-0.488	0.396	+/-0.514	1.00	pCi/L			LXP1	09/26/23	0846	2483512	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"	2483519	86.6	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

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

Certificate of Analysis

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

Atlanta, Georgia 30308 Report Date: September 26, 2023

Contact: Joju Abraham

Project: Branch CCR Groundwater CompliancePZ-R

Client Sample ID: BRA-PZ-52D
Sample ID: 634789002
Matrix: WG
Collect Date: 23-AUG-23
Receive Date: 25-AUG-23
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.655	+/-0.688	1.14	+/-0.708	3.00	pCi/L			JE1	09/19/23	1052	2483519	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	1.14	+/-0.777	1.14	+/-0.802		pCi/L		1	LXB3	09/26/23	1107	2484347	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.481	+/-0.361	0.375	+/-0.377	1.00	pCi/L			LXP1	09/26/23	0846	2483512	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"	2483519	87.8	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

Product: **Radium-226+Radium-228 Calculation**
Analytical Method: Calculation
Analytical Procedure: GL-RAD-D-003 REV# 45
Analytical Batch: 2484347

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

GEL Sample ID#	Client Sample Identification
634789001	BRA-PZ-53D
634789002	BRA-PZ-52D

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: 2483519

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

GEL Sample ID#	Client Sample Identification
634789001	BRA-PZ-53D
634789002	BRA-PZ-52D
1205500580	Method Blank (MB)
1205500581	634781003(BRA-BRGWC-27I) Sample Duplicate (DUP)
1205500582	Laboratory Control Sample (LCS)

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

Data Summary:

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

Quality Control (QC) Information

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

Sample	Analyte	Value
1205500580 (MB)	Radium-228	Result: 1.94 pCi/L > MDA: 1.46 pCi/L <= RDL: 3.00 pCi/L

Product: **Lucas Cell, Ra226, Liquid**
Analytical Method: EPA 903.1 Modified
Analytical Procedure: GL-RAD-A-008 REV# 15
Analytical Batch: 2483512

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

GEL Sample ID#	Client Sample Identification
634789001	BRA-PZ-53D
634789002	BRA-PZ-52D
1205500561	Method Blank (MB)
1205500562	634781003(BRA-BRGWC-27I) Sample Duplicate (DUP)
1205500563	634781003(BRA-BRGWC-27I) Matrix Spike (MS)
1205500564	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, 1205500563 (BRA-BRGWC-27IMS), aliquot was reduced to conserve sample volume.

Certification Statement

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

QC Summary

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

Atlanta, Georgia

Contact: **Joju Abraham**

Workorder: **634789**

Report Date: September 26, 2023

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gas Flow										
Batch 2483519										
QC1205500581 634781003 DUP										
Radium-228	U	1.10	U	0.506	pCi/L	0		N/A	JE1	09/19/2310:51
	Uncert:	+/-1.05		+/-1.18						
	TPU:	+/-1.09		+/-1.18						
QC1205500582 LCS										
Radium-228	77.5			72.3	pCi/L		93.3	(75%-125%)	JE1	09/19/2310:51
	Uncert:			+/-4.27						
	TPU:			+/-18.9						
QC1205500580 MB										
Radium-228				1.94	pCi/L				JE1	09/19/2310:51
	Uncert:			+/-1.03						
	TPU:			+/-1.15						
Rad Ra-226										
Batch 2483512										
QC1205500562 634781003 DUP										
Radium-226		1.13		1.23	pCi/L	8.5		(0% - 100%)	LXP1	09/26/2309:21
	Uncert:	+/-0.529		+/-0.578						
	TPU:	+/-0.558		+/-0.626						
QC1205500564 LCS										
Radium-226	26.9			25.2	pCi/L		93.6	(75%-125%)	LXP1	09/26/2309:21
	Uncert:			+/-2.49						
	TPU:			+/-4.93						
QC1205500561 MB										
Radium-226			U	0.162	pCi/L				LXP1	09/26/2308:46
	Uncert:			+/-0.229						
	TPU:			+/-0.231						
QC1205500563 634781003 MS										
Radium-226	125	1.13		110	pCi/L		87	(75%-125%)	LXP1	09/26/2309:21
	Uncert:	+/-0.529		+/-11.2						
	TPU:	+/-0.558		+/-25.2						

Notes:

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

The Qualifiers in this report are defined as follows:

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

QC Summary

Workorder: **634789**

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

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

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

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

634784 634789

Page: 1 of 1
Project #:
GEL Quote #:
COC Number (1):
PO Number:

GEL Laboratories LLC
Chemistry | Radiochemistry | Rad Attorney | Specialty Analytes
Chain of Custody and Analytical Request

GEL Work Order Number: GEL Project Manager: Erin Frost

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

Client Name: Ga. Power | Phone #: 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - E | Fax #:
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: T. Gabla ACC | Send Results To: SCS & Geosyntec Centers

Sample Analysis Requested (2) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hh:mm)	QC Code (3)	Field Filtered (4)	Sample Matrix (5)	Grab/Composite (Grab/Composite Indicator)	Grab/Composite (Composite Indicator)	Total # containers	CLP, ICP, ICPMS, HYDRIDE, TOTAL CN, TOTAL SULFIDE	Total Ca & Boron by 200.7/6010	Lead by EPA 200.8, 6020, 7471	Radium 226 & 228 (Prep: MG FREE), RA226	Sulfide SM 4500							<-- Preservative Type (6)
BRA-PZ-52D	08/23/23	1346	G	N	WG	N	N	3				✓								
BRA-PZ-53D	08/24/23	1012	G	N	WG	N	N	8	✓	✓	✓	✓	✓							
BRA-																				
BRA-																				
BRA-																				
BRA-																				
BRA-																				
BRA-																				
BRA-																				
BRA-																				

Comments:
Note: extra sample is required for sample specific QC
Task_Code: BRA-CCR-ASSMT-20175G2

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (Signed)	Date	Time
1	8/24/23	1300	1	8/24/23	1300
2	8/25/23	0857	2	8/24/23	0857
3			3		

TAT Requested: Normal: X Rush: ____ Specify: ____ (Subject to Surcharges)
Fax Results: [ ] Yes [X] No
Select Deliverable: [ ] C of A [ ] QC Summary [ ] Level 1 [X] Level 2 [ ] Level 3 [ ] Level 4
Additional Requests: a-Metals; b-Cn; b1-Ba; b2-Be; b3-Cd; b4-Co; b5-Cr; b6-Li; b7-Mo; b8-Tl; b9-Mn; b10-Sr; b11-Sr
For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No Cooler Temp: °C
Sample Collection Time Zone: [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

Cooler 1-4°
Cooler 2-4°
Cooler 3-1°
Cooler 4-1°
Cooler 5-3°

* 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 = Yes - Y - for samples that are field filtered or = N - for samples that are not field filtered.
4) Matrix Codes: WG=Drinking Water, WW=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix
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, ZH = Zinc Acetate, ST = Sodium Thiosulfate, If no preservative added = leave field blank

SPECIAL INSTRUCTIONS/COMMENTS:

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

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

TSCA Regulated
PCB = Polychlorinated biphenyls

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

Other
OT = Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, corrosive, color mix, health hazards, etc.)
Description:

Please provide any additional details, history regarding handling and/or disposal instructions. (i.e.: Origin of sample(s), type of chemicals used from, SDS numbers, etc.)

ET

634784 634789 634768 634781

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC — SDG/AR/COC/Work Order:

Received By: EG — Date Received: 8/25/13 0857

Carrier and Tracking Number: FedEx Express / FedEx Ground / UPS / Field Services / Courier / Other

Cooler 1 - 4° Cooler 3 - 1° Cooler 5 - 3°
Cooler 2 - 4° Cooler 4 - 1°

	Yes	No	
Suspected Hazard Information			If Yes or Unknown, complete the Radiation Safety Checklist.
A) Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN/NA: If Class 7, Is the Radioactive Shipment Survey Complete? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Ave. Background Counts): ___ CPM / mR/Hr. Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?		✓	
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCB's Flammable Pan Gas Roll RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)*	✓			Preservation Method: Wet Ice / Ice Packs / Dry Ice / None / Other. *If no temperature is recorded in Celsius TEMP: See above
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial # (IR-04): Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?			✓	Sample ID's and Containers Affected: See below. If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for the samples? Yes___ No___ NA___ (If yes, select on VOA Form) Was Headspace in VOA vials (greater than 6mm) noted? Yes___ No___ NA___ (If no or unknown, select on Non) For Liquid VOA, field filtered and preserved? Yes___ No___ NA___ Sample ID's of containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?			✓	ID's and containers affected: COC says BRA-P2-74I bottles says BRA-P2-74
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: Not enough containers for tests listed on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

containers BRA-P2-75I, BRA-BRGWC-27I, BRA-P2-53D & BRA-BRGWC-29I preserved with NaOH/Zinc Acetate did not hold preservation

PM (or PMA) review: Initials: BT Date: 8/26/13 Page 1 of 1

GL-CHL-SR-001 Rev 7

List of current GEL Certifications as of 26 September 2023

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122023-4
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2022-160
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-23-21
Utah NELAP	SC000122022-37
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

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Memorandum

Date:	8 February 2024
To:	Courtney Collins
From:	Ashley Wilson
CC:	K. Henderson
Subject:	**Stage 2A Data Validation - Level II Data Deliverables – GEL Laboratories, LLC Work Orders 634447, 634615, 634441, 634650, 634444, 634768 and 634784 and Eurofins Work Orders 680-239481-1 and 680-242425-1**

SITE: Plant Branch CCR Groundwater Compliance Semiannual Monitoring AP-BCD & AP-E

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of sixty-five groundwater samples including five equipment blanks, five field blanks and five field duplicate samples collected 21-24 August and 30 October – 1 November 2023, as part of the Plant Branch on-site sampling event.

The samples were analyzed at GEL Laboratories LLC, Charleston, SC, for the following analytical tests:

- Total and Dissolved Metals by United States (US) Environmental Protection Agency (EPA) Methods 3005A/6020B
- Mercury by US EPA Method 7470A
- Anions (Nitrate-Nitrogen (N), Chloride, Fluoride and Sulfate) by US EPA Method 300.0
- Total Dissolved Solids (TDS) by Standard Method (SM) 2540C
- Total Sulfide by SM 4500-S2-D
- Alkalinity by SM 2320B

The samples were analyzed at Eurofins Savannah, Savannah, GA, for the following analytical test:

- Total Sulfide by SM 4500 S2 F-2011

EXECUTIVE SUMMARY

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below and based on the information provided, the data as qualified are usable for supporting project objectives. The qualified data should be used within the limitations of the qualifications. If there are results with two or more different qualifications due to multiple QC failures, the final qualification is reconciled in the electronic data deliverable (EDD) with qualifications.

The data were reviewed based on the following documents, the pertinent methods referenced by the data package and professional and technical judgment:

- US EPA Region IV Data Validation Standard Operating Procedures (US EPA Region IV, September 2011); and
- USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review, November 2020 (EPA 542-R-20-006).

The following samples were analyzed and reported in the laboratory reports:

Laboratory IDs	Client IDs
680-239481-1	BRA-BRGWA-2I
680-239481-2	BRA-BRGWA-5I
680-239481-3	BRA-BRGWA-6S
680-239481-4	BRA-BRGWC-50
680-239481-5	BRA-PZ-57I
680-239481-6	BRA-PZ-59I
680-239481-7	BRA-PZ-64I
680-239481-8	BRA-PZ-65I
680-239481-9	BRA-BRGWC-33S
680-239481-10	BRA-BRGWC-35S
680-239481-11	BRA-BRGWC-38S
680-239481-12	BRA-PZ-76I
680-239481-13	BRA-PZ-77I
680-242425-1	BRA-BRGWA-2S
680-242425-2	BRA-BRGWA-2I
680-242425-3	BRA-PZ-44
680-242425-4	BRA-PZ-64I
680-242425-5	BRA-PZ-66I
680-242425-6	BRA-PZ-59I
680-242425-7	BRA-PZ-58I
680-242425-8	BRA-BRGWA-6S

Laboratory IDs	Client IDs
680-242425-9	BRA-PZ-51I
680-242425-10	BRA-PZ-51D
680-242425-11	BRA-PZ-57I
680-242425-12	BRA-PZ-65I
680-242425-13	BRA-PZ-61I
634615001	BRA-BRGWC-17S
634615002	BRA-BRGWC-35S
634615003	BRA-BRGWC-36S
634615004	BRA-BRGWC-38S
634615005	BRA-PZ-52D
634615006	BRA-PZ-70I
634615007	BRA-APE-FD-05
634615008	BRA-APE-FB-08
634615009	BRA-APE-EB-09
634615010	BRA-APE-EB-10
634441001	BRA-BRGWC-33S
634441002	BRA-APE-FD-04
634441003	BRA-BRGWC-34S
634441004	BRA-APE-FB-07
634441005	BRA-BRGWC-37S
634441006	BRA-PZ-13S

Laboratory IDs	Client IDs
634650001	BRA-PZ-51I
634650002	BRA-PZ-58I
634650003	BRA-PZ-59I
634650004	BRA-PZ-60I
634650005	BRA-PZ-63I
634650006	BRA-PZ-64I
634650007	BRA-PZ-68D
634650008	BRA-APBCD-FB-02
634650009	BRA-APBCD-FD-01
634650010	BRA-APBCD-FD-02
634650011	BRA-BRGWC-50
634650012	BRA-APBCD-EB-04
634650013	BRA-PZ-44
634650014	BRA-PZ-50D
634444003	BRA-BRGWA-23S
634444004	BRA-BRGWC-30I
634444005	BRA-BRGWC-32S
634444006	BRA-PZ-61I
634444007	BRA-APBCD-FB-01

Laboratory IDs	Client IDs
634768001	BRA-APBCD-FD-03
634768002	BRA-APBCD-EB-05
634768003	BRA-BRGWC-27I
634768004	BRA-BRGWC-45
634768005	BRA-PZ-75I
634768006	BRA-PZ-74I
634768007	BRA-BRGWC-29I
634768008	BRA-PZ-51D
634768009	BRA-APBCD-FB-03
634768010	BRA-APBCD-EB-06
634768011	BRA-BRGWC-52I
634768012	BRA-BRGWC-47
634768013	BRA-BRGWC-25I
634447001	BRA-BRGWA-2S
634447002	BRA-BRGWA-5S
634447003	BRA-BRGWA-5I
634447004	BRA-BRGWA-6S
634447005	BRA-BRGWA-2I
634784001	BRA-PZ-53D

The samples were received at 5.1, 5.0, 4.0, 3.0, 2.5, 2.8, 2.0 and 1.0 degrees Celsius (ºC), both within and outside of the EPA Region 4 criteria of 4ºC $\pm$ 2ºC. Since the samples were received between 0-6ºC and based on professional judgment, no qualifications were applied to the data. No sample preservation issues were noted by the laboratory.

634615, 634441, 634444, 634650, 634447 & 634784: The laboratory noted the containers for samples BRA-BRGWC-35S, BRA-BRGWC-36S, BRA-APE-FB-08, BRA-BRGWC-38S, BRA-APE-FD-05, BRA-GWC-34S, BRA-BRGWC-37S, BRA-PZ-13S, BRA-BRGWC-32S, BRA-BRGWC-30I, BRA-PZ-61I, BRA-BRGWA-23S, BRA-PZ-51I, BRA-PZ-60I, BRA-PZ-58I, BRA-PZ-63I, BRA-PZ-64I, BRA-PZ-68D, BRA-APBCD-FD-02, BRA-PZ-50D, BRA-BRGWC-50, BRA-PZ-59I, BRA-BRGWA-2S, BRA-BRGWA-6S, BRA-BRGWA-2I, BRA-BRAW-5I, BRA-PZI, BRA-BRGWC-27I, BRA-PZ-53D and BRA-BRGWC-29I were preserved with NaOH/Zinc, however, they did not hold preservation for sulfide. Samples were preserved upon receipt and placed on a 24-hour preservation hold.

634650: The second relinquishing time on the second page of the chain of custody (COC) did not match the relinquishing time on the first page.

634444 & 634447: The relinquished by time and the received by time for the second sample transfer were inconsistent on the COC. The relinquishing time was not documented in military time.

634784: The laboratory noted a discrepancy between the COC and container label for sample BRA-P2-74I, where the COC has "BRA-P2-74I," but the bottles have "BRA-P2-74."

The field pH data and field ferrous iron data included in the laboratory report were not validated.

1.0 METALS

The samples were analyzed for metals by US EPA methods 3005A/6020B.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable or not applicable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

✓ Overall Assessment
✓ Holding Time
✓ Method Blank
✓ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Laboratory Duplicate
⊗ Field Blank
⊗ Equipment Blank
✓ Field Duplicate
✓ Serial Dilution
✓ Sensitivity
✓ Electronic Data Deliverables Review

1.1 Overall Assessment

1.1.1 Completeness

The metals data reported in this laboratory report are considered usable for supporting project objectives. The results are considered valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

1.1.2 Analysis Anomaly

The laboratory noted that the contract required detection limit (CRDL) for calcium did not meet the laboratory specified acceptance criteria. Since the calcium results in the associated samples were significantly greater than the CRDL and based on professional and technical judgement, no qualifications were applied to the data.

The laboratory also noted that for the Inductively Coupled Plasma – Mass Spectrometry analysis, the Interference Check Sample (ICSA) solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

1.2 Holding Time

The holding time for the metals analysis of a water sample is 180 days from sample collection to analysis. The holding times were met.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Five method blanks were reported (batches 2482704, 2482706, 2483978, 2482702 and 2483978). Metals were not detected in the method blanks at or above the method detection limits (MDLs).

1.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSDs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Four sample set specific MS/MSD pairs were reported, using samples BRA-BRGWC-17S, BRA-BRGWC-34S, BRA-PZ-51I and BRA-BRGWC-27I. The recovery and relative percent difference (RPD) results were within the laboratory specified acceptance criteria.

One batch MS/MSD was also reported. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Five LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

1.6 Laboratory Duplicate

Laboratory duplicates were not reported for metals.

1.7 Field Blank

Five field blanks, BRA-APBCD-FB-01, BRA-APBCD-FB-02, BRA-APBCD-FB-03, BRA-APE-FB-07 and BRA-APE-FB-08 were collected with the sample set. Metals were not detected in the field blanks at or above the MDLs, with the following exceptions.

Boron (0.00673 and 0.00844 mg/L) was detected at an estimated concentrations greater than the MDL and less than the RL in field blanks BRA-APBCD-FB-01 and BRA-APBCD-FB-07, respectively. Therefore, the estimated boron concentrations in the associated samples were U qualified as not detected at the RL.

Barium (0.000729 and 0.00104 mg/L) and magnesium (0.0283 and 0.0112 mg/L) were detected at estimated concentrations greater than the MDLs and less than the RLs in field blanks BRA-APBCD-FB-01 and BRA-APBCD-FB-02, respectively. Therefore, the estimated concentrations of barium and magnesium in BRA-APBCD-EB-04 were U qualified as not detected at or above the RLs.

Calcium (0.105 mg/L) and manganese (0.00124 mg/L) were detected at estimated concentrations greater than the MDLs and less than the RLs in field blank BRA-APBCD-FB-02. Therefore, the estimated concentrations of calcium and manganese in BRA-APBCD-EB-04 were U qualified as not detected at or above the RLs.

Sodium (0.291, 0.37 and 0.185 mg/l) was detected in field blanks BRA-APBCD-FB-01 and BRA-APBCD-FB-02, respectively, at concentrations greater than the RL and detected in BRA-APBCD-FB-03 at an estimated concentration greater than the MDL and less than the RL. Therefore, the estimated concentrations of sodium in the associated samples were U qualified as not detected at or above the RL and the concentrations in samples BRA-APBCD-EB-04 and BRA-APBCD-EB-06 were J+ qualified as estimated with high bias.

Boron (0.0205 mg/L) was detected in field blank BRA-APE-FB-08 at a concentration greater than the RL. Therefore, the concentrations of boron in samples BRA-BRGWC-17S and BRA-PZ-52D were J+ qualified as estimated with high bias.

Barium (0.000714mg/L), calcium (0.085 mg/L) and magnesium (0.0147 mg/L) were detected at estimated concentrations greater than the MDLs and less than the RLs in field blank BRA-APE-FB-08. Therefore, the concentration of calcium in BRA-APE-EB-10 was J+ qualified as estimated with high bias and the estimated concentration of magnesium in BRA-APE-EB-10 was U qualified as not detected at or above the RL. Since barium was detected at concentrations greater than the RL in the associated samples and based on professional and technical judgment, no qualifications were applied to the data.

Sodium (0.282 mg/L) was detected in field blank BRA-APE-FB-08 at a concentration greater than the RL. Therefore, the concentration of sodium in sample BRA-APE-EB-10 was J+ qualified as estimated with high bias.

Sample ID	Compound	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier*	Reason Code**
BRA-APBCD-EB-05	Sodium	0.104	J	0.250	U	3
BRA-APBCD-EB-06	Sodium	0.352	NA	0.352	J+	3
BRA-APBCD-EB-04	Sodium	0.359	NA	0.359	J+	3
BRA-APBCD-EB-04	Barium	0.00138	J	0.00400	U	3
BRA-APBCD-EB-04	Magnesium	0.0165	J	0.0300	U	3
BRA-APBCD-EB-04	Manganese	0.0014	J	0.00500	U	3
BRA-APBCD-EB-04	Calcium	0.143	J	0.200	U	3
BRA-APE-EB-10	Calcium	0.361	NA	0.361	J+	3
BRA-APE-EB-10	Sodium	0.289	NA	0.289	J+	3
BRA-APE-EB-10	Magnesium	0.0142	J	0.0300	U	3
BRA-BRGWC-17S	Boron	0.0601	NA	0.0601	J+	3
BRA-PZ-52D	Boron	0.0668	NA	0.0668	J+	3
BRA-BRGWC-37S	Boron	0.00802	J	0.015	U	3
BRA-PZ-13S	Boron	0.00855	J	0.015	U	3
BRA-BRGWA-2I	Boron	0.00649	J	0.0052	U	3
BRA-BRGWA-2S	Boron	0.00738	J	0.0052	U	3
BRA-BRGWA-5I	Boron	0.0073	J	0.0052	U	3
BRA-BRGWA-5S	Boron	0.00764	J	0.0052	U	3
BRA-BRGWA-6S	Boron	0.00611	J	0.0052	U	3

mg/L- milligram per liter
J-the result is less than RL but greater than the MDL and the concentration is an approximate value
NA-not applicable
* Validation qualifiers are defined in Attachment 1 at the end of this report
**Reason codes are defined in Attachment 2 at the end of this report

1.8 Equipment Blank

Five equipment blanks, BRA-APBCD-EB-04, BRA-APBCD-EB-05, BRA-APBCD-EB-06, BRA-APE-EB-09 and BRA-APE-EB-10 were collected with the sample set. Metals were not detected in the equipment blanks at or above the MDLs, with the following exceptions.

Barium (0.000812 mg/L), calcium (0.115 mg/L), manganese (0.0014 mg/L) and magnesium (0.018 mg/L) were detected at estimated concentrations greater that the MDLs and less than the RLs in equipment blank BRA-APBCD-EB-04. Since the concentrations of these analytes in equipment blank BRA-APBCD-EB-04 were U qualified as not detected at the RL due to field blank contamination and based on professional and technical judgment, no additional qualifications were applied to the data.

Potassium (0.11 mg/L) was detected at an estimated concentration greater than the MDL and less than the RL in equipment blank BRA-APE-EB-10. Since the concentration of potassium in the associated samples was greater than ten times the blank concentration, and based on technical and professional judgement, no qualifications were applied to the data.

Sodium (0.359 mg/L) was detected in equipment blank BRA-APBCD-EB-04 at a concentration greater than the RL. Therefore, the sodium concentrations in the associated samples greater than the equipment blank concentration and less than ten times the equipment blank concentration were J+ qualified as estimated with high bias.

Sodium (0.104 mg/L) was detected in equipment blank BRA-APBCD-EB-05 at a concentration greater than the RL. Since sodium results in the associated samples were qualified due to equipment blank BRA-APBCD-EB-04 and based on professional and technical judgment, no additional qualifications were applied to the data.

Barium (0.000812 mg/L), calcium (0.115 mg/L) and magnesium (0.018 mg/L) were detected in equipment blank BRA-APBCD-EB-06 at estimated concentrations greater than the MDLs and less than the RLs. Since barium, calcium and magnesium were detected at concentrations greater than the RLs in the associated samples and based on professional and technical judgment, no qualifications were applied to the data.

Sodium (0.352 mg/L) was detected in equipment blank BRA-APBCD-EB-06 at a concentration greater than the RL. Since the sodium results in the associated samples were qualified due to equipment blank BRA-APBCD-EB-04 and based on professional and technical judgment, no additional qualifications were applied to the data.

Potassium (0.11 mg/L) and magnesium (0.0142 mg/L) were detected in equipment blank BRA-APE-EB-10 at estimated concentrations greater than the MDLs and less than the RLs. Since the magnesium concentration in equipment blank BRA-APE-EB-10 was U qualified due to field blank contamination, potassium was detected at concentrations greater than the RL in the associated samples and based on professional and technical judgment, no additional qualifications were applied to the magnesium data.

Calcium (0.361 mg/L) was detected in equipment blank BRA-APE-EB-10 at a concentration greater than the RL. Since calcium was detected at concentrations greater than the RL in the associated samples and based on professional and technical judgment, no qualifications were applied to the data.

Sodium (0.289 mg/L) was detected in equipment blank BRA-APE-EB-10 at a concentration greater than the RL. Since sodium results in the associated samples were qualified due to

equipment blank BRA-APBCD-EB-04 and based on professional and technical judgment, no additional qualifications were applied to the data.

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
BRA-BRGWA-2S	Sodium	3.09	NA	3.09	J+	3
BRA-BRGWA-5S	Sodium	3.48	NA	3.48	J+	3
BRA-BRGWA-6S	Sodium	2.11	NA	2.11	J+	3

mg/L- milligram per liter
NA-not applicable

1.9 Field Duplicate

Five duplicate samples, BRA-APBCD-FD-01, BRA-APBCD-FD-02, BRA-APBCD-FD-03, BRA-APE-FD-04 and BRA-APE-FD-05 were collected with the sample set. Acceptable precision [RPD < 20% or the difference between the concentrations < reporting limit (RL)] was demonstrated between the field duplicates and the original samples, BRA-BRGWC-50, BRA-PZ-63I, BRA-BRGWC-45, BRA-BRGWC-33S and BRA-BRGWC-35S, respectively, with the following exceptions.

634650: Selenium was not detected in sample BRA-BRGWC-50 and detected at an estimated concentration greater than the MDL and less than the RL in field duplicate BRA-APBCD-FD-01, resulting in a noncalculable RPD between the results. Since the difference between the results were within the RL of each other, no qualifications were applied to the data.

634441: Lithium was detected in field duplicate BRA-APE-FD-04 at a concentration greater than the RL and detected at an estimated concentration greater than the MDL and less than the RL in sample BRA-BRGWC-33S, resulting in a noncalculable RPD between the results. Since the difference between the results were within the RL of each other, no qualifications were applied to the data.

634615: Beryllium was not detected in field duplicate BRA-APE-FD-05 and detected at an estimated concentration greater than the MDL and less than the RL in sample BRA-BRGWC-35S, resulting in a noncalculable RPD between the results. Since the difference between the results were within the RL of each other, no qualifications were applied to the data.

Iron was detected in sample BRA-BRGWC-35S at a concentration greater than the RL and detected at an estimated concentration greater than the MDL and less than the RL in field duplicate BRA-APE-FD-05, resulting in a noncalculable RPD between the results. Since the difference between the results were within the RL of each other, no qualifications were applied to the data.

1.10 Serial Dilution

Four sample set specific serial dilutions were reported for metals using samples BRA-BRGWC-17S, BRA-BRGWC-34S, BRA-PZ-51I and BRA-BRGWC-27I. The percent difference (%D) results were within the method specified acceptance criteria.

One batch serial dilution was also reported. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

1.11 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were reported due to dilutions analyzed.

1.12 Electronic Data Deliverable (EDD) Review

The results and sample IDs in the EDDs were reviewed against the information provided by the associated level II reports at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II reports and the EDDs.

2.0 MERCURY

The samples were analyzed for mercury by US EPA Method 7470A.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable or not applicable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Time
- ✓ Method Blank
- ✓ Matrix Spike
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Field Blank
- ✓ Equipment Blank
- ✓ Field Duplicate
- ✓ Serial Dilution
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

2.1 Overall Assessment

The mercury data reported in this laboratory report are considered usable for supporting project objectives. The results are considered valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

2.2 Holding Times

The holding time for the mercury analysis of a water sample is 28 days from sample collection to analysis. The holding times were met.

2.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Four method blanks were reported (batches 2482660, 2482623, 2483665 and 2483667). Mercury was not detected in the method blanks at or above the MDL.

2.4 Matrix Spike

MSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two sample set specific MSs were reported using samples BRA-BRGWA-5S and BRA-PZ-13S. The recovery results were within the laboratory specified acceptance criteria.

Two batch MSs were also reported. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

2.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Four LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

2.6 Laboratory Duplicate

Two sample set specific laboratory duplicates were reported using sample BRA-BRGWA-5S and BRA-PZ-13S. The RPD results were within the laboratory specified acceptance criteria.

Two batch laboratory duplicates were also reported. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

2.7 Field Blank

Five field blanks, BRA-APBCD-FB-01, BRA-APBCD-FB-02, BRA-APBCD-FB-03, BRA-APE-FB-07 and BRA-APE-FB-08 were collected with the sample set. Mercury was not detected in the field blanks at or above the MDL.

2.8 Equipment Blank

Five equipment blanks, BRA-APBCD-EB-04, BRA-APBCD-EB-05, BRA-APBCD-EB-06, BRA-APE-EB-09 and BRA-APE-EB-10 were collected with the sample set. Mercury was not detected in the equipment blanks at or above the MDL.

2.9 Field Duplicate

Five duplicate samples, BRA-APBCD-FD-01, BRA-APBCD-FD-02, BRA-APBCD-FD-03, BRA-APE-FD-04 and BRA-APE-FD-05 were collected with the sample set. Acceptable precision [RPD < 20% or the difference between the concentrations < reporting limit (RL)] was demonstrated between the field duplicates and the original samples, BRA-BRGWC-50, BRA-PZ-63I, BRA-BRGWC-45, BRA-BRGWC-33S and BRA-BRGWC-35S, respectively.

2.10 Serial Dilution

Two sample set specific serial dilutions were performed using samples BRA-BRGWA-5, BRA-PZ-13S and BRA-PZ-51I. The %D results were within the method specified acceptance criteria. Two batch serial dilutions were also reported for mercury. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

2.11 Sensitivity

The samples were reported to the MDL. Elevated non-detect results were not reported.

2.12 Electronic Data Deliverable Review

The results and sample IDs in the EDDs were reviewed against the information provided by the associated level II reports at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II reports and the EDDs.

3.0 WET CHEMISTRY

The samples were analyzed for anions by US EPA method 300.0, TDS by SM 2540C, total sulfide by SM 4500-S2-D and alkalinity by SM 2320B.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable or not applicable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

✓ Overall Assessment
✓ Holding Times
✓ Method Blank
⊗ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Laboratory Duplicate
⊗ Field Blank
⊗ Equipment Blank
✓ Field Duplicate
✓ Sensitivity
✓ Electronic Data Deliverables Review

3.1 Overall Assessment

3.1.1 Completeness

The wet chemistry data reported in this laboratory report are considered usable for supporting project objectives. The results are considered valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

3.1.2 Analysis Anomaly

The laboratory noted that samples BRA-BRGWC-36S and BRA-PZ-70I were manually integrated to correctly position the baseline as set in the calibration standards for the anion analyses. No qualifications were applied to the data based on professional and technical judgment.

3.2 Holding Times

The holding time for the nitrate-n analyses of a water sample is 48 hours from sample collection to analysis. The holding time for the fluoride, chloride and sulfate analyses of a water sample is 28 days from sample collection to analysis. The holding times for the TDS and total sulfide analysis of a water sample are 7 days from sample collection to analysis. The holding time for the alkalinity analysis of a water sample is 14 days from sample collection to analysis. The holding times were met.

3.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Seven method blanks were reported for anions (batches 2482580, 2481584, 2482641, 2482649, 2481608, 2483105 and 2483150). Nine method blanks were reported for TDS (batches 2483702, 2484233, 2484234, 2482652, 2482655, 2484583, 2484591, 2484594 and 2482658). Six method blanks were reported for total sulfide (batches 2482961, 2483779, 2481696, 2483133 795173 and 806681). The wet chemistry parameters were not detected in the method blanks at or above the MDLs.

3.4 Matrix Spike/Matrix Spike Duplicate

Five sample set specific MSs were reported for anions, using samples BRA-BRGWC-17S, BRA-BRGWC-33S, BRA-BRGWC-29I and BRA-PZ-53D. The recovery results were within the laboratory specified acceptance criteria, with the following exceptions.

634441: The recoveries of chloride and nitrate as N in the MS using sample BRA-BRGWC-33S were low and outside of laboratory specified acceptance criteria. Therefore, the estimated concentration for nitrate as N in sample BRA-BRGWC-33S was J qualified as estimated. Since the concentration for chloride in sample BRA-BRGWC-33S was greater than four times the spike amount, no qualifications were applied to the chloride data.

634615: The recovery of chloride in the MS using sample BRA-BRGWC-17S was high and outside of laboratory specified acceptance criteria. Therefore, the concentration of chloride in sample BRA-BRGWC-17S was J+ qualified as estimated with high bias.

Seven sample set specific MS/MSDs were reported for sulfide, using samples BRA-BRGWA-5I, BRA-BRGWA-2I, BRA-BRGWC-35S, BRA-BRGWC-33S, BRA-BRGWA-2S, BRA-BRGWC-50 and BRA-BRGWC-45. The recovery results were within the laboratory specified acceptance criteria, with the following exceptions.

680-242425-1: The sulfide recoveries in the MS/MSD pair using sample BRA-BRGWA-2I were low and outside of laboratory specified acceptance criteria. Therefore, the nondetect result for sulfide for sample BRA-BRGWA-2I was UJ qualified as estimated below the MDL.

634615: The sulfide recoveries in the MS/MSD pair using sample BRA-BRGWC-35S were low and outside of laboratory specified acceptance criteria. Therefore, the nondetect result for sulfide for sample BRA-BRGWC-35S was UJ qualified as estimated below the MDL.

634650: The sulfide recoveries in the MS/MSD pair using sample BRA-BRGWC-50 were low and outside of laboratory specified acceptance criteria. Therefore, the nondetect result for sulfide for sample BRA-BRGWC-50 was UJ qualified as estimated below the MDL.

634768: The sulfide recoveries in the MS/MSD pair using sample BRA-BRGWC-45 were low and outside of laboratory specified acceptance criteria. Therefore, the nondetect result for sulfide for sample BRA-BRGWC-45 was UJ qualified as estimated below the MDL.

Batch MSs and MS/MSD pairs were also reported for anions, alkalinity and sulfide. Since the batch QC results do not affect the samples in this data set, qualifications were not applied to the data.

Sample ID	Compound	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
BRA-BRGWC-17S	Chloride	5.18	NA	5.18	J+	4
BRA-BRGWC-33S	Nitrate	0.0707	J	0.0707	J-	4
BRA-BRGWC-35S	Total Sulfide	0.033	U	0.033	UJ	4
BRA-BRGWC-50	Total Sulfide	0.033	U	0.033	UJ	4
BRA-BRGWC-45	Total Sulfide	0.033	U	0.033	UJ	4
BRA-BRGWA-2I	Total Sulfide	0.81	U	0.81	UJ	4

mg/L- milligram per liter
U-not detected at or above the MDL
NA-not applicable
J-the result is less than RL but greater than the MDL and the concentration is an approximate value

3.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). An LCS or LCS/LCSD pair was reported for each analytical batch per analysis. The recovery and RPD results were within the laboratory specified acceptance criteria.

3.6 Laboratory Duplicate

Four sample set specific laboratory duplicates were reported for anions, using samples BRA-BRGWC-17S, BRA-BRGWC-33S, BRA-BRGWC-29I and BRA-PZ-53D. The RPD results were within the laboratory specified acceptance criteria.

One sample set specific laboratory duplicate was reported for TDS, using sample BRA-PZ-53D. The RPD result was within the laboratory specified acceptance criteria.

One sample set specific laboratory duplicate was reported for sulfide, using sample BRA-BRGWA-2S. The RPD result was within the laboratory specified acceptance criteria.

Batch laboratory duplicates were reported for TDS, alkalinity and anions. Since the batch QC results do not affect the samples in this data set, qualifications were not applied to the data.

3.7 Field Blank

Five field blanks, BRA-APBCD-FB-01, BRA-APBCD-FB-02, BRA-APBCD-FB-03, BRA-APE-FB-07 and BRA-APE-FB-08 were collected with the sample set. Wet chemistry parameters were not detected in the field blanks at or above the MDLs, with the following exceptions.

Fluoride (0.388, 0.516, 0.233, 0.0478 and 0.34 mg/L) was detected in field blanks BRA-APBCD-FB-01, BRA-APBCD-FB-02, BRA-APBCD-FB-03, BRA-APE-FB-07 and BRA-APE-FB-08, respectively. Therefore, for the associated samples the estimated fluoride concentrations were U qualified as not detected at the RL, the fluoride concentrations greater than the RL and less than the field blank concentrations were U qualified as not detected at the reported concentration and the fluoride concentrations of samples BRA-PZ-53D, BRA-BRGWC-17S, BRA-BRGWC-38S, BRA-PZ-52D, BRA-APE-FD-04, BRA-BRGWC-33S, BRA-APBCD-EB-06, BRA-BRGWC-25I, BRA-BRGWC-27I, BRA-BRGWC-47, BRA-PZ-51D, BRA-APBCD-FD-01, BRA-PZ-58I and BRA-PZ-60I were J+ qualified as estimated with high bias.

Chloride (0.206 mg/L) was detected in field blank BRA-APE-FB-07. Therefore, the concentration of chloride in sample BRA-BRGWA-2I was J+ qualified as estimated with high bias.

Nitrate (0.043 mg/L) was detected at an estimated concentration greater than the MDL and less than the RL in field blank BRA-APE-FB-07. Therefore, the concentrations of nitrate in samples BRA-BRGWA-2S, BRA-BRGWA-5I, BRA-BRGWA-5S and BRA-BRGWC-37S were J+ qualified as estimated with high bias and the estimated concentrations in the associated samples were U qualified as not detected at or above the RL.

Sample ID	Compound	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
BRA-BRGWA-2I	Chloride	1.9	NA	1.9	J+	3
BRA-BRGWA-6S	Fluoride	0.0787	J	0.100	U	3
BRA-BRGWA-2S	Nitrate	0.218	NA	0.218	J+	3
BRA-BRGWA-5I	Nitrate	0.266	NA	0.266	J+	3
BRA-BRGWA-5S	Nitrate	0.203	NA	0.203	J+	3
BRA-APE-FD-04	Nitrate	0.063	J	0.100	U	3
BRA-BRGWC-33S	Nitrate	0.0707	J	0.100	U	3
BRA-BRGWC-34S	Nitrate	0.0431	J	0.100	U	3
BRA-BRGWC-37S	Nitrate	0.294	NA	0.294	J+	3
BRA-PZ-13S	Nitrate	0.0695	J	0.100	U	3
BRA-APBCD-EB-05	Fluoride	0.0798	J	0.100	U	3
BRA-APBCD-EB-06	Fluoride	0.435	NA	0.435	J+	3
BRA-APBCD-FD-03	Fluoride	0.198	NA	0.198	J+	3
BRA-BRGWC-25I	Fluoride	0.250	NA	0.250	J+	3
BRA-BRGWC-27I	Fluoride	0.302	NA	0.302	J+	3
BRA-BRGWC-29I	Fluoride	0.0849	J	0.100	U	3

Sample ID	Compound	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
BRA-BRGWC-45	Fluoride	0.185	NA	0.185	J+	3
BRA-BRGWC-47	Fluoride	0.243	NA	0.243	J+	3
BRA-BRGWC-52I	Fluoride	0.188	J	0.200	U	3
BRA-PZ-51D	Fluoride	0.395	NA	0.395	J+	3
BRA-PZ-74I	Fluoride	0.157	NA	0.157	J+	3
BRA-PZ-75I	Fluoride	0.14	NA	0.140	J+	3
BRA-BRGWA-23S	Fluoride	0.114	NA	0.114	J+	3
BRA-BRGWC-30I	Fluoride	0.116	NA	0.116	J+	3
BRA-BRGWC-32S	Fluoride	0.0477	J	0.100	U	3
BRA-PZ-61I	Fluoride	0.188	NA	0.188	J+	3
BRA-APBCD-EB-04	Fluoride	0.503	NA	0.503	J+	3
BRA-APBCD-FD-01	Fluoride	0.583	NA	0.583	J+	3
BRA-APBCD-FD-02	Fluoride	0.255	NA	0.255	J+	3
BRA-BRGWC-50	Fluoride	0.499	NA	0.499	J+	3
BRA-PZ-44	Fluoride	0.195	NA	0.195	J+	3
BRA-PZ-50D	Fluoride	0.193	NA	0.193	J+	3
BRA-PZ-51I	Fluoride	0.0744	J	0.100	U	3
BRA-PZ-58I	Fluoride	1.10	NA	1.10	J+	3
BRA-PZ-60I	Fluoride	1.32	NA	1.32	J+	3
BRA-PZ-63I	Fluoride	0.252	NA	0.252	J+	3
BRA-PZ-64I	Fluoride	0.135	NA	0.135	J+	3
BRA-PZ-68D	Fluoride	0.218	NA	0.218	J+	3
BRA-APE-EB-09	Fluoride	0.0531	J	0.100	U	3
BRA-APE-EB-10	Fluoride	0.302	NA	0.302	U	3
BRA-APE-FD-05	Fluoride	0.341	NA	0.341	U	3
BRA-BRGWC-17S	Fluoride	0.484	NA	0.484	J+	3
BRA-BRGWC-35S	Fluoride	0.347	NA	0.347	U	3
BRA-BRGWC-36S	Fluoride	0.301	NA	0.301	U	3
BRA-BRGWC-38S	Fluoride	0.748	NA	0.748	J+	3
BRA-PZ-52D	Fluoride	1.94	NA	1.94	J+	3
BRA-PZ-70I	Fluoride	0.229	NA	0.229	U	3
BRA-APE-FD-04	Fluoride	0.119	NA	0.119	J+	3
BRA-BRGWC-33S	Fluoride	0.123	NA	0.123	J+	3
BRA-BRGWC-34S	Fluoride	0.0816	J	0.200	U	3
BRA-BRGWC-37S	Fluoride	0.0445	J	0.100	U	3
BRA-PZ-53D	Fluoride	0.334	NA	0.334	J+	3

mg/L- milligram per liter
J-the result is less than RL but greater than the MDL and the concentration is an approximate value
NA-not applicable

3.8 Equipment Blank

Five equipment blanks, BRA-APBCD-EB-04, BRA-APBCD-EB-05, BRA-APBCD-EB-06, BRA-APE-EB-09 and BRA-APE-EB-10 were collected with the sample set. Wet chemistry

parameters were not detected in the equipment blanks at or above the MDLs, with the following exceptions.

Sulfate (0.329 mg/L) was detected at an estimated concentration greater than the MDL and less than the RL in equipment blank BRA-APE-EB-10. Therefore, the estimated sulfate concentration in the associated sample was U qualified as not detected at the RL and the sulfate concentrations in samples BRA-BRGWA-2S, BRA-BRGWA-5S and BRA-BRGWA-6S, were J+ qualified as estimated with high bias.

Chloride (0.581 mg/L) and nitrate (0.470 mg/L) were detected in BRA-APE-EB-10 at concentrations greater than the RLs. Therefore, for the associated samples the chloride and nitrate concentrations were qualified as following. The estimated concentrations were U qualified as not detected at the RLs. The concentrations greater than the RLs and less than the equipment blank concentrations were U qualified as not detected at the reported concentration and the concentrations greater than the equipment blank concentrations and less than ten times the equipment blank concentrations were J+ qualified as estimated with high bias.

Fluoride (0.0531 mg/L, 0.503 mg/L, 0.0798 mg/L and 0.302 mg/L) was detected at estimated concentrations greater than the MDL and less than the RL in BRA-APE-EB-09, BRA-APBCD-EB-04, BRA-APBCD-EB-05 and BRA-APBCD-EB-10, respectively. Since the fluoride concentrations in these equipment blanks were U qualified due to field blank contamination and based on professional and technical judgment, no additional qualifications were applied to the data.

Chloride (0.282 mg/L) and fluoride (0.435 mg/L) were detected in BRA-APBCD-EB-06. Since the chloride concentrations in the associated samples were qualified due to equipment blank BRA-APE-EB-10 and the fluoride concentrations in the associated samples were qualified due to field blank contamination and based on professional and technical judgment, no additional qualifications were applied to the data.

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
BRA-BRGWC-17S	Nitrate	0.094	J	0.100	U	3
BRA-BRGWC-17S	Chloride	5.18	NA	5.18	J+	3
BRA-PZ-70I	Nitrate	0.175	NA	0.175	U	3
BRA-PZ-70I	Chloride	5.75	NA	5.75	J+	3
BRA-BRGWC-37S	Chloride	1.89	NA	1.89	J+	3
BRA-BRGWC-37S	Sulfate	0.355	J	0.400	U	3
BRA-PZ-13S	Chloride	2.73	NA	2.73	J+	3
BRA-APBCD-FD-03	Nitrate	0.0476	J	0.100	U	3
BRA-BRGWC-27I	Nitrate	0.0657	J	0.100	U	3
BRA-BRGWC-27I	Chloride	4.81	NA	4.81	J+	3
BRA-BRGWC-29I	Nitrate	0.297	NA	0.297	U	3

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
BRA-BRGWC-47	Nitrate	0.117	NA	0.117	U	3
BRA-BRGWC-47	Chloride	4.67	NA	4.67	J+	3
BRA-PZ-74I	Nitrate	0.0475	J	0.100	U	3
BRA-PZ-75I	Nitrate	0.794	NA	0.794	J+	3
BRA-BRGWA-23S	Chloride	2.41	NA	2.41	J+	3
BRA-BRGWA-23S	Nitrate	0.212	NA	0.212	U	3
BRA-BRGWC-30I	Chloride	3.35	NA	3.35	J+	3
BRA-BRGWC-32S	Chloride	4.30	NA	4.30	J+	3
BRA-BRGWC-32S	Nitrate	0.184	NA	0.184	U	3
BRA-BRGWA-2S	Sulfate	0.526	NA	0.526	J+	3
BRA-BRGWA-5S	Sulfate	0.540	NA	0.540	J+	3
BRA-BRGWA-6S	Sulfate	0.467	NA	0.467	J+	3

mg/L- milligram per liter
J-the result is less than RL but greater than the MDL and the concentration is an approximate value
NA-not applicable

3.9 Field Duplicate

Five duplicate samples, BRA-APBCD-FD-01, BRA-APBCD-FD-02, BRA-APBCD-FD-03, BRA-APE-FD-04 and BRA-APE-FD-05 were collected with the sample set. Acceptable precision [RPD < 20% or the difference between the concentrations < reporting limit (RL)] was demonstrated between the field duplicates and the original samples, BRA-BRGWC-50, BRA-PZ-63I, BRA-BRGWC-45, BRA-BRGWC-33S and BRA-BRGWC-35S, respectively, with the following exception.

634768: Nitrate was not detected in sample BRA-BRGWC-45 and detected at an estimated concentration greater than the MDL and less than the RL in field duplicate BRA-APBCD-FD-03, resulting in a noncalculable RPD between the results. Since the nitrate concentration for field duplicate BRA-APBCD-FD-03 was U qualified due to equipment blank contamination and based on professional and technical judgement, no additional qualifications were applied to the data.

3.10 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were reported due to dilutions analyzed.

3.11 Electronic Data Deliverable Review

The results and sample IDs in the EDDs were reviewed against the information provided by the associated level II reports at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II reports and the EDDs.

ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS
AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

U The analyte was analyzed for, but was not detected at or above the reported sample quantitation limit. Upon application of the U qualifier to a reported result, the definition changes to "not detected at or above the reported result".

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

J+ The analyte was positively identified; however, the associated numerical value is likely to be higher than the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.

J- The analyte was positively identified; however, the associated numerical value is likely to be lower than the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.

UJ The analyte was not detected at or above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec's Data Validation Team

Valid Value	Description
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip, equipment, etc.)
4	Matrix spike/matrix spike duplicate recovery or RPD outside limits
5	LCS or RPD recovery outside limits (LCS/LCSD)
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference exceeded
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other
14	Lab flag removed or modified: no validation qualification required

LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample duplicate
RPD - Relative percent difference

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Memorandum

Date:	24 January 2024
To:	Courtney Collins
From:	Ashley Wilson
CC:	K. Henderson
Subject:	**Stage 2A Data Validation - Level II Data Deliverables – GEL Laboratories, LLC Work Orders 634448, 634643 and 634649**

SITE: Plant Branch CCR Groundwater Compliance Transect and Porewater Assessment

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of four groundwater samples collected 22-23 August 2023, as part of the Plant Branch on-site sampling event.

The samples were analyzed at GEL Laboratories LLC, Charleston, SC, for the following analytical tests:

- Total and Dissolved Metals by United States (US) Environmental Protection Agency (EPA) Methods 3005A/6020B
- Anions (Nitrate-Nitrogen (N), Chloride, Fluoride and Sulfate) by US EPA Method 300.0
- Total Dissolved Solids (TDS) by Standard Method (SM) 2540C
- Total Sulfide by SM 4500-S2-D
- Alkalinity by SM 2320B

EXECUTIVE SUMMARY

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below and based on the information provided, the data are usable for supporting project objectives. If

The data were reviewed based on the following documents, the pertinent methods referenced by the data package and professional and technical judgment:

- US EPA Region IV Data Validation Standard Operating Procedures (US EPA Region IV, September 2011); and

- USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review, November 2020 (EPA 542-R-20-006).

The following samples were analyzed and reported in the laboratory reports:

Laboratory IDs	Client IDs
634448001	BRA-PZ-79; 08/22/2023
634643001	BRA-PZ-79; 08/23/2023

Laboratory IDs	Client IDs
634649001	BRA-PZ-76I
634649002	BRA-PZ-77I

The samples were received at 4.0, 3.0, 2.0 and 1.0 degrees Celsius (ºC), both within and outside of the EPA Region 4 criteria of 4ºC $\pm$ 2ºC. Since the samples were received between 0-6ºC and based on professional judgment, no qualifications were applied to the data. No sample preservation issues were noted by the laboratory.

634448: The relinquished by time and the received by time for the second sample transfer were inconsistent on the COC. The relinquishing time appears to not be documented in military time.

1.0 METALS

The samples were analyzed for metals by US EPA methods 3005A/6020B.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable or not applicable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

✓ Overall Assessment
✓ Holding Time
✓ Method Blank
✓ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Laboratory Duplicate
✓ Field Blank
✓ Equipment Blank
✓ Field Duplicate
✓ Serial Dilution
✓ Sensitivity
✓ Electronic Data Deliverables Review

1.1 Overall Assessment

1.1.1 Completeness

The metals data reported in this laboratory report are considered usable for supporting project objectives. The results are considered valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

1.1.2 Analysis Anomaly

The laboratory noted that the contract required detection limit (CRDL) for calcium did not meet the laboratory specified acceptance criteria. Since the calcium results in the associated samples were significantly greater than the CRDL, based on professional and technical judgement, no qualifications were applied to the data.

The laboratory also noted that for the Inductively Coupled Plasma – Mass Spectrometry analysis, the Interference Check Sample (ICSA) solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

1.2 Holding Time

The holding time for the metals analysis of a water sample is 180 days from sample collection to analysis. The holding times were met.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two method blanks were reported (batches 2482702 and 2482704). Metals were not detected in the method blanks at or above the method detection limits (MDLs).

1.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSDs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples).

Three batch MS/MSDs were also reported. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

1.6 Laboratory Duplicate

Laboratory duplicates were not reported for metals.

1.7 Field Blank

Field blanks were not reported with the sample set.

1.8 Equipment Blank

Equipment blanks were not reported with the sample set.

1.9 Field Duplicate

Field duplicates were not reported with the sample set.

1.10 Serial Dilution

Three batch serial dilutions were reported. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

1.11 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were reported due to dilutions analyzed.

1.12 Electronic Data Deliverable (EDD) Review

The results and sample IDs in the EDDs were reviewed against the information provided by the associated level II reports at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II reports and the EDDs.

2.0 WET CHEMISTRY

The samples were analyzed for anions by US EPA method 300.0, TDS by SM 2540C, total sulfide by SM 4500-S2-D and alkalinity by SM 2320B.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable or not applicable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

2.1 Overall Assessment

2.1.1 Completeness

The wet chemistry data reported in this laboratory report are considered usable for supporting project objectives. The results are considered valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

2.1.2 Analysis Anomaly

The laboratory noted that sample BRA-PZ-76I was manually integrated to correctly position the baseline as set in the calibration standards for the anion analysis.

2.2 Holding Times

The holding time for the nitrate-n analyses of a water sample is 48 hours from sample collection to analysis. The holding time for the fluoride, chloride, sulfate analyses of a water sample is 28 days from sample collection to analysis. The holding times for the TDS and total sulfide analysis of a water sample are 7 days from sample collection to analysis. The holding time for the alkalinity analysis of a water sample is 14 days from sample collection to analysis. The holding times were met.

2.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two method blanks were reported for anions (batches 2481584 and 2482641). Nine method blanks were reported for TDS (batch 2482658 and 2484234). Four method blanks were reported for total sulfide (batches 2482961, 2483779, 2481696 and 2483133). The wet chemistry parameters were not detected in the method blanks at or above the MDLs.

2.4 Matrix Spike

Two sample set specific MSs were reported for total alkalinity, using samples BRA-PZ-79 collected August 22, 2023, and collected August 23, 2023. The recovery result was within the laboratory specified acceptance criteria.

One sample set specific MS was reported for anions, using sample BRA-PZ-79 collected August 23, 2023. The recovery result was within the laboratory specified acceptance criteria.

Batch MSs were also reported for anions, alkalinity and sulfide. Since the batch QC results do not affect the samples in this data set, qualifications were not applied to the data.

2.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). An LCS was reported for each analytical batch per analysis. The recovery results were within the laboratory specified acceptance criteria.

2.6 Laboratory Duplicate

One sample set specific laboratory duplicate was reported for total alkalinity, using sample BRA-PZ-79. The relative percent difference (RPD) result was within the laboratory specified acceptance criteria.

One sample set specific laboratory duplicate was reported for anions, using sample BRA-PZ-79 collected August 23, 2023. The RPD result was within the laboratory specified acceptance criteria.

Batch laboratory duplicates were reported for TDS, alkalinity and anions. Since the batch QC results do not affect the samples in this data set, qualifications were not applied to the data.

2.7 Field Duplicate

Field duplicates were not reported with the sample set.

2.8 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were reported due to dilutions analyzed.

2.9 Electronic Data Deliverable Review

The results and sample IDs in the EDDs were reviewed against the information provided by the associated level II reports at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II reports and the EDDs.

ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS
AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

U The analyte was analyzed for, but was not detected above the reported sample quantitation limit. Upon application of the U qualifier to a reported result, the definition changes to "not detected at or above the reported result".

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

J+ The analyte was positively identified; however, the associated numerical value is likely to be higher than the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.

J- The analyte was positively identified; however, the associated numerical value is likely to be lower than the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec's Data Validation Team

Valid Value	Description
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip, equipment, etc.)
4	Matrix spike/matrix spike duplicate recovery or RPD outside limits
5	LCS or RPD recovery outside limits (LCS/LCSD)
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference exceeded
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other
14	Lab flag removed or modified: no validation qualification required

LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample duplicate
RPD - Relative percent difference

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Memorandum

Date:	13 February 2024
To:	Lauren Fitzgerald
From:	Kristoffer Henderson
CC:	Matthew Richardson
Subject:	**Stage 2A Data Validation - Level II Data Deliverables – GEL Laboratories, LLC Work Orders (WOs) 634443, 634648, 634450, 634781, 634446, 634652 and 634789**

SITE: Plant Branch CCR Groundwater Compliance

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of thirty-eight groundwater samples, five equipment blanks, five field blanks and five field duplicate samples, collected between 22-24 August 2023, as part of the Plant Branch CCR Groundwater Compliance sampling event.

The samples were analyzed at GEL Laboratories LLC, Charleston, SC, for the following analytical tests:

- Radium-226 by Modified United States (US) Environmental Protection Agency (EPA) Method 903.1
- Radium-228 by Modified US EPA Methods 904.0/9320 Modified
- Total Radium by Calculation

EXECUTIVE SUMMARY

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below and based on the information provided, the data as qualified are usable for supporting project objectives. The qualified data should be used within the limitations of the qualifications. If there are results with two or more different qualifications due to multiple QC failures, the final qualification is reconciled in the electronic data deliverable (EDD) with qualifications.

The data were reviewed based on the pertinent methods referenced in the laboratory reports, professional and technical judgment, and the following documents:

- American Nuclear Society Verification and Validation of Radiological Data for use in Waste Management and Environmental Remediation (ANSI/ANS-41.5-2012), February 15, 2012.

The following samples were analyzed and reported in the laboratory reports:

Laboratory ID	Client ID
634443001	BRA-BRGWC-33S
634443002	BRA-APE-FD-04
634443003	BRA-BRGWC-34S
634443004	BRA-APE-FB-07
634443005	BRA-BRGWC-37S
634443006	BRA-PZ-13S
634446002	BRA-BRGWA-23S
634446003	BRA-BRGWC-30I
634446004	BRA-BRGWC-32S
634446005	BRA-PZ-61I
634446006	BRA-APBCD-FB-01
634450001	BRA-BRGWA-2S
634450002	BRA-BRGWA-5S
634450003	BRA-BRGWA-5I
634450004	BRA-BRGWA-6S
634450005	BRA-BRGWA-2I
634648001	BRA-BRGWC-17S
634648002	BRA-BRGWC-35S
634648003	BRA-BRGWC-36S
634648004	BRA-BRGWC-38S
634648005	BRA-PZ-70I
634648006	BRA-APE-FD-05
634648007	BRA-APE-FB-08
634648008	BRA-APE-EB-09
634648009	BRA-APE-EB-10
634652001	BRA-PZ-51I
634652002	BRA-PZ-58I

Laboratory ID	Client ID
634652003	BRA-PZ-60I
634652004	BRA-PZ-63I
634652005	BRA-PZ-64I
634652006	BRA-PZ-68D
634652007	BRA-APBCD-FB-02
634652008	BRA-APBCD-FD-01
634652009	BRA-APBCD-FD-02
634652010	BRA-BRGWC-50
634652011	BRA-APBCD-EB-04
634652012	BRA-PZ-44
634652013	BRA-PZ-50D
634781001	BRA-APBCD-FD-03
634781002	BRA-APBCD-EB-05
634781003	BRA-BRGWC-27I
634781004	BRA-BRGWC-45
634781005	BRA-PZ-75I
634781006	BRA-PZ-74I
634781007	BRA-BRGWC-29I
634781008	BRA-PZ-51D
634781009	BRA-APBCD-FB-03
634781010	BRA-APBCD-EB-06
634781011	BRA-BRGWC-52I
634781012	BRA-BRGWC-47
634781013	BRA-BRGWC-25I
634789001	BRA-PZ-53D
634789002	BRA-PZ-52D

No sample preservation issues were noted by the laboratory.

Sample collection times were not listed on the chain of custody (COC) for field duplicate samples, BRA-APE-FD-04, BRA-APE-FD-05, BRA-APBCD-FD-01, BRA-APBCD-FD-02 and BRA-APBCD-FD-03. Collection times were not documented in the laboratory reports.

1.0 RADIOCHEMISTRY

The samples were analyzed for radium-226 by modified US EPA method 903.1, modified radium-228 by US EPA methods 904.0/9320 modified and total radium by calculation.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

⊗ Overall Assessment
✓ Holding Times
⊗ Method Blank
✓ Matrix Spike
✓ Laboratory Control Sample
✓ Laboratory Duplicate
✓ Tracers and Carriers
⊗ Field Blank
⊗ Equipment Blank
✓ Field Duplicate
✓ Sensitivity
✓ Electronic Data Deliverables Review

1.1 Overall Assessment

1.1.1 Completeness

The radiochemistry data reported in this data set are considered usable for supporting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

1.1.2 Analysis Anomaly

Total radium was reported at the minimum detectable concentration (MDC) for radium-228 for the samples and total radium-226 was detected in the following samples greater than the MDC. In addition, since the total radium concentrations were less than the MDC for radium-228 the laboratory U flagged these concentrations as less than the MDC. Since total radium is calculated from radium-226 and radium-228 and radium-226 was greater than the MDC, and based on professional and technical judgment, the total radium concentrations for these samples were reported with no qualifications.

Sample
BRA-APE-FB-07
BRA-BRGWC-34S
BRA-BRGWC-37S
BRA-PZ-13S-WG

Sample
BRA-APBCD-EB-04
BRA-APBCD-FD-01
BRA-APBCD-FD-02
BRA-APBCD-FB-01

Sample
BRA-PZ-61I
BRA-APBCD-EB-06
BRA-BRGWC-25I
BRA-BRGWC-45

Sample
BRA-PZ-74I
BRA-BRGWA-2I

Sample
BRA-BRGWA-2S
BRA-PZ-52D

Sample
BRA-APE-FB-08

Total radium was reported at the MDC for radium-228 for the samples and total radium-226 and total radium-228 were not detected in sample BRA-APE-FB-08 greater than the MDC. In addition, since the total radium concentration was greater than the MDC for radium-228 the sample result was not U flagged as less than the MDC. Since total radium is calculated from radium-226 and radium-228 and radium-226 and radium-228 were less than the MDC, and based on professional and technical judgment, the total radium concentration for sample BRA-APE-FB-08 was U qualified as less than the MDC.

Sample	Analyte	Laboratory Result (pCi/L)	Laboratory Flag	Validation Result (pCi/L)	Validation Qualifier (pCi/L)	Reason Code
BRA-APE-FB-07	Total Radium	0.546	U	0.546	NA	13
BRA-BRGWC-34S	Total Radium	1.06	U	1.06	NA	13
BRA-BRGWC-37S	Total Radium	0.578	U	0.578	NA	13
BRA-PZ-13S-WG	Total Radium	0.823	U	0.823	NA	13
BRA-APBCD-EB-04	Total Radium	1.22	U	1.22	NA	13
BRA-APBCD-FD-01	Total Radium	2.39	U	2.39	NA	13
BRA-APBCD-FD-02	Total Radium	1.14	U	1.14	NA	13
BRA-APBCD-FB-01	Total Radium	0.595	U	0.595	NA	13
BRA-PZ-61I	Total Radium	0.868	U	0.868	NA	13
BRA-APBCD-EB-06	Total Radium	0.924	U	0.924	NA	13
BRA-BRGWC-25I	Total Radium	1.21	U	1.21	NA	13
BRA-BRGWC-45	Total Radium	0.607	U	0.607	NA	13
BRA-PZ-74I	Total Radium	0.811	U	0.811	NA	13
BRA-BRGWA-2I	Total Radium	0.857	U	0.857	NA	13
BRA-BRGWA-2S	Total Radium	0.592	U	0.592	NA	13
BRA-PZ-52D	Total Radium	1.14	U	1.14	NA	13
BRA-APE-FB-08	Total Radium	2.50	NA	2.50	U	13

pCi/L-picocuries per liter
U-not detected at or above the MDC
NA-not applicable
* Validation qualifiers are defined in Attachment 1 at the end of this report
**Reason codes are defined in Attachment 2 at the end of this report

1.2 Holding Times

The holding times for the radium-226 and radium-228 analyses of a water sample are 180 days from sample collection to analysis. The holding times were met for the sample analyses.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three method blanks were reported for the radium-226 data (batches 2483512, 2482017 and 2485948). Four method blanks were reported for the radium-228 data (batches 2483519, 2483035, 2494433 and 2485947). Radium-226 and radium-228 were not detected in the method blanks at or above the MDCs, with the following exceptions.

634789 and 634781: Radium-228 (1.94 pCi/L) was detected in the method blank in batch 2483519 at a concentration greater than the MDC. Since the mean differences were less than 2 between the blank and samples BRA-PZ-53D, BRA-APBCD-FB-03 and BRA-PZ-75I and the sample concentrations were less than ten times the blank concentration, the radium-228 concentrations for samples BRA-PZ-53D, BRA-APBCD-FB-03 and BRA-PZ-75I and combined radium concentrations for samples BRA-APBCD-FB-03 and BRA-PZ-53D were UJ qualified as estimated less than the reported concentrations and the combined radium concentrations in samples BRA-PZ-75I were J qualified as estimated. Since the mean differences were greater than 2 and less than 3 between the blank and samples BRA-APBCD-FD-03 and BRA-BRGWC-52I and the sample concentrations were less than ten times the blank concentration, the radium-228 and combined radium concentrations for samples BRA-APBCD-FD-03 and BRA-BRGWC-52I were J qualified as estimated.

634446, 634450 and 634443: Radium-228 (1.38 pCi/L) was detected in the method blank in batch 2494433 at a concentration greater than the MDC. Since radium-228 was not detected at concentrations greater than the MDC in the associated samples, no qualifications were applied to the data.

The blank qualifications are listed in Attachment 3 at the end of this report.

1.4 Matrix Spike (MS)

Four sample set specific MSs were reported for radium-226 using samples BRA-BRGWC-27I, BRA-PZ-51I, BRA-BRGWC-33S and BRA-BRGWC-17S. The recovery results were within the laboratory specified acceptance criteria.

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three LCSs were reported for radium-226 and four LCSs were reported for radium-228. The recovery results were within the laboratory specified acceptance criteria.

1.6 Laboratory Duplicate

Four sample set specific laboratory duplicates were reported for radium-226 using samples BRA-BRGWC-27I, BRA-PZ-51I, BRA-BRGWC-33S and BRA-BRGWC-17S and four sample set specific laboratory duplicates were reported for radium-228 using samples BRA-BRGWC-27I, BRA-PZ-51I, BRA-BRGWC-33S and BRA-BRGWC-17S. The replicate error ratio (RER) results were within the laboratory specified acceptance criteria.

1.7 Tracers and Carriers

Tracers were reported for radium-228 analyses. The recovery results were within the laboratory specified acceptance criteria.

1.8 Field Blank

Five field blanks, BRA-APBCD-FB-01, BRA-APBCD-FB-02, BRA-APBCD-FB-03, BRA-APE-FB-07 and BRA-APE-FB-08 were collected with the sample set. Radium-226 and Radium-228 were not detected in the field blanks at or above the MDCs, with the following exceptions.

Radium-226 (0.454 pCi/L) was detected in the BRA-APBCD-FB-01 at a concentration greater than the MDC. Radium-226 (0.377 pCi/L) was detected in the BRA-APE-FB-07 at a concentration greater than the MDC.

For radium-226 concentrations less than ten times the field blank concentration with a mean difference less than two, the radium concentration was UJ qualified as estimated less than the reported concentration. For radium-226 concentrations less than ten times the field blank concentration with a mean difference greater than 2 and less than 3, the radium-226 concentration was J qualified as estimated.

For samples with a UJ qualified radium-226 concentration and a radium-228 concentration less than the MDC, the total radium concentration was UJ qualified as estimated less than the reported concentration. For samples with a UJ qualified radium-226 concentration and a radium-228 concentration greater than the MDC, the total radium concentration was J qualified as estimated. For samples with a J qualified radium-226 concentration, the total radium concentration was J qualified as estimated.

Radium-228 (1.61 pCi/L) was detected in the BRA-APE-FB-03 at a concentration greater than the MDC. Since the radium-228 concentration in BRA-APE-FB-03 was UJ qualified as not detected at the reported concentration due to method blank contamination and based on professional and technical judgment, no additional qualifications were applied to the data.

The blank qualifications are listed in Attachment 3 at the end of this report.

1.9 Equipment Blank

Five equipment blanks, BRA-APBCD-EB-04, BRA-APBCD-EB-05 and BRA-APBCD-EB-06 BRA-APE-EB-09 and BRA-APE-EB-10 were collected with the sample set. Radium-226 and radium-228 were not detected in the equipment blanks at or above the MDCs, with the following exceptions.

Radium-226 (0.816 pCi/L) was detected in the BRA-APE-EB-04 at a concentration greater than the MDC. Radium-226 (0.639 pCi/L) was detected in the BRA-APE-EB-06 at a concentration greater than the MDC. Radium-226 (0.662 pCi/L) was detected in the BRA-APE-EB-09 at a concentration greater than the MDC. The associated samples were qualified as following:

For radium-226 concentrations less than ten times the equipment blank concentration with a mean difference less than 2, the radium concentration was UJ qualified as estimated less than the reported concentration. For radium-226 concentrations less than ten times the equipment blank concentration with a mean difference greater than 2 and less than 3, the radium-226 concentration was J qualified as estimated.

For samples with a UJ qualified radium-226 concentration and a radium-228 concentration less than the MDC, the total radium concentration was UJ qualified as estimated less than the reported concentration. For samples with a UJ qualified radium-226 concentration and a radium-228 concentration greater than the MDC, the total radium concentration was J qualified as estimated. For samples with a J qualified radium-226 concentration, the total radium concentration was J qualified as estimated.

The blank qualifications are listed in Attachment 3 at the end of this report.

1.10 Field Duplicate

Five field duplicate samples, BRA-APBCD-FD-01, BRA-APBCD-FD-02, BRA-APBCD-FD-03, BRA-APE-FD-04 and BRA-APE-FD-05 were collected with the sample set. Acceptable precision [RER (1σ) < 3] was demonstrated between the field duplicates and the original samples, BRA-BRGWC-50, BRA-PZ-63I, BRA-BRGWC-45, BRA-BRGWC-33S and BRA-BRGWC-35S, respectively.

1.11 Sensitivity

The samples were reported to the MDCs. Elevated non-detect results were not reported.

1.12 Electronic Data Deliverable Review

The results and sample IDs in the EDDs were reviewed against the information provided by the associated level II reports at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II reports and the EDDs.

**DATA VALIDATION QUALIFIER DEFINITIONS
AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team**

DATA QUALIFIER DEFINITIONS

U The analyte was analyzed for, but was not detected above the reported sample quantitation limit. Upon application of the U qualifier to a reported result, the definition changes to "not detected at or above the reported result."

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

J+ The analyte was positively identified; however, the associated numerical value is likely to be higher than the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.

J- The analyte was positively identified; however, the associated numerical value is likely to be lower than the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

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ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec's Data Validation Team

Valid Value	Description
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip, equipment, etc.)
4	Matrix spike/matrix spike duplicate recovery or RPD outside limits
5	LCS or RPD recovery outside limits (LCS/LCSD)
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference exceeded
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other
14	Lab flag removed or modified: no validation qualification required

LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample duplicate
RPD - Relative percent difference

ATTACHMENT 3
BLANK QUALIFICATIONS

Sample	Analyte	Laboratory Result (pCi/L)	Laboratory Flag	Validation Result (pCi/L)	Validation Qualifier	Reason Code
BRA-APE-FD-04	Radium-226	0.466	NA	0.466	UJ	3
BRA-APE-FD-04	Total Radium	1.55	NA	1.55	UJ	3
BRA-BRGWC-34S	Radium-226	0.499	NA	0.499	UJ	3
BRA-BRGWC-34S	Total Radium	1.06	U	1.06	UJ	3
BRA-BRGWC-37S	Radium-226	0.578	NA	0.578	UJ	3
BRA-BRGWC-37S	Total Radium	0.578	U	0.578	UJ	3
BRA-PZ-13S	Radium-226	0.550	NA	0.550	UJ	3
BRA-PZ-13S	Total Radium	0.823	U	0.823	UJ	3
BRA-APE-FD-05	Radium-226	0.559	NA	0.559	UJ	3
BRA-APE-FD-05	Total Radium	4.65	NA	4.65	J	3
BRA-BRGWC-35S	Radium-226	0.546	NA	0.546	UJ	3
BRA-BRGWC-35S	Total Radium	3.33	NA	3.33	J	3
BRA-BRGWC-36S	Radium-226	0.594	NA	0.594	UJ	3
BRA-BRGWC-36S	Total Radium	3.87	NA	3.87	J	3
BRA-BRGWC-38S	Radium-226	0.610	NA	0.610	UJ	3
BRA-BRGWC-38S	Total Radium	5.98	NA	5.98	J	3
BRA-PZ-70I	Radium-226	0.655	NA	0.655	UJ	3
BRA-PZ-70I	Total Radium	4.35	NA	4.35	J	3
BRA-BRGWA-2I	Radium-226	0.490	NA	0.490	UJ	3
BRA-BRGWA-2I	Total Radium	0.857	U	0.857	UJ	3
BRA-BRGWA-2S	Radium-226	0.377	NA	0.377	UJ	3
BRA-BRGWA-2S	Total Radium	0.592	U	0.592	UJ	3
BRA-BRGWA-5I	Radium-226	0.501	NA	0.501	UJ	3
BRA-BRGWA-5I	Total Radium	1.36	NA	1.36	UJ	3
BRA-APBCD-FD-01	Radium-226	1.09	NA	1.09	UJ	3
BRA-APBCD-FD-01	Total Radium	2.39	U	2.39	UJ	3
BRA-APBCD-FD-02	Radium-226	0.652	NA	0.652	UJ	3
BRA-APBCD-FD-02	Total Radium	1.14	U	1.14	UJ	3
BRA-BRGWC-50	Radium-226	1.26	NA	1.26	UJ	3
BRA-BRGWC-50	Total Radium	1.55	NA	1.55	UJ	3
BRA-PZ-50D	Radium-226	0.941	NA	0.941	UJ	3
BRA-PZ-50D	Total Radium	2.12	NA	2.12	UJ	3
BRA-PZ-51I	Radium-226	1.02	NA	1.02	UJ	3
BRA-PZ-51I	Total Radium	5.22	NA	5.22	J	3
BRA-PZ-58I	Radium-226	1.95	NA	1.95	J	3
BRA-PZ-58I	Total Radium	3.71	NA	3.71	J	3

Sample	Analyte	Laboratory Result (pCi/L)	Laboratory Flag	Validation Result (pCi/L)	Validation Qualifier	Reason Code
BRA-PZ-60I	Radium-226	1.83	NA	1.83	J	3
BRA-PZ-60I	Total Radium	4.48	NA	4.48	J	3
BRA-PZ-63I	Radium-226	0.873	NA	0.873	UJ	3
BRA-PZ-63I	Total Radium	2.31	NA	2.31	UJ	3
BRA-PZ-68D	Radium-226	0.786	NA	0.786	UJ	3
BRA-PZ-68D	Total Radium	1.62	NA	1.62	UJ	3
BRA-BRGWA-23S	Radium-226	1.06	NA	1.06	UJ	3
BRA-BRGWA-23S	Total Radium	2.16	NA	2.16	UJ	3
BRA-BRGWC-30I	Radium-226	0.736	NA	0.736	UJ	3
BRA-BRGWC-30I	Total Radium	2.71	NA	2.71	UJ	3
BRA-BRGWC-32S	Radium-226	0.729	NA	0.729	UJ	3
BRA-BRGWC-32S	Total Radium	2.33	NA	2.33	UJ	3
BRA-PZ-61I	Radium-226	0.353	NA	0.353	UJ	3
BRA-PZ-61I	Total Radium	0.868	U	0.868	UJ	3
BRA-APBCD-FB-03	Radium-228	1.61	NA	1.61	UJ	3
BRA-APBCD-FB-03	Total Radium	1.93	NA	1.93	UJ	3
BRA-APBCD-FD-03	Radium-228	4.38	NA	4.38	J	3
BRA-APBCD-FD-03	Total Radium	4.92	NA	4.92	J	3
BRA-BRGWC-25I	Radium-226	0.574	NA	0.574	UJ	3
BRA-BRGWC-25I	Total Radium	1.21	U	1.21	UJ	3
BRA-BRGWC-27I	Radium-226	1.13	NA	1.13	UJ	3
BRA-BRGWC-27I	Total Radium	2.23	NA	2.23	UJ	3
BRA-BRGWC-29I	Radium-226	1.12	NA	1.12	UJ	3
BRA-BRGWC-29I	Total Radium	3.02	NA	3.02	UJ	3
BRA-BRGWC-45	Radium-226	0.607	NA	0.607	UJ	3
BRA-BRGWC-45	Total Radium	0.607	U	0.607	UJ	3
BRA-BRGWC-47	Radium-226	0.834	NA	0.834	UJ	3
BRA-BRGWC-47	Total Radium	2.39	NA	2.39	UJ	3
BRA-BRGWC-52I	Radium-226	1.50	NA	1.50	UJ	3
BRA-BRGWC-52I	Radium-228	4.85	NA	4.85	J	3
BRA-BRGWC-52I	Total Radium	6.36	NA	6.36	J	3
BRA-PZ-51D	Radium-226	0.860	NA	0.860	UJ	3
BRA-PZ-51D	Total Radium	1.27	NA	1.27	UJ	3
BRA-PZ-74I	Radium-226	0.620	NA	0.620	UJ	3
BRA-PZ-74I	Total Radium	0.811	U	0.811	UJ	3
BRA-PZ-75I	Radium-226	1.20	NA	1.20	UJ	3
BRA-PZ-75I	Radium-228	1.91	NA	1.91	UJ	3
BRA-PZ-75I	Total Radium	3.11	NA	3.11	J	3
BRA-PZ-52D	Radium-226	0.481	NA	0.481	UJ	3

Sample	Analyte	Laboratory Result (pCi/L)	Laboratory Flag	Validation Result (pCi/L)	Validation Qualifier	Reason Code
BRA-PZ-52D	Total Radium	1.14	U	1.14	UJ	3
BRA-PZ-53D	Radium-226	1.01	NA	1.01	UJ	3
BRA-PZ-53D	Radium-228	2.65	NA	2.65	UJ	3
BRA-PZ-53D	Total Radium	3.67	NA	3.67	UJ	3

pCi/L-picocuries per liter
U-not detected at or above the MDC
NA-not applicable

Low-Flow Test Report:

Test Date / Time: 8/22/2023 9:47:33 AM
Project: Plant Branch Ash Ponds
Operator Name: Hunter Auld

Location Name: BRGWA-2I **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 54.3 ft** **Total Depth: 64.3 ft** **Initial Depth to Water: 12.07 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 59.5 ft** **Estimated Total Volume Pumped: 2.5 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 100 ml/min** **Final Draw Down: 17.2 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 884189**

Test Notes:
Sampled at 1012. Clear, 80s. Ferrous iron = 0.0 mg/L.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/22/2023 9:47 AM	00:00	7.76 pH	26.70 °C	240.53 µS/cm	7.69 mg/L	5.00 NTU	180.5 mV	12.07 ft	200.00 ml/min
8/22/2023 9:52 AM	05:00	6.87 pH	21.87 °C	146.31 µS/cm	0.67 mg/L	0.70 NTU	63.1 mV	13.10 ft	100.00 ml/min
8/22/2023 9:57 AM	10:00	6.91 pH	21.91 °C	151.72 µS/cm	0.24 mg/L	1.10 NTU	84.6 mV	13.30 ft	100.00 ml/min
8/22/2023 10:02 AM	15:00	6.93 pH	21.80 °C	150.42 µS/cm	0.22 mg/L	0.90 NTU	89.7 mV	13.40 ft	100.00 ml/min
8/22/2023 10:07 AM	20:00	6.95 pH	21.69 °C	148.41 µS/cm	0.19 mg/L	0.80 NTU	84.5 mV	13.50 ft	100.00 ml/min
8/22/2023 10:12 AM	25:00	6.95 pH	21.78 °C	148.81 µS/cm	0.16 mg/L	1.00 NTU	84.3 mV	13.50 ft	100.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 8/22/2023 9:41:09 AM
Project: Plant Branch Ash Ponds
Operator Name: J. Berisford

Location Name: BRGWA-2S **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 34.6 ft** **Total Depth: 44.6 ft** **Initial Depth to Water: 12.33 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 39 ft** **Estimated Total Volume Pumped: 5.6 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 225 ml/min** **Final Draw Down: 2 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 989619**

Test Notes:
Sunny, sample time-1006. Ferrous iron = 0.0 mg/L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/22/2023 9:41 AM	00:00	6.69 pH	29.28 °C	7.33 µS/cm	6.90 mg/L	1.84 NTU	251.6 mV	12.33 ft	225.00 ml/min
8/22/2023 9:46 AM	05:00	6.08 pH	23.51 °C	54.96 µS/cm	3.40 mg/L	1.29 NTU	73.3 mV	12.40 ft	225.00 ml/min
8/22/2023 9:51 AM	10:00	6.02 pH	20.04 °C	50.29 µS/cm	1.85 mg/L	1.13 NTU	47.3 mV	12.50 ft	225.00 ml/min
8/22/2023 9:56 AM	15:00	5.97 pH	19.80 °C	50.35 µS/cm	1.31 mg/L	0.94 NTU	42.0 mV	12.50 ft	225.00 ml/min
8/22/2023 10:01 AM	20:00	5.97 pH	19.75 °C	48.65 µS/cm	1.31 mg/L	0.59 NTU	42.0 mV	12.50 ft	225.00 ml/min
8/22/2023 10:06 AM	25:00	5.96 pH	19.80 °C	48.21 µS/cm	1.21 mg/L	0.64 NTU	41.3 mV	12.50 ft	225.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 8/22/2023 9:40:30 AM
Project: Plant Branch Ash Ponds
Operator Name: A. Schnittker

Location Name: BRGWA-5I **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 53.89 ft** **Total Depth: 63.89 ft** **Initial Depth to Water: 12.88 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 58 ft** **Estimated Total Volume Pumped: 7.5 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 250 ml/min** **Final Draw Down: 3 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 728623**

Test Notes:
Sample time 1010. Sunny 80s. Ferrous Iron = 0.0 mg/L.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/22/2023 9:40 AM	00:00	6.59 pH	22.07 °C	117.61 µS/cm		3.64 NTU	64.4 mV	12.88 ft	250.00 ml/min
8/22/2023 9:45 AM	05:00	6.42 pH	20.07 °C	118.45 µS/cm		2.89 NTU	73.6 mV	13.10 ft	250.00 ml/min
8/22/2023 9:50 AM	10:00	6.36 pH	19.77 °C	118.53 µS/cm		2.25 NTU	103.6 mV	13.10 ft	250.00 ml/min
8/22/2023 9:55 AM	15:00	6.36 pH	20.03 °C	117.55 µS/cm	5.49 mg/L	2.63 NTU	77.5 mV	13.10 ft	250.00 ml/min
8/22/2023 10:00 AM	20:00	6.34 pH	19.77 °C	118.19 µS/cm	5.53 mg/L	3.75 NTU	125.8 mV	13.10 ft	250.00 ml/min
8/22/2023 10:05 AM	25:00	6.24 pH	19.91 °C	117.81 µS/cm	5.54 mg/L	3.81 NTU	123.8 mV	13.10 ft	250.00 ml/min
8/22/2023 10:10 AM	30:00	6.24 pH	19.92 °C	118.66 µS/cm	5.59 mg/L	2.95 NTU	204.5 mV	13.10 ft	250.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/22/2023 9:40:08 AM
Project: Plant Branch Ash Ponds
Operator Name: D. Johnson

Location Name: BRGWA-5S **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 33.06 ft** **Total Depth: 43.06 ft** **Initial Depth to Water: 12.87 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 38.06 ft** **Estimated Total Volume Pumped: 4.375 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 175 ml/min** **Final Draw Down: 3.36 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965678**

Test Notes:
Sample time 1005.
Sunny, 84 degrees F. Ferrous Iron = 0.0 mg/L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/22/2023 9:40 AM	00:00	6.31 pH	26.30 °C	139.76 µS/cm	3.90 mg/L	2.24 NTU	115.0 mV	12.87 ft	175.00 ml/min
8/22/2023 9:45 AM	05:00	6.03 pH	20.27 °C	113.30 µS/cm	2.31 mg/L	2.01 NTU	67.4 mV	13.01 ft	175.00 ml/min
8/22/2023 9:50 AM	10:00	6.07 pH	20.15 °C	116.53 µS/cm	1.94 mg/L	2.26 NTU	56.7 mV	13.12 ft	175.00 ml/min
8/22/2023 9:55 AM	15:00	6.09 pH	19.97 °C	118.14 µS/cm	1.87 mg/L	2.82 NTU	51.9 mV	13.15 ft	175.00 ml/min
8/22/2023 10:00 AM	20:00	6.09 pH	19.99 °C	118.67 µS/cm	1.87 mg/L	2.72 NTU	49.0 mV	13.15 ft	175.00 ml/min
8/22/2023 10:05 AM	25:00	6.08 pH	20.29 °C	118.53 µS/cm	1.90 mg/L	2.70 NTU	47.5 mV	13.15 ft	175.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/22/2023 9:40:34 AM
Project: Plant Branch Ash Ponds
Operator Name: Taylor Goble

Location Name: BRGWA-6S **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 42.86 ft** **Total Depth: 52.86 ft** **Initial Depth to Water: 26.51 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 47 ft** **Estimated Total Volume Pumped: 8050 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 230 ml/min** **Final Draw Down: 0.45 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965658**

Test Notes:
Sampled at 1015. Clear 85 degrees. Ferrous Iron = 0.0 mg/L.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 5	
8/22/2023 9:40 AM	00:00	7.18 pH	24.81 °C	76.58 µS/cm	6.92 mg/L	3.35 NTU	133.2 mV	26.85 ft	230.00 ml/min
8/22/2023 9:45 AM	05:00	6.68 pH	21.85 °C	66.74 µS/cm	7.09 mg/L	2.29 NTU	117.2 mV	26.92 ft	230.00 ml/min
8/22/2023 9:50 AM	10:00	6.41 pH	21.75 °C	65.74 µS/cm	7.06 mg/L	2.03 NTU	114.4 mV	26.96 ft	230.00 ml/min
8/22/2023 9:55 AM	15:00	6.27 pH	21.75 °C	65.26 µS/cm	7.07 mg/L	1.88 NTU	114.4 mV	26.96 ft	230.00 ml/min
8/22/2023 10:00 AM	20:00	6.17 pH	21.68 °C	60.46 µS/cm	7.09 mg/L	1.71 NTU	115.8 mV	26.96 ft	230.00 ml/min
8/22/2023 10:05 AM	25:00	6.16 pH	21.77 °C	64.87 µS/cm	7.28 mg/L	1.63 NTU	115.9 mV	26.96 ft	230.00 ml/min
8/22/2023 10:10 AM	30:00	6.10 pH	21.82 °C	64.86 µS/cm	7.10 mg/L	1.30 NTU	119.4 mV	26.96 ft	230.00 ml/min
8/22/2023 10:15 AM	35:00	6.09 pH	22.10 °C	65.14 µS/cm	7.18 mg/L	1.23 NTU	120.1 mV	26.96 ft	230.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 8/23/2023 1:30:40 PM
Project: Plant Branch Ash Ponds
Operator Name: D. Johnson

Location Name: BRGWC-17S **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 5 ft** **Top of Screen: 5.22 ft** **Total Depth: 10.22 ft** **Initial Depth to Water: 6.36 ft**	**Pump Type: Peri. Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 7.72 ft** **Estimated Total Volume Pumped: 7.87 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 225 ml/min** **Final Draw Down: 12.84 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965678**

Test Notes:
Sample time 1406.
Overcast, 91 Degrees F. Ferrous Iron = 0.0 mg/L.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/23/2023 1:30 PM	00:00	6.20 pH	25.50 °C	416.07 µS/cm	1.85 mg/L	2.37 NTU	69.8 mV	6.36 ft	225.00 ml/min
8/23/2023 1:35 PM	05:00	6.17 pH	22.45 °C	440.86 µS/cm	1.53 mg/L	2.08 NTU	62.0 mV	6.91 ft	225.00 ml/min
8/23/2023 1:40 PM	10:00	6.18 pH	22.27 °C	442.79 µS/cm	1.49 mg/L	1.83 NTU	60.7 mV	7.08 ft	225.00 ml/min
8/23/2023 1:45 PM	15:00	6.17 pH	22.27 °C	440.63 µS/cm	1.50 mg/L	0.90 NTU	60.0 mV	7.29 ft	225.00 ml/min
8/23/2023 1:50 PM	20:00	6.17 pH	22.22 °C	440.81 µS/cm	1.48 mg/L	0.65 NTU	59.3 mV	7.32 ft	225.00 ml/min
8/23/2023 1:55 PM	25:00	6.16 pH	22.31 °C	439.38 µS/cm	1.43 mg/L	0.52 NTU	59.1 mV	7.37 ft	225.00 ml/min
8/23/2023 2:00 PM	30:00	6.17 pH	22.14 °C	438.45 µS/cm	1.47 mg/L	0.38 NTU	59.2 mV	7.43 ft	225.00 ml/min
8/23/2023 2:05 PM	35:00	6.16 pH	22.05 °C	440.62 µS/cm	1.51 mg/L	0.36 NTU	59.1 mV	7.43 ft	225.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 8/22/2023 11:30:03 AM
Project: Plant Branch Ash Ponds
Operator Name: Taylor Goble

Location Name: BRGWC-33S **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 18.88 ft** **Total Depth: 28.88 ft** **Initial Depth to Water: 12.3 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 23 ft** **Estimated Total Volume Pumped: 11200 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 280 ml/min** **Final Draw Down: 0.66 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965658**

Test Notes:
Sampled at 1210. Sunny 92 degrees. Ferrous Iron = 0.0 mg/L.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 5	
8/22/2023 11:30 AM	00:00	4.75 pH	25.27 °C	960.12 µS/cm	0.88 mg/L	2.12 NTU	178.6 mV	12.68 ft	280.00 ml/min
8/22/2023 11:35 AM	05:00	4.60 pH	21.87 °C	1,073.9 µS/cm	2.76 mg/L	1.55 NTU	180.8 mV	12.81 ft	280.00 ml/min
8/22/2023 11:40 AM	10:00	4.59 pH	21.68 °C	1,074.5 µS/cm	0.51 mg/L	0.75 NTU	182.0 mV	12.91 ft	280.00 ml/min
8/22/2023 11:45 AM	15:00	4.59 pH	21.64 °C	1,074.7 µS/cm	0.74 mg/L	0.57 NTU	183.1 mV	12.96 ft	280.00 ml/min
8/22/2023 11:50 AM	20:00	4.59 pH	21.55 °C	1,075.6 µS/cm	0.78 mg/L	0.52 NTU	184.0 mV	12.96 ft	280.00 ml/min
8/22/2023 11:55 AM	25:00	4.59 pH	21.50 °C	1,087.3 µS/cm	0.25 mg/L	0.60 NTU	184.7 mV	12.96 ft	280.00 ml/min
8/22/2023 12:00 PM	30:00	4.58 pH	21.55 °C	1,079.7 µS/cm	0.15 mg/L	0.49 NTU	185.3 mV	12.96 ft	280.00 ml/min
8/22/2023 12:05 PM	35:00	4.58 pH	21.77 °C	1,074.4 µS/cm	0.15 mg/L	0.55 NTU	186.1 mV	12.96 ft	280.00 ml/min
8/22/2023 12:10 PM	40:00	4.58 pH	21.78 °C	1,075.5 µS/cm	0.15 mg/L	0.59 NTU	186.4 mV	12.96 ft	280.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 8/22/2023 12:50:14 PM
Project: Plant Branch Ash Ponds
Operator Name: D. Johnson

Location Name: BRGWC-34S **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 15.26 ft** **Total Depth: 25.76 ft** **Initial Depth to Water: 3.29 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 20.76 ft** **Estimated Total Volume Pumped: 23.6 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 225 ml/min** **Final Draw Down: 7.56 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965678**

Test Notes:
Sample time 1435.
Sunny, 95 degrees F. Ferrous Iron = 0.0 mg/L.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/22/2023 12:50 PM	00:00	5.89 pH	28.78 °C	535.85 µS/cm	2.69 mg/L	2.08 NTU	56.0 mV	3.29 ft	225.00 ml/min
8/22/2023 12:55 PM	05:00	5.86 pH	23.52 °C	591.41 µS/cm	1.11 mg/L	1.33 NTU	56.3 mV	3.37 ft	225.00 ml/min
8/22/2023 1:00 PM	10:00	5.85 pH	23.25 °C	586.46 µS/cm	1.38 mg/L	1.35 NTU	56.2 mV	3.79 ft	225.00 ml/min
8/22/2023 1:05 PM	15:00	5.85 pH	22.85 °C	543.97 µS/cm	1.37 mg/L	1.37 NTU	56.5 mV	3.79 ft	225.00 ml/min
8/22/2023 1:10 PM	20:00	5.84 pH	22.90 °C	392.96 µS/cm	1.17 mg/L	1.40 NTU	57.3 mV	3.81 ft	225.00 ml/min
8/22/2023 1:15 PM	25:00	5.84 pH	22.71 °C	457.81 µS/cm	1.14 mg/L	1.35 NTU	57.5 mV	3.83 ft	225.00 ml/min
8/22/2023 1:20 PM	30:00	5.82 pH	22.71 °C	573.06 µS/cm	1.17 mg/L	1.36 NTU	57.9 mV	3.84 ft	225.00 ml/min
8/22/2023 1:25 PM	35:00	5.82 pH	22.45 °C	563.34 µS/cm	1.13 mg/L	1.37 NTU	58.3 mV	3.84 ft	225.00 ml/min
8/22/2023 1:30 PM	40:00	5.83 pH	22.54 °C	563.14 µS/cm	0.97 mg/L	0.91 NTU	59.5 mV	3.84 ft	225.00 ml/min
8/22/2023 1:35 PM	45:00	5.80 pH	22.29 °C	560.25 µS/cm	0.94 mg/L	0.92 NTU	60.3 mV	3.85 ft	225.00 ml/min
8/22/2023 1:40 PM	50:00	5.80 pH	22.58 °C	561.62 µS/cm	1.13 mg/L	0.99 NTU	60.8 mV	3.86 ft	225.00 ml/min
8/22/2023 1:45 PM	55:00	5.80 pH	22.49 °C	559.19 µS/cm	0.80 mg/L	1.38 NTU	61.6 mV	3.88 ft	225.00 ml/min
8/22/2023 1:50 PM	01:00:00	5.79 pH	22.81 °C	560.87 µS/cm	1.10 mg/L	1.71 NTU	62.5 mV	3.89 ft	225.00 ml/min
8/22/2023 1:55 PM	01:05:00	5.79 pH	22.45 °C	557.64 µS/cm	1.18 mg/L	1.91 NTU	63.7 mV	3.91 ft	225.00 ml/min

8/22/2023 2:00 PM	01:10:00	5.79 pH	22.59 °C	563.47 µS/cm	1.43 mg/L	1.23 NTU	63.2 mV	3.91 ft	225.00 ml/min
8/22/2023 2:05 PM	01:15:00	5.79 pH	22.61 °C	560.69 µS/cm	1.13 mg/L	1.07 NTU	64.5 mV	3.92 ft	225.00 ml/min
8/22/2023 2:10 PM	01:20:00	5.77 pH	22.38 °C	557.15 µS/cm	1.06 mg/L	1.01 NTU	64.8 mV	3.92 ft	225.00 ml/min
8/22/2023 2:15 PM	01:25:00	5.78 pH	23.22 °C	564.00 µS/cm	1.72 mg/L	1.07 NTU	65.3 mV	3.92 ft	225.00 ml/min
8/22/2023 2:20 PM	01:30:00	5.77 pH	22.65 °C	559.98 µS/cm	1.34 mg/L	0.86 NTU	66.9 mV	3.92 ft	225.00 ml/min
8/22/2023 2:25 PM	01:35:00	5.77 pH	22.91 °C	561.48 µS/cm	1.52 mg/L	0.44 NTU	66.2 mV	3.92 ft	225.00 ml/min
8/22/2023 2:30 PM	01:40:00	5.75 pH	23.22 °C	564.94 µS/cm	1.51 mg/L	0.51 NTU	66.4 mV	3.92 ft	225.00 ml/min
8/22/2023 2:35 PM	01:45:00	5.72 pH	25.89 °C	570.67 µS/cm	1.54 mg/L	0.52 NTU	64.9 mV	3.92 ft	225.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/23/2023 11:31:15 AM
Project: Plant Branch Ash Ponds
Operator Name: D. Johnson

Location Name: BRGWC-35S **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 20.01 ft** **Total Depth: 30.01 ft** **Initial Depth to Water: 2.22 ft**	**Pump Type: Ded. Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 25.01 ft** **Estimated Total Volume Pumped: 9 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 300 ml/min** **Final Draw Down: 1.68 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965678**

Test Notes:
Sample time 1201.
Sunny, 88 degrees F. Ferrous Iron = 0.0 mg/L.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/23/2023 11:31 AM	00:00	6.11 pH	28.83 °C	534.38 µS/cm	5.45 mg/L	4.42 NTU	91.7 mV	2.22 ft	300.00 ml/min
8/23/2023 11:36 AM	05:00	5.89 pH	22.33 °C	544.73 µS/cm	0.58 mg/L	1.64 NTU	73.6 mV	2.34 ft	300.00 ml/min
8/23/2023 11:41 AM	10:00	5.89 pH	22.03 °C	544.56 µS/cm	0.22 mg/L	1.51 NTU	73.0 mV	2.35 ft	300.00 ml/min
8/23/2023 11:46 AM	15:00	5.89 pH	21.78 °C	546.50 µS/cm	0.18 mg/L	1.35 NTU	72.8 mV	2.35 ft	300.00 ml/min
8/23/2023 11:51 AM	20:00	5.90 pH	21.50 °C	548.07 µS/cm	0.16 mg/L	0.78 NTU	73.0 mV	2.36 ft	300.00 ml/min
8/23/2023 11:56 AM	25:00	5.90 pH	21.44 °C	548.57 µS/cm	0.16 mg/L	0.63 NTU	73.1 mV	2.36 ft	300.00 ml/min
8/23/2023 12:01 PM	30:00	5.90 pH	21.42 °C	548.82 µS/cm	0.16 mg/L	0.61 NTU	73.2 mV	2.36 ft	300.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/23/2023 3:24:53 PM
Project: Plant Branch Ash Ponds
Operator Name: Taylor Goble

Location Name: BRGWC-36S **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 25.44 ft** **Total Depth: 35.44 ft** **Initial Depth to Water: 4.94 ft**	**Pump Type: Peristaltic Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 30 ft** **Estimated Total Volume Pumped: 9380 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 300 ml/min** **Final Draw Down: 0.03 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965658**

Test Notes:
Sampled at 1556. Cloudy 94 degrees. APE-FB-08 taken here. Ferrous Iron = 0.0 mg/L.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 5	
8/23/2023 3:24 PM	00:00	7.24 pH	36.35 °C	514.23 µS/cm	4.33 mg/L	3.39 NTU	138.8 mV	4.97 ft	300.00 ml/min
8/23/2023 3:29 PM	05:00	5.58 pH	24.73 °C	566.57 µS/cm	1.65 mg/L	3.13 NTU	140.7 mV	4.97 ft	300.00 ml/min
8/23/2023 3:34 PM	10:00	5.37 pH	23.88 °C	562.18 µS/cm	1.66 mg/L	2.77 NTU	141.4 mV	4.97 ft	300.00 ml/min
8/23/2023 3:39 PM	15:00	5.31 pH	23.50 °C	557.50 µS/cm	1.70 mg/L	2.60 NTU	142.3 mV	4.97 ft	300.00 ml/min
8/23/2023 3:41 PM	16:16	5.30 pH	23.40 °C	554.00 µS/cm	1.72 mg/L	1.74 NTU	142.5 mV	4.97 ft	300.00 ml/min
8/23/2023 3:46 PM	21:16	5.28 pH	23.02 °C	545.30 µS/cm	1.77 mg/L	1.15 NTU	143.4 mV	4.97 ft	300.00 ml/min
8/23/2023 3:51 PM	26:16	5.27 pH	23.01 °C	553.94 µS/cm	1.81 mg/L	0.96 NTU	144.0 mV	4.97 ft	300.00 ml/min
8/23/2023 3:56 PM	31:16	5.26 pH	22.79 °C	552.45 µS/cm	1.83 mg/L	0.83 NTU	144.6 mV	4.97 ft	300.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 8/22/2023 4:06:44 PM
Project: Plant Branch Ash Ponds
Operator Name: Taylor Goble

Location Name: BRGWC-37S **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 56.25 ft** **Total Depth: 66.25 ft** **Initial Depth to Water: 53.19 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 61 ft** **Estimated Total Volume Pumped: 7200 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 160 ml/min** **Final Draw Down: 0.6 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965658**

Test Notes:
Sampled at 1651. Sunny 97 degrees. Ferrous Iron = 0.0 mg/L.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 5	
8/22/2023 4:06 PM	00:00	7.78 pH	28.92 °C	53.15 µS/cm	7.82 mg/L	1.57 NTU	143.1 mV	53.75 ft	160.00 ml/min
8/22/2023 4:11 PM	05:00	6.37 pH	22.56 °C	55.20 µS/cm	7.96 mg/L	1.38 NTU	160.7 mV	53.78 ft	160.00 ml/min
8/22/2023 4:16 PM	10:00	5.77 pH	22.12 °C	54.68 µS/cm	7.89 mg/L	1.21 NTU	164.7 mV	53.79 ft	160.00 ml/min
8/22/2023 4:21 PM	15:00	5.57 pH	22.08 °C	54.38 µS/cm	7.79 mg/L	1.09 NTU	168.9 mV	53.79 ft	160.00 ml/min
8/22/2023 4:26 PM	20:00	5.53 pH	21.92 °C	54.31 µS/cm	7.99 mg/L	0.94 NTU	170.1 mV	53.79 ft	160.00 ml/min
8/22/2023 4:31 PM	25:00	5.50 pH	21.60 °C	54.17 µS/cm	7.81 mg/L	0.87 NTU	173.2 mV	53.79 ft	160.00 ml/min
8/22/2023 4:36 PM	30:00	5.49 pH	22.13 °C	55.37 µS/cm	8.01 mg/L	0.77 NTU	173.2 mV	53.79 ft	160.00 ml/min
8/22/2023 4:41 PM	35:00	5.40 pH	25.13 °C	55.76 µS/cm	7.76 mg/L	0.60 NTU	175.2 mV	53.79 ft	160.00 ml/min
8/22/2023 4:46 PM	40:00	5.39 pH	27.38 °C	55.89 µS/cm	7.55 mg/L	0.55 NTU	176.5 mV	53.79 ft	160.00 ml/min
8/22/2023 4:51 PM	45:00	5.42 pH	29.25 °C	56.00 µS/cm	7.47 mg/L	0.51 NTU	176.4 mV	53.79 ft	160.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/23/2023 11:27:16 AM
Project: Plant Branch Ash Ponds
Operator Name: Taylor Goble

Location Name: BRGWC-38S **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 30.64 ft** **Total Depth: 40.64 ft** **Initial Depth to Water: 23.35 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 35 ft** **Estimated Total Volume Pumped: 8550 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 190 ml/min** **Final Draw Down: 0.97 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965658**

Test Notes:
Sampled at 1212. Sunny 90 degrees. Ferrous Iron = 0.0 mg/L.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 5	
8/23/2023 11:27 AM	00:00	4.96 pH	28.23 °C	648.08 µS/cm	5.01 mg/L	0.98 NTU	126.4 mV	23.98 ft	190.00 ml/min
8/23/2023 11:32 AM	05:00	4.11 pH	22.98 °C	637.18 µS/cm	2.59 mg/L	0.80 NTU	123.9 mV	24.15 ft	190.00 ml/min
8/23/2023 11:37 AM	10:00	4.02 pH	22.55 °C	628.25 µS/cm	2.27 mg/L	0.77 NTU	124.6 mV	24.23 ft	190.00 ml/min
8/23/2023 11:42 AM	15:00	3.97 pH	22.38 °C	617.39 µS/cm	2.01 mg/L	0.64 NTU	125.6 mV	24.27 ft	190.00 ml/min
8/23/2023 11:47 AM	20:00	3.95 pH	22.52 °C	609.78 µS/cm	1.96 mg/L	0.61 NTU	126.5 mV	24.30 ft	190.00 ml/min
8/23/2023 11:52 AM	25:00	3.94 pH	22.86 °C	612.84 µS/cm	1.92 mg/L	0.54 NTU	127.7 mV	24.32 ft	190.00 ml/min
8/23/2023 11:57 AM	30:00	3.93 pH	22.82 °C	616.85 µS/cm	1.88 mg/L	0.79 NTU	129.0 mV	24.32 ft	190.00 ml/min
8/23/2023 12:02 PM	35:00	3.92 pH	23.03 °C	621.99 µS/cm	1.85 mg/L	0.90 NTU	130.1 mV	24.32 ft	190.00 ml/min
8/23/2023 12:07 PM	40:00	3.91 pH	22.86 °C	624.91 µS/cm	1.82 mg/L	0.76 NTU	131.3 mV	24.32 ft	190.00 ml/min
8/23/2023 12:12 PM	45:00	3.91 pH	22.70 °C	632.85 µS/cm	1.80 mg/L	0.83 NTU	132.5 mV	24.32 ft	190.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/22/2023 3:47:19 PM
Project: Plant Branch Ash Ponds
Operator Name: D. Johnson

Location Name: PZ-13S **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 28.17 ft** **Total Depth: 38.17 ft** **Initial Depth to Water: 27.82 ft**	**Pump Type: Peri. Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 33.17 ft** **Estimated Total Volume Pumped: 16.5 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 275 ml/min** **Final Draw Down: 13.44 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965678**

Test Notes:
Sample time 1652.
Sunny, 95 degrees F. Ferrous Iron = 0.0 mg/L.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/22/2023 3:47 PM	00:00	5.71 pH	32.60 °C	178.44 µS/cm	5.90 mg/L	199.00 NTU	68.1 mV	27.82 ft	275.00 ml/min
8/22/2023 3:52 PM	05:00	5.43 pH	22.26 °C	181.19 µS/cm	3.71 mg/L	54.00 NTU	74.6 mV	27.91 ft	275.00 ml/min
8/22/2023 3:57 PM	10:00	5.43 pH	21.64 °C	171.00 µS/cm	3.77 mg/L	49.60 NTU	76.0 mV	28.94 ft	275.00 ml/min
8/22/2023 4:02 PM	15:00	5.43 pH	21.57 °C	157.62 µS/cm	3.99 mg/L	17.60 NTU	76.4 mV	28.94 ft	275.00 ml/min
8/22/2023 4:07 PM	20:00	5.41 pH	21.41 °C	154.76 µS/cm	4.20 mg/L	9.87 NTU	77.7 mV	28.94 ft	275.00 ml/min
8/22/2023 4:12 PM	25:00	5.40 pH	21.70 °C	154.70 µS/cm	4.24 mg/L	8.85 NTU	78.2 mV	28.94 ft	275.00 ml/min
8/22/2023 4:17 PM	30:00	5.39 pH	21.83 °C	148.57 µS/cm	4.34 mg/L	4.52 NTU	78.8 mV	28.94 ft	275.00 ml/min
8/22/2023 4:22 PM	35:00	5.38 pH	21.50 °C	147.18 µS/cm	4.41 mg/L	4.33 NTU	80.2 mV	28.94 ft	275.00 ml/min
8/22/2023 4:27 PM	40:00	5.39 pH	21.47 °C	140.85 µS/cm	4.47 mg/L	3.35 NTU	80.1 mV	28.94 ft	275.00 ml/min
8/22/2023 4:32 PM	45:00	5.36 pH	21.49 °C	140.83 µS/cm	4.52 mg/L	2.66 NTU	81.9 mV	28.94 ft	275.00 ml/min
8/22/2023 4:37 PM	50:00	5.36 pH	21.54 °C	139.57 µS/cm	4.56 mg/L	2.45 NTU	82.4 mV	28.94 ft	275.00 ml/min
8/22/2023 4:42 PM	55:00	5.37 pH	21.53 °C	137.00 µS/cm	4.59 mg/L	2.78 NTU	82.4 mV	28.94 ft	275.00 ml/min
8/22/2023 4:47 PM	01:00:00	5.37 pH	21.52 °C	134.85 µS/cm	4.58 mg/L	2.71 NTU	83.2 mV	28.94 ft	275.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 8/22/2023 1:53:08 PM
Project: Plant Branch Ash Ponds
Operator Name: Taylor Goble

Location Name: PZ-52D **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 52.23 ft** **Total Depth: 62.23 ft** **Initial Depth to Water: 24.86 ft**	**Pump Type: Portable Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 59 ft** **Estimated Total Volume Pumped: 17875 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 240 ml/min** **Final Draw Down: 34.14 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965658**

Test Notes:
Purged dry at 1543. Sunny 97 degrees.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 5	
8/22/2023 1:53 PM	00:00	6.64 pH	31.96 °C	614.35 µS/cm	5.25 mg/L	7.48 NTU	180.2 mV	25.31 ft	100.00 ml/min
8/22/2023 1:58 PM	05:00	7.13 pH	26.33 °C	617.45 µS/cm	5.03 mg/L	7.68 NTU	179.8 mV	25.74 ft	100.00 ml/min
8/22/2023 2:03 PM	10:00	7.25 pH	25.69 °C	618.29 µS/cm	5.13 mg/L	7.28 NTU	179.9 mV	25.86 ft	100.00 ml/min
8/22/2023 2:08 PM	15:00	7.26 pH	27.44 °C	623.35 µS/cm	5.14 mg/L	6.67 NTU	179.0 mV	26.22 ft	65.00 ml/min
8/22/2023 2:13 PM	20:00	7.29 pH	28.12 °C	616.03 µS/cm	5.09 mg/L	4.22 NTU	178.5 mV	26.75 ft	65.00 ml/min
8/22/2023 2:18 PM	25:00	7.31 pH	27.95 °C	614.83 µS/cm	5.04 mg/L	3.51 NTU	178.3 mV	27.22 ft	65.00 ml/min
8/22/2023 2:23 PM	30:00	7.32 pH	27.99 °C	614.07 µS/cm	5.01 mg/L	3.39 NTU	178.5 mV	27.69 ft	50.00 ml/min
8/22/2023 2:28 PM	35:00	7.33 pH	27.99 °C	612.47 µS/cm	5.06 mg/L	2.25 NTU	178.0 mV	28.08 ft	50.00 ml/min
8/22/2023 2:33 PM	40:00	7.33 pH	28.06 °C	618.94 µS/cm	5.03 mg/L	2.11 NTU	178.1 mV	29.00 ft	50.00 ml/min
8/22/2023 2:38 PM	45:00	7.33 pH	28.19 °C	621.29 µS/cm	5.12 mg/L	1.89 NTU	178.2 mV	29.45 ft	50.00 ml/min
8/22/2023 2:43 PM	50:00	7.41 pH	23.65 °C	614.73 µS/cm	5.09 mg/L	2.29 NTU	179.8 mV	31.41 ft	240.00 ml/min
8/22/2023 2:48 PM	55:00	7.41 pH	23.29 °C	616.93 µS/cm	5.13 mg/L	2.66 NTU	179.4 mV	33.89 ft	240.00 ml/min
8/22/2023 2:53 PM	01:00:00	7.41 pH	23.56 °C	630.35 µS/cm	5.27 mg/L	2.34 NTU	179.2 mV	35.96 ft	240.00 ml/min
8/22/2023 2:58 PM	01:05:00	7.40 pH	23.54 °C	621.88 µS/cm	5.49 mg/L	2.32 NTU	179.8 mV	38.14 ft	240.00 ml/min
8/22/2023 3:03 PM	01:10:00	7.40 pH	23.46 °C	623.35 µS/cm	5.63 mg/L	3.03 NTU	179.3 mV	40.22 ft	240.00 ml/min

8/22/2023 3:08 PM	01:15:00	7.40 pH	23.62 °C	620.63 µS/cm	5.58 mg/L	3.57 NTU	179.6 mV	42.57 ft	240.00 ml/min
8/22/2023 3:13 PM	01:20:00	7.41 pH	23.38 °C	622.07 µS/cm	5.69 mg/L	3.86 NTU	179.2 mV	44.85 ft	240.00 ml/min
8/22/2023 3:18 PM	01:25:00	7.41 pH	23.38 °C	622.09 µS/cm	5.76 mg/L	3.99 NTU	179.3 mV	47.03 ft	240.00 ml/min
8/22/2023 3:23 PM	01:30:00	7.39 pH	23.79 °C	624.52 µS/cm	5.95 mg/L	3.77 NTU	179.2 mV	49.41 ft	240.00 ml/min
8/22/2023 3:28 PM	01:35:00	7.41 pH	23.02 °C	622.39 µS/cm	5.30 mg/L	3.13 NTU	179.2 mV	52.11 ft	240.00 ml/min
8/22/2023 3:33 PM	01:40:00	7.40 pH	23.38 °C	619.33 µS/cm	5.26 mg/L	2.89 NTU	178.9 mV	54.40 ft	240.00 ml/min
8/22/2023 3:38 PM	01:45:00	7.40 pH	23.27 °C	620.49 µS/cm	5.23 mg/L	2.75 NTU	178.7 mV	56.73 ft	240.00 ml/min
8/22/2023 3:43 PM	01:50:00	7.40 pH	23.56 °C	620.89 µS/cm	5.24 mg/L	2.28 NTU	179.2 mV	59.00 ft	240.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 8/23/2023 1:41:40 PM
Project: Plant Branch Ash Ponds
Operator Name: Taylor Goble

Location Name: PZ-52D **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 52.23 ft** **Total Depth: 62.23 ft** **Initial Depth to Water: 52.57 ft**	**Pump Type: Portable Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 58 ft** **Estimated Total Volume Pumped: 250 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 50 ml/min** **Final Draw Down: 0.33 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965658**

Test Notes:
Sampled at 1346. Cloudy 94 degrees. Ferrous Iron = 0.0 mg/L.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 5	
8/23/2023 1:41 PM	00:00	6.22 pH	41.54 °C	563.91 µS/cm	5.52 mg/L	3.23 NTU	155.7 mV	52.57 ft	50.00 ml/min
8/23/2023 1:46 PM	05:00	6.99 pH	35.72 °C	622.07 µS/cm	6.83 mg/L	3.37 NTU	154.8 mV	52.90 ft	50.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/24/2023 9:37:20 AM
Project: Plant Branch Ash Ponds
Operator Name: Taylor Goble

Location Name: PZ-53D **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 132.48 ft** **Total Depth: 142.48 ft** **Initial Depth to Water: 24.16 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 137 ft** **Estimated Total Volume Pumped: 4623.667 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 130 ml/min** **Final Draw Down: 0.6 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965658**

Test Notes:
Sampled at 1012. Cloudy 83 degrees. Ferrous Iron = 0.0 mg/L.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 5	
8/24/2023 9:37 AM	00:00	7.43 pH	26.79 °C	720.18 µS/cm	4.49 mg/L	1.99 NTU	141.9 mV	24.16 ft	130.00 ml/min
8/24/2023 9:42 AM	05:00	6.68 pH	24.51 °C	731.41 µS/cm	1.77 mg/L	1.68 NTU	114.2 mV	24.55 ft	130.00 ml/min
8/24/2023 9:47 AM	10:00	6.69 pH	24.15 °C	741.40 µS/cm	1.42 mg/L	1.51 NTU	117.1 mV	24.72 ft	130.00 ml/min
8/24/2023 9:52 AM	15:00	6.61 pH	23.34 °C	745.99 µS/cm	1.36 mg/L	1.44 NTU	116.8 mV	24.77 ft	130.00 ml/min
8/24/2023 9:52 AM	15:34	6.60 pH	23.46 °C	748.92 µS/cm	1.29 mg/L	1.44 NTU	116.5 mV	24.80 ft	130.00 ml/min
8/24/2023 9:57 AM	20:34	6.60 pH	24.46 °C	742.38 µS/cm	1.87 mg/L	1.61 NTU	116.0 mV	24.80 ft	130.00 ml/min
8/24/2023 10:02 AM	25:34	6.62 pH	23.16 °C	742.33 µS/cm	1.31 mg/L	1.83 NTU	115.8 mV	24.80 ft	130.00 ml/min
8/24/2023 10:07 AM	30:34	6.61 pH	23.03 °C	743.95 µS/cm	1.23 mg/L	1.40 NTU	115.0 mV	24.80 ft	130.00 ml/min
8/24/2023 10:12 AM	35:34	6.54 pH	23.07 °C	745.28 µS/cm	1.45 mg/L	1.31 NTU	113.8 mV	24.80 ft	130.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 8/23/2023 3:12:27 PM
Project: Plant Branch Ash Ponds
Operator Name: D. Johnson

Location Name: PZ-70I **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 in** **Top of Screen: 44.72 in** **Total Depth: 54.72 in** **Initial Depth to Water: 28.63 ft**	**Pump Type: Peri. Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 49.72 ft** **Estimated Total Volume Pumped: 12 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 2.76 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965678**

Test Notes:
Sample time 1612.
Sunny, 97 degrees F. Ferrous Iron = 0.0 mg/L.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/23/2023 3:12 PM	00:00	5.92 pH	32.65 °C	266.66 µS/cm	3.87 mg/L	0.88 NTU	74.6 mV	28.63 ft	200.00 ml/min
8/23/2023 3:17 PM	05:00	5.39 pH	23.47 °C	294.77 µS/cm	0.39 mg/L	0.61 NTU	78.4 mV	28.85 ft	200.00 ml/min
8/23/2023 3:22 PM	10:00	5.37 pH	23.16 °C	298.26 µS/cm	0.25 mg/L	0.59 NTU	79.5 mV	28.85 ft	200.00 ml/min
8/23/2023 3:27 PM	15:00	5.36 pH	22.89 °C	300.29 µS/cm	0.22 mg/L	0.35 NTU	80.2 mV	28.85 ft	200.00 ml/min
8/23/2023 3:32 PM	20:00	5.36 pH	22.85 °C	301.57 µS/cm	0.21 mg/L	0.36 NTU	80.6 mV	28.85 ft	200.00 ml/min
8/23/2023 3:37 PM	25:00	5.35 pH	22.71 °C	301.87 µS/cm	0.20 mg/L	0.58 NTU	81.0 mV	28.85 ft	200.00 ml/min
8/23/2023 3:42 PM	30:00	5.36 pH	22.81 °C	299.15 µS/cm	0.19 mg/L	0.44 NTU	81.4 mV	28.85 ft	200.00 ml/min
8/23/2023 3:47 PM	35:00	5.35 pH	22.63 °C	302.37 µS/cm	0.19 mg/L	0.39 NTU	81.6 mV	28.86 ft	200.00 ml/min
8/23/2023 3:52 PM	40:00	5.36 pH	22.81 °C	300.26 µS/cm	0.18 mg/L	0.37 NTU	81.8 mV	28.86 ft	200.00 ml/min
8/23/2023 3:57 PM	45:00	5.35 pH	22.80 °C	302.73 µS/cm	0.18 mg/L	0.38 NTU	81.9 mV	28.86 ft	200.00 ml/min
8/23/2023 4:02 PM	50:00	5.36 pH	22.80 °C	301.10 µS/cm	0.17 mg/L	0.25 NTU	82.2 mV	28.86 ft	200.00 ml/min
8/23/2023 4:07 PM	55:00	5.35 pH	22.89 °C	301.22 µS/cm	0.16 mg/L	0.24 NTU	82.4 mV	28.86 ft	200.00 ml/min
8/23/2023 4:12 PM	01:00:00	5.36 pH	22.80 °C	302.46 µS/cm	0.16 mg/L	0.23 NTU	82.4 mV	28.86 ft	200.00 ml/min

Samples

Sample ID:	Description:

Staff: JB/AS/HA/DJ/TG

Date: 8/21/23

Time: (start/finish) 1120 / 1730

AP-BCD

Well-ID	Depth to Water	Total Depth (feet bgs)	Screen Interval (feet bgs)		Screen Length	Old Well-ID	Location	Has Dedicated Pump (Y/N)	TD
PZ-44	27.66	57.0	46.6	56.6	10.0	NA	Downgradient B	N	59.54
PZ-50D	38.42	108.0	96.02	106.02	10.0	NA	Downgradient	N	110.20
PZ-61S	38.85	45.4	40	45	5.0	NA	Downgradient B	N	47.97
PZ-51I	38.38	65.0	54.9	64.9	10.0	NA	Downgradient B	N	68.62
PZ-51D	38.11	108.0	96.02	106.02	10.0	NA	Downgradient B	N	109.08
PZ-57I	36.29	75.0	65.58	75.58	10.0	NA	Downgradient B	N	
PZ-58I	38.19	81.9	59.6	69.6	10.0	NA	Downgradient B	N	66.92
PZ-59I	39.75	66.0	56.4	66.4	10.0	NA	Downgradient B	N	69.80
PZ-60I	38.14	80.8	80.43	80.43	10.0	NA	Downgradient B	N 61.07	~~77.96~~
PZ-61I	47.95	76.0	65.77	75.77	10.0	NA	Downgradient B	N	77.96
PZ-62I	39.17	70.0	60	70	10.0	NA	Downgradient B	N	
PZ-63I	39.47	56.8	46.8	56.8	10.0	NA	Downgradient B	N	
PZ-64I	38.53	69.3	58.75	68.75	10.0	PZ-64	Downgradient B	N	71.54
PZ-65I	36.08	68.3	58.75	68.75	10.0	PZ-65	Downgradient D	N	72.26
PZ-66I	35.75	68.3	57.75	67.75	10.0	PZ-66	Downgradient B	N	
PZ-68D	46.85	84.3	73.75	83.75	10.0	PZ-68	Downgradient D	N	87.0

Staff: XG/HA/AS/DT/TG

Date: 8/21/12

Time (start/finish): 1120/1930

AP-BCD

TP

Well ID	Depth to Water	Total Depth (feet bgs)[2]	Screen Interval (feet bgs)		Screen Length	Old Well ID	Location	Has Dedicated Pump (Y/N)
BRGWA-2S	12.27	44.6	34.2	44.2	10.0	PZ-2S	Upgradient BCD & E	Y
BRGWA-2I	12.07	64.3	53.9	63.9	10.0	PZ-2I	Upgradient BCD & E	Y
BRGWA-5S	12.94	40.0	29.8	39.8	10.0	PZ-5S	Upgradient BCD & E	Y
BRGWA-5I	12.85	61.2	50.4	60.8	10.0	PZ-5I	Upgradient BCD & E	Y
BRGWA-6S	426.46	49.7	39.1	49.3	10.0	PZ-6S	Upgradient BCD & E	Y
BRGWA-23S	38.69	40.8	30.6	40.8	10.0	PZ-23S	Upgradient BCD	Y
BRGWC-25I	11.08	20.5	10.5	20.5	10.0	PZ-25I	Downgradient B	Y
BRGWC-27I	10.93	24.0	14	24	10.0	PZ-27S	Downgradient C	Y
BRGWC-29I	10.88	20.0	10	20	10.0	PZ-29I	Downgradient C	Y
BRGWC-30I	4.88	20.3	10	20	10.0	PZ-30I	Downgradient D	Y
BRGWC-32S	40.50	45.0	35	45	10.0	PZ-32S	Downgradient D	Y
BRGWC-45	15.20	57.0	46.6	56.6	10.0	PZ-45	Downgradient B	Y
BRGWC-47	27.42	92.0	81.6	91.6	10.0	PZ-47	Downgradient D	Y
BRGWC-50	58.23	65.0	54.6	64.6	10.0	PZ-50	Downgradient B	Y
BRGWC-52I	39.68	73.9	63.9	73.9	10.0	PZ-52	Downgradient B	

48.35

Staff: WW/SB/AB/TS/TG | Date: 3/21/23 | Time (start/finish): 1120/1730

LANDFILL

Well ID	Depth to Water	Total Depth (feet bgs)[2]	Screen Interval (feet bgs)		Screen Length	Old Well ID	Location	Has Dedicated Pump (Y/N)
BRLFC-01	10.84	35.47	21.75	31.75	10.0	NA	Downgradient	N
BRLFC-02	16.02	54.12	41	51	10.0	NA	Downgradient	N
BRLFC-03	2.92	41.61	29.25	39.25	10.0	NA	Downgradient	N
BRLFC-04	16.76	60.20	35.5	45.5	10.0	NA	Downgradient	N
BRLFC-05	13.07	45.33	30	40	10.0	NA	Downgradient	N
BRLFC-06	13.16	47.09	34.1	44.1	10.0	NA	Downgradient	N
BRLFC-07	24.21	64.25	40.7	50.7	10.0	NA	Downgradient	N
BRLFC-08	14.33	56.48	43.3	53.3	10.0	NA	Downgradient	N
BRLFC-09	11.35	51.74	36.9	46.9	10.0	NA	Downgradient	N
BRLFC-10	18.77	43.08	67.3	77.3	10.0	NA	Downgradient	N
BRLFC-11	21.19	41.08	16.5	26.5	10.0	NA	Downgradient	N
BRLFC-12	10.60	51.23	39.7	49.7	10.0	NA	Downgradient	N
BRLFC-13	17.35	59.80	35.5	45.5	10.0	NA	Downgradient	N
BRLFC-14	11.19	49.46	36.3	46.3	10.0	NA	Downgradient	N
BRLFC-15	27.89	45.45	22.1	32.1	10.0	NA	Downgradient	N
BRLFC-16	34.51	51.29	29.2	39.2	10.0	NA	Downgradient	N

Staff: SB/HA/AS/TG/DS | Date: 8/21/23 | Time (start/finish): 1120 / 1730

PZs, IWs

Well ID	Depth to Water	Total Depth (feet bgs)[2]	Screen Interval (feet bgs)		Screen Length	Old Well ID	Location	Has Dedicated Pump (Y/N)
IWs								
IW-B-1	22.42	40.2	4.9	39.9	35.0	NA	NA	
IW-B-2	9.00	16.3	6	16	10.0	NA	NA	N
IW-B-3	17.74					NA	NA	N
IW-B-4	23.35					NA	NA	N
IW-B-5	27.62					NA	NA	N
IW-C-1	15.53	19.2	8.9	18.9	10.0	NA	NA	
IW-C-2	19.68	28.3	8	28	20.0	NA	NA	
IW-D-1	Dry	15.5	5.2	18.2	10.0	NA	NA	
IW-D-2	24.04	30.0	4.7	29.7	25.0	NA	NA	
IW-D-3	unable to		locate			NA	NA	
IW-E-1	9.67	NA	NA	NA	NA	NA	NA	N
OW-B1	21.22						NA	N
OW-B1	21.21						NA	N
OW-B2	20.72						NA	N
OW-B3	20.92						NA	N
OW-B4	21.11						NA	N
OW-B5	21.68						NA	N
OW-B8	21.98						NA	N
OW-D1	18.25						NA	
OW-D1	17.75						NA	

Staff: SB/AM/AS/TB/DS | Date: 8/21/23 | Time (start/finish): 1120 / 1730

OW-D2	17.81						NA	
OW-D3	17.24						NA	
OW-D4	16.48						NA	
OW-D5	unable to locate.						NA	
OW-D0	unable to locate						NA	
CZ-OZ	45.37					NA		✓

Staff: JE/HA/HS/DJ/TG

Date: 8/21/13

Time (start/finish): 1110 / 1730

PZs

Well ID	Depth to Water	Total Depth (feet bgs)[2]	Screen Interval (feet bgs)		Screen Length	Old Well ID	Location	Has Dedicated Pump (Y/N)	
PZ-40S	15.79	40.2	21.8	31.8	10.0	NA	Downgradient A		PZ-40S
PZ-41S	16.97	44.2	31.8	41.8	10.0	NA	Downgradient A		PZ-41S
PZ-42S	20.14	32.2	21.8	31.8	10.0	NA	Downgradient A		PZ-42S
PZ-43	29.72	40.4	30	40	10.0	NA	Downgradient A		PZ-43
PZ-46	11.69	45.6	35.6	45.6	10.0	NA	Downgradient B		PZ-46
PZ-48	31.82	67.0	56.6	66.6	10.0	NA	Downgradient B	✓	PZ-48
PZ-49	9.47	17.0	6.6	16.6	10.0	NA	Downgradient B	✓	PZ-49
PZ-54	49.29	62.0	42	52	10.0	NA	Downgradient E	✓	PZ-54
PZ-55	55.51	49.3	39.3	49.3	10.0	NA	Downgradient E	✓	PZ-55
PZ-56	9.21	29.3	19.3	29.3	10.0	NA	Downgradient B	✓	PZ-56
PZ-57	30.41	38.3	27.75	37.75	10.0	NA	Downgradient B	✓	PZ-57
PZ-58D	40.75	84.3	73.7	83.7	10.0	NA	Downgradient D		PZ-58D
PZ-59I	21.45	38.3	28.8	38.8	10.0	NA	Downgradient D	✓	PZ-59I
PZ-71I	34.14				10.0	NA		✓	PZ-71I
PZ-72I	25.87				10.0	NA		✓	PZ-72I
PZ-73I	7.57				10.0	NA		✓	PZ-73I

DI water

Staff: SB/MA/AS/DS/TG

Date: 3/14/22

Time (start/finish): 1120 / 1720

PZs

Well-ID	Depth to Water	Total Depth (feet bgs) [ft]	Screen Interval (feet bgs)		Screen Length	Old Well-ID	Location	Has Dedicated Pump (Y/N)	
PZ-15S	11.38	39.9	29.9	39.9	10.0	NA	Downgradient	N	
PZ-15I	12.43	38.6	28.2	38.2	10.0	NA	Downgradient	N	
PZ-16S	12.59	19.1	8.7	18.7	10.0	NA	Downgradient	N	
PZ-17I	3.56	43.6	33.1	43.1	10.0	NA	Downgradient	N	
PZ-18I	20.68	38.4	28.3	38.3	10.0	NA	Downgradient	N	
PZ-18S	20.97	24.2	14.7	24.7	10.0	NA	Downgradient	N	w/ Transducer
PZ-19I	15.13	43.7	33.3	43.3	10.0	NA	Downgradient	N	
PZ-19S	14.86	28.0	17.6	27.6	10.0	NA	Downgradient	N	w/ Transducer
PZ-20I	17.14	29.5	19.1	29.1	10.0	NA	Downgradient	N	
PZ-20S	17.28	15.3	4.9	14.9	10.0	NA	Downgradient	N	w/ Transducer
PZ-21I	12.58	24.4	14	24	10.0	NA	Downgradient	N	
PZ-21S	12.09	9.8	4.4	9.4	5.0	NA	Downgradient	N	
PZ-23I	38.14	86.5	56.5	86.5	10.0	NA	Downgradient	N	
PZ-24S	14.21	42.0	31.5	41.5	10.0	RRGWC-24S	Downgradient A	N	
PZ-26I	22.92	30.5	20.5	30.5	10.0	NA	Downgradient	N	
PZ-26S	16.62	24.0	14	24	10.0	NA	Downgradient	N	
PZ-31S	27.07	38.5	28.5	38.5	10.0	NA	Downgradient	N	

Staff: SB/MA/AD/DS/TG

Date: 8/21/23

Time (start/finish): 1120 / 1950

PZs

Well ID	Depth to Water	Total Depth (feet bgs)[1]	Screen Interval (feet bgs)		Screen Length	Old Well ID	Location	Has Dedicated Pump (Y/N)	TD Tape
PZ-74I	22.17				10.0	NA		N	50.95
PZ-75I	17.36				10.0	NA		N	30.54
PZ-76I	20.02	49.02			10.0	NA		N	
PZ-77I	18.69	43.20			10.0	NA		N	
PZ-78I	NA	NA	Total Well		10.0	NA			
PZ-79	13.73				10.0	NA		N	19.3
Temporary Piezometers									
PB-13D		97.0	87	97	10.0	NA	Downgradient		

Staff: TG/JT

Date: 8-21-23

Time (start/finish): 1300 / 1800

AP-E

Well-ID	Depth to Water	Total Depth (feet bgs)[1]	Screen Interval (feet bgs)		Screen Length	Old Well-ID	Location	Has Dedicated Pump (Y/N)	Total Depth
BRGWA-2S	12.27	44.6	34.2	44.2	10.0	PZ-2S	Upgradient E	Y (Transducer)	NA
BRGWA-2I	12.07	64.8	53.9	63.9	10.0	PZ-2I	Upgradient E	Y	NA
BRGWA-5S	12.94	40.0	29.8	39.8	10.0	PZ-5S	Upgradient E	Y	NA
BRGWA-5I	12.95	61.2	50.8	60.8	10.0	PZ-5I	Upgradient E	Y	NA
BRGWA-6S	26.96	49.7	39.3	49.3	10.0	PZ-6S	Upgradient E	Y Y	NA
BRGWC-17S	6.03	7.1	1.7	6.7	5.0	PZ-17S	Downgradient E	Transducer	7.05
BRGWC-33S	12.31	26.4	16	26	10.0	PZ-33S	Downgradient E	Y	NA
BRGWC-34S	3.45	23.0	13	23	10.0	PZ-34S	Downgradient E	Y	NA
BRGWC-35S	2.20	27.4	17	27	10.0	PZ-35S	Downgradient E	Y	NA
BRGWC-36S	4.98	28.7	18.7	28.7	10.0	PZ-36S	Downgradient E	N	35.69
BRGWC-37S	53.22	63.6	53.6	63.6	10.0	PZ-37S	Downgradient E	N	NA
BRGWC-38S	13.30	38.2	27.8	37.8	10.0	PZ-38S	Downgradient E	Y	NA
PZ-19S	27.95	34.7	24.3	34.3	10.0	NA	Downgradient E	N	39.46
PZ-52D	14.93	59.5	49.5	59.5	10.0	NA	Downgradient E	N	62.37
PZ-52D	24.67	139.4	129.4	139.4	10.0	NA	Downgradient E	Y	NA
PZ-70I	26.62	60.0	39.5	49.5	10.0	NA	Downgradient E	N	52.98

Staff: TG/[redacted]ST

Date: 8-21-23

Time (start/finish): 1300/1800

PZs

Well-ID	Depth to Water	Total Depth (feet bgs)[1]	Screen Interval (Feet bgs)		Screen Length	Old Well-ID	Location	Has Dedicated Pump (Y/N)	Total Depth
PZ-1D	39.89	160.0	65.5	160	94.5	NA	Upgradient	N	NA
PZ-1I	41.53	79.5	69.1	79.1	10.0	NA	Upgradient	Transducer	NA
PZ-1S	39.69	65.0	54.8	64.8	10.0	NA	Upgradient	N	NA
PZ-3D	49.44	130.0	48	130	82.0	NA	Upgradient	N	NA
PZ-3I	51.06	54.8	44.2	54.2	10.0	NA	Upgradient	N	NA
PZ-3S	DRY	39.9	29.5	39.5	10.0	NA	Upgradient	N	NA
PZ-4I	33.98	46.8	36.4	46.4	10.0	NA	Upgradient	Transducer	NA
PZ-4S	32.21	30.0	19.6	29.6	10.0	NA	Upgradient	N	NA
PZ-7S	28.60	44.5	34.1	44.1	10.0	NA	Downgradient	N	NA
PZ-8S	27.06	49.5	39.1	49.1	10.0	NA	Upgradient	N	NA
PZ-9S	35.90	49.0	37.6	47.6	10.0	NA	Upgradient	N	NA
PZ-10S	29.75	39.0	28.6	38.6	10.0	NA	Downgradient	N	NA
PZ-14I	19.45	53.6	43.4	53.4	10.0	NA	Downgradient	N	NA
PZ-14S	23.84	37.6	27.2	37.2	10.0	NA	Downgradient	N	NA
PZ-15I	11.12	88.7	78.3	88.3	10.0	NA	Downgradient	N	NA

Obstruction at 13.0 btoc possible to get past

FIELD STAFF:
TG/DJ

Georgia Power Site Sampling Data (GW)

Site Name: Plant Branch AP - E **Dates:** 8/22 - 8/24/23

Sample ID	Sample Date	Sample Time	Additional Comments
BRA-BRGWC-17S	8-23-23	1405	check field ferrous iron Ferrous iron = 0.0mg/L
BRA-BRGWC-33S	8-22-23	1210	Plus Eurofins split sulfide check field ferrous iron Ferrous iron = 0.0 mg/L
BRA-BRGWC-34S	8-22-23	1435	check field ferrous iron Ferrous iron = 0.0 mg/L
BRA-BRGWC-35S	8-23-23	1201	Plus Eurofins split sulfide check field ferrous iron Ferrous iron = 0.0mg/L
BRA-BRGWC-36S	8-23-23	1556	check field ferrous iron Ferrous iron = 0.0mg/L
BRA-BRGWC-37S	8-22-23	1651	check field ferrous iron Ferrous iron = 0.0mg/L
BRA-BRGWC-38S	8-23-23	1212	Plus Eurofins split sulfide check field ferrous iron Ferrous iron = 0.0mg/L
BRA-PZ-13S	8-22-23	1647	check field ferrous iron Ferrous iron = 0.0 mg/L
BRA-PZ-52D	8-23-23	1346	check field ferrous iron Ferrous iron = 0.0mg/L
BRA-PZ-53D	8-24-23	1012	check field ferrous iron Ferrous iron = 0.0mg/L
BRA-PZ-70I	8-23-23	1612	check field ferrous iron Ferrous iron = 0.0mg/L

FIELD STAFF: TGAJ

Georgia Power Site Sampling Data (GW)

Site Name: Plant Branch AP - E Dates :

Sample ID	Sample Date	Sample Time	Additional Comments
BRA-APE-FD-04	8-22-23	—	Parent Sample: BRGWC-335
BRA-APE-FD-05	8-23-23	—	Parent Sample: BRGWC-355
BRA-APE-FB-07	8-22-23	1510	Poured at: BRGWC-345
BRA-APE-FB-08	8-23-23	1630	Poured at: BRGWC-365
BRA-APE-EB-09	8-23-23	1645	Equipment Type: Peri Pump
BRA-APE-EB-10	8-23-23	1315	Equipment Type: Gloves

Put Upgradient, BCD, E, New PZs, and Split on separate COCs

Matrix codes WG for groundwater, WS for surface water, WW for wastewater, WQ for field blanks and equipment blanks
FD for blind field duplicates with WG matrix

Additional comments .

Note if Dissolved metals were taken

Task_Code: BRA-CCR-ASSMT-202352

ATLANTIC COAST CONSULTING, INC.

Daily Instrument Calibration Log

Page: 1 of 1

SITE: Pleasure Beach

TECHNICIAN: T. Crosbie

WATER LEVEL: Solinst

WATER LEVEL S/N: 376571

INSTRUMENT S/N: 965658

INSTRUMENT TYPE: AquaTroll

CAL SOLUTIONS:			
Manufact. Drift range	ID: pH 4	LOT #: 2225053	EXP. DATE: 11/23
pH must be less than .10	ID: pH 7	LOT #: 265590	EXP. DATE: 5/24
(6.90-7.10 range)	ID: pH 10	LOT #: 268707	EXP. DATE: 2/24
Conductivity must be within ±5%	ID: Conductivity	LOT #: 2225053	EXP. DATE: 11/23
(1399 - 1427 range)	ID: ORP	LOT #: 360400	EXP. DATE: 1/24

Calibration Date: 8-22 Time: 0600

RDO: 100% sat. = 91.01

PH: 4.00 = 3.94 7.00 = 6.91 10.00 = 9.78

CONDUCTIVITY: ~~1413~~ ~~4490~~ = 4520

ORP (mV) 240 = 229

Drift Check Date: 8-22 Time: 1245

pH 7.00 = 7.07 SC ~~1413~~ ~~4490~~ = 4476 ORP 240 = 232

Drift Check Date: 8-22 Time: 1600

pH 7.00 = 7.07 SC ~~1413~~ ~~4490~~ = 4510 ORP 240 = 231

Calibration Date: 8-23 Time: 0830

RDO: 100% sat. = 101.95

PH: 4.00 = 4.19 7.00 = 7.15 10.00 = 10.09

CONDUCTIVITY: ~~1413~~ ~~4490~~ = ~~4572~~ 4572

ORP (mV) 240 = 238

Drift Check Date: 8-23 Time: 1315

pH 7.00 = 7.02 SC ~~1413~~ ~~4490~~ = 4472 ORP 240 = 240

Drift Check Date: 8-23 Time: ____

pH 7.00 = SC 1413 = ORP 240 =

Calibration Date: 8-24 Time: 0815

RDO: 100% sat. = 103.3

PH: 4.00 = 4.03 7.00 = 6.95 10.00 = 9.90

CONDUCTIVITY: ~~1413~~ ~~4490~~ = 4461

ORP (mV) 240 = 241.3

Drift Check Date: 8-24 Time: 1200

pH 7.00 = 7.05 SC ~~1413~~ ~~4490~~ = 4480 ORP 240 = 239

Drift Check Date: — Time: — NA (Holiday)

Atlantic Coast Consulting, Inc.

Daily Instrument Calibration Log

SITE: Plant Branch

TECHNICIAN: T. Goble

INSTRUMENT S/N: HACH 20850

INSTRUMENT TYPE: HachLC049733

CAL SOLUTION:
0 NTU - LOT # — EXP. DATE: Nov 25
10 NTU - LOT # A3139 EXP. DATE: 8/24
20 NTU - LOT # A3134 EXP. DATE: 8/24

Calibration Date: 8-22-23 **Time:** 0840 **Time:** 1300 **Midday Calibration Time:** 0840

Calibration Solution	Instrument Reading		Midday Spot Check		Cal Solution	Reading	
0.0	0.67	NTU			0.0		NTU
10.0	10.7	NTU	10.0 = 10.4	NTU	10.0		NTU
20.0	21.9	NTU			20.0		NTU

Calibration Date: 8-23-23 **Time:** 0830 **Time:** 1300 **Midday Calibration Time:** N/A

Calibration Solution	Instrument Reading		Midday Spot Check		Cal Solution	Reading	
0.0	0.57	NTU			0.0		NTU
10.0	10.5	NTU	10.0 = 10.9	NTU	10.0		NTU
20.0	20.8	NTU			20.0		NTU

Calibration Date: 8-24-23 **Time:** 0830 **Time:** 1215 **Midday Calibration Time:** N/A

Calibration Solution	Instrument Reading		Midday Spot Check		Cal Solution	Reading	
0.0	0.33	NTU			0.0		NTU
10.0	10.6	NTU	10.0 = 10.3	NTU	10.0		NTU
20.0	20.4	NTU			20.0		NTU

Calibration Date: **Time:** **Time:** **Midday Calibration Time:**

Calibration Solution	Instrument Reading		Midday Spot Check		Cal Solution	Reading	
0.0		NTU			0.0		NTU
10.0		NTU	10.0 =	NTU	10.0		NTU
20.0		NTU			20.0		NTU

Calibration Date: **Time:** **Time:** **Midday Calibration Time:**

Calibration Solution	Instrument Reading		Midday Spot Check		Cal Solution	Reading	
0.0		NTU			0.0		NTU
10.0		NTU	10.0 =	NTU	10.0		NTU
20.0		NTU			20.0		NTU

Calibration Date: **Time:** **Time:** **Midday Calibration Time:**

Calibration Solution	Instrument Reading		Midday Spot Check		Cal Solution	Reading	
0.0		NTU			0.0		NTU
10.0		NTU	10.0 =	NTU	10.0		NTU
20.0		NTU			20.0		NTU

Calibration Date: **Time:** **Time:** **Midday Calibration Time:**

Calibration Solution	Instrument Reading		Midday Spot Check		Cal Solution	Reading	
0.0		NTU			0.0		NTU
10.0		NTU	10.0 =	NTU	10.0		NTU
20.0		NTU			20.0		NTU

ATLANTIC COAST CONSULTING, INC

Daily Instrument Calibration Log

Page: 1 of 2

SITE:	Plant Scherer
TECHNICIAN:	B. Thompson
WATER LEVEL:	Survinel
WATER LEVEL S/N:	530984
INSTRUMENT S/N:	945678
INSTRUMENT TYPE:	AquaTroll

CAL. SOLUTION/S:			
	ID: pH 4	LOT #: 36C910	EXP. DATE: 3/25
Manufact. Drift ranges	ID: pH 7	LOT #: 25C1109	EXP. DATE: 3/24
pH must be less than .10	ID: pH 10	LOT #: 24C018	EXP. DATE: 3/24
(6.90-7.10 range)	ID: Conductivity	LOT #: 3G1006	EXP. DATE: 3/24
Conductivity must be within 5% (1399 - 1427 range)	ID: ORP	LOT #: 3G1009	EXP. DATE: 5/24

Calibration Date: 8/21/23 Time: 1150

RDO: 100% sat. = 105.12

PH: 4.00 = 3.99 7.00 = 6.94 10.00 = 10.20

CONDUCTIVITY: 1413 = ~~1368~~ 1351

ORP (mV): 240 = 239.4

Drift Check Date: 8/21/23 Time: 1700

pH 7.00 = 7.00 SC 1413 = 1355 ORP 240 = 241.0

Drift Check Date: ____ Time: ____

pH 7.00 = SC 1413 = ORP 240 = N/A

Calibration Date: 8/22/23 Time: ~~1045~~ 0900

RDO: 100% sat. = 101.11

PH: 4.00 = 4.12 7.00 = 7.05 10.00 = 10.07

CONDUCTIVITY: 1413 = 1434

ORP (mV): 240 = 221.5

Drift Check Date: 8/22/23 Time: 1400

pH 7.00 = 7.01 SC 1413 = 1410 ORP 240 = 220.3

Drift Check Date: 8/22/23 Time: 1745

pH 7.00 = 7.00 SC 1413 = 1418 ORP 240 = 223.1

Calibration Date: 8/23/23 Time: 0720

RDO: 100% sat. = 99.89

PH: 4.00 = 3.99 7.00 = 6.99 10.00 = 9.95

CONDUCTIVITY: 1413 = 1398

ORP (mV): 240 = 226.7

Drift Check Date: 8/23/23 Time: 1745

pH 7.00 = 7.00 SC 1413 = 1504 ORP 240 = 230.0

Drift Check Date: 8/24/23 Time: 1650

pH 7.00 = 7.00 SC 1413= 1520 ORP 240= 230.3

ATLANTIC COAST CONSULTING, INC.

Daily Instrument Calibration Log

Page: 2 of 2

Calibration Date: 8/24/23 Time: 0901

RDO: 100% sat. = 100.2

PH: 4.00 = 4.01 7.00 = 7.01 10.00 = 10.03

CONDUCTIVITY: 1413 = 1409

ORP (mV) 240 = 226.4

Drift Check Date: 8/24/23 Time: 1250

pH 7.00 = 7.02 SC 1413 = 1412 ORP 240 = 226.7

Drift Check Date: 8/24/23 Time: 1700

pH 7.00 = 7.00 SC 1413 = 1413 ORP 240 = 225.1

Calibration Date: _____ Time: _____

RDO: 100% sat. =

PH: 4.00 = 7.00 = 10.00 =

CONDUCTIVITY: 1413 =

ORP (mV) 240 =

Drift Check Date: _____ Time: _____

pH 7.00 = SC 1413 = ORP 240 =

Drift Check Date: _____ Time: _____

pH 7.00 = SC 1413 = ORP 240 =

Calibration Date: _____ Time: _____

RDO: 100% sat. =

PH: 4.00 = 7.00 = 10.00 =

CONDUCTIVITY: 1413 =

ORP (mV) 240 =

Drift Check Date: _____ Time: _____

pH 7.00 = SC 1413 = ORP 240 =

Drift Check Date: _____ Time: _____

pH 7.00 = SC 1413 = ORP 240 =

ATLANTIC COAST CONSULTING, INC.

Daily Instrument Calibration Log

SITE: Piney Branch

TECHNICIAN: D. Schwartz

INSTRUMENT S/N: 22080106127

INSTRUMENT TYPE: HACH

CAL. SOLUTION:

0 NTU LOT #	---	EXP. DATE: N/A
10 NTU - LOT #	A3139	EXP. DATE: 08/24
20 NTU - LOT #	A3138	EXP. DATE: 08/24

Calibration Date: 8/21/23 **Time:** 1640 | **Time:** 1640 | **Midday Calibration Time:** ---

Calibration Solution	Instrument Reading		Midday Spot Check	Cal Solution	Reading	
0.0	0.21	NTU		0.0		NTU
10.0	10.3	NTU	10.0 = 10.3 NTU	10.0		NTU
20.0	20.7	NTU		20.0		NTU

Calibration Date: 8/22/23 **Time:** 0810 | **Time:** 1230 | **Midday Calibration Time:** 1700

Calibration Solution	Instrument Reading		Midday Spot Check	Cal Solution	Reading	
0.0	0.23	NTU		0.0	0.22	NTU
10.0	10.0	NTU	10.0 = 10.1 NTU	10.0	9.99	NTU
20.0	21.0	NTU		20.0	20.1	NTU

Calibration Date: 8/23/23 **Time:** 0743 | **Time:** 1402 | **Midday Calibration Time:** 1740

Calibration Solution	Instrument Reading		Midday Spot Check	Cal Solution	Reading	
0.0	0.29	NTU		0.0	0.25	NTU
10.0	9.79	NTU	10.0 = 9.99 NTU	10.0	10.1	NTU
20.0	20.0	NTU		20.0	20.3	NTU

Calibration Date: 8/24/23 **Time:** 0900 | **Time:** 1245 | **Midday Calibration Time:** 1700

Calibration Solution	Instrument Reading		Midday Spot Check	Cal Solution	Reading	
0.0	0.24	NTU		0.0	0.24	NTU
10.0	9.99	NTU	10.0 = 9.98 NTU	10.0	9.97	NTU
20.0	20.3	NTU		20.0	20.2	NTU

Calibration Date: **Time:** | **Time:** | **Midday Calibration Time:**

Calibration Solution	Instrument Reading		Midday Spot Check	Cal Solution	Reading	
0.0		NTU		0.0		NTU
10.0		NTU	10.0 = NTU	10.0		NTU
20.0		NTU		20.0		NTU

Calibration Date: **Time:** | **Time:** | **Midday Calibration Time:**

Calibration Solution	Instrument Reading		Midday Spot Check	Cal Solution	Reading	
0.0		NTU		0.0		NTU
10.0		NTU	10.0 = NTU	10.0		NTU
20.0		NTU		20.0		NTU

Calibration Date: **Time:** | **Time:** | **Midday Calibration Time:**

Calibration Solution	Instrument Reading		Midday Spot Check	Cal Solution	Reading	
0.0		NTU		0.0		NTU
10.0		NTU	10.0 = NTU	10.0		NTU
20.0		NTU		20.0		NTU

Calibration Report

Instrument	Aqua TROLL 400
Serial Number	965678
Created	8/21/2023

Sensor	**RDO**
Serial Number	964485
Last Calibrated	8/21/2023

Calibration Details

Slope	1.02317
Offset	0.00 mg/L

Calibration point 100%

Concentration	7.28 mg/L
Temperature	30.38 °C
Barometric Pressure	1,005.4 mbar

Sensor	**Conductivity**
Serial Number	965678
Last Calibrated	8/21/2023

Calibration Details

Cell Constant	0.834
Reference Temperature	25.00 °C
TDS Conversion Factor (ppm)	0.65

Sensor	**Level**
Serial Number	965199
Last Calibrated	Factory Defaults

Sensor	**pH/ORP**
Serial Number	21997
Last Calibrated	8/21/2023

Calibration Details

Total Calibration Points	3

Calibration Point 1

pH of Buffer	4.01 pH
pH mV	94.9 mV
Temperature	31.00 °C

Calibration Point 2

pH of Buffer	6.99 pH
pH mV	-78.5 mV
Temperature	31.10 °C

Calibration Point 3

pH of Buffer	9.95 pH
pH mV	-249.6 mV
Temperature	30.95 °C

Slope and Offset 1

Slope	-58.18 mV/pH
Offset	-79.1 mV

Slope and Offset 2

Slope	-57.8 mV/pH
Offset	-79.1 mV

ORP

ORP Solution	Zobell's
Offset	75.6 mV
Temperature	30.88 °C

Calibration Report

Instrument	Aqua TROLL 400
Serial Number	965678
Created	8/22/2023

Sensor	**RDO**
Serial Number	964485
Last Calibrated	8/22/2023

Calibration Details

Slope	1.012477
Offset	0.00 mg/L

Calibration point 100%

Concentration	8.05 mg/L
Temperature	25.33 °C
Barometric Pressure	1,005.5 mbar

Sensor	**Conductivity**
Serial Number	965678
Last Calibrated	8/22/2023

Calibration Details

Cell Constant	0.843
Reference Temperature	25.00 °C
TDS Conversion Factor (ppm)	0.65

Sensor	**Level**
Serial Number	965199
Last Calibrated	Factory Defaults

Sensor	**pH/ORP**
Serial Number	21997
Last Calibrated	8/22/2023

Calibration Details

Total Calibration Points	3

Calibration Point 1

pH of Buffer	4.00 pH
pH mV	87.0 mV
Temperature	26.11 °C

Calibration Point 2

pH of Buffer	7.00 pH
pH mV	-82.4 mV
Temperature	26.38 °C

Calibration Point 3

pH of Buffer	10.00 pH
pH mV	-252.8 mV
Temperature	26.38 °C

Slope and Offset 1

Slope	-56.47 mV/pH
Offset	-82.4 mV

Slope and Offset 2

Slope	-56.78 mV/pH
Offset	-82.4 mV

ORP

ORP Solution	Zobell's
Offset	81.2 mV
Temperature	26.56 °C

Calibration Report

Instrument	Aqua TROLL 400
Serial Number	965658
Created	8/22/2023

Sensor	**RDO**
Serial Number	964434
Last Calibrated	8/22/2023

Calibration Details

Slope	1.114191
Offset	0.00 mg/L

Calibration point 100%

Concentration	6.95 mg/L
Temperature	28.17 °C
Barometric Pressure	1,005.5 mbar

Sensor	**Conductivity**
Serial Number	965658
Last Calibrated	8/22/2023

Calibration Details

Cell Constant	1.039
Reference Temperature	25.00 °C
TDS Conversion Factor (ppm)	0.65

Sensor	**Level**
Serial Number	962246
Last Calibrated	Factory Defaults

Sensor	**pH/ORP**
Serial Number	22007
Last Calibrated	8/22/2023

Calibration Details

Total Calibration Points	3

Calibration Point 1

pH of Buffer	4.01 pH
pH mV	81.5 mV
Temperature	28.64 °C

Calibration Point 2

pH of Buffer	6.99 pH
pH mV	-84.4 mV
Temperature	28.82 °C

Calibration Point 3

pH of Buffer	9.95 pH
pH mV	-236.0 mV
Temperature	28.87 °C

Slope and Offset 1

Slope	-55.66 mV/pH
Offset	-85.0 mV

Slope and Offset 2

Slope	-51.2 mV/pH
Offset	-84.9 mV

ORP

ORP Solution	ORP Standard
Offset	98.7 mV
Temperature	28.64 °C

Calibration Report

Instrument	Aqua TROLL 400
Serial Number	965678
Created	8/23/2023

Sensor	**RDO**
Serial Number	964485
Last Calibrated	8/23/2023

Calibration Details

Slope	1.014711
Offset	0.00 mg/L

Calibration point 100%

Concentration	7.83 mg/L
Temperature	26.65 °C
Barometric Pressure	1,004.8 mbar

Sensor	**Conductivity**
Serial Number	965678
Last Calibrated	8/23/2023

Calibration Details

Cell Constant	0.822
Reference Temperature	25.00 °C
TDS Conversion Factor (ppm)	0.65

Sensor	**Level**
Serial Number	965199
Last Calibrated	Factory Defaults

Sensor	**pH/ORP**
Serial Number	21997
Last Calibrated	8/23/2023

Calibration Details

Total Calibration Points	3

Calibration Point 1

pH of Buffer	4.00 pH
pH mV	87.6 mV
Temperature	27.17 °C

Calibration Point 2

pH of Buffer	7.00 pH
pH mV	-82.2 mV
Temperature	27.25 °C

Calibration Point 3

pH of Buffer	10.00 pH
pH mV	-252.6 mV
Temperature	27.25 °C

Slope and Offset 1

Slope	-56.63 mV/pH
Offset	-82.2 mV

Slope and Offset 2

Slope	-56.8 mV/pH
Offset	-82.2 mV

ORP

ORP Solution	Zobell's
Offset	80.5 mV
Temperature	27.36 °C

Calibration Report

Instrument	Aqua TROLL 400
Serial Number	965658
Created	8/23/2023

Sensor	**RDO**
Serial Number	964434
Last Calibrated	8/23/2023

Calibration Details

Slope	1.032823
Offset	0.00 mg/L

Calibration point 100%

Concentration	7.70 mg/L
Temperature	26.56 °C
Barometric Pressure	1,004.8 mbar

Sensor	**Conductivity**
Serial Number	965658
Last Calibrated	8/23/2023

Calibration Details

Cell Constant	1.019
Reference Temperature	25.00 °C
TDS Conversion Factor (ppm)	0.65

Sensor	**Level**
Serial Number	962246
Last Calibrated	Factory Defaults

Sensor	**pH/ORP**
Serial Number	22007
Last Calibrated	8/23/2023

Calibration Details

Total Calibration Points	3

Calibration Point 1

pH of Buffer	4.01 pH
pH mV	71.5 mV
Temperature	27.80 °C

Calibration Point 2

pH of Buffer	6.99 pH
pH mV	-92.3 mV
Temperature	28.09 °C

Calibration Point 3

pH of Buffer	9.95 pH
pH mV	-242.7 mV
Temperature	28.29 °C

Slope and Offset 1

Slope	-54.98 mV/pH
Offset	-92.9 mV

Slope and Offset 2

Slope	-50.8 mV/pH
Offset	-92.8 mV

ORP

ORP Solution	ORP Standard
Offset	100.5 mV
Temperature	28.31 °C

Calibration Report

Instrument	Aqua TROLL 400
Serial Number	965678
Created	8/24/2023

Sensor	**RDO**
Serial Number	964485
Last Calibrated	8/24/2023

Calibration Details

Slope	1.012094
Offset	0.00 mg/L

Calibration point 100%

Concentration	8.16 mg/L
Temperature	24.65 °C
Barometric Pressure	1,005.8 mbar

Sensor	**Conductivity**
Serial Number	965678
Last Calibrated	8/24/2023

Calibration Details

Cell Constant	0.829
Reference Temperature	25.00 °C
TDS Conversion Factor (ppm)	0.65

Sensor	**Level**
Serial Number	965199
Last Calibrated	Factory Defaults

Sensor	**pH/ORP**
Serial Number	21997
Last Calibrated	8/24/2023

Calibration Details

Total Calibration Points	3

Calibration Point 1

pH of Buffer	4.00 pH
pH mV	83.9 mV
Temperature	25.65 °C

Calibration Point 2

pH of Buffer	7.00 pH
pH mV	-85.2 mV
Temperature	25.78 °C

Calibration Point 3

pH of Buffer	10.00 pH
pH mV	-253.5 mV
Temperature	25.56 °C

Slope and Offset 1

Slope	-56.34 mV/pH
Offset	-85.2 mV

Slope and Offset 2

Slope	-56.12 mV/pH
Offset	-85.2 mV

ORP

ORP Solution	Zobell's
Offset	81.4 mV
Temperature	26.32 °C

Calibration Report

Instrument	Aqua TROLL 400
Serial Number	965658
Created	8/24/2023

Sensor	**RDO**
Serial Number	964434
Last Calibrated	8/24/2023

Calibration Details

Slope	1.002982
Offset	0.00 mg/L

Calibration point 100%

Concentration	8.10 mg/L
Temperature	25.46 °C
Barometric Pressure	1,005.8 mbar

Sensor	**Conductivity**
Serial Number	965658
Last Calibrated	8/24/2023

Calibration Details

Cell Constant	1.026
Reference Temperature	25.00 °C
TDS Conversion Factor (ppm)	0.65

Sensor	**Level**
Serial Number	962246
Last Calibrated	Factory Defaults

Sensor	**pH/ORP**
Serial Number	22007
Last Calibrated	8/24/2023

Calibration Details

Total Calibration Points	3

Calibration Point 1

pH of Buffer	4.00 pH
pH mV	70.8 mV
Temperature	26.94 °C

Calibration Point 2

pH of Buffer	7.00 pH
pH mV	-90.0 mV
Temperature	27.16 °C

Calibration Point 3

pH of Buffer	10.00 pH
pH mV	-239.5 mV
Temperature	27.30 °C

Slope and Offset 1

Slope	-53.58 mV/pH
Offset	-90.0 mV

Slope and Offset 2

Slope	-49.85 mV/pH
Offset	-90.0 mV

ORP

ORP Solution	ORP Standard
Offset	99.6 mV
Temperature	27.45 °C

GEL Laboratories LLC
a member of The GEL Group INC
2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

February 14, 2024

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

Re: Branch CCR Groundwater Compliance Upgradient
Work Order: 653570

Dear Joju Abraham:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on January 31, 2024. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

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

Laboratory ID	Client ID	Matrix	Date Collected	Date Recieved
653570001	BRA-BRGWA-2S	Ground Water	30/01/24 10:45	31/01/24 13:06
653570002	BRA-BRGWA-5S	Ground Water	30/01/24 10:22	31/01/24 13:06
653570003	BRA-BRGWA-5I	Ground Water	30/01/24 10:30	31/01/24 13:06
653570004	BRA-BRGWA-6S	Ground Water	30/01/24 10:21	31/01/24 13:06
653570005	BRA-BRGWA-2I	Ground Water	30/01/24 12:52	31/01/24 13:06

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

Prep Methods and Prep Dates

Method	Run Date ID
SW846 3005A	01-FEB-2024
SW846 7470A Prep	01-FEB-2024

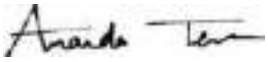
Analysis Methods and Analysis Dates

Method	Run Date ID
EPA 300.0	31-JAN-2024
SM 2320B	01-FEB-2024
SM 2540C	06-FEB-2024

SM 4500-S (2-) D		31-JAN-2024
SW846 3005A/6020B		10-FEB-2024
SW846 3005A/6020B		12-FEB-2024
SW846 3005A/6020B		13-FEB-2024
SW846 7470A		02-FEB-2024

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4504.

Sincerely,



Amanda Turner for
Erin Trent
Project Manager

Purchase Order: GPC82177-0006
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: 653570 GEL Work Order: 653570

The Qualifiers in this report are defined as follows:

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

** Analyte is a Tracer compound

** Analyte is a surrogate compound

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

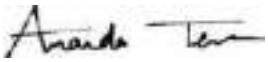
J Value is estimated

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

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

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

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

Reviewed by 

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

Certificate of Analysis

Report Date: February 14, 2024

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceUpgradient

Client Sample ID: BRA-BRGWA-2S
Sample ID: 653570001
Matrix: WG
Collect Date: 30-JAN-24 10:45
Receive Date: 31-JAN-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		2.14	0.0670	0.200	mg/L		1	CH6	01/31/24	1637	2561599	1
Fluoride		0.184	0.0330	0.100	mg/L		1					
Nitrate-N		0.275	0.0330	0.100	mg/L		1					
Sulfate		0.423	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	02/02/24	1233	2561612	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/10/24	0036	2561630	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0137	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	J	0.00854	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000962	0.000300	0.00100	mg/L	1.00	1					
Iron		0.119	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		0.443	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		3.51	0.0800	0.250	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	02/12/24	1310	2561630	4
Calcium		5.25	0.0800	0.200	mg/L	1.00	1					
Magnesium		5.36	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.0378	0.00100	0.00500	mg/L	1.00	1	PRB	02/13/24	0948	2561630	5
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		54.0	2.38	10.0	mg/L			ES2	02/06/24	0807	2563910	6
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	01/31/24	1638	2561631	7

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Report Date: February 14, 2024

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceUpgradient

Client Sample ID: BRA-BRGWA-2S
Sample ID: 653570001
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		38.1	0.725	2.00	mg/L			JW2	02/01/24	1056	2561936	8
Bicarbonate alkalinity (CaCO3)		38.1	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	JD2	02/01/24	0815	2561629
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/01/24	1135	2561610

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	
7	SM 4500-S (2-) D	
8	SM 2320B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: February 14, 2024

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceUpgradient

Client Sample ID:	BRA-BRGWA-5S	Project:	GPCC00101
Sample ID:	653570002	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	30-JAN-24 10:22		
Receive Date:	31-JAN-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		3.52	0.0670	0.200	mg/L		1	CH6	01/31/24	1810	2561599	1
Fluoride		0.233	0.0330	0.100	mg/L		1					
Nitrate-N		0.204	0.0330	0.100	mg/L		1					
Sulfate		0.617	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	02/02/24	1239	2561612	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1	PRB	02/12/24	1316	2561630	3
Calcium		18.2	0.0800	0.200	mg/L	1.00	1					
Magnesium		8.58	0.0100	0.0300	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/10/24	0056	2561630	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0396	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	J	0.00582	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0870	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		0.515	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		4.64	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Manganese		0.00634	0.00100	0.00500	mg/L	1.00	1	PRB	02/13/24	1001	2561630	5
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		113	2.38	10.0	mg/L			ES2	02/06/24	0807	2563910	6
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	01/31/24	1638	2561631	7

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Certificate of Analysis

Report Date: February 14, 2024

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

Client Sample ID:	BRA-BRGWA-5S	Project:	GPCC00101
Sample ID:	653570002	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		78.1	0.725	2.00	mg/L			JW2	02/01/24	1057	2561936	8
Bicarbonate alkalinity (CaCO3)		78.1	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	JD2	02/01/24	0815	2561629
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/01/24	1135	2561610

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	
7	SM 4500-S (2-) D	
8	SM 2320B	

Notes:

Column headers are defined as follows:

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

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Report Date: February 14, 2024

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceUpgradient

Client Sample ID:	BRA-BRGWA-5I	Project:	GPCC00101
Sample ID:	653570003	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	30-JAN-24 10:30		
Receive Date:	31-JAN-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		3.98	0.0670	0.200	mg/L		1	CH6	01/31/24	1841	2561599	1
Fluoride		0.232	0.0330	0.100	mg/L		1					
Nitrate-N		0.349	0.0330	0.100	mg/L		1					
Sulfate		2.74	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	02/02/24	1240	2561612	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1	PRB	02/12/24	1320	2561630	3
Calcium		16.0	0.0800	0.200	mg/L	1.00	1					
Magnesium		10.8	0.0100	0.0300	mg/L	1.00	1					
Manganese	J	0.00120	0.00100	0.00500	mg/L	1.00	1	PRB	02/13/24	1003	2561630	4
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/10/24	0059	2561630	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0296	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	J	0.00551	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000555	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0342	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum		0.00143	0.000200	0.00100	mg/L	1.00	1					
Potassium		1.23	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		5.05	0.0800	0.250	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		118	2.38	10.0	mg/L			ES2	02/06/24	0807	2563910	6
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	01/31/24	1638	2561631	7

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Report Date: February 14, 2024

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceUpgradient

Client Sample ID: BRA-BRGWA-5I
Sample ID: 653570003
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		81.1	0.725	2.00	mg/L			JW2	02/01/24	1100	2561936	8
Bicarbonate alkalinity (CaCO3)		81.1	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/01/24	1135	2561610
SW846 3005A	ICP-MS 3005A PREP	JD2	02/01/24	0815	2561629

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	
7	SM 4500-S (2-) D	
8	SM 2320B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: February 14, 2024

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceUpgradient

Client Sample ID: BRA-BRGWA-6S
Sample ID: 653570004
Matrix: WG
Collect Date: 30-JAN-24 10:21
Receive Date: 31-JAN-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		3.23	0.0670	0.200	mg/L		1	CH6	01/31/24	1911	2561599	1
Fluoride	J	0.0341	0.0330	0.100	mg/L		1					
Nitrate-N		0.671	0.0330	0.100	mg/L		1					
Sulfate		0.456	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	02/02/24	1242	2561612	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1	PRB	02/12/24	1321	2561630	3
Calcium		4.27	0.0800	0.200	mg/L	1.00	1					
Magnesium		4.38	0.0100	0.0300	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1	PRB	02/13/24	1005	2561630	4
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/10/24	0102	2561630	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0151	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		0.0139	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00317	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		0.659	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		2.60	0.0800	0.250	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		45.0	2.38	10.0	mg/L			ES2	02/06/24	0807	2563910	6
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	01/31/24	1638	2561631	7

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Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceUpgradient

Client Sample ID: BRA-BRGWA-6S
Sample ID: 653570004
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		25.9	0.725	2.00	mg/L			JW2	02/01/24	1101	2561936	8
Bicarbonate alkalinity (CaCO3)		25.9	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/01/24	1135	2561610
SW846 3005A	ICP-MS 3005A PREP	JD2	02/01/24	0815	2561629

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	
7	SM 4500-S (2-) D	
8	SM 2320B	

Notes:

Column headers are defined as follows:

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

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Report Date: February 14, 2024

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceUpgradient

Client Sample ID:	BRA-BRGWA-2I	Project:	GPCC00101
Sample ID:	653570005	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	30-JAN-24 12:52		
Receive Date:	31-JAN-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		2.35	0.0670	0.200	mg/L		1	CH6	01/31/24	1942	2561599	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Nitrate-N		0.271	0.0330	0.100	mg/L		1					
Sulfate		2.65	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	02/02/24	1243	2561612	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1	PRB	02/12/24	1322	2561630	3
Calcium		14.1	0.0800	0.200	mg/L	1.00	1					
Magnesium		8.67	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.0159	0.00100	0.00500	mg/L	1.00	1	PRB	02/13/24	1007	2561630	4
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/10/24	0105	2561630	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0124	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	J	0.00458	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00140	0.000300	0.00100	mg/L	1.00	1					
Iron		0.224	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00407	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	J	0.000362	0.000200	0.00100	mg/L	1.00	1					
Potassium		1.79	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		5.31	0.0800	0.250	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		98.0	2.38	10.0	mg/L			ES2	02/06/24	0807	2563910	6
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	01/31/24	1638	2561631	7

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

Certificate of Analysis

Report Date: February 14, 2024

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceUpgradient

Client Sample ID: BRA-BRGWA-2I
Sample ID: 653570005
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		68.4	0.725	2.00	mg/L			JW2	02/01/24	1103	2561936	8
Bicarbonate alkalinity (CaCO3)		68.4	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/01/24	1135	2561610
SW846 3005A	ICP-MS 3005A PREP	JD2	02/01/24	0815	2561629

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	
7	SM 4500-S (2-) D	
8	SM 2320B	

Notes:

Column headers are defined as follows:

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

QC Summary

Report Date: February 14, 2024

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

Contact: **Joju Abraham**

Workorder: **653570**

Parmname	NOM		Sample	Qual	QC	Units	RPD%		REC%	Range	Anlst	Date	Time
Ion Chromatography													
Batch 2561599													
QC1205637122 653570001 DUP													
Chloride			2.14		2.13	mg/L	0.501			(0%-20%)	CH6	01/31/24	17:39
Fluoride			0.184		0.189	mg/L	2.79	^		(+/-0.100)			
Nitrate-N			0.275		0.273	mg/L	0.803	^		(+/-0.100)			
Sulfate			0.423		0.411	mg/L	2.83	^		(+/-0.400)			
QC1205637124 653582003 DUP													
Chloride			6.36		6.34	mg/L	0.331			(0%-20%)		02/01/24	01:22
Fluoride			0.242		0.245	mg/L	1.23	^		(+/-0.100)			
Nitrate-N		J	0.0660	U	ND	mg/L	200	^					
Sulfate			42.4		42.2	mg/L	0.475			(0%-20%)		02/01/24	18:29
QC1205637121 LCS													
Chloride	5.00				4.83	mg/L			96.7	(90%-110%)		01/31/24	16:06
Fluoride	2.50				2.39	mg/L			95.6	(90%-110%)			
Nitrate-N	2.50				2.39	mg/L			95.5	(90%-110%)			
Sulfate	10.0				9.77	mg/L			97.7	(90%-110%)			
QC1205637120 MB													
Chloride				U	ND	mg/L						01/31/24	15:36

QC Summary

Workorder: 653570

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography											
Batch 2561599											
Fluoride				U	ND	mg/L				CH6	01/31/24 15:36
Nitrate-N				U	ND	mg/L					
Sulfate				U	ND	mg/L					
QC1205637123 653570001 PS											
Chloride	5.00		2.14		7.30	mg/L		103	(90%-110%)		01/31/24 17:08
Fluoride	2.50		0.184		2.62	mg/L		97.5	(90%-110%)		
Nitrate-N	2.50		0.275		2.68	mg/L		96	(90%-110%)		
Sulfate	10.0		0.423		10.3	mg/L		98.4	(90%-110%)		
QC1205637125 653582003 PS											
Chloride	5.00		6.36		12.1	mg/L		115*	(90%-110%)		02/01/24 01:53
Fluoride	2.50		0.242		2.67	mg/L		97.1	(90%-110%)		
Nitrate-N	2.50	J	0.0660		2.45	mg/L		95.5	(90%-110%)		
Sulfate	10.0		8.49		18.9	mg/L		104	(90%-110%)		02/02/24 22:46
Metals Analysis - ICPMS											
Batch 2561630											
QC1205637184 LCS											
Antimony	0.0500				0.0489	mg/L		97.9	(80%-120%)	PRB	02/10/24 00:33
Arsenic	0.0500				0.0497	mg/L		99.4	(80%-120%)		
Barium	0.0500				0.0517	mg/L		103	(80%-120%)		

QC Summary

Workorder: **653570**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2561630										
Beryllium	0.0500			0.0563	mg/L		113	(80%-120%)	PRB	02/10/24 00:33
Boron	0.100			0.113	mg/L		113	(80%-120%)		02/12/24 13:08
Cadmium	0.0500			0.0505	mg/L		101	(80%-120%)		02/10/24 00:33
Calcium	2.00			2.14	mg/L		107	(80%-120%)		02/12/24 13:08
Chromium	0.0500			0.0488	mg/L		97.5	(80%-120%)		02/10/24 00:33
Cobalt	0.0500			0.0499	mg/L		99.8	(80%-120%)		
Iron	2.00			1.97	mg/L		98.4	(80%-120%)		
Lead	0.0500			0.0495	mg/L		98.9	(80%-120%)		
Lithium	0.0500			0.0535	mg/L		107	(80%-120%)		
Magnesium	2.00			2.24	mg/L		112	(80%-120%)		02/12/24 13:08
Manganese	0.0500			0.0506	mg/L		101	(80%-120%)		02/13/24 09:46
Molybdenum	0.0500			0.0522	mg/L		104	(80%-120%)		02/10/24 00:33
Potassium	2.00			2.06	mg/L		103	(80%-120%)		
Selenium	0.0500			0.0501	mg/L		100	(80%-120%)		
Sodium	2.00			2.09	mg/L		105	(80%-120%)		

QC Summary

Workorder: **653570**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2561630										
Thallium	0.0500			0.0486	mg/L		97.1	(80%-120%)	PRB	02/10/24 00:33
QC1205637183 MB										
Antimony			U	ND	mg/L					02/10/24 00:30
Arsenic			U	ND	mg/L					
Barium			U	ND	mg/L					
Beryllium			U	ND	mg/L					
Boron			U	ND	mg/L					02/12/24 13:07
Cadmium			U	ND	mg/L					02/10/24 00:30
Calcium			U	ND	mg/L					02/12/24 13:07
Chromium			U	ND	mg/L					02/10/24 00:30
Cobalt			U	ND	mg/L					
Iron			U	ND	mg/L					
Lead			U	ND	mg/L					
Lithium			U	ND	mg/L					
Magnesium			U	ND	mg/L					02/12/24 13:07
Manganese			U	ND	mg/L					02/13/24 09:44

QC Summary

Workorder: **653570**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2561630											
Molybdenum				U	ND	mg/L				PRB	02/10/24 00:30
Potassium				U	ND	mg/L					
Selenium				U	ND	mg/L					
Sodium				U	ND	mg/L					
Thallium				U	ND	mg/L					
QC1205637185 653570001 MS											
Antimony	0.0500	U	ND		0.0501	mg/L		100	(75%-125%)		02/10/24 00:39
Arsenic	0.0500	U	ND		0.0502	mg/L		99.2	(75%-125%)		
Barium	0.0500		0.0137		0.0660	mg/L		105	(75%-125%)		
Beryllium	0.0500	U	ND		0.0590	mg/L		118	(75%-125%)		
Boron	0.100	U	ND		0.117	mg/L		113	(75%-125%)		02/12/24 13:12
Cadmium	0.0500	U	ND		0.0504	mg/L		101	(75%-125%)		02/10/24 00:39
Calcium	2.00		5.25		7.52	mg/L		114	(75%-125%)		02/12/24 13:12
Chromium	0.0500	J	0.00854		0.0593	mg/L		102	(75%-125%)		02/10/24 00:39
Cobalt	0.0500	J	0.000962		0.0528	mg/L		104	(75%-125%)		
Iron	2.00		0.119		2.17	mg/L		102	(75%-125%)		

QC Summary

Workorder: **653570**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2561630											
Lead	0.0500	U	ND		0.0500	mg/L		99.9	(75%-125%)	PRB	02/10/24 00:39
Lithium	0.0500	U	ND		0.0565	mg/L		112	(75%-125%)		
Magnesium	2.00		5.36		7.64	mg/L		114	(75%-125%)		02/12/24 13:12
Manganese	0.0500		0.0378		0.0910	mg/L		106	(75%-125%)		02/13/24 09:50
Molybdenum	0.0500	U	ND		0.0533	mg/L		107	(75%-125%)		02/10/24 00:39
Potassium	2.00		0.443		2.53	mg/L		104	(75%-125%)		
Selenium	0.0500	U	ND		0.0507	mg/L		101	(75%-125%)		
Sodium	2.00		3.51		5.63	mg/L		106	(75%-125%)		
Thallium	0.0500	U	ND		0.0487	mg/L		97.4	(75%-125%)		
QC1205637186 653570001 MSD											
Antimony	0.0500	U	ND		0.0507	mg/L	1.1	101	(0%-20%)		02/10/24 00:42
Arsenic	0.0500	U	ND		0.0511	mg/L	1.87	101	(0%-20%)		
Barium	0.0500		0.0137		0.0668	mg/L	1.3	106	(0%-20%)		
Beryllium	0.0500	U	ND		0.0605	mg/L	2.57	121	(0%-20%)		
Boron	0.100	U	ND		0.120	mg/L	3.14	117	(0%-20%)		02/12/24 13:13
Cadmium	0.0500	U	ND		0.0510	mg/L	1.22	102	(0%-20%)		02/10/24 00:42

QC Summary

Workorder: **653570**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2561630											
Calcium	2.00		5.25		7.64	mg/L	1.52	119	(0%-20%)	PRB	02/12/24 13:13
Chromium	0.0500	J	0.00854		0.0592	mg/L	0.14	101	(0%-20%)		02/10/24 00:42
Cobalt	0.0500	J	0.000962		0.0531	mg/L	0.648	104	(0%-20%)		
Iron	2.00		0.119		2.21	mg/L	2.09	105	(0%-20%)		
Lead	0.0500	U	ND		0.0512	mg/L	2.45	102	(0%-20%)		
Lithium	0.0500	U	ND		0.0571	mg/L	1.03	113	(0%-20%)		
Magnesium	2.00		5.36		7.84	mg/L	2.67	124	(0%-20%)		02/12/24 13:13
Manganese	0.0500		0.0378		0.0910	mg/L	0.0418	106	(0%-20%)		02/13/24 09:52
Molybdenum	0.0500	U	ND		0.0540	mg/L	1.23	108	(0%-20%)		02/10/24 00:42
Potassium	2.00		0.443		2.59	mg/L	2.49	107	(0%-20%)		
Selenium	0.0500	U	ND		0.0514	mg/L	1.48	103	(0%-20%)		
Sodium	2.00		3.51		5.75	mg/L	2.27	112	(0%-20%)		
Thallium	0.0500	U	ND		0.0494	mg/L	1.48	98.8	(0%-20%)		
QC1205637187 653570001 SDILT											
Antimony		U	ND	U	ND	ug/L	N/A		(0%-20%)		02/10/24 00:47
Arsenic		U	ND	U	ND	ug/L	N/A		(0%-20%)		

QC Summary

Workorder: **653570**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2561630										
Barium		13.7	J	2.52	ug/L	7.99		(0%-20%)	PRB	02/10/24 00:47
Beryllium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Boron	U	ND	U	ND	ug/L	N/A		(0%-20%)		02/12/24 13:15
Cadmium	U	ND	U	ND	ug/L	N/A		(0%-20%)		02/10/24 00:47
Calcium		5250		1040	ug/L	.721		(0%-20%)		02/12/24 13:15
Chromium	J	8.54	U	ND	ug/L	N/A		(0%-20%)		02/10/24 00:47
Cobalt	J	0.962	U	ND	ug/L	N/A		(0%-20%)		
Iron		119	U	ND	ug/L	N/A		(0%-20%)		
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Lithium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Magnesium		5360		997	ug/L	7.04		(0%-20%)		02/12/24 13:15
Manganese		37.8		7.44	ug/L	1.55		(0%-20%)		02/13/24 09:56
Molybdenum	U	ND	U	ND	ug/L	N/A		(0%-20%)		02/10/24 00:47
Potassium		443	J	82.7	ug/L	6.62		(0%-20%)		
Selenium	U	ND	U	ND	ug/L	N/A		(0%-20%)		

QC Summary

Workorder: **653570**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2561630										
Sodium		3510		643	ug/L	8.27		(0%-20%)	PRB	02/10/24 00:47
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Metals Analysis-Mercury										
Batch 2561612										
QC1205637162 653438005 DUP										
Mercury	U	ND	U	ND	mg/L	N/A			JP2	02/02/24 12:01
QC1205637158 LCS										
Mercury	0.00200			0.00211	mg/L		106	(80%-120%)		02/02/24 11:41
QC1205637157 MB										
Mercury			U	ND	mg/L					02/02/24 11:40
QC1205637163 653438005 MS										
Mercury	0.00200	U	ND	0.00219	mg/L		109	(75%-125%)		02/02/24 12:02
QC1205637164 653438005 SDILT										
Mercury	U	ND	U	ND	ug/L	N/A		(0%-10%)		02/02/24 12:04
Solids Analysis										
Batch 2563910										
QC1205641440 653575002 DUP										
Total Dissolved Solids		502		509	mg/L	1.38		(0%-5%)	ES2	02/06/24 08:07
QC1205641438 LCS										
Total Dissolved Solids	300			297	mg/L		99	(95%-105%)		02/06/24 08:07
QC1205641437 MB										
Total Dissolved Solids			U	ND	mg/L					02/06/24 08:07

QC Summary

Workorder: **653570**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Spectrometric Analysis										
Batch 2561631										
QC1205637189 LCS										
Total Sulfide	0.400			0.401	mg/L		100	(85%-115%)	JW2	01/31/24 16:37
QC1205637188 MB										
Total Sulfide			U	ND	mg/L					01/31/24 16:37
QC1205637190 653570001 PS										
Total Sulfide	0.400 U	ND		0.421	mg/L		105	(75%-125%)		01/31/24 16:38
QC1205637192 653582003 PS										
Total Sulfide	0.400 U	ND		0.294	mg/L		73.5*	(75%-125%)		01/31/24 16:38
QC1205637191 653570001 PSD										
Total Sulfide	0.400 U	ND		0.418	mg/L	0.75	104	(0%-15%)		01/31/24 16:38
QC1205637193 653582003 PSD										
Total Sulfide	0.400 U	ND		0.289	mg/L	1.8	72.2*	(0%-15%)		01/31/24 16:38
Titration and Ion Analysis										
Batch 2561936										
QC1205637749 LCS										
Alkalinity, Total as CaCO3	50.0			52.3	mg/L		105	(90%-110%)	JW2	02/01/24 10:50
QC1205637750 LCS										
Alkalinity, Total as CaCO3	15.0			15.1	mg/L		101	(90%-110%)		02/01/24 10:54
QC1205637751 LCSD										
Alkalinity, Total as CaCO3	50.0			52.1	mg/L	0.383	104	(0%-20%)		02/01/24 10:52
QC1205637752 LCSD										
Alkalinity, Total as CaCO3	15.0			15.2	mg/L	0.66	101	(0%-20%)		02/01/24 10:55

Notes:

The Qualifiers in this report are defined as follows:

QC Summary

Workorder: **653570**

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

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

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

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

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2561630

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 14
Preparation Batch: 2561629

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

GEL Sample ID#	Client Sample Identification
653570001	BRA-BRGWA-2S
653570002	BRA-BRGWA-5S
653570003	BRA-BRGWA-5I
653570004	BRA-BRGWA-6S
653570005	BRA-BRGWA-2I
1205637183	Method Blank (MB)**ICP-MS**
1205637184	Laboratory Control Sample (LCS)
1205637187	653570001(BRA-BRGWA-2SL) Serial Dilution (SD)
1205637185	653570001(BRA-BRGWA-2SS) Matrix Spike (MS)
1205637186	653570001(BRA-BRGWA-2SSD) 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 the calcium. Client sample concentrations were less than the MDL or greater than two times the CRDL; therefore the data were not adversely affected.

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

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

Analytical Batch: 2561612

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 40
Preparation Batch: 2561610

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

GEL Sample ID#	Client Sample Identification
653570001	BRA-BRGWA-2S
653570002	BRA-BRGWA-5S
653570003	BRA-BRGWA-5I
653570004	BRA-BRGWA-6S
653570005	BRA-BRGWA-2I
1205637157	Method Blank (MB)**CVAA**
1205637158	Laboratory Control Sample (LCS)
1205637164	653438005(NonSDGL) Serial Dilution (SD)
1205637162	653438005(NonSDGD) Sample Duplicate (DUP)
1205637163	653438005(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# 34
Analytical Batch: 2561599

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

GEL Sample ID#	Client Sample Identification
653570001	BRA-BRGWA-2S
653570002	BRA-BRGWA-5S
653570003	BRA-BRGWA-5I
653570004	BRA-BRGWA-6S
653570005	BRA-BRGWA-2I
1205637120	Method Blank (MB)
1205637121	Laboratory Control Sample (LCS)
1205637122	653570001(BRA-BRGWA-2S) Sample Duplicate (DUP)
1205637123	653570001(BRA-BRGWA-2S) Post Spike (PS)
1205637124	653582003(BRA-PZ-44) Sample Duplicate (DUP)
1205637125	653582003(BRA-PZ-44) Post Spike (PS)

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

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures

for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

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

Analyte	Sample	Value
Chloride	1205637125 (BRA-PZ-44PS)	115* (90%-110%)

Technical Information

Sample Dilutions
The following samples 1205637124 (BRA-PZ-44DUP) and 1205637125 (BRA-PZ-44PS) were diluted because target analyte concentrations exceeded the calibration range. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Sample Re-analysis
Sample 1205637125 (BRA-PZ-44PS) was reanalyzed due to PS failure. The reanalysis data was reported.

Miscellaneous Information

Manual Integrations
Sample 653570004 (BRA-BRGWA-6S) 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: 2563910

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

GEL Sample ID#	Client Sample Identification
653570001	BRA-BRGWA-2S
653570002	BRA-BRGWA-5S
653570003	BRA-BRGWA-5I
653570004	BRA-BRGWA-6S
653570005	BRA-BRGWA-2I
1205641437	Method Blank (MB)
1205641438	Laboratory Control Sample (LCS)
1205641440	653575002(BRA-BRGWC-35S) 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: **Sulfide, Total**
Analytical Method: SM 4500-S (2-) D
Analytical Procedure: GL-GC-E-052 REV# 13
Analytical Batch: 2561631

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

GEL Sample ID#	Client Sample Identification
653570001	BRA-BRGWA-2S
653570002	BRA-BRGWA-5S
653570003	BRA-BRGWA-5I
653570004	BRA-BRGWA-6S
653570005	BRA-BRGWA-2I
1205637188	Method Blank (MB)
1205637189	Laboratory Control Sample (LCS)
1205637190	653570001(BRA-BRGWA-2S) Post Spike (PS)
1205637191	653570001(BRA-BRGWA-2S) Post Spike Duplicate (PSD)
1205637192	653582003(BRA-PZ-44) Post Spike (PS)
1205637193	653582003(BRA-PZ-44) Post Spike Duplicate (PSD)

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

Data Summary:

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

Quality Control (QC) Information

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

Analyte	Sample	Value
Total Sulfide	1205637192 (BRA-PZ-44PS)	73.5* (75%-125%)
	1205637193 (BRA-PZ-44PSD)	72.2* (75%-125%)

Product: **Alkalinity**
Analytical Method: SM 2320B
Analytical Procedure: GL-GC-E-033 REV# 16
Analytical Batch: 2561936

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

GEL Sample ID#	Client Sample Identification

653570001	BRA-BRGWA-2S
653570002	BRA-BRGWA-5S
653570003	BRA-BRGWA-5I
653570004	BRA-BRGWA-6S
653570005	BRA-BRGWA-2I
1205637749	Laboratory Control Sample (LCS)
1205637750	Laboratory Control Sample (LCS)
1205637751	Laboratory Control Sample Duplicate (LCSD)
1205637752	Laboratory Control Sample Duplicate (LCSD)

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

Data Summary:

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

Quality Control (QC) Information

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

Certification Statement

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

653570 / 653572

Page: ____ of ____
Project #:
GEL Quote #:
COC Number [1]:
PO Number: GPC82177-0006

GEL Laboratories LLC
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytes
Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

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

Client Name: GA Power | Phone #: 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - Upgradient | Fax #:
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: J Barnhardt ACC | Send Results To: SCS & Geosyntec Contacts

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

Sample ID (* for composites - indicate start and stop dates/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: (Composite = C; Grab = G)	(# Known or Possible Hazards)	Total number of containers	CL, F, SO4, TDS, NO3 EPA 300, SM 4500C	Total Coli, E-coli sub SM 9223	6010B * EPA 3005, 6010, 7470	Boron 320.8, 228 SW 6010, 6020	Sulfide SM 4500	<-- Preservative Type (6)
BRA-BRGWA-2S	01/30/24	1045	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-BRGWA-5S	01/30/24	1022	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-BRGWA-5I	01/30/24	1050	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-BRGWA-6S	01/30/24	1021	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-BRGWA-2I	01/30/24	1252	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-														
BRA-														
BRA-														
BRA-														
BRA-														

Comments
Note: extra sample is required for sample specific QC
Task Code: BRA-CCR-ASSMT-2024S1

Chain of Custody Signatures

	Relinquished By: (Signed)	Date	Time	Received by: (signed)	Date	Time
1		1/31/24	0328	1	1/31/24	0328
2		1/31/24	1614	2	1/31/24	1506
3				3		

TAT Requested: Normal: x Rush: ____ Specify: ____ (Subject to Surcharge)
Fax Results: [ ] Yes [x] No
Select Deliverable: [ ] C of A [ ] QC Summary [ ] Level 1 [x] Level 2 [ ] Level 3 [ ] Level 4
Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Sr
For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No Cooler Temp: 1 °C
> For sample shipping and delivery details, see Sample Receipt & Review form (SRR)
Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1) Chain of Custody Number = Client Determined
2) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite
3) Field Filtered: For liquid matrices, indicate with a "Y" for yes if sample was field filtered or "N" for samples were not field filtered
4) Matrix Codes: WG=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SD=Sediment, SL=Sludge, WQ=Water Quality Control Matrix
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/Ignitible
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

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

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

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

653570 653584
653572 653575
653582 653580

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	SDG/AR/COC/Work Order:
Received By: QG	Date Received: 1/31/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other

N/a

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

Sample Receipt Criteria		Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)**	✓			Preservation Method: Wet Ice Ice Packs Dry ice None Other **all temperatures are recorded in Celsius TEMP: 4.6
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR1-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If YES, are Encores or Soil Kits present for soil(s)? Yes___ No___ NA___ (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___ (If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) reviewed Initials: JJS Date: 01/02/24 Page 1 of 1

List of current GEL Certifications as of 14 February 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122024-05
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	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-23-21
Utah NELAP	SC000122023-38
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC
2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

February 27, 2024

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

Re: Branch CCR Groundwater Compliance Upgradient-R
Work Order: 653572

Dear Joju Abraham:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on January 31, 2024. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

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

Laboratory ID	Client ID	Matrix	Date Collected	Date Recieved
653572001	BRA-BRGWA-2S	Ground Water	30/01/24 10:45	31/01/24 13:06
653572002	BRA-BRGWA-5S	Ground Water	30/01/24 10:22	31/01/24 13:06
653572003	BRA-BRGWA-5I	Ground Water	30/01/24 10:30	31/01/24 13:06
653572004	BRA-BRGWA-6S	Ground Water	30/01/24 10:21	31/01/24 13:06
653572005	BRA-BRGWA-2I	Ground Water	30/01/24 12:52	31/01/24 13:06

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

Prep Methods and Prep Dates

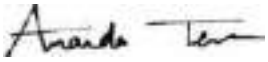
Not Applicable

Analysis Methods and Analysis Dates

Method	Run Date ID
Calculation	27-FEB-2024
EPA 903.1 Modified	26-FEB-2024
EPA 904.0/SW846 9320 Modified	23-FEB-2024

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4504.

Sincerely,



Amanda Turner for
Erin Trent
Project Manager

Purchase Order: GPC82177-0006
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: 653572 GEL Work Order: 653572

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

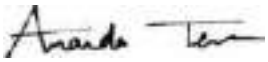
** Analyte is a surrogate compound

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: February 27, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceUpgradient-R

Client Sample ID: BRA-BRGWA-2S
Sample ID: 653572001
Matrix: WG
Collect Date: 30-JAN-24
Receive Date: 31-JAN-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		2.10	+/-1.28	2.00	+/-1.39	3.00	pCi/L			JE1	02/23/24	1249	2568518	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.54	+/-1.34	2.00	+/-1.45		pCi/L		1	NXL1	02/27/24	0938	2570132	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.439	+/-0.391	0.467	+/-0.398	1.00	pCi/L			MJ2	02/26/24	0954	2561841	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"	2568518	91.2	(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

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: February 27, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceUpgradient-R

Client Sample ID: BRA-BRGWA-5S
Sample ID: 653572002
Matrix: WG
Collect Date: 30-JAN-24
Receive Date: 31-JAN-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	-0.728	+/-0.924	1.90	+/-0.924	3.00	pCi/L			JE1	02/23/24	1249	2568518	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	0.000	+/-0.983	1.90	+/-0.983		pCi/L		1	NXL1	02/27/24	0938	2570132	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	-0.0919	+/-0.337	0.917	+/-0.337	1.00	pCi/L			MJ2	02/26/24	0954	2561841	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"	2568518	86.5	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

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: February 27, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceUpgradient-R

Client Sample ID: BRA-BRGWA-5I
Sample ID: 653572003
Matrix: WG
Collect Date: 30-JAN-24
Receive Date: 31-JAN-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.906	+/-1.14	1.93	+/-1.16	3.00	pCi/L			JE1	02/23/24	1249	2568518	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	1.48	+/-1.23	1.93	+/-1.26		pCi/L		1	NXL1	02/27/24	0938	2570132	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.579	+/-0.472	0.581	+/-0.488	1.00	pCi/L			MJ2	02/26/24	0954	2561841	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"	2568518	83	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

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

Certificate of Analysis

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

Atlanta, Georgia 30308 Report Date: February 27, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceUpgradient-R

Client Sample ID: BRA-BRGWA-6S
Sample ID: 653572004
Matrix: WG
Collect Date: 30-JAN-24
Receive Date: 31-JAN-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.933	+/-0.776	1.22	+/-0.811	3.00	pCi/L			JE1	02/23/24	1249	2568518	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		1.29	+/-0.947	1.22	+/-0.979		pCi/L		1	NXL1	02/27/24	0938	2570132	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.361	+/-0.544	0.966	+/-0.548	1.00	pCi/L			MJ2	02/26/24	0954	2561841	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"	2568518	83.8	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

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

Certificate of Analysis

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

Atlanta, Georgia 30308 Report Date: February 27, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceUpgradient-R

Client Sample ID: BRA-BRGWA-2I
Sample ID: 653572005
Matrix: WG
Collect Date: 30-JAN-24
Receive Date: 31-JAN-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.371	+/-0.647	1.15	+/-0.654	3.00	pCi/L			JE1	02/23/24	1249	2568518	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		1.25	+/-0.927	1.15	+/-0.955		pCi/L		1	NXL1	02/27/24	0938	2570132	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.878	+/-0.664	0.819	+/-0.695	1.00	pCi/L			MJ2	02/26/24	0954	2561841	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"	2568518	88.9	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

Radiochemistry
Technical Case Narrative
Georgia Power Company
SDG #: 653572

Product: **Radium-226+Radium-228 Calculation**
Analytical Method: Calculation
Analytical Procedure: GL-RAD-D-003 REV# 45
Analytical Batch: 2570132

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

GEL Sample ID#	Client Sample Identification
653572001	BRA-BRGWA-2S
653572002	BRA-BRGWA-5S
653572003	BRA-BRGWA-5I
653572004	BRA-BRGWA-6S
653572005	BRA-BRGWA-2I

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: 2568518

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

GEL Sample ID#	Client Sample Identification
653572001	BRA-BRGWA-2S
653572002	BRA-BRGWA-5S
653572003	BRA-BRGWA-5I
653572004	BRA-BRGWA-6S
653572005	BRA-BRGWA-2I
1205650244	Method Blank (MB)
1205650245	653572001(BRA-BRGWA-2S) Sample Duplicate (DUP)
1205650246	Laboratory Control Sample (LCS)

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

Data Summary:

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

Quality Control (QC) Information

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

Sample	Analyte	Value
1205650244 (MB)	Radium-228	Result: 2.37 pCi/L > MDA: 1.79 pCi/L <= RDL: 3.00 pCi/L

Product: **Lucas Cell, Ra226, Liquid**
Analytical Method: EPA 903.1 Modified
Analytical Procedure: GL-RAD-A-008 REV# 15
Analytical Batch: 2561841

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

GEL Sample ID#	Client Sample Identification
653572001	BRA-BRGWA-2S
653572002	BRA-BRGWA-5S
653572003	BRA-BRGWA-5I
653572004	BRA-BRGWA-6S
653572005	BRA-BRGWA-2I
1205637591	Method Blank (MB)
1205637592	653572001(BRA-BRGWA-2S) Sample Duplicate (DUP)
1205637593	653572001(BRA-BRGWA-2S) Matrix Spike (MS)
1205637594	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, 1205637593 (BRA-BRGWA-2SMS), aliquot was reduced to conserve sample volume.

Certification Statement

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

QC Summary

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

Atlanta, Georgia

Contact: **Joju Abraham**

Workorder: **653572**

Report Date: February 27, 2024

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gas Flow										
Batch 2568518										
QC1205650245 653572001 DUP										
Radium-228		2.10	U	1.41	pCi/L	39.2		(0% - 100%)	JE1	02/23/2412:50
	Uncert:	+/-1.28		+/-0.941						
	TPU:	+/-1.39		+/-1.01						
QC1205650246 LCS										
Radium-228	73.9			80.2	pCi/L		109	(75%-125%)	JE1	02/23/2412:50
	Uncert:			+/-4.25						
	TPU:			+/-21.0						
QC1205650244 MB										
Radium-228				2.37	pCi/L				JE1	02/23/2412:50
	Uncert:			+/-1.21						
	TPU:			+/-1.36						
Rad Ra-226										
Batch 2561841										
QC1205637592 653572001 DUP										
Radium-226	U	0.439	U	0.748	pCi/L	0		N/A	MJ2	02/26/2410:29
	Uncert:	+/-0.391		+/-0.667						
	TPU:	+/-0.398		+/-0.676						
QC1205637594 LCS										
Radium-226	26.4			24.7	pCi/L		93.4	(75%-125%)	MJ2	02/26/2410:29
	Uncert:			+/-3.03						
	TPU:			+/-5.48						
QC1205637591 MB										
Radium-226			U	0.197	pCi/L				MJ2	02/26/2410:29
	Uncert:			+/-0.337						
	TPU:			+/-0.340						
QC1205637593 653572001 MS										
Radium-226	135 U	0.439		114	pCi/L		84.3	(75%-125%)	MJ2	02/26/2410:29
	Uncert:	+/-0.391		+/-14.3						
	TPU:	+/-0.398		+/-31.1						

Notes:

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

The Qualifiers in this report are defined as follows:

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

QC Summary

Workorder: **653572**

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

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

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

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

653570 / 653572

Page: ____ of ____
Project #:
GEL Quote #:
COC Number (1):
PO Number: GPC82177-0006

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

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

Client Name: GA Power | Phone #: 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - Upgradient | Fax #:
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: BrisbinA ACC | Send Results To: SCS & Geosyntec Contacts

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

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Biohazard (Yes, please complete safety info.)	Should this sample be considered: Potentially Hazardous	Total number of containers	Cl-, SO4, TDS, NO3 (EPA 300.0, SM 2540C)	Total Coli. & Ecoli (SM 9223B)	Metals* (EPA 6020, 6010, 7470)	Radium 226 & 228 (combined) (EPA 9320)	Sulfide (SM 4500)						<- Preservative Type (6)
BRA-BRGWA-25	01/30/24	1045	G	N	WG			8	✓	✓	✓	✓	✓						
BRA-BRGWA-55	01/30/24	1072	G	N	WG			8	✓	✓	✓	✓	✓						
BRA-BRGWA-5I	01/30/24	1050	G	N	WG			8	✓	✓	✓	✓	✓						
BRA-BRGWA-6S	01/30/24	1021	G	N	WG			8	✓	✓	✓	✓	✓						
BRA-BRGWA-2I	01/30/24	1252	G	N	WG			8	✓	✓	✓	✓	✓						
BRA-																			
BRA-																			
BRA-																			
BRA-																			
BRA-																			

Comments
Note: extra sample is required for sample specific QC
Task_Code: BRA-CCR-ASSMT-2024S1

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received By (signed)	Date	Time
1	1/31/24	0328	1	1/31/24	0328
2	1/31/24	104	2	1/31/24	1306
3			3		

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

Fax Results: [ ] Yes [x] No

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

Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg

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

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

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

(1) Chain of Custody Number = Client Determined

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

(3) Field Filtered: For liquid matrices, indicate with a Y = Yes for yes the sample was field filtered or N = No sample was not field filtered.

(4) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix

(5) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 2, 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, (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
RS = 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, reflective, beryllium, perchlorate, 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.)

653570 653584
653572 653575
653582 653580

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	SDG/AR/COC/Work Order:
Received By: QG	Date Received: 1/31/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other
	n/a

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

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

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials JWJ Date 01/02/24 Page 1 of 1

List of current GEL Certifications as of 27 February 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122024-05
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	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-23-21
Utah NELAP	SC000122023-38
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC
2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

February 15, 2024

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

Re: Branch CCR Groundwater Compliance APE
Work Orders: 653855 and 653575

Dear Joju Abraham:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on January 31, 2024 and February 01, 2024. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

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

Laboratory ID	Client ID	Matrix	Date Collected	Date Recieved
653575001	BRA-BRGWC-17S	Ground Water	30/01/24 15:51	31/01/24 13:06
653575002	BRA-BRGWC-35S	Ground Water	30/01/24 12:00	31/01/24 13:06
653575003	BRA-PZ-13S	Ground Water	30/01/24 15:45	31/01/24 13:06
653575004	BRA-APE-FD-04	Ground Water	30/01/24 12:00	31/01/24 13:06
653575005	BRA-APE-FB-07	Ground Water	30/01/24 14:20	31/01/24 13:06
653855001	BRA-BRGWC-33S	Ground Water	31/01/24 12:15	01/02/24 13:00
653855002	BRA-BRGWC-34S	Ground Water	31/01/24 10:50	01/02/24 13:00
653855003	BRA-BRGWC-36S	Ground Water	31/01/24 09:55	01/02/24 13:00
653855004	BRA-BRGWC-37S	Ground Water	31/01/24 11:52	01/02/24 13:00
653855005	BRA-BRGWC-38S	Ground Water	31/01/24 13:45	01/02/24 13:00
653855006	BRA-APE-EB-09	Water	31/01/24 10:30	01/02/24 13:00
653855007	BRA-APE-FB-08	Water	31/01/24 15:00	01/02/24 13:00
653855008	BRA-PZ-52D	Ground Water	31/01/24 14:05	01/02/24 13:00
653855009	BRA-PZ-53D	Ground Water	31/01/24 15:55	01/02/24 13:00
653855010	BRA-PZ-70I	Ground Water	31/01/24 16:45	01/02/24 13:00
653855011	BRA-APE-FD-05	Ground Water	31/01/24 12:00	01/02/24 13:00

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

Prep Methods and Prep Dates

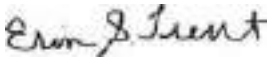
Method	Run Date ID
SW846 3005A	01-FEB-2024
SW846 3005A	02-FEB-2024
SW846 7470A Prep	01-FEB-2024
SW846 7470A Prep	02-FEB-2024

Analysis Methods and Analysis Dates

Method	Run Date ID
EPA 300.0	01-FEB-2024
EPA 300.0	02-FEB-2024
EPA 300.0	03-FEB-2024
EPA 300.0	05-FEB-2024
EPA 300.0	31-JAN-2024
SM 2320B	01-FEB-2024
SM 2320B	02-FEB-2024
SM 2540C	06-FEB-2024
SM 2540C	07-FEB-2024
SM 4500-S (2-) D	01-FEB-2024
SM 4500-S (2-) D	31-JAN-2024
SW846 3005A/6020B	10-FEB-2024
SW846 3005A/6020B	12-FEB-2024
SW846 3005A/6020B	13-FEB-2024
SW846 3005A/6020B	14-FEB-2024
SW846 3005A/6020B	15-FEB-2024
SW846 7470A	02-FEB-2024
SW846 7470A	05-FEB-2024

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4504.

Sincerely,



Erin Trent
Project Manager

Purchase Order: GPC82177-0006
Enclosures

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Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 653855 GEL Work Order: 653855

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

H Analytical holding time was exceeded

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 Erin B. Trent

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: 653575 GEL Work Order: 653575

The Qualifiers in this report are defined as follows:

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

** Analyte is a Tracer compound

** Analyte is a surrogate compound

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

J Value is estimated

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

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

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

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

Reviewed by Erin B. Trent

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

Certificate of Analysis

Report Date: February 15, 2024

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPE

Client Sample ID: BRA-BRGWC-33S
Sample ID: 653855001
Matrix: WG
Collect Date: 31-JAN-24 12:15
Receive Date: 01-FEB-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		65.3	6.70	20.0	mg/L		100	TXT1	02/05/24	1656	2562344	1
Sulfate		872	13.3	40.0	mg/L		100					
Fluoride		0.194	0.0330	0.100	mg/L		1	TXT1	02/01/24	1917	2562344	2
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/05/24	1220	2562605	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		1.28	0.0520	0.150	mg/L	1.00	10	BAJ	02/14/24	1213	2562401	4
Calcium		281	0.800	2.00	mg/L	1.00	10					
Sodium		67.7	0.800	2.50	mg/L	1.00	10					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	02/13/24	2219	2562401	5
Arsenic		0.00516	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0515	0.000670	0.00400	mg/L	1.00	1					
Beryllium		0.00269	0.000200	0.000500	mg/L	1.00	1					
Cadmium	J	0.000792	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.0988	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0373	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0117	0.00300	0.0100	mg/L	1.00	1					
Magnesium		45.2	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		19.4	0.0800	0.300	mg/L	1.00	1					
Selenium		0.0164	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Manganese		5.33	0.0100	0.0500	mg/L	1.00	10	PRB	02/15/24	1418	2562401	6
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1420	4.76	20.0	mg/L			ES2	02/07/24	0848	2564661	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	02/01/24	1655	2562451	8

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Certificate of Analysis

Report Date: February 15, 2024

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPE

Client Sample ID: BRA-BRGWC-33S
Sample ID: 653855001
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		2.20	0.725	2.00	mg/L			JW2	02/02/24	1055	2562772	9
Bicarbonate alkalinity (CaCO3)		2.20	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/02/24	1150	2562604
SW846 3005A	ICP-MS 3005A PREP	JD2	02/02/24	0845	2562399

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	
8	SM 4500-S (2-) D	
9	SM 2320B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: February 15, 2024

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPE

Client Sample ID: BRA-BRGWC-34S
Sample ID: 653855002
Matrix: WG
Collect Date: 31-JAN-24 10:50
Receive Date: 01-FEB-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		0.101	0.0330	0.100	mg/L		1	TXT1	02/01/24	1949	2562344	1
Nitrate-N	J	0.0409	0.0330	0.100	mg/L		1					
Chloride		15.7	1.68	5.00	mg/L		25	TXT1	02/03/24	0234	2562344	2
Sulfate		289	3.33	10.0	mg/L		25					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/05/24	1228	2562605	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		2.14	0.104	0.300	mg/L	1.00	20	BAJ	02/14/24	1219	2562401	4
Calcium		99.2	1.60	4.00	mg/L	1.00	20					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	02/13/24	2239	2562401	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0261	0.000670	0.00400	mg/L	1.00	1					
Beryllium	J	0.000202	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		0.00751	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		20.1	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		3.73	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		22.0	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Manganese		4.17	0.0200	0.100	mg/L	1.00	20	PRB	02/15/24	1428	2562401	6
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		494	2.38	10.0	mg/L			ES2	02/07/24	0848	2564661	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	02/01/24	1655	2562451	8

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Certificate of Analysis

Report Date: February 15, 2024

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPE

Client Sample ID: BRA-BRGWC-34S
Sample ID: 653855002
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		33.5	0.725	2.00	mg/L			JW2	02/02/24	1057	2562772	9
Bicarbonate alkalinity (CaCO3)		33.5	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	JD2	02/02/24	0845	2562399
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/02/24	1150	2562604

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	
8	SM 4500-S (2-) D	
9	SM 2320B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: February 15, 2024

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPE

Client Sample ID: BRA-BRGWC-36S
Sample ID: 653855003
Matrix: WG
Collect Date: 31-JAN-24 09:55
Receive Date: 01-FEB-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		222	2.66	8.00	mg/L		20	TXT1	02/03/24	0306	2562344	1
Chloride		8.32	0.0670	0.200	mg/L		1	TXT1	02/01/24	2020	2562344	2
Fluoride		0.144	0.0330	0.100	mg/L		1					
Nitrate-N		0.159	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/05/24	1233	2562605	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		1.12	0.0520	0.150	mg/L	1.00	10	BAJ	02/14/24	1220	2562401	4
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1	PRB	02/15/24	1256	2562401	5
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	02/13/24	2242	2562401	6
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0273	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		44.4	0.0800	0.200	mg/L	1.00	1					
Chromium	J	0.00648	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		18.8	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		3.62	0.0800	0.300	mg/L	1.00	1					
Selenium	J	0.00174	0.00150	0.00500	mg/L	1.00	1					
Sodium		38.5	0.0800	0.250	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		435	2.38	10.0	mg/L			ES2	02/07/24	0848	2564661	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	02/01/24	1655	2562451	8

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Certificate of Analysis

Report Date: February 15, 2024

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPE

Client Sample ID: BRA-BRGWC-36S
Sample ID: 653855003
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		21.3	0.725	2.00	mg/L			JW2	02/02/24	1059	2562772	9
Bicarbonate alkalinity (CaCO3)		21.3	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	JD2	02/02/24	0845	2562399
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/02/24	1150	2562604

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	
8	SM 4500-S (2-) D	
9	SM 2320B	

Notes:

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: February 15, 2024

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPE

Client Sample ID: BRA-BRGWC-37S
Sample ID: 653855004
Matrix: WG
Collect Date: 31-JAN-24 11:52
Receive Date: 01-FEB-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		2.00	0.0670	0.200	mg/L		1	TXT1	02/01/24	2052	2562344	1
Fluoride		0.109	0.0330	0.100	mg/L		1					
Nitrate-N		0.293	0.0330	0.100	mg/L		1					
Sulfate	J	0.258	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	02/05/24	1234	2562605	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1	PRB	02/15/24	1258	2562401	3
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1	BAJ	02/14/24	1150	2562401	4
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	02/13/24	2244	2562401	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0256	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		3.54	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		1.22	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		1.86	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		4.35	0.0800	0.250	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		37.0	2.38	10.0	mg/L			ES2	02/07/24	0848	2564661	6
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	02/01/24	1655	2562451	7

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

Certificate of Analysis

Report Date: February 15, 2024

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPE

Client Sample ID: BRA-BRGWC-37S
Sample ID: 653855004
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		22.5	0.725	2.00	mg/L			JW2	02/02/24	1100	2562772	8
Bicarbonate alkalinity (CaCO3)		22.5	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/02/24	1150	2562604
SW846 3005A	ICP-MS 3005A PREP	JD2	02/02/24	0845	2562399

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	
7	SM 4500-S (2-) D	
8	SM 2320B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: February 15, 2024

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPE

Client Sample ID:	BRA-BRGWC-38S	Project:	GPCC00101
Sample ID:	653855005	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	31-JAN-24 13:45		
Receive Date:	01-FEB-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		7.00	0.0670	0.200	mg/L		1	TXT1	02/01/24	2124	2562344	1
Fluoride		0.493	0.0330	0.100	mg/L		1					
Nitrate-N		0.119	0.0330	0.100	mg/L		1					
Sulfate		233	2.66	8.00	mg/L		20	TXT1	02/03/24	0338	2562344	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	J	0.0000850	0.0000670	0.000200	mg/L	1.00	1	JP2	02/05/24	1236	2562605	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		1.26	0.0520	0.150	mg/L	1.00	10	BAJ	02/14/24	1221	2562401	4
Manganese		1.40	0.0100	0.0500	mg/L	1.00	10	PRB	02/15/24	1300	2562401	5
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	02/13/24	2247	2562401	6
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0160	0.000670	0.00400	mg/L	1.00	1					
Beryllium		0.00591	0.000200	0.000500	mg/L	1.00	1					
Cadmium	J	0.000342	0.000300	0.00100	mg/L	1.00	1					
Calcium		23.7	0.0800	0.200	mg/L	1.00	1					
Chromium	J	0.00305	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.134	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0201	0.00300	0.0100	mg/L	1.00	1					
Magnesium		29.2	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		5.15	0.0800	0.300	mg/L	1.00	1					
Selenium		0.0187	0.00150	0.00500	mg/L	1.00	1					
Sodium		31.3	0.0800	0.250	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		393	2.38	10.0	mg/L			ES2	02/07/24	0848	2564661	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	02/01/24	1655	2562451	8

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Certificate of Analysis

Report Date: February 15, 2024

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPE

Client Sample ID: BRA-BRGWC-38S
Sample ID: 653855005
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	02/02/24	1102	2562772	9
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	JD2	02/02/24	0845	2562399
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/02/24	1150	2562604

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	
8	SM 4500-S (2-) D	
9	SM 2320B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: February 15, 2024

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPE

Client Sample ID: BRA-APE-EB-09
Sample ID: 653855006
Matrix: WQ
Collect Date: 31-JAN-24 10:30
Receive Date: 01-FEB-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	J	0.152	0.0670	0.200	mg/L		1	TXT1	02/01/24	2156	2562344	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Nitrate-N	J	0.0509	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	02/05/24	1238	2562605	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1	BAJ	02/14/24	1151	2562401	3
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1	PRB	02/15/24	1301	2562401	4
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	02/13/24	2250	2562401	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium	U	ND	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium	U	ND	0.0800	0.250	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			ES2	02/07/24	0848	2564661	6
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	02/01/24	1655	2562451	7

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Certificate of Analysis

Report Date: February 15, 2024

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPE

Client Sample ID: BRA-APE-EB-09 Project: GPCC00101
Sample ID: 653855006 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	02/02/24	1104	2562772	8
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	JD2	02/02/24	0845	2562399
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/02/24	1150	2562604

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	
7	SM 4500-S (2-) D	
8	SM 2320B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: February 15, 2024

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPE

Client Sample ID: BRA-APE-FB-08
Sample ID: 653855007
Matrix: WQ
Collect Date: 31-JAN-24 15:00
Receive Date: 01-FEB-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	J	0.116	0.0670	0.200	mg/L		1	TXT1	02/01/24	2331	2562344	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Nitrate-N	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	02/05/24	1239	2562605	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	02/13/24	2253	2562401	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium	U	ND	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium	U	ND	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1	BAJ	02/14/24	1153	2562401	4
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1	PRB	02/15/24	1303	2562401	5
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			ES2	02/07/24	0848	2564661	6
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	02/01/24	1655	2562451	7

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Certificate of Analysis

Report Date: February 15, 2024

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPE

Client Sample ID: BRA-APE-FB-08 Project: GPCC00101
Sample ID: 653855007 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	02/02/24	1106	2562772	8
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/02/24	1150	2562604
SW846 3005A	ICP-MS 3005A PREP	JD2	02/02/24	0845	2562399

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	
7	SM 4500-S (2-) D	
8	SM 2320B	

Notes:

Column headers are defined as follows:

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

GEL LABORATORIES LLC
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Certificate of Analysis

Report Date: February 15, 2024

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPE

Client Sample ID: BRA-PZ-52D
Sample ID: 653855008
Matrix: WG
Collect Date: 31-JAN-24 14:05
Receive Date: 01-FEB-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		5.59	0.0670	0.200	mg/L		1	TXT1	02/02/24	0003	2562344	1
Fluoride		1.90	0.0330	0.100	mg/L		1					
Nitrate-N		0.151	0.0330	0.100	mg/L		1					
Sulfate		94.4	1.33	4.00	mg/L		10	TXT1	02/03/24	0410	2562344	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/05/24	1241	2562605	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Sodium		58.6	0.800	2.50	mg/L	1.00	10	BAJ	02/14/24	1225	2562401	4
Boron		0.0633	0.00520	0.0150	mg/L	1.00	1	BAJ	02/14/24	1154	2562401	5
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	02/13/24	2302	2562401	6
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0184	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		45.6	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00104	0.000300	0.00100	mg/L	1.00	1					
Iron		0.192	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0184	0.00300	0.0100	mg/L	1.00	1					
Magnesium		11.3	0.0100	0.0300	mg/L	1.00	1					
Molybdenum		0.0137	0.000200	0.00100	mg/L	1.00	1					
Potassium		5.60	0.0800	0.300	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					
Manganese		0.00989	0.00100	0.00500	mg/L	1.00	1	PRB	02/15/24	1305	2562401	7
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		342	2.38	10.0	mg/L			ES2	02/07/24	0848	2564661	8
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	02/01/24	1655	2562451	9

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Certificate of Analysis

Report Date: February 15, 2024

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPE

Client Sample ID: BRA-PZ-52D
Sample ID: 653855008
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		178	0.725	2.00	mg/L			JW2	02/02/24	1107	2562772	10
Bicarbonate alkalinity (CaCO3)		178	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/02/24	1150	2562604
SW846 3005A	ICP-MS 3005A PREP	JD2	02/02/24	0845	2562399

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 4500-S (2-) D	
10	SM 2320B	

Notes:

Column headers are defined as follows:

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

GEL LABORATORIES LLC
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Certificate of Analysis

Report Date: February 15, 2024

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPE

Client Sample ID: BRA-PZ-53D
Sample ID: 653855009
Matrix: WG
Collect Date: 31-JAN-24 15:55
Receive Date: 01-FEB-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		302	3.33	10.0	mg/L		25	TXT1	02/03/24	0442	2562344	1
Chloride		4.58	0.0670	0.200	mg/L		1	TXT1	02/02/24	0035	2562344	2
Fluoride		0.153	0.0330	0.100	mg/L		1					
Nitrate-N	J	0.0429	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/05/24	1243	2562605	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	02/13/24	2305	2562401	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0517	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron		0.213	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0182	0.00300	0.0100	mg/L	1.00	1					
Magnesium		19.4	0.0100	0.0300	mg/L	1.00	1					
Molybdenum		0.00209	0.000200	0.00100	mg/L	1.00	1					
Potassium		6.03	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		43.3	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		1.03	0.0520	0.150	mg/L	1.00	10	BAJ	02/14/24	1227	2562401	5
Calcium		81.7	0.800	2.00	mg/L	1.00	10					
Manganese		0.520	0.00100	0.00500	mg/L	1.00	1	PRB	02/15/24	1307	2562401	6
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		547	2.38	10.0	mg/L			ES2	02/07/24	0848	2564661	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	02/01/24	1655	2562451	8

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Certificate of Analysis

Report Date: February 15, 2024

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPE

Client Sample ID: BRA-PZ-53D
Sample ID: 653855009
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		52.5	0.725	2.00	mg/L			JW2	02/02/24	1109	2562772	9
Bicarbonate alkalinity (CaCO3)		52.5	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/02/24	1150	2562604
SW846 3005A	ICP-MS 3005A PREP	JD2	02/02/24	0845	2562399

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	
8	SM 4500-S (2-) D	
9	SM 2320B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: February 15, 2024

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPE

Client Sample ID: BRA-PZ-70I
Sample ID: 653855010
Matrix: WG
Collect Date: 31-JAN-24 16:45
Receive Date: 01-FEB-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		5.74	0.0670	0.200	mg/L		1	TXT1	02/02/24	0107	2562344	1
Fluoride		0.108	0.0330	0.100	mg/L		1					
Nitrate-N		0.152	0.0330	0.100	mg/L		1					
Sulfate		133	1.33	4.00	mg/L		10	TXT1	02/03/24	0514	2562344	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury		0.00149	0.0000670	0.000200	mg/L	1.00	1	JP2	02/05/24	1244	2562605	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Manganese		0.267	0.00100	0.00500	mg/L	1.00	1	PRB	02/15/24	1309	2562401	4
Boron		1.06	0.0520	0.150	mg/L	1.00	10	BAJ	02/14/24	1228	2562401	5
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	02/13/24	2307	2562401	6
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0207	0.000670	0.00400	mg/L	1.00	1					
Beryllium	J	0.000340	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		31.6	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000866	0.000300	0.00100	mg/L	1.00	1					
Iron		0.123	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00385	0.00300	0.0100	mg/L	1.00	1					
Magnesium		11.3	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		3.97	0.0800	0.300	mg/L	1.00	1					
Selenium		0.00789	0.00150	0.00500	mg/L	1.00	1					
Sodium		19.8	0.0800	0.250	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		252	2.38	10.0	mg/L			ES2	02/07/24	0848	2564661	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	02/01/24	1655	2562451	8

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Certificate of Analysis

Report Date: February 15, 2024

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPE

Client Sample ID: BRA-PZ-70I
Sample ID: 653855010
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		15.9	0.725	2.00	mg/L			JW2	02/02/24	1111	2562772	9
Bicarbonate alkalinity (CaCO3)		15.9	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/02/24	1150	2562604
SW846 3005A	ICP-MS 3005A PREP	JD2	02/02/24	0845	2562399

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	
8	SM 4500-S (2-) D	
9	SM 2320B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: February 15, 2024

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPE

Client Sample ID: BRA-APE-FD-05
Sample ID: 653855011
Matrix: WG
Collect Date: 31-JAN-24 12:00
Receive Date: 01-FEB-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		0.199	0.0330	0.100	mg/L		1	TXT1	02/02/24	0139	2562344	1
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Chloride		65.5	6.70	20.0	mg/L		100	TXT1	02/03/24	0649	2562344	2
Sulfate		870	13.3	40.0	mg/L		100					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/05/24	1246	2562605	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		1.23	0.0520	0.150	mg/L	1.00	10	BAJ	02/14/24	1229	2562401	4
Calcium		288	0.800	2.00	mg/L	1.00	10					
Sodium		66.4	0.800	2.50	mg/L	1.00	10					
Manganese		5.11	0.0100	0.0500	mg/L	1.00	10	PRB	02/15/24	1311	2562401	5
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	02/13/24	2310	2562401	6
Arsenic	J	0.00450	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0519	0.000670	0.00400	mg/L	1.00	1					
Beryllium		0.00267	0.000200	0.000500	mg/L	1.00	1					
Cadmium	J	0.000739	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.0975	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0396	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0117	0.00300	0.0100	mg/L	1.00	1					
Magnesium		45.5	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		19.7	0.0800	0.300	mg/L	1.00	1					
Selenium		0.0166	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		1430	4.76	20.0	mg/L			ES2	02/07/24	0848	2564661	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	02/01/24	1655	2562451	8

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Certificate of Analysis

Report Date: February 15, 2024

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPE

Client Sample ID: BRA-APE-FD-05 Project: GPCC00101
Sample ID: 653855011 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	J	1.30	0.725	2.00	mg/L			JW2	02/02/24	1113	2562772	9
Bicarbonate alkalinity (CaCO3)	J	1.30	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	JD2	02/02/24	0845	2562399
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/02/24	1150	2562604

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	
8	SM 4500-S (2-) D	
9	SM 2320B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: February 15, 2024

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPE

Client Sample ID: BRA-APE-EB-10
Sample ID: 653855012
Matrix: WQ
Collect Date: 31-JAN-24 15:55
Receive Date: 01-FEB-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	J	0.111	0.0670	0.200	mg/L		1	TXT1	02/02/24	0211	2562344	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Nitrate-N	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	02/05/24	1248	2562605	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1	PRB	02/15/24	1313	2562401	3
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	02/13/24	2313	2562401	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium	J	0.0190	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1	BAJ	02/14/24	1155	2562401	5
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Sodium	U	ND	0.0800	0.250	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			ES2	02/07/24	0848	2564661	6
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	02/01/24	1655	2562451	7

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Certificate of Analysis

Report Date: February 15, 2024

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPE

Client Sample ID: BRA-APE-EB-10 Project: GPCC00101
Sample ID: 653855012 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	02/02/24	1114	2562772	8
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	JD2	02/02/24	0845	2562399
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/02/24	1150	2562604

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	
7	SM 4500-S (2-) D	
8	SM 2320B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: February 14, 2024

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

Client Sample ID:	BRA-BRGWC-17S	Project:	GPCC00101
Sample ID:	653575001	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	30-JAN-24 15:51		
Receive Date:	31-JAN-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		5.69	0.0670	0.200	mg/L		1	CH6	01/31/24	2013	2561599	1
Fluoride		0.340	0.0330	0.100	mg/L		1					
Nitrate-N		0.119	0.0330	0.100	mg/L		1					
Sulfate		189	2.66	8.00	mg/L		20	CH6	02/01/24	1351	2561599	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/02/24	1301	2561614	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1	PRB	02/13/24	1009	2561630	4
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/10/24	0107	2561630	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0522	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		0.0110	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		1.26	0.0800	0.300	mg/L	1.00	1					
Selenium	J	0.00271	0.00150	0.00500	mg/L	1.00	1					
Sodium		26.7	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Calcium		53.3	0.800	2.00	mg/L	1.00	10	PRB	02/12/24	1342	2561630	6
Boron		0.0758	0.00520	0.0150	mg/L	1.00	1	PRB	02/12/24	1323	2561630	7
Magnesium		32.3	0.0100	0.0300	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		413	2.38	10.0	mg/L			ES2	02/06/24	0807	2563910	8
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	01/31/24	1638	2561631	9

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Certificate of Analysis

Report Date: February 14, 2024

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPE

Client Sample ID: BRA-BRGWC-17S
Sample ID: 653575001
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		74.4	0.725	2.00	mg/L			JW2	02/01/24	1105	2561936	10
Bicarbonate alkalinity (CaCO3)		74.4	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	JD2	02/01/24	0815	2561629
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/01/24	1135	2561613

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 4500-S (2-) D	
10	SM 2320B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: February 14, 2024

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

Client Sample ID:	BRA-BRGWC-35S	Project:	GPCC00101
Sample ID:	653575002	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	30-JAN-24 12:00		
Receive Date:	31-JAN-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		6.51	0.0670	0.200	mg/L		1	CH6	01/31/24	2146	2561599	1
Fluoride		0.263	0.0330	0.100	mg/L		1					
Nitrate-N		0.183	0.0330	0.100	mg/L		1					
Sulfate		278	2.66	8.00	mg/L		20	CH6	02/01/24	1422	2561599	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/02/24	1303	2561614	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Manganese		0.0108	0.00100	0.00500	mg/L	1.00	1	PRB	02/13/24	1010	2561630	4
Boron		2.39	0.104	0.300	mg/L	1.00	20	PRB	02/12/24	1343	2561630	5
Calcium		68.9	1.60	4.00	mg/L	1.00	20					
Magnesium		36.6	0.0100	0.0300	mg/L	1.00	1	PRB	02/12/24	1401	2561630	6
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/10/24	0110	2561630	7
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0299	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	J	0.00590	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		4.11	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		19.3	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		502	2.38	10.0	mg/L			ES2	02/06/24	0807	2563910	8
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	01/31/24	1638	2561631	9

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Certificate of Analysis

Report Date: February 14, 2024

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPE

Client Sample ID: BRA-BRGWC-35S
Sample ID: 653575002
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		54.1	0.725	2.00	mg/L			JW2	02/01/24	1107	2561936	10
Bicarbonate alkalinity (CaCO3)		54.1	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/01/24	1135	2561613
SW846 3005A	ICP-MS 3005A PREP	JD2	02/01/24	0815	2561629

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 4500-S (2-) D	
10	SM 2320B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: February 14, 2024

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPE

Client Sample ID: BRA-PZ-13S
Sample ID: 653575003
Matrix: WG
Collect Date: 30-JAN-24 15:45
Receive Date: 31-JAN-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		76.9	0.665	2.00	mg/L		5	CH6	02/01/24	1453	2561599	1
Chloride		3.19	0.0670	0.200	mg/L		1	CH6	01/31/24	2217	2561599	2
Fluoride		0.222	0.0330	0.100	mg/L		1					
Nitrate-N	J	0.0732	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/02/24	1305	2561614	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/10/24	0113	2561630	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0499	0.000670	0.00400	mg/L	1.00	1					
Beryllium	J	0.000388	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium		0.0134	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		4.28	0.0800	0.300	mg/L	1.00	1					
Selenium	J	0.00203	0.00150	0.00500	mg/L	1.00	1					
Sodium		11.9	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron	J	0.00656	0.00520	0.0150	mg/L	1.00	1	PRB	02/12/24	1324	2561630	5
Calcium		15.9	0.0800	0.200	mg/L	1.00	1					
Magnesium		10.1	0.0100	0.0300	mg/L	1.00	1					
Manganese	J	0.00176	0.00100	0.00500	mg/L	1.00	1	PRB	02/13/24	1012	2561630	6
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		161	2.38	10.0	mg/L			ES2	02/06/24	0807	2563910	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	01/31/24	1638	2561631	8

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Certificate of Analysis

Report Date: February 14, 2024

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPE

Client Sample ID: BRA-PZ-13S
Sample ID: 653575003
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		20.4	0.725	2.00	mg/L			JW2	02/01/24	1108	2561936	9
Bicarbonate alkalinity (CaCO3)		20.4	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/01/24	1135	2561613
SW846 3005A	ICP-MS 3005A PREP	JD2	02/01/24	0815	2561629

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	
8	SM 4500-S (2-) D	
9	SM 2320B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: February 14, 2024

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPE

Client Sample ID: BRA-APE-FD-04
Sample ID: 653575004
Matrix: WG
Collect Date: 30-JAN-24 12:00
Receive Date: 31-JAN-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		277	2.66	8.00	mg/L		20	CH6	02/01/24	1524	2561599	1
Chloride		6.56	0.0670	0.200	mg/L		1	CH6	01/31/24	2248	2561599	2
Fluoride		0.261	0.0330	0.100	mg/L		1					
Nitrate-N		0.115	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/02/24	1306	2561614	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Manganese		0.00973	0.00100	0.00500	mg/L	1.00	1	PRB	02/13/24	1014	2561630	4
Boron		2.54	0.104	0.300	mg/L	1.00	20	PRB	02/12/24	1344	2561630	5
Calcium		72.3	1.60	4.00	mg/L	1.00	20					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/10/24	0116	2561630	6
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0310	0.000670	0.00400	mg/L	1.00	1					
Beryllium	J	0.000204	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	J	0.00587	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		4.34	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		20.5	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Magnesium		39.2	0.0100	0.0300	mg/L	1.00	1	PRB	02/12/24	1402	2561630	7
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		505	2.38	10.0	mg/L			ES2	02/06/24	0807	2563910	8
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	01/31/24	1638	2561631	9

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Certificate of Analysis

Report Date: February 14, 2024

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPE

Client Sample ID: BRA-APE-FD-04 Project: GPCC00101
Sample ID: 653575004 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		53.4	0.725	2.00	mg/L			JW2	02/01/24	1110	2561936	10
Bicarbonate alkalinity (CaCO3)		53.4	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/01/24	1135	2561613
SW846 3005A	ICP-MS 3005A PREP	JD2	02/01/24	0815	2561629

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 4500-S (2-) D	
10	SM 2320B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: February 14, 2024

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

Client Sample ID:	BRA-APE-FB-07	Project:	GPCC00101
Sample ID:	653575005	Client ID:	GPCC001
Matrix:	WQ		
Collect Date:	30-JAN-24 14:20		
Receive Date:	31-JAN-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	CH6	01/31/24	2318	2561599	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Nitrate-N	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	02/02/24	1308	2561614	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1	PRB	02/13/24	1016	2561630	3
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1	PRB	02/12/24	1309	2561630	4
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Magnesium	U	ND	0.0100	0.0300	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/10/24	0124	2561630	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium	U	ND	0.0800	0.250	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			ES2	02/06/24	0807	2563910	6
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	01/31/24	1638	2561631	7

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Certificate of Analysis

Report Date: February 14, 2024

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPE

Client Sample ID: BRA-APE-FB-07 Project: GPCC00101
Sample ID: 653575005 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	02/01/24	1112	2561936	8
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	JD2	02/01/24	0815	2561629
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/01/24	1135	2561613

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	
7	SM 4500-S (2-) D	
8	SM 2320B	

Notes:

Column headers are defined as follows:

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

QC Summary

Report Date: February 15, 2024

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

Contact: **Joju Abraham**

Workorder: **653855**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch 2562344											
QC1205638343 653853001 DUP											
Chloride		7.94		7.97	mg/L	0.41		(0%-20%)	TXT1	02/02/24	02:43
Fluoride	J	0.0968	J	0.0966	mg/L	0.207 ^		(+/-0.100)			
Nitrate-N		0.725		0.731	mg/L	0.865		(0%-20%)			
Sulfate		328		329	mg/L	0.342		(0%-20%)		02/02/24	07:29
QC1205638345 653855010 DUP											
Chloride		5.74		5.73	mg/L	0.171		(0%-20%)		02/02/24	03:46
Fluoride		0.108		0.113	mg/L	5.34 ^		(+/-0.100)			
Nitrate-N		0.152		0.155	mg/L	1.89 ^		(+/-0.100)			
Sulfate		133		133	mg/L	0.0256		(0%-20%)		02/03/24	05:46
QC1205638342 LCS											
Chloride	5.00			4.92	mg/L		98.4	(90%-110%)		02/02/24	06:26
Fluoride	2.50			2.43	mg/L		97.2	(90%-110%)			
Nitrate-N	2.50			2.47	mg/L		98.8	(90%-110%)			
Sulfate	10.0			9.72	mg/L		97.2	(90%-110%)			
QC1205638341 MB											
Chloride			J	0.114	mg/L					02/02/24	05:54

QC Summary

Workorder: 653855

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography											
Batch 2562344											
Fluoride				U	ND	mg/L				TXT1	02/02/24 05:54
Nitrate-N				U	ND	mg/L					
Sulfate				U	ND	mg/L					
QC1205638344 653853001 PS											
Chloride	5.00		7.94		13.7	mg/L		116*	(90%-110%)		02/02/24 03:15
Fluoride	2.50	J	0.0968		2.56	mg/L		98.6	(90%-110%)		
Nitrate-N	2.50		0.725		3.25	mg/L		101	(90%-110%)		
Sulfate	10.0		6.57		16.8	mg/L		102	(90%-110%)		02/02/24 08:59
QC1205638346 653855010 PS											
Chloride	5.00		5.74		11.4	mg/L		113*	(90%-110%)		02/02/24 04:18
Fluoride	2.50		0.108		2.52	mg/L		96.5	(90%-110%)		
Nitrate-N	2.50		0.152		2.62	mg/L		98.9	(90%-110%)		
Sulfate	10.0		13.3		24.4	mg/L		111*	(90%-110%)		02/03/24 06:17
Metals Analysis - ICPMS											
Batch 2562401											
QC1205638460 LCS											
Antimony	0.0500				0.0500	mg/L		99.9	(80%-120%)	BAJ	02/13/24 22:16
Arsenic	0.0500				0.0498	mg/L		99.7	(80%-120%)		
Barium	0.0500				0.0506	mg/L		101	(80%-120%)		

QC Summary

Workorder: **653855**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2562401										
Beryllium	0.0500			0.0564	mg/L		113	(80%-120%)	BAJ	02/13/24 22:16
Boron	0.100			0.115	mg/L		115	(80%-120%)		02/14/24 11:49
Cadmium	0.0500			0.0504	mg/L		101	(80%-120%)		02/13/24 22:16
Calcium	2.00			2.08	mg/L		104	(80%-120%)		
Chromium	0.0500			0.0509	mg/L		102	(80%-120%)		
Cobalt	0.0500			0.0515	mg/L		103	(80%-120%)		
Iron	2.00			2.04	mg/L		102	(80%-120%)		
Lead	0.0500			0.0506	mg/L		101	(80%-120%)		
Lithium	0.0500			0.0534	mg/L		107	(80%-120%)		
Magnesium	2.00			2.06	mg/L		103	(80%-120%)		
Manganese	0.0500			0.0498	mg/L		99.6	(80%-120%)	PRB	02/15/24 14:16
Molybdenum	0.0500			0.0519	mg/L		104	(80%-120%)	BAJ	02/13/24 22:16
Potassium	2.00			2.00	mg/L		99.9	(80%-120%)		
Selenium	0.0500			0.0499	mg/L		99.9	(80%-120%)		
Sodium	2.00			2.06	mg/L		103	(80%-120%)		

QC Summary

Workorder: **653855**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2562401										
Thallium	0.0500			0.0490	mg/L		98.1	(80%-120%)	BAJ	02/13/24 22:16
QC1205638459 MB										
Antimony			U	ND	mg/L					02/13/24 22:13
Arsenic			U	ND	mg/L					
Barium			U	ND	mg/L					
Beryllium			U	ND	mg/L					
Boron			U	ND	mg/L					02/14/24 11:47
Cadmium			U	ND	mg/L					02/13/24 22:13
Calcium			U	ND	mg/L					
Chromium			U	ND	mg/L					
Cobalt			U	ND	mg/L					
Iron			U	ND	mg/L					
Lead			U	ND	mg/L					
Lithium			U	ND	mg/L					
Magnesium			U	ND	mg/L					
Manganese			U	ND	mg/L				PRB	02/15/24 14:15

QC Summary

Workorder: **653855**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2562401											
Molybdenum				U	ND	mg/L				BAJ	02/13/24 22:13
Potassium				U	ND	mg/L					
Selenium				U	ND	mg/L					
Sodium				U	ND	mg/L					
Thallium				U	ND	mg/L					
QC1205638461 653855001 MS											
Antimony	0.0500	U	ND		0.0503	mg/L		101	(75%-125%)		02/13/24 22:22
Arsenic	0.0500		0.00516		0.0593	mg/L		108	(75%-125%)		
Barium	0.0500		0.0515		0.0958	mg/L		88.7	(75%-125%)		
Beryllium	0.0500		0.00269		0.0567	mg/L		108	(75%-125%)		
Boron	0.100		1.28		1.33	mg/L		N/A	(75%-125%)		02/14/24 12:14
Cadmium	0.0500	J	0.000792		0.0497	mg/L		97.9	(75%-125%)		02/13/24 22:22
Calcium	2.00		281		282	mg/L		N/A	(75%-125%)		02/14/24 12:14
Chromium	0.0500	U	ND		0.0502	mg/L		99.8	(75%-125%)		02/13/24 22:22
Cobalt	0.0500		0.0988		0.146	mg/L		94	(75%-125%)		
Iron	2.00	J	0.0373		2.00	mg/L		98.1	(75%-125%)		

QC Summary

Workorder: **653855**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS												
Batch 2562401												
Lead	0.0500	U	ND		0.0422	mg/L		84.1	(75%-125%)	BAJ	02/13/24	22:22
Lithium	0.0500		0.0117		0.0666	mg/L		110	(75%-125%)			
Magnesium	2.00		45.2		47.0	mg/L		N/A	(75%-125%)			
Manganese	0.0500		5.33		5.09	mg/L		N/A	(75%-125%)	PRB	02/15/24	14:20
Molybdenum	0.0500	U	ND		0.0562	mg/L		112	(75%-125%)	BAJ	02/13/24	22:22
Potassium	2.00		19.4		21.8	mg/L		N/A	(75%-125%)			
Selenium	0.0500		0.0164		0.0718	mg/L		111	(75%-125%)			
Sodium	2.00		67.7		67.0	mg/L		N/A	(75%-125%)		02/14/24	12:14
Thallium	0.0500	U	ND		0.0416	mg/L		82.6	(75%-125%)		02/13/24	22:22
QC1205638462 653855001 MSD												
Antimony	0.0500	U	ND		0.0512	mg/L	1.85	102	(0%-20%)		02/13/24	22:24
Arsenic	0.0500		0.00516		0.0595	mg/L	0.363	109	(0%-20%)			
Barium	0.0500		0.0515		0.0968	mg/L	1.04	90.7	(0%-20%)			
Beryllium	0.0500		0.00269		0.0565	mg/L	0.475	108	(0%-20%)			
Boron	0.100		1.28		1.32	mg/L	1.34	N/A	(0%-20%)		02/14/24	12:16
Cadmium	0.0500	J	0.000792		0.0497	mg/L	0.133	97.7	(0%-20%)		02/13/24	22:24

QC Summary

Workorder: **653855**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2562401											
Calcium	2.00		281		287	mg/L	1.71	N/A	(0%-20%)	BAJ	02/14/24 12:16
Chromium	0.0500	U	ND		0.0500	mg/L	0.459	99.3	(0%-20%)		02/13/24 22:24
Cobalt	0.0500		0.0988		0.149	mg/L	1.97	99.8	(0%-20%)		
Iron	2.00	J	0.0373		2.00	mg/L	0.123	97.9	(0%-20%)		
Lead	0.0500	U	ND		0.0423	mg/L	0.151	84.2	(0%-20%)		
Lithium	0.0500		0.0117		0.0644	mg/L	3.35	106	(0%-20%)		
Magnesium	2.00		45.2		47.5	mg/L	0.971	N/A	(0%-20%)		
Manganese	0.0500		5.33		5.24	mg/L	2.85	N/A	(0%-20%)	PRB	02/15/24 14:22
Molybdenum	0.0500	U	ND		0.0567	mg/L	0.922	113	(0%-20%)	BAJ	02/13/24 22:24
Potassium	2.00		19.4		22.0	mg/L	1.35	N/A	(0%-20%)		
Selenium	0.0500		0.0164		0.0718	mg/L	0.0125	111	(0%-20%)		
Sodium	2.00		67.7		66.9	mg/L	0.242	N/A	(0%-20%)		02/14/24 12:16
Thallium	0.0500	U	ND		0.0421	mg/L	1.06	83.5	(0%-20%)		02/13/24 22:24
QC1205638463 653855001 SDILT											
Antimony		U	ND	U	ND	ug/L	N/A		(0%-20%)		02/13/24 22:30
Arsenic			5.16	U	ND	ug/L	N/A		(0%-20%)		

QC Summary

Workorder: **653855**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2562401										
Barium		51.5		11.9	ug/L	15.7		(0%-20%)	BAJ	02/13/24 22:30
Beryllium		2.69		0.564	ug/L	4.72		(0%-20%)		
Boron		128		26.5	ug/L	3.3		(0%-20%)		02/14/24 12:17
Cadmium	J	0.792	U	ND	ug/L	N/A		(0%-20%)		02/13/24 22:30
Calcium		28100		5830	ug/L	3.76		(0%-20%)		02/14/24 12:17
Chromium	U	ND	U	ND	ug/L	N/A		(0%-20%)		02/13/24 22:30
Cobalt		98.8		20.4	ug/L	3.31		(0%-20%)		
Iron	J	37.3	U	ND	ug/L	N/A		(0%-20%)		
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Lithium		11.7	U	ND	ug/L	N/A		(0%-20%)		
Magnesium		45200		9390	ug/L	3.92		(0%-20%)		
Manganese		533		110	ug/L	3		(0%-20%)	PRB	02/15/24 14:26
Molybdenum	U	ND	U	ND	ug/L	N/A		(0%-20%)	BAJ	02/13/24 22:30
Potassium		19400		3810	ug/L	1.91		(0%-20%)		
Selenium		16.4	J	3.45	ug/L	5.08		(0%-20%)		

QC Summary

Workorder: **653855**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2562401										
Sodium		6770		1330	ug/L	1.7		(0%-20%)	BAJ	02/14/24 12:17
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)		02/13/24 22:30
Metals Analysis-Mercury										
Batch 2562605										
QC1205638921 653855001 DUP										
Mercury	U	ND	U	ND	mg/L	N/A			JP2	02/05/24 12:21
QC1205638920 LCS										
Mercury	0.00200			0.00213	mg/L		106	(80%-120%)		02/05/24 12:18
QC1205638919 MB										
Mercury			U	ND	mg/L					02/05/24 12:17
QC1205638922 653855001 MS										
Mercury	0.00200	U	ND	0.00132	mg/L		65.5*	(75%-125%)		02/05/24 12:23
QC1205638924 653855001 PS										
Mercury	2.00	U	ND	1.35	ug/L		67.1*	(80%-120%)		02/05/24 12:26
QC1205638923 653855001 SDILT										
Mercury	U	ND	U	ND	ug/L	N/A		(0%-10%)		02/05/24 12:25
Solids Analysis										
Batch 2564661										
QC1205642691 653855005 DUP										
Total Dissolved Solids		393		389	mg/L	1.02		(0%-5%)	ES2	02/07/24 08:48
QC1205642690 LCS										
Total Dissolved Solids	300			293	mg/L		97.7	(95%-105%)		02/07/24 08:48
QC1205642689 MB										
Total Dissolved Solids			U	ND	mg/L					02/07/24 08:48

QC Summary

Workorder: **653855**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Spectrometric Analysis										
Batch 2562451										
QC1205638594 LCS										
Total Sulfide	0.400			0.403	mg/L		101	(85%-115%)	JW2	02/01/24 16:54
QC1205638593 MB										
Total Sulfide			U	ND	mg/L					02/01/24 16:54
QC1205638595 653853001 PS										
Total Sulfide	0.400 U	ND		0.279	mg/L		69.9*	(75%-125%)		02/01/24 16:54
QC1205638597 653855010 PS										
Total Sulfide	0.400 U	ND		0.234	mg/L		58.6*	(75%-125%)		02/01/24 16:55
QC1205638596 653853001 PSD										
Total Sulfide	0.400 U	ND		0.276	mg/L	1.14	69.1*	(0%-15%)		02/01/24 16:54
QC1205638598 653855010 PSD										
Total Sulfide	0.400 U	ND		0.229	mg/L	2.27	57.2*	(0%-15%)		02/01/24 16:55
Titration and Ion Analysis										
Batch 2562772										
QC1205639166 LCS										
Alkalinity, Total as CaCO3	50.0			51.8	mg/L		104	(90%-110%)	JW2	02/02/24 10:44
QC1205639167 LCS										
Alkalinity, Total as CaCO3	15.0			15.9	mg/L		106	(90%-110%)		02/02/24 10:47
QC1205639168 LCSD										
Alkalinity, Total as CaCO3	50.0			51.6	mg/L	0.387	103	(0%-20%)		02/02/24 10:46
QC1205639169 LCSD										
Alkalinity, Total as CaCO3	15.0			15.9	mg/L	0	106	(0%-20%)		02/02/24 10:48

Notes:

The Qualifiers in this report are defined as follows:

QC Summary

Workorder: **653855**

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

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

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

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

QC Summary

Report Date: February 14, 2024

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

Contact: **Joju Abraham**

Workorder: **653575**

Parmname	NOM		Sample	Qual	QC	Units	RPD%		REC%	Range	Anlst	Date	Time
Ion Chromatography													
Batch 2561599													
QC1205637122 653570001 DUP													
Chloride			2.14		2.13	mg/L	0.501			(0%-20%)	CH6	01/31/24	17:39
Fluoride			0.184		0.189	mg/L	2.79	^		(+/-0.100)			
Nitrate-N			0.275		0.273	mg/L	0.803	^		(+/-0.100)			
Sulfate			0.423		0.411	mg/L	2.83	^		(+/-0.400)			
QC1205637124 653582003 DUP													
Chloride			6.36		6.34	mg/L	0.331			(0%-20%)		02/01/24	01:22
Fluoride			0.242		0.245	mg/L	1.23	^		(+/-0.100)			
Nitrate-N		J	0.0660	U	ND	mg/L	200	^					
Sulfate			42.4		42.2	mg/L	0.475			(0%-20%)		02/01/24	18:29
QC1205637121 LCS													
Chloride	5.00				4.83	mg/L			96.7	(90%-110%)		01/31/24	16:06
Fluoride	2.50				2.39	mg/L			95.6	(90%-110%)			
Nitrate-N	2.50				2.39	mg/L			95.5	(90%-110%)			
Sulfate	10.0				9.77	mg/L			97.7	(90%-110%)			
QC1205637120 MB													
Chloride				U	ND	mg/L						01/31/24	15:36

QC Summary

Workorder: **653575**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography											
Batch 2561599											
Fluoride				U	ND	mg/L				CH6	01/31/24 15:36
Nitrate-N				U	ND	mg/L					
Sulfate				U	ND	mg/L					
QC1205637123 653570001 PS											
Chloride	5.00		2.14		7.30	mg/L		103	(90%-110%)		01/31/24 17:08
Fluoride	2.50		0.184		2.62	mg/L		97.5	(90%-110%)		
Nitrate-N	2.50		0.275		2.68	mg/L		96	(90%-110%)		
Sulfate	10.0		0.423		10.3	mg/L		98.4	(90%-110%)		
QC1205637125 653582003 PS											
Chloride	5.00		6.36		12.1	mg/L		115*	(90%-110%)		02/01/24 01:53
Fluoride	2.50		0.242		2.67	mg/L		97.1	(90%-110%)		
Nitrate-N	2.50	J	0.0660		2.45	mg/L		95.5	(90%-110%)		
Sulfate	10.0		8.49		18.9	mg/L		104	(90%-110%)		02/02/24 22:46
Metals Analysis - ICPMS											
Batch 2561630											
QC1205637184 LCS											
Antimony	0.0500				0.0489	mg/L		97.9	(80%-120%)	PRB	02/10/24 00:33
Arsenic	0.0500				0.0497	mg/L		99.4	(80%-120%)		
Barium	0.0500				0.0517	mg/L		103	(80%-120%)		

QC Summary

Workorder: **653575**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2561630										
Beryllium	0.0500			0.0563	mg/L		113	(80%-120%)	PRB	02/10/24 00:33
Boron	0.100			0.113	mg/L		113	(80%-120%)		02/12/24 13:08
Cadmium	0.0500			0.0505	mg/L		101	(80%-120%)		02/10/24 00:33
Calcium	2.00			2.14	mg/L		107	(80%-120%)		02/12/24 13:08
Chromium	0.0500			0.0488	mg/L		97.5	(80%-120%)		02/10/24 00:33
Cobalt	0.0500			0.0499	mg/L		99.8	(80%-120%)		
Iron	2.00			1.97	mg/L		98.4	(80%-120%)		
Lead	0.0500			0.0495	mg/L		98.9	(80%-120%)		
Lithium	0.0500			0.0535	mg/L		107	(80%-120%)		
Magnesium	2.00			2.24	mg/L		112	(80%-120%)		02/12/24 13:08
Manganese	0.0500			0.0506	mg/L		101	(80%-120%)		02/13/24 09:46
Molybdenum	0.0500			0.0522	mg/L		104	(80%-120%)		02/10/24 00:33
Potassium	2.00			2.06	mg/L		103	(80%-120%)		
Selenium	0.0500			0.0501	mg/L		100	(80%-120%)		
Sodium	2.00			2.09	mg/L		105	(80%-120%)		

QC Summary

Workorder: **653575**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2561630										
Thallium	0.0500			0.0486	mg/L		97.1	(80%-120%)	PRB	02/10/24 00:33
QC1205637183 MB										
Antimony			U	ND	mg/L					02/10/24 00:30
Arsenic			U	ND	mg/L					
Barium			U	ND	mg/L					
Beryllium			U	ND	mg/L					
Boron			U	ND	mg/L					02/12/24 13:07
Cadmium			U	ND	mg/L					02/10/24 00:30
Calcium			U	ND	mg/L					02/12/24 13:07
Chromium			U	ND	mg/L					02/10/24 00:30
Cobalt			U	ND	mg/L					
Iron			U	ND	mg/L					
Lead			U	ND	mg/L					
Lithium			U	ND	mg/L					
Magnesium			U	ND	mg/L					02/12/24 13:07
Manganese			U	ND	mg/L					02/13/24 09:44

QC Summary

Workorder: **653575**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2561630											
Molybdenum				U	ND	mg/L				PRB	02/10/24 00:30
Potassium				U	ND	mg/L					
Selenium				U	ND	mg/L					
Sodium				U	ND	mg/L					
Thallium				U	ND	mg/L					
QC1205637185 653570001 MS											
Antimony	0.0500	U	ND		0.0501	mg/L		100	(75%-125%)		02/10/24 00:39
Arsenic	0.0500	U	ND		0.0502	mg/L		99.2	(75%-125%)		
Barium	0.0500		0.0137		0.0660	mg/L		105	(75%-125%)		
Beryllium	0.0500	U	ND		0.0590	mg/L		118	(75%-125%)		
Boron	0.100	U	ND		0.117	mg/L		113	(75%-125%)		02/12/24 13:12
Cadmium	0.0500	U	ND		0.0504	mg/L		101	(75%-125%)		02/10/24 00:39
Calcium	2.00		5.25		7.52	mg/L		114	(75%-125%)		02/12/24 13:12
Chromium	0.0500	J	0.00854		0.0593	mg/L		102	(75%-125%)		02/10/24 00:39
Cobalt	0.0500	J	0.000962		0.0528	mg/L		104	(75%-125%)		
Iron	2.00		0.119		2.17	mg/L		102	(75%-125%)		

QC Summary

Workorder: **653575**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2561630											
Lead	0.0500	U	ND		0.0500	mg/L		99.9	(75%-125%)	PRB	02/10/24 00:39
Lithium	0.0500	U	ND		0.0565	mg/L		112	(75%-125%)		
Magnesium	2.00		5.36		7.64	mg/L		114	(75%-125%)		02/12/24 13:12
Manganese	0.0500		0.0378		0.0910	mg/L		106	(75%-125%)		02/13/24 09:50
Molybdenum	0.0500	U	ND		0.0533	mg/L		107	(75%-125%)		02/10/24 00:39
Potassium	2.00		0.443		2.53	mg/L		104	(75%-125%)		
Selenium	0.0500	U	ND		0.0507	mg/L		101	(75%-125%)		
Sodium	2.00		3.51		5.63	mg/L		106	(75%-125%)		
Thallium	0.0500	U	ND		0.0487	mg/L		97.4	(75%-125%)		
QC1205637186 653570001 MSD											
Antimony	0.0500	U	ND		0.0507	mg/L	1.1	101	(0%-20%)		02/10/24 00:42
Arsenic	0.0500	U	ND		0.0511	mg/L	1.87	101	(0%-20%)		
Barium	0.0500		0.0137		0.0668	mg/L	1.3	106	(0%-20%)		
Beryllium	0.0500	U	ND		0.0605	mg/L	2.57	121	(0%-20%)		
Boron	0.100	U	ND		0.120	mg/L	3.14	117	(0%-20%)		02/12/24 13:13
Cadmium	0.0500	U	ND		0.0510	mg/L	1.22	102	(0%-20%)		02/10/24 00:42

QC Summary

Workorder: **653575**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2561630											
Calcium	2.00		5.25		7.64	mg/L	1.52	119	(0%-20%)	PRB	02/12/24 13:13
Chromium	0.0500	J	0.00854		0.0592	mg/L	0.14	101	(0%-20%)		02/10/24 00:42
Cobalt	0.0500	J	0.000962		0.0531	mg/L	0.648	104	(0%-20%)		
Iron	2.00		0.119		2.21	mg/L	2.09	105	(0%-20%)		
Lead	0.0500	U	ND		0.0512	mg/L	2.45	102	(0%-20%)		
Lithium	0.0500	U	ND		0.0571	mg/L	1.03	113	(0%-20%)		
Magnesium	2.00		5.36		7.84	mg/L	2.67	124	(0%-20%)		02/12/24 13:13
Manganese	0.0500		0.0378		0.0910	mg/L	0.0418	106	(0%-20%)		02/13/24 09:52
Molybdenum	0.0500	U	ND		0.0540	mg/L	1.23	108	(0%-20%)		02/10/24 00:42
Potassium	2.00		0.443		2.59	mg/L	2.49	107	(0%-20%)		
Selenium	0.0500	U	ND		0.0514	mg/L	1.48	103	(0%-20%)		
Sodium	2.00		3.51		5.75	mg/L	2.27	112	(0%-20%)		
Thallium	0.0500	U	ND		0.0494	mg/L	1.48	98.8	(0%-20%)		
QC1205637187 653570001 SDILT											
Antimony		U	ND	U	ND	ug/L	N/A		(0%-20%)		02/10/24 00:47
Arsenic		U	ND	U	ND	ug/L	N/A		(0%-20%)		

QC Summary

Workorder: **653575**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2561630										
Barium		13.7	J	2.52	ug/L	7.99		(0%-20%)	PRB	02/10/24 00:47
Beryllium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Boron	U	ND	U	ND	ug/L	N/A		(0%-20%)		02/12/24 13:15
Cadmium	U	ND	U	ND	ug/L	N/A		(0%-20%)		02/10/24 00:47
Calcium		5250		1040	ug/L	.721		(0%-20%)		02/12/24 13:15
Chromium	J	8.54	U	ND	ug/L	N/A		(0%-20%)		02/10/24 00:47
Cobalt	J	0.962	U	ND	ug/L	N/A		(0%-20%)		
Iron		119	U	ND	ug/L	N/A		(0%-20%)		
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Lithium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Magnesium		5360		997	ug/L	7.04		(0%-20%)		02/12/24 13:15
Manganese		37.8		7.44	ug/L	1.55		(0%-20%)		02/13/24 09:56
Molybdenum	U	ND	U	ND	ug/L	N/A		(0%-20%)		02/10/24 00:47
Potassium		443	J	82.7	ug/L	6.62		(0%-20%)		
Selenium	U	ND	U	ND	ug/L	N/A		(0%-20%)		

QC Summary

Workorder: **653575**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2561630										
Sodium		3510		643	ug/L	8.27		(0%-20%)	PRB	02/10/24 00:47
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Metals Analysis-Mercury										
Batch 2561614										
QC1205637176 653616001 DUP										
Mercury	U	ND	U	ND	mg/L	N/A			JP2	02/02/24 13:24
QC1205637172 LCS										
Mercury	0.00200			0.00174	mg/L		86.8	(80%-120%)		02/02/24 12:47
QC1205637171 MB										
Mercury			U	ND	mg/L					02/02/24 12:45
QC1205637177 653616001 MS										
Mercury	0.00200	U	ND	0.00180	mg/L		89.2	(75%-125%)		02/02/24 13:26
QC1205637178 653616001 SDILT										
Mercury	U	ND	U	ND	ug/L	N/A		(0%-10%)		02/02/24 13:28
Solids Analysis										
Batch 2563910										
QC1205641440 653575002 DUP										
Total Dissolved Solids		502		509	mg/L	1.38		(0%-5%)	ES2	02/06/24 08:07
QC1205641438 LCS										
Total Dissolved Solids	300			297	mg/L		99	(95%-105%)		02/06/24 08:07
QC1205641437 MB										
Total Dissolved Solids			U	ND	mg/L					02/06/24 08:07

QC Summary

Workorder: **653575**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Spectrometric Analysis										
Batch 2561631										
QC1205637189 LCS										
Total Sulfide	0.400			0.401	mg/L		100	(85%-115%)	JW2	01/31/24 16:37
QC1205637188 MB										
Total Sulfide			U	ND	mg/L					01/31/24 16:37
QC1205637190 653570001 PS										
Total Sulfide	0.400 U	ND		0.421	mg/L		105	(75%-125%)		01/31/24 16:38
QC1205637192 653582003 PS										
Total Sulfide	0.400 U	ND		0.294	mg/L		73.5*	(75%-125%)		01/31/24 16:38
QC1205637191 653570001 PSD										
Total Sulfide	0.400 U	ND		0.418	mg/L	0.75	104	(0%-15%)		01/31/24 16:38
QC1205637193 653582003 PSD										
Total Sulfide	0.400 U	ND		0.289	mg/L	1.8	72.2*	(0%-15%)		01/31/24 16:38
Titration and Ion Analysis										
Batch 2561936										
QC1205637749 LCS										
Alkalinity, Total as CaCO3	50.0			52.3	mg/L		105	(90%-110%)	JW2	02/01/24 10:50
QC1205637750 LCS										
Alkalinity, Total as CaCO3	15.0			15.1	mg/L		101	(90%-110%)		02/01/24 10:54
QC1205637751 LCSD										
Alkalinity, Total as CaCO3	50.0			52.1	mg/L	0.383	104	(0%-20%)		02/01/24 10:52
QC1205637752 LCSD										
Alkalinity, Total as CaCO3	15.0			15.2	mg/L	0.66	101	(0%-20%)		02/01/24 10:55

Notes:

The Qualifiers in this report are defined as follows:

QC Summary

Workorder: **653575**

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

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

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

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

Technical Case Narrative
Georgia Power Company
SDG #: 653855

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2562401

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 14
Preparation Batch: 2562399

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

GEL Sample ID#	Client Sample Identification
653855001	BRA-BRGWC-33S
653855002	BRA-BRGWC-34S
653855003	BRA-BRGWC-36S
653855004	BRA-BRGWC-37S
653855005	BRA-BRGWC-38S
653855006	BRA-APE-EB-09
653855007	BRA-APE-FB-08
653855008	BRA-PZ-52D
653855009	BRA-PZ-53D
653855010	BRA-PZ-70I
653855011	BRA-APE-FD-05
653855012	BRA-APE-EB-10
1205638459	Method Blank (MB)**ICP-MS**
1205638460	Laboratory Control Sample (LCS)
1205638463	653855001(BRA-BRGWC-33SL) Serial Dilution (SD)
1205638461	653855001(BRA-BRGWC-33SS) Matrix Spike (MS)
1205638462	653855001(BRA-BRGWC-33SSD) 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 653855001 (BRA-BRGWC-33S), 653855002 (BRA-BRGWC-34S), 653855003 (BRA-BRGWC-36S), 653855005 (BRA-BRGWC-38S), 653855008 (BRA-PZ-52D), 653855009 (BRA-PZ-53D), 653855010 (BRA-PZ-70I) and 653855011 (BRA-APE-FD-05) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument.

Analyte	653855							
	001	**002**	**003**	**005**	**008**	**009**	**010**	**011**
Boron	10X	20X	10X	10X	1X	10X	10X	10X
Calcium	10X	20X	1X	1X	1X	10X	1X	10X
Manganese	10X	20X	1X	10X	1X	1X	1X	10X
Sodium	10X	1X	1X	1X	10X	1X	1X	10X

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**
Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 40
Analytical Batch: 2562605

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 40
Preparation Batch: 2562604

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

GEL Sample ID#	Client Sample Identification
653855001	BRA-BRGWC-33S
653855002	BRA-BRGWC-34S
653855003	BRA-BRGWC-36S
653855004	BRA-BRGWC-37S
653855005	BRA-BRGWC-38S
653855006	BRA-APE-EB-09
653855007	BRA-APE-FB-08
653855008	BRA-PZ-52D
653855009	BRA-PZ-53D
653855010	BRA-PZ-70I
653855011	BRA-APE-FD-05
653855012	BRA-APE-EB-10
1205638919	Method Blank (MB)**CVAA**
1205638920	Laboratory Control Sample (LCS)
1205638923	653855001(BRA-BRGWC-33SL) Serial Dilution (SD)
1205638921	653855001(BRA-BRGWC-33SD) Sample Duplicate (DUP)
1205638922	653855001(BRA-BRGWC-33SS) Matrix Spike (MS)
1205638924	653855001(BRA-BRGWC-33SPS) 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
1205638922 (BRA-BRGWC-33SMS)	Mercury	65.5* (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
1205638924 (BRA-BRGWC-33SPS)	Mercury	67.1* (80%-120%)

General Chemistry

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 34
Analytical Batch: 2562344

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

GEL Sample ID#	Client Sample Identification
653855001	BRA-BRGWC-33S
653855002	BRA-BRGWC-34S
653855003	BRA-BRGWC-36S
653855004	BRA-BRGWC-37S
653855005	BRA-BRGWC-38S
653855006	BRA-APE-EB-09
653855007	BRA-APE-FB-08
653855008	BRA-PZ-52D
653855009	BRA-PZ-53D
653855010	BRA-PZ-70I
653855011	BRA-APE-FD-05
653855012	BRA-APE-EB-10
1205638341	Method Blank (MB)
1205638342	Laboratory Control Sample (LCS)
1205638343	653853001(BRA-BRGWC-29I) Sample Duplicate (DUP)
1205638344	653853001(BRA-BRGWC-29I) Post Spike (PS)
1205638345	653855010(BRA-PZ-70I) Sample Duplicate (DUP)
1205638346	653855010(BRA-PZ-70I) Post Spike (PS)

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

Data Summary:

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

Quality Control (QC) Information

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

Analyte	Sample	Value
Chloride	1205638344 (BRA-BRGWC-29IPS)	116* (90%-110%)
	1205638346 (BRA-PZ-70IPS)	113* (90%-110%)
Sulfate	1205638346 (BRA-PZ-70IPS)	111* (90%-110%)

Technical Information

Sample Dilutions
The following samples 1205638343 (BRA-BRGWC-29IDUP), 1205638344 (BRA-BRGWC-29IPS), 1205638345 (BRA-PZ-70IDUP), 1205638346 (BRA-PZ-70IPS), 653855001 (BRA-BRGWC-33S), 653855002 (BRA-BRGWC-34S), 653855003 (BRA-BRGWC-36S), 653855005 (BRA-BRGWC-38S), 653855008 (BRA-PZ-52D), 653855009 (BRA-PZ-53D), 653855010 (BRA-PZ-70I) and 653855011 (BRA-APE-FD-05) were diluted because target analyte concentrations exceeded the calibration range. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	653855							
	001	002	003	005	008	009	010	011
Chloride	100X	25X	1X	1X	1X	1X	1X	100X
Sulfate	100X	25X	20X	20X	10X	25X	10X	100X

Miscellaneous Information

Manual Integrations
Samples 1205638345 (BRA-PZ-70IDUP), 653855002 (BRA-BRGWC-34S), 653855003 (BRA-BRGWC-36S), 653855005 (BRA-BRGWC-38S), 653855008 (BRA-PZ-52D), 653855009 (BRA-PZ-53D) and 653855010 (BRA-PZ-70I) were 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: 2564661

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

GEL Sample ID# **Client Sample Identification**

653855001	BRA-BRGWC-33S
653855002	BRA-BRGWC-34S
653855003	BRA-BRGWC-36S
653855004	BRA-BRGWC-37S
653855005	BRA-BRGWC-38S
653855006	BRA-APE-EB-09
653855007	BRA-APE-FB-08
653855008	BRA-PZ-52D
653855009	BRA-PZ-53D
653855010	BRA-PZ-70I
653855011	BRA-APE-FD-05
653855012	BRA-APE-EB-10
1205642689	Method Blank (MB)
1205642690	Laboratory Control Sample (LCS)
1205642691	653855005(BRA-BRGWC-38S) Sample Duplicate (DUP)

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

Data Summary:

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

Miscellaneous Information

Additional Comments
A reduced aliquot was used due to matrix interference. 653855001 (BRA-BRGWC-33S) and 653855011 (BRA-APE-FD-05). A TDS meter was used to check the samples for interference prior to analysis. 653855001 (BRA-BRGWC-33S) and 653855011 (BRA-APE-FD-05).

Product: **Sulfide, Total**
Analytical Method: SM 4500-S (2-) D
Analytical Procedure: GL-GC-E-052 REV# 13
Analytical Batch: 2562451

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

GEL Sample ID#	Client Sample Identification
653855001	BRA-BRGWC-33S
653855002	BRA-BRGWC-34S
653855003	BRA-BRGWC-36S
653855004	BRA-BRGWC-37S
653855005	BRA-BRGWC-38S
653855006	BRA-APE-EB-09
653855007	BRA-APE-FB-08
653855008	BRA-PZ-52D
653855009	BRA-PZ-53D
653855010	BRA-PZ-70I
653855011	BRA-APE-FD-05
653855012	BRA-APE-EB-10
1205638593	Method Blank (MB)
1205638594	Laboratory Control Sample (LCS)
1205638595	653853001(BRA-BRGWC-29I) Post Spike (PS)
1205638596	653853001(BRA-BRGWC-29I) Post Spike Duplicate (PSD)

1205638597	653855010(BRA-PZ-70I) Post Spike (PS)
1205638598	653855010(BRA-PZ-70I) Post Spike Duplicate (PSD)

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

Data Summary:

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

Quality Control (QC) Information

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

Analyte	Sample	Value
Total Sulfide	1205638595 (BRA-BRGWC-29IPS)	69.9* (75%-125%)
	1205638596 (BRA-BRGWC-29IPSD)	69.1* (75%-125%)
	1205638597 (BRA-PZ-70IPS)	58.6* (75%-125%)
	1205638598 (BRA-PZ-70IPSD)	57.2* (75%-125%)

Product: **Alkalinity**
Analytical Method: SM 2320B
Analytical Procedure: GL-GC-E-033 REV# 16
Analytical Batch: 2562772

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

GEL Sample ID#	Client Sample Identification
653855001	BRA-BRGWC-33S
653855002	BRA-BRGWC-34S
653855003	BRA-BRGWC-36S
653855004	BRA-BRGWC-37S
653855005	BRA-BRGWC-38S
653855006	BRA-APE-EB-09
653855007	BRA-APE-FB-08
653855008	BRA-PZ-52D
653855009	BRA-PZ-53D
653855010	BRA-PZ-70I
653855011	BRA-APE-FD-05
653855012	BRA-APE-EB-10
1205639166	Laboratory Control Sample (LCS)
1205639167	Laboratory Control Sample (LCS)
1205639168	Laboratory Control Sample Duplicate (LCSD)
1205639169	Laboratory Control Sample Duplicate (LCSD)

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

Data Summary:

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

Quality Control (QC) Information

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

Certification Statement

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

Technical Case Narrative
Georgia Power Company
SDG #: 653575

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2561630

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 14
Preparation Batch: 2561629

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

GEL Sample ID#	Client Sample Identification
653575001	BRA-BRGWC-17S
653575002	BRA-BRGWC-35S
653575003	BRA-PZ-13S
653575004	BRA-APE-FD-04
653575005	BRA-APE-FB-07
1205637183	Method Blank (MB)**ICP-MS**
1205637184	Laboratory Control Sample (LCS)
1205637187	653570001(BRA-BRGWA-2SL) Serial Dilution (SD)
1205637185	653570001(BRA-BRGWA-2SS) Matrix Spike (MS)
1205637186	653570001(BRA-BRGWA-2SSD) 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 the calcium. Client sample concentrations were less than the MDL or greater than two times the CRDL; therefore the data were not adversely affected.

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

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples 653575001 (BRA-BRGWC-17S), 653575002 (BRA-BRGWC-35S) and 653575004 (BRA-APE-FD-04) were diluted to ensure that the analyte concentrations were

within the linear calibration range of the instrument.

Analyte	653575		
	001	002	004
Boron	1X	20X	20X
Calcium	10X	20X	20X

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**
Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 40
Analytical Batch: 2561614

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 40
Preparation Batch: 2561613

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

GEL Sample ID#	Client Sample Identification
653575001	BRA-BRGWC-17S
653575002	BRA-BRGWC-35S
653575003	BRA-PZ-13S
653575004	BRA-APE-FD-04
653575005	BRA-APE-FB-07
1205637171	Method Blank (MB)**CVAA**
1205637172	Laboratory Control Sample (LCS)
1205637178	653616001(NonSDGL) Serial Dilution (SD)
1205637176	653616001(NonSDGD) Sample Duplicate (DUP)
1205637177	653616001(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# 34
Analytical Batch: 2561599

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

GEL Sample ID#	Client Sample Identification
653575001	BRA-BRGWC-17S
653575002	BRA-BRGWC-35S

653575003	BRA-PZ-13S
653575004	BRA-APE-FD-04
653575005	BRA-APE-FB-07
1205637120	Method Blank (MB)
1205637121	Laboratory Control Sample (LCS)
1205637122	653570001(BRA-BRGWA-2S) Sample Duplicate (DUP)
1205637123	653570001(BRA-BRGWA-2S) Post Spike (PS)
1205637124	653582003(BRA-PZ-44) Sample Duplicate (DUP)
1205637125	653582003(BRA-PZ-44) Post Spike (PS)

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

Data Summary:

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

Quality Control (QC) Information

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

Analyte	Sample	Value
Chloride	1205637125 (BRA-PZ-44PS)	115* (90%-110%)

Technical Information

Sample Dilutions
The following samples 1205637124 (BRA-PZ-44DUP), 1205637125 (BRA-PZ-44PS), 653575001 (BRA-BRGWC-17S), 653575002 (BRA-BRGWC-35S), 653575003 (BRA-PZ-13S) and 653575004 (BRA-APE-FD-04) were diluted because target analyte concentrations exceeded the calibration range. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	653575			
	001	002	003	004
Sulfate	20X	20X	5X	20X

Sample Re-analysis
Sample 1205637125 (BRA-PZ-44PS) was reanalyzed due to PS failure. The reanalysis data was reported.

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 21
Analytical Batch: 2563910

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

GEL Sample ID#	Client Sample Identification
653575001	BRA-BRGWC-17S
653575002	BRA-BRGWC-35S
653575003	BRA-PZ-13S
653575004	BRA-APE-FD-04
653575005	BRA-APE-FB-07
1205641437	Method Blank (MB)
1205641438	Laboratory Control Sample (LCS)
1205641440	653575002(BRA-BRGWC-35S) 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: **Sulfide, Total**
Analytical Method: SM 4500-S (2-) D
Analytical Procedure: GL-GC-E-052 REV# 13
Analytical Batch: 2561631

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

GEL Sample ID#	Client Sample Identification
653575001	BRA-BRGWC-17S
653575002	BRA-BRGWC-35S
653575003	BRA-PZ-13S
653575004	BRA-APE-FD-04
653575005	BRA-APE-FB-07
1205637188	Method Blank (MB)
1205637189	Laboratory Control Sample (LCS)
1205637190	653570001(BRA-BRGWA-2S) Post Spike (PS)
1205637191	653570001(BRA-BRGWA-2S) Post Spike Duplicate (PSD)
1205637192	653582003(BRA-PZ-44) Post Spike (PS)
1205637193	653582003(BRA-PZ-44) Post Spike Duplicate (PSD)

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

Data Summary:

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

Quality Control (QC) Information

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

Analyte	Sample	Value
Total Sulfide	1205637192 (BRA-PZ-44PS)	73.5* (75%-125%)
	1205637193 (BRA-PZ-44PSD)	72.2* (75%-125%)

Product: **Alkalinity**
Analytical Method: SM 2320B
Analytical Procedure: GL-GC-E-033 REV# 16
Analytical Batch: 2561936

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

GEL Sample ID#	Client Sample Identification
653575001	BRA-BRGWC-17S
653575002	BRA-BRGWC-35S
653575003	BRA-PZ-13S
653575004	BRA-APE-FD-04
653575005	BRA-APE-FB-07
1205637749	Laboratory Control Sample (LCS)
1205637750	Laboratory Control Sample (LCS)
1205637751	Laboratory Control Sample Duplicate (LCSD)
1205637752	Laboratory Control Sample Duplicate (LCSD)

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

Data Summary:

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

Quality Control (QC) Information

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

Certification Statement

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

Page: 1 of 2 | Project #: | GEL Quote #: | COC Number [1]: | PO Number: GPC82177-0006

GEL Laboratories LLC — Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

653855 / 653856

Chain of Custody and Analytical Request

GEL Work Order Number: | GEL Project Manager: Erin Treat

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

Client Name: GA Power | Phone #: 404-506-7113

Project/Site Name: Plant Branch Ash Ponds - E | Fax #:

Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308

Collected By: T Bolle ACC | Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested [3] (Fill in the number of containers for each test)

Sample ID (* Use composite = indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (yes, please supply isotopic info.)	Should this sample be considered: Hazardous (Characteristic or Listed Waste)	Total number of containers	TI, F, 504, TDS, NO3 EPA 300, SM 2540C	Total Coli. & Ecoli MF SM 9223B	N1 Metals* EPA 6020, 6010, 7470	N1 Ra228 & Ra226 SW 9315, 9320	N1 Sulfide SM 4500	<-- Preservative Type (6)
BRA- BRGWC-33S	01/31/24	1215	G	N	WG	N	N	8	✓	✓	✓	✓	✓	
BRA- BRGWC-34S	01/31/24	1050	G	N	WG	N	N	8	✓	✓	✓	✓	✓	
BRA- BRGWC-36S	01/31/24	0955	G	N	WG	N	N	8	✓	✓	✓	✓	✓	
BRA- BRGWC-37S	01/31/24	1152	G	N	WG	N	N	8	✓	✓	✓	✓	✓	
BRA- BRGWC-38S	01/31/24	1345	G	N	WG	N	N	8	✓	✓	✓	✓	✓	
BRA- APE-EB-09	01/31/24	1030	G	N	WQ	N	N	8	✓	✓	✓	✓	✓	
BRA- APE-FB-08	01/31/24	1500	G	N	WQ	N	N	8	✓	✓	✓	✓	✓	
BRA- PZ-52D	01/31/24	1405	G	N	WG	N	N	8	✓	✓	✓	✓	✓	
BRA- PZ-53D	01/31/24	1555	G	N	WG	N	N	8	✓	✓	✓	✓	✓	
BRA- PZ-70I	01/31/24	1645	G	N	WG	N	N	8	✓	✓	✓	✓	✓	

Comments: Note: extra sample is required for sample specific QC. Task_Code: BRA-CCR-ASSMT-2024S1

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	2-1-24	0816	1	2/1/24	0816
2	2/1/24	0836	2	2/1/24	0836
3	2/1/24	1000	3	2/1/24	1300

TAT Requested: Normal: x Rush: Specify: (Subject to Surcharge)

Fax Results: [ ] Yes [x] No

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

Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mn,Se,Tl,Fe,Mg,Mo,K,Na,Hg

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

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

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

cooler 1 - 0° | 4 - 0°
2 - 0° | 5 - 0°
3 - 1° | 6 - 1°

(1) Chain of Custody Number = Client Determined

(2) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, RB = 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 = Yes for samples that were field filtered or N = No for samples that were not field filtered.

(4) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SD=Sediment, SL=Sludge, WQ=Water Quality Control Matrix

(5) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 40VOC - 3, 500SO4/Cl/TDS - 1).

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

7) KNOWN OR POSSIBLE HAZARDS

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

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

TSCA Regulated
PCB = Polychlorinated biphenyls

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

Other
OT = Other / Unknown
(i.e., high/low pH, asbestos, beryllium, lanthanum, 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, soil matrix, etc.)

Page: 2 of 2
Project #:
GEL Quote #:
COC Number (1):
PO Number: GPC82137-0005

GEL Laboratories LLC 653855/653856
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics
Chain of Custody and Analytical Request
GEL Work Order Number: GEL Project Manager: Erin Trent

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

Client Name: GA Power | Phone & 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - E | Fax #
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: T Gold ACC | Send Results To: SCS & Geosyntec Contacts

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

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (Blank)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please notify lab)	Should this sample be considered: (7) Known or suspected Hazards	Total number of containers	Cl, F, SO4, TDS, NO3 EPA 300.0 (28 days)	Total Calc. & Diss. Hg EPA 245.1 (28 days)	Metals* EPA 6020, 6010, 7470	Radium 226 & 228 SW-846 9315, 9320	Sulfide SM 4500	<-- Preservative Type (6)
BRA- APE-FD-05	01/31/24	—	G	N	WG	N	N	8	✓	✓	✓	✓	✓	
BRA- APE-EB-10	01/31/24	1555	G	N	WQ	N	N	8	✓	✓	✓	✓	✓	
BRA-														
BRA-														
BRA-														
BRA-														
BRA-														
BRA-														
BRA-														
BRA-														

Comments: Note: extra sample is required for sample specific QC. Task_Code: BRA-CCR-ASSMT-202481

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	T Gold	2-1-24	0816		2/1/24	0816
2		2/1/24	0856		2/1/24	0856
3		2/1/24	1000		2/1/24	1300

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

TAT Requested: Normal: x Rush: ____ Specify: ____ (Subject to Surcharge)
Fax Results: [ ] Yes [x] No
Select Deliverable: [ ] C of A [ ] QC Summary [ ] Level 1 [x] Level 2 [ ] Level 3 [ ] Level 4
Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mn,Se,Tl,Fe,Mg,Mo,K,Na,Hg
For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No Cooler Temps: ____ °C
Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other

(1) Chain of Custody Number = Client Determined
(2) QC Codes: N = Normal Sample, TB = Trip Blank, FB = 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: WD = Drinking Water, WG = Groundwater, WS = Surface Water, WW = Waste Water, WL = Leachate, SO = Soil, SE = Sediment, SL = Sludge, WQ = Water Quality Control Matrix
(5) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided (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, Use preservative in addition = 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
IL = 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, tritium, other toxic, 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, safe matrices, etc.)

653855
653856
653853 ET
653854

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC — SDG/ARCOC/Work Order:

Received By: CLM — Date Received: 2/1/24

Carrier and Tracking Number — Circle Applicable: FedEx Express | FedEx Ground | UPS | Field Services | Courier | (Other)

Coolers 1 - 0° 3 - 1° 5 - 0°
2 - 0° 4 - 0° 6 - 1°

	YES	NO	
Suspected Hazard Information			*If Yes or Unknown, or samples are marked "radioactive", contact the Radiation Safety Group for further investigation.
A) Received as a DOT Shipment?		✓	Airbill 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?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM / mR/Hr Classified as: Rad 1 Rad 2 Rad 3
C) Did the RSO classify the samples as radioactive?		✓	
D) Did the client designate samples are hazardous?		✓	
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	NO	NA	Comments/Qualifiers (Required for Non-Conforming Items)
1 Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2 Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3 Samples requiring cold preservation within (0 ≤ 6 deg. C)*	✓			Preservation Method: Wet Ice Ice Packs Dry Ice None Other: TEMP: See above with Coolers. *All temperatures are recorded in Celsius
4 Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR-08 Secondary Temperature Device Serial # (If Applicable):
5 Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6 Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If preservation added, note:
7 Do any samples require Volatile Analysis?			✓	If Yes, are Encores or 5035 Kits present for analysis? Yes___ No___ NA___ (If yes, refer to VOA Form(s)) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8 Samples received within holding time?	✓			ID's and tests affected:
9 Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10 Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11 Number of containers received match number indicated on COC?	✓			Circle Applicable: No containers listed on COC Other (describe)
12 Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13 COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) reviewed SDG: WJ Date: 02/02/24 Page 1 of 1

GL-CHL-SR-001 Rev 7

653575/653580

Page: 1 of 1
Project #:
GEL Quote #:
COC Number (1):
PO Number: GPC82177-0006

GEL Laboratories LLC
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytes

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

Client Name: GA Power
Phone #: 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - E
Fax #:
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: T Bolle ACC
Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested (2) (Fill in the number of containers for each test)

Sample ID (* Must be unique – Include short and easy to read date)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (Yes, please verify sample ID!)	Should this sample be considered: If Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS, NO3 EPA 300, SM 2540C	Total Coli. & Ecoli SM 9223B	NI Metals EPA 6020, 6010, 7470	NI Radium 226 & 228 EPA 903.1, 9315	Sulfide SM 4500							<-- Preservative Type (5)
BRA- BRGWC-175	01/30/24	1551	G	N	WG	N	N	8	✓	✓	✓	✓	✓							
BRA- BRGWC-355	01/30/24	1200	G	N	WG	N	N	8	✓	✓	✓	✓	✓							
BRA- PZ-135	01/30/24	1545	G	N	WG	N	N	8	✓	✓	✓	✓	✓							
BRA- APE-FD-04	01/30/24	—	G	N	WG	N	N	8	✓	✓	✓	✓	✓							
BRA- APE-FB-07	01/30/24	1420	G	N	WG	N	N	8	✓	✓	✓	✓	✓							
BRA-																				
BRA-																				
BRA-																				
BRA-																				
BRA-																				

Comments
Note: extra sample is required for sample specific QC
Task_Code: BRA-CCR-ASSMT-202451

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	Taylor Bolle	1-31-24	0820		1/31/24	0820
2		1/31/24	0825		1/31/24	0829
3		1/31/24	104		1/31/24	20

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

Fax Results: [ ] Yes [x] No

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

Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg

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

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

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

1.) Chain of Custody Number = Client Determined

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

3.) Field Filtered: For liquid matrices, indicate with a "Y" if the parent sample was field filtered and "N" if the sample was not field filtered.

4.) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 9010B/9014B) and number of containers provided for each (i.e. AG40F = 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 MI= Misc. RCRA metals
Pb = Lead

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

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(U, P and U listed wastes)
Waste code(s):

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

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

653570 653584
653572 653575
653582 653580

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	SDG/AR/COC/Work Order:
Received By: QG	Date Received: 1/31/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other
	n/a

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

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

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials JJS Date 01/02/24 Page 1 of 1

List of current GEL Certifications as of 15 February 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122024-05
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	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-23-21
Utah NELAP	SC000122023-38
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC
2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

February 28, 2024

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

Re: Branch CCR Groundwater Compliance APE-R
Work Orders: 653856 and 653580

Dear Joju Abraham:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on January 31, 2024 and February 01, 2024. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

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

Laboratory ID	Client ID	Matrix	Date Collected	Date Recieved
653580001	BRA-BRGWC-17S	Ground Water	30/01/24 15:51	31/01/24 13:06
653580002	BRA-BRGWC-35S	Ground Water	30/01/24 12:00	31/01/24 13:06
653580003	BRA-PZ-13S	Ground Water	30/01/24 15:45	31/01/24 13:06
653580004	BRA-APE-FD-04	Ground Water	30/01/24 12:00	31/01/24 13:06
653580005	BRA-APE-FB-07	Ground Water	30/01/24 14:20	31/01/24 13:06
653856001	BRA-BRGWC-33S	Ground Water	31/01/24 12:15	01/02/24 13:00
653856002	BRA-BRGWC-34S	Ground Water	31/01/24 10:50	01/02/24 13:00
653856003	BRA-BRGWC-36S	Ground Water	31/01/24 09:55	01/02/24 13:00
653856004	BRA-BRGWC-37S	Ground Water	31/01/24 11:52	01/02/24 13:00
653856005	BRA-BRGWC-38S	Ground Water	31/01/24 13:45	01/02/24 13:00
653856006	BRA-APE-EB-09	Water	31/01/24 10:30	01/02/24 13:00
653856007	BRA-APE-FB-08	Water	31/01/24 15:00	01/02/24 13:00
653856008	BRA-PZ-52D	Ground Water	31/01/24 14:05	01/02/24 13:00
653856009	BRA-PZ-53D	Ground Water	31/01/24 15:55	01/02/24 13:00
653856010	BRA-PZ-70I	Ground Water	31/01/24 16:45	01/02/24 13:00
653856011	BRA-APE-FD-05	Ground Water	31/01/24 12:00	01/02/24 13:00

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

Prep Methods and Prep Dates

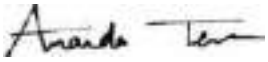
Not Applicable

Analysis Methods and Analysis Dates

Method	Run Date ID
Calculation	27-FEB-2024
Calculation	28-FEB-2024
EPA 903.1 Modified	22-FEB-2024
EPA 903.1 Modified	26-FEB-2024
EPA 904.0/SW846 9320 Modified	23-FEB-2024
EPA 904.0/SW846 9320 Modified	27-FEB-2024

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4504.

Sincerely,



Amanda Turner for
Erin Trent
Project Manager

Purchase Order: GPC82177-0006
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: 653580 GEL Work Order: 653580

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

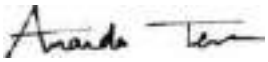
** Analyte is a surrogate compound

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 Report
for

GPCC001 Georgia Power Company

Client SDG: 653856 GEL Work Order: 653856

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

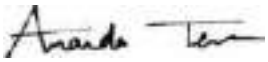
** Analyte is a surrogate compound

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: February 28, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPE-R

Client Sample ID: BRA-BRGWC-33S
Sample ID: 653856001
Matrix: WG
Collect Date: 31-JAN-24
Receive Date: 01-FEB-24
Collector: Client

Project: GPCC00101
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		1.51	+/-0.895	1.33	+/-0.975	3.00	pCi/L			JE1	02/27/24	0820	2568527	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.66	+/-0.989	1.33	+/-1.08		pCi/L			NXL1	02/28/24	0843	2568537	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		1.15	+/-0.422	0.343	+/-0.454	1.00	pCi/L			LXP1	02/22/24	0822	2563218	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"	2568527	88.9	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

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: February 28, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPE-R

Client Sample ID: BRA-BRGWC-34S
Sample ID: 653856002
Matrix: WG
Collect Date: 31-JAN-24
Receive Date: 01-FEB-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.421	+/-0.751	1.33	+/-0.759	3.00	pCi/L			JE1	02/27/24	0820	2568527	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	1.31	+/-0.819	1.33	+/-0.844		pCi/L			NXL1	02/28/24	0843	2568537	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.888	+/-0.326	0.266	+/-0.370	1.00	pCi/L			LXP1	02/22/24	0822	2563218	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"	2568527	82.2	(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

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: February 28, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPE-R

Client Sample ID: BRA-BRGWC-36S
Sample ID: 653856003
Matrix: WG
Collect Date: 31-JAN-24
Receive Date: 01-FEB-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.130	+/-0.646	1.23	+/-0.647	3.00	pCi/L			JE1	02/27/24	0820	2568527	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.31	+/-0.865	1.23	+/-0.946		pCi/L			NXL1	02/28/24	0843	2568537	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		2.18	+/-0.575	0.517	+/-0.690	1.00	pCi/L			LXP1	02/22/24	0822	2563218	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"	2568527	89.1	(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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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: February 28, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPE-R

Client Sample ID: BRA-BRGWC-37S
Sample ID: 653856004
Matrix: WG
Collect Date: 31-JAN-24
Receive Date: 01-FEB-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.14	+/-0.910	1.44	+/-0.955	3.00	pCi/L			JE1	02/27/24	0820	2568527	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		1.74	+/-0.962	1.44	+/-1.01		pCi/L			NXL1	02/28/24	0843	2568537	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.604	+/-0.313	0.372	+/-0.333	1.00	pCi/L			LXP1	02/22/24	0822	2563218	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"	2568527	85.7	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

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: February 28, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPE-R

Client Sample ID: BRA-BRGWC-38S
Sample ID: 653856005
Matrix: WG
Collect Date: 31-JAN-24
Receive Date: 01-FEB-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		2.21	+/-1.15	1.70	+/-1.28	3.00	pCi/L			JE1	02/27/24	0820	2568527	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.98	+/-1.19	1.70	+/-1.33		pCi/L			NXL1	02/28/24	0843	2568537	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.768	+/-0.320	0.245	+/-0.359	1.00	pCi/L			LXP1	02/22/24	0854	2563218	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"	2568527	84.3	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

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Certificate of Analysis

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

Atlanta, Georgia 30308 Report Date: February 28, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPE-R

Client Sample ID: BRA-APE-EB-09 Project: GPCC00101
Sample ID: 653856006 Client ID: GPCC001
Matrix: WQ
Collect Date: 31-JAN-24
Receive Date: 01-FEB-24
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.42	+/-0.944	1.42	+/-1.01	3.00	pCi/L			JE1	02/27/24	0821	2568527	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		1.91	+/-0.980	1.42	+/-1.05		pCi/L			NXL1	02/28/24	0843	2568537	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.493	+/-0.263	0.303	+/-0.287	1.00	pCi/L			LXP1	02/22/24	0854	2563218	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"	2568527	75.1	(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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Certificate of Analysis

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

Atlanta, Georgia 30308 Report Date: February 28, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPE-R

Client Sample ID: BRA-APE-FB-08 Project: GPCC00101
Sample ID: 653856007 Client ID: GPCC001
Matrix: WQ
Collect Date: 31-JAN-24
Receive Date: 01-FEB-24
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.653	+/-0.753	1.26	+/-0.771	3.00	pCi/L			JE1	02/27/24	0820	2568527	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	0.790	+/-0.811	1.26	+/-0.828		pCi/L			NXL1	02/28/24	0843	2568537	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.137	+/-0.300	0.554	+/-0.301	1.00	pCi/L			LXP1	02/22/24	0854	2563218	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"	2568527	81.8	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

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Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
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Atlanta, Georgia 30308 Report Date: February 28, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPE-R

Client Sample ID: BRA-PZ-52D
Sample ID: 653856008
Matrix: WG
Collect Date: 31-JAN-24
Receive Date: 01-FEB-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		2.18	+/-1.36	2.14	+/-1.47	3.00	pCi/L			JE1	02/27/24	0821	2568527	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.54	+/-1.38	2.14	+/-1.49		pCi/L			NXL1	02/28/24	0843	2568537	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.360	+/-0.226	0.285	+/-0.234	1.00	pCi/L			LXP1	02/22/24	0854	2563218	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"	2568527	81.2	(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: February 28, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPE-R

Client Sample ID: BRA-PZ-53D
Sample ID: 653856009
Matrix: WG
Collect Date: 31-JAN-24
Receive Date: 01-FEB-24
Collector: Client

Project: GPCC00101
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		3.23	+/-1.50	2.18	+/-1.71	3.00	pCi/L			JE1	02/27/24	0940	2568527	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		3.57	+/-1.53	2.18	+/-1.74		pCi/L			NXL1	02/28/24	0843	2568537	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.339	+/-0.266	0.400	+/-0.277	1.00	pCi/L			LXP1	02/22/24	0854	2563218	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"	2568527	78.7	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

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Atlanta, Georgia 30308 Report Date: February 28, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPE-R

Client Sample ID: BRA-PZ-70I
Sample ID: 653856010
Matrix: WG
Collect Date: 31-JAN-24
Receive Date: 01-FEB-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.927	+/-0.779	1.23	+/-0.814	3.00	pCi/L			JE1	02/27/24	0821	2568527	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		1.55	+/-0.821	1.23	+/-0.864		pCi/L			NXL1	02/28/24	0843	2568537	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.620	+/-0.258	0.198	+/-0.289	1.00	pCi/L			LXP1	02/22/24	0854	2563218	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"	2568527	79.9	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

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Atlanta, Georgia 30308 Report Date: February 28, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPE-R

Client Sample ID: BRA-APE-FD-05
Sample ID: 653856011
Matrix: WG
Collect Date: 31-JAN-24
Receive Date: 01-FEB-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.661	+/-0.767	1.29	+/-0.785	3.00	pCi/L			JE1	02/27/24	0821	2568527	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		1.80	+/-0.857	1.29	+/-0.898		pCi/L			NXL1	02/28/24	0843	2568537	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		1.14	+/-0.383	0.243	+/-0.437	1.00	pCi/L			LXP1	02/22/24	0854	2563218	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"	2568527	78.7	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

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Atlanta, Georgia 30308 Report Date: February 28, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPE-R

Client Sample ID: BRA-APE-EB-10 Project: GPCC00101
Sample ID: 653856012 Client ID: GPCC001
Matrix: WQ
Collect Date: 31-JAN-24
Receive Date: 01-FEB-24
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	-0.0787	+/-0.591	1.21	+/-0.591	3.00	pCi/L			JE1	02/27/24	0821	2568527	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	0.263	+/-0.614	1.21	+/-0.618		pCi/L			NXL1	02/28/24	0843	2568537	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.263	+/-0.169	0.183	+/-0.180	1.00	pCi/L			LXP1	02/22/24	0854	2563218	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"	2568527	78.4	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

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Certificate of Analysis

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241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: February 27, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPE-R

Client Sample ID: BRA-BRGWC-17S
Sample ID: 653580001
Matrix: WG
Collect Date: 30-JAN-24
Receive Date: 31-JAN-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	-0.0690	+/-0.507	1.05	+/-0.508	3.00	pCi/L			JE1	02/23/24	1249	2568518	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		1.36	+/-0.996	1.05	+/-1.02		pCi/L		1	NXL1	02/27/24	0938	2570132	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		1.36	+/-0.857	1.04	+/-0.884	1.00	pCi/L			MJ2	02/26/24	1011	2561841	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"	2568518	90	(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: February 27, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPE-R

Client Sample ID: BRA-BRGWC-35S
Sample ID: 653580002
Matrix: WG
Collect Date: 30-JAN-24
Receive Date: 31-JAN-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.85	+/-1.20	1.88	+/-1.30	3.00	pCi/L			JE1	02/23/24	1249	2568518	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.40	+/-1.29	1.88	+/-1.37		pCi/L		1	NXL1	02/27/24	0938	2570132	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.556	+/-0.452	0.501	+/-0.461	1.00	pCi/L			MJ2	02/26/24	1011	2561841	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"	2568518	86.7	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

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Certificate of Analysis

Company : Georgia Power Company, Southern
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Atlanta, Georgia 30308 Report Date: February 27, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPE-R

Client Sample ID: BRA-PZ-13S
Sample ID: 653580003
Matrix: WG
Collect Date: 30-JAN-24
Receive Date: 31-JAN-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.27	+/-1.07	1.73	+/-1.12	3.00	pCi/L			JE1	02/23/24	1249	2568518	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.01	+/-1.25	1.73	+/-1.30		pCi/L		1	NXL1	02/27/24	0938	2570132	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.742	+/-0.657	0.921	+/-0.666	1.00	pCi/L			MJ2	02/26/24	1011	2561841	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"	2568518	93.5	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

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Company : Georgia Power Company, Southern
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Atlanta, Georgia 30308 Report Date: February 27, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPE-R

Client Sample ID: BRA-APE-FD-04 Project: GPCC00101
Sample ID: 653580004 Client ID: GPCC001
Matrix: WG
Collect Date: 30-JAN-24
Receive Date: 31-JAN-24
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.552	+/-0.947	1.66	+/-0.957	3.00	pCi/L			JE1	02/23/24	1249	2568518	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	1.27	+/-1.13	1.66	+/-1.15		pCi/L		1	NXL1	02/27/24	0938	2570132	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.719	+/-0.623	0.897	+/-0.643	1.00	pCi/L			MJ2	02/26/24	1011	2561841	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"	2568518	82.4	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

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Atlanta, Georgia 30308 Report Date: February 27, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPE-R

Client Sample ID: BRA-APE-FB-07 Project: GPCC00101
Sample ID: 653580005 Client ID: GPCC001
Matrix: WQ
Collect Date: 30-JAN-24
Receive Date: 31-JAN-24
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.64	+/-1.14	1.78	+/-1.21	3.00	pCi/L			JE1	02/23/24	1250	2568518	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	1.76	+/-1.18	1.78	+/-1.25		pCi/L		1	NXL1	02/27/24	0938	2570132	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.127	+/-0.320	0.670	+/-0.321	1.00	pCi/L			MJ2	02/26/24	1011	2561841	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"	2568518	81.8	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

QC Summary

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

Atlanta, Georgia

Contact: **Joju Abraham**

Workorder: **653580**

Report Date: February 27, 2024

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gas Flow										
Batch 2568518										
QC1205650245 653572001 DUP										
Radium-228		2.10	U	1.41	pCi/L	39.2		(0% - 100%)	JE1	02/23/2412:50
	Uncert:	+/-1.28		+/-0.941						
	TPU:	+/-1.39		+/-1.01						
QC1205650246 LCS										
Radium-228	73.9			80.2	pCi/L		109	(75%-125%)	JE1	02/23/2412:50
	Uncert:			+/-4.25						
	TPU:			+/-21.0						
QC1205650244 MB										
Radium-228				2.37	pCi/L				JE1	02/23/2412:50
	Uncert:			+/-1.21						
	TPU:			+/-1.36						
Rad Ra-226										
Batch 2561841										
QC1205637592 653572001 DUP										
Radium-226	U	0.439	U	0.748	pCi/L	0		N/A	MJ2	02/26/2410:29
	Uncert:	+/-0.391		+/-0.667						
	TPU:	+/-0.398		+/-0.676						
QC1205637594 LCS										
Radium-226	26.4			24.7	pCi/L		93.4	(75%-125%)	MJ2	02/26/2410:29
	Uncert:			+/-3.03						
	TPU:			+/-5.48						
QC1205637591 MB										
Radium-226			U	0.197	pCi/L				MJ2	02/26/2410:29
	Uncert:			+/-0.337						
	TPU:			+/-0.340						
QC1205637593 653572001 MS										
Radium-226	135 U	0.439		114	pCi/L		84.3	(75%-125%)	MJ2	02/26/2410:29
	Uncert:	+/-0.391		+/-14.3						
	TPU:	+/-0.398		+/-31.1						

Notes:

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

The Qualifiers in this report are defined as follows:

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

QC Summary

Workorder: **653580**

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

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

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

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

QC Summary

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

Atlanta, Georgia

Contact: **Joju Abraham**

Workorder: **653856**

Report Date: February 28, 2024

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gas Flow										
Batch 2568527										
QC1205650270 653854001 DUP										
Radium-228	U	1.00		1.89	pCi/L	61.3		(0% - 100%)	JE1	02/27/2408:20
	Uncert:	+/-1.18		+/-1.14						
	TPU:	+/-1.21		+/-1.23						
QC1205650271 LCS										
Radium-228	72.9			59.5	pCi/L		81.6	(75%-125%)	JE1	02/27/2408:20
	Uncert:			+/-3.71						
	TPU:			+/-15.9						
QC1205650269 MB										
Radium-228			U	0.543	pCi/L				JE1	02/27/2408:20
	Uncert:			+/-0.948						
	TPU:			+/-0.958						
Rad Ra-226										
Batch 2563218										
QC1205639959 653854001 DUP										
Radium-226		2.01		1.67	pCi/L	18.6		(0%-20%)	LXP1	02/22/2409:26
	Uncert:	+/-0.524		+/-0.447						
	TPU:	+/-0.614		+/-0.513						
QC1205639961 LCS										
Radium-226	26.6			29.1	pCi/L		109	(75%-125%)	LXP1	02/22/2409:26
	Uncert:			+/-1.95						
	TPU:			+/-4.97						
QC1205639958 MB										
Radium-226			U	0.137	pCi/L				LXP1	02/22/2409:26
	Uncert:			+/-0.142						
	TPU:			+/-0.145						
QC1205639960 653854001 MS										
Radium-226	93.8	2.01		76.2	pCi/L		79.1	(75%-125%)	LXP1	02/22/2409:26
	Uncert:	+/-0.524		+/-5.42						
	TPU:	+/-0.614		+/-12.6						

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

QC Summary

Workorder: **653856**

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

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

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

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

Radiochemistry
Technical Case Narrative
Georgia Power Company
SDG #: 653856

Product: **Radium-226+Radium-228 Calculation**
Analytical Method: Calculation
Analytical Procedure: GL-RAD-D-003 REV# 45
Analytical Batch: 2568537

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

GEL Sample ID#	Client Sample Identification
653856001	BRA-BRGWC-33S
653856002	BRA-BRGWC-34S
653856003	BRA-BRGWC-36S
653856004	BRA-BRGWC-37S
653856005	BRA-BRGWC-38S
653856006	BRA-APE-EB-09
653856007	BRA-APE-FB-08
653856008	BRA-PZ-52D
653856009	BRA-PZ-53D
653856010	BRA-PZ-70I
653856011	BRA-APE-FD-05
653856012	BRA-APE-EB-10

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: 2568527

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

GEL Sample ID#	Client Sample Identification
653856001	BRA-BRGWC-33S
653856002	BRA-BRGWC-34S
653856003	BRA-BRGWC-36S
653856004	BRA-BRGWC-37S
653856005	BRA-BRGWC-38S
653856006	BRA-APE-EB-09
653856007	BRA-APE-FB-08
653856008	BRA-PZ-52D
653856009	BRA-PZ-53D

653856010	BRA-PZ-70I
653856011	BRA-APE-FD-05
653856012	BRA-APE-EB-10
1205650269	Method Blank (MB)
1205650270	653854001(BRA-BRGWC-29I) Sample Duplicate (DUP)
1205650271	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 653856009 (BRA-PZ-53D) was recounted due to a suspected 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: 2563218

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

GEL Sample ID#	Client Sample Identification
653856001	BRA-BRGWC-33S
653856002	BRA-BRGWC-34S
653856003	BRA-BRGWC-36S
653856004	BRA-BRGWC-37S
653856005	BRA-BRGWC-38S
653856006	BRA-APE-EB-09
653856007	BRA-APE-FB-08
653856008	BRA-PZ-52D
653856009	BRA-PZ-53D
653856010	BRA-PZ-70I
653856011	BRA-APE-FD-05
653856012	BRA-APE-EB-10
1205639958	Method Blank (MB)
1205639959	653854001(BRA-BRGWC-29I) Sample Duplicate (DUP)
1205639960	653854001(BRA-BRGWC-29I) Matrix Spike (MS)
1205639961	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, 1205639960 (BRA-BRGWC-29IMS), 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.

Radiochemistry
Technical Case Narrative
Georgia Power Company
SDG #: 653580

Product: **Radium-226+Radium-228 Calculation**
Analytical Method: Calculation
Analytical Procedure: GL-RAD-D-003 REV# 45
Analytical Batch: 2570132

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

GEL Sample ID#	Client Sample Identification
653580001	BRA-BRGWC-17S
653580002	BRA-BRGWC-35S
653580003	BRA-PZ-13S
653580004	BRA-APE-FD-04
653580005	BRA-APE-FB-07

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: 2568518

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

GEL Sample ID#	Client Sample Identification
653580001	BRA-BRGWC-17S
653580002	BRA-BRGWC-35S
653580003	BRA-PZ-13S
653580004	BRA-APE-FD-04
653580005	BRA-APE-FB-07
1205650244	Method Blank (MB)
1205650245	653572001(BRA-BRGWA-2S) Sample Duplicate (DUP)
1205650246	Laboratory Control Sample (LCS)

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

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Method Blank Criteria
The blank result (See Below) is greater than the MDC but less than the required detection limit.

Sample	Analyte	Value
1205650244 (MB)	Radium-228	Result: 2.37 pCi/L > MDA: 1.79 pCi/L <= RDL: 3.00 pCi/L

Product: **Lucas Cell, Ra226, Liquid**
Analytical Method: EPA 903.1 Modified
Analytical Procedure: GL-RAD-A-008 REV# 15
Analytical Batch: 2561841

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
653580001	BRA-BRGWC-17S
653580002	BRA-BRGWC-35S
653580003	BRA-PZ-13S
653580004	BRA-APE-FD-04
653580005	BRA-APE-FB-07
1205637591	Method Blank (MB)
1205637592	653572001(BRA-BRGWA-2S) Sample Duplicate (DUP)
1205637593	653572001(BRA-BRGWA-2S) Matrix Spike (MS)
1205637594	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, 1205637593 (BRA-BRGWA-2SMS), 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.

Page: 1 of 2
Project #:
GEL Quote #:
COC Number [1]:
PO Number: GPC82177-0006

GEL Laboratories LLC 653855 / 653856
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics
Chain of Custody and Analytical Request
GEL Work Order Number: GEL Project Manager: Erin Trent

GEL Laboratories,
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power | Phone #: 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - E | Fax #:
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: T Bagley ACC | Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hh:mm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (Yes, please supply isotopic info)	Should this sample be considered: Hazardous (Y, Known or possible Hazards)	Total number of containers	CL-F, SO4, TDS, NO3 EPA 300, SM 4500	Total Calc Alkalinity SM 2320	Metals* EPA 6020, 6010, 7470	Radium 226 & 228 EPA 9315 9320, 9320	Sulfide SM 4500	Preservative Type (6)
BRA-BRGWC-33S	01/31/24	1215	G	N	WG	N	N	8	✓	✓	✓	✓	✓	
BRA-BRGWC-34S	01/31/24	1050	G	N	WG	N	N	8	✓	✓	✓	✓	✓	
BRA-BRGWC-36S	01/31/24	0955	G	N	WG	N	N	8	✓	✓	✓	✓	✓	
BRA-BRGWC-37S	01/31/24	1152	G	N	WG	N	N	8	✓	✓	✓	✓	✓	
BRA-BRGWC-38S	01/31/24	1345	G	N	WG	N	N	8	✓	✓	✓	✓	✓	
BRA-APE-EB-09	01/31/24	1030	G	N	WQ	N	N	8	✓	✓	✓	✓	✓	
BRA-APE-FB-08	01/31/24	1500	G	N	WQ	N	N	8	✓	✓	✓	✓	✓	
BRA-PZ-52D	01/31/24	1405	G	N	WG	N	N	8	✓	✓	✓	✓	✓	
BRA-PZ-53D	01/31/24	1555	G	N	WG	N	N	8	✓	✓	✓	✓	✓	
BRA-PZ-70I	01/31/24	1645	G	N	WG	N	N	8	✓	✓	✓	✓	✓	

Comments
Note: extra sample is required for sample specific QC
Task Code: BRA-CCR-ASSMT-2024S1

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received By (Signed)	Date	Time
1		2-1-24	0816		2/1/24	0816
2		2/1/24	0934		2/1/24	0936
3		2/1/24	1000		2/1/24	1300

TAT Requested: Normal: X Rush: ____ Specify: ____ (Subject to Surcharge)
Fax Results: [ ] Yes [X] No
Select Deliverable: [ ] C of A [ ] QC Summary [ ] Level II [X] Level III [ ] Level IV [ ] Level V
Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mn,Se,Tl,Fe,Mg,Mo,K,Na,Hg
For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No Cooler Temp: °C
Sample Collection Time Zone: [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other

→ For sample shipping and delivery details, see Sample Receipt & Review form (SRR).

1) Chain of Custody Number = Client Determined
2) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite
3) Field Filtered: For liquid matrices, indicate with a "Y" for yes if sample was field filtered or "N" for no if sample was not field filtered.
4) Matrix Codes: WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix
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 = Ascorbic 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

cooler 1 - 0°
2 - 0°
3 - 1°
4 - 0°
5 - 0°
6 - 1°

7) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic Hg = Mercury
Ba = Barium Se = Selenium
Cd = Cadmium Ag = Silver
Cr = Chromium MR = Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW = Listed Waste
(F,K,P and U-listed wastes)
Waste code(s):

Other
OT = Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, mild materials, etc.)

Page: 2 of 2
Project #:
GEL Quote #:
COC Number (1):
PO Number: GPC82177-0006

653855/653856

GEL Laboratories LLC
Chemistry | Radiochemistry | Radioecology | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number:

GEL Project Manager: Erin Trent

GEL Laboratories,
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power
Phone #: 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - E
Plus 4:
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: T Gable ACC
Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested (2) (Fill in the number of containers for each test)

Sample ID (*For composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (24-hour)	QC Code (3)	Field Filtered (4)	Sample Matrix (5)	Radioactive (e.g. please apply isotopic tests.)	Should this sample be considered: (7) Known or possible Hazards	Total # of containers	Comments
BRA- APE-FD-05	01/31/24	—	G	N	WG	N	N	8	
BRA- APE-EB-10	01/31/24	1555	G	N	WQ	N	N	8	
BRA-									
BRA-									
BRA-									
BRA-									
BRA-									
BRA-									
BRA-									
BRA-									

Preservative Type (6)

Comments
Note: extra sample is required for sample specific QC
Task_Code: BRA-CCR-ASSMT-2024S1

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	2-1-24	0816	1	2/1/24	0816
2	2/1/24	0956	2	2/1/24	0956
3	2/1/24	1104	3	2/1/24	1300

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: A Metals: B,Ca,Sb,As,Ba,Be,Cd,Co,Cr,Pb,Li,Mn,Mo,Tl,Fe,Mg,Mn,K,Na,Hg

For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No Cooler Temp: °C

> For sample shipping and delivery details, see Sample Receipt & Review Form (SRR)

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

(1) Chain of Custody Number = Client Determined

(2) QC Codes: N = Normal Sample, TB = Trip Blank, FB = 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 not field filtered.

(4) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix

(5) Sample Analysis Requested: Analytes needed requested (i.e. RBOD, 903.0/904.0/9320) and number of containers provided for each (i.e. 903.0 - 3, 6010B/7470A - 1)

(6) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, TH = Thiosulfate, ST = Sodium Thiosulfate, The preservative is added – leave field blank

(7) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic Hg= Mercury
Ba = Barium Sen Selenium
Cd = Cadmium Ag= Silver
Cr = Chromium MR= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW = Listed Waste
(F,K,P and U-listed wastes)
Waste code(s):

Other
OT = Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, perfluoro, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal of wastes. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

653855
653856
653853 ET
653854

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC | SDG/AR/COC/Work Order:

Received By: CLM | Date Received: 2/1/24

Carrier and Tracking Number | Courier Name: Fedex Express / Fedex Ground / UPS / Field Services / Courier / (Other)

Coolers 1-0° 3-1° 5-0°
2-0° 4-0° 6-1°

	YES	NO	
Suspected Hazard Information			*If Net Counts > 100cpm on sample or reveal "radioactive", contact the Radiation Safety Group for further investigation.
A) Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If Class 7, is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM / uR/hr. Classification: Bad 1 Bad 2 Bad 3
D) Did the client designate samples are hazardous?		✓	
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below: PCBs / Flammable / Pkg'gs Rad / RCRA / Asbestos / Beryllium / Other:

	Sample Receipt Criteria	YES	NO	N/A	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken / Damaged container / Leaking container / Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contact not provided COC / COC received upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?	✓			Preservation Method: Wet Ice / Ice Packs / Dry Ice / None / Other: *All temperatures are recorded in Celsius. TEMP: See above with Coolers
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR-28 / Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken / Damaged container / Leaking container / Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If preservation added, Lot#:
7	Do any samples require Volatile Analysis?		✓		If Yes, are Encore or 5035 Kits present (Low/High)? Yes___ No___ NA___ (If yes, refer to VOA Receipt Log) 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 IDs and containers affected:
8	Samples received within holding time?	✓			ID's and times collected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No date or container / No times on container / COC missing info / Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No containers listed on COC / Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished / Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials WJ Date 02/02/24 Page 1 of 1

GL-CHL-SR-001 Rev 7

653575/653580

Page: 1 of 1
Project #:
GEL Quote #:
COC Number (1):
PO Number: GPC82177-0006

GEL Laboratories LLC
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number:

GEL Project Manager: Erin Trent

GEL Laboratories
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power
Phone # 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - II
Fax #
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: T Goble ACC
Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested (2) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (3)	Field Filtered (4)	Sample Matrix (5)	Should this sample be considered: Hazardous (Y/N)	Should this sample be considered: (7) Known or Possible Hazards	Total number of containers	CL, F, SO4, TDS, NO3 EPA 300.0, SM 2540C	Total Calc. & Bicarb. Alk. SM 2320B	Metals* EPA 6020, 6010, 7470	Rad per 226 & 228 Methods 9315, 9320	Sulfide SM 4500	Preservative Type (6)
BRA-BRGWC-175	01/30/24	1551	G	N	WG	N	N	8	✓	✓	✓	✓	✓	
BRA-BRGWC-355	01/30/24	1200	G	N	WG	N	N	8	✓	✓	✓	✓	✓	
BRA-PZ-135	01/30/24	1545	G	N	WG	N	N	8	✓	✓	✓	✓	✓	
BRA-APE-FD-04	01/30/24	—	G	N	WG	N	N	8	✓	✓	✓	✓	✓	
BRA-APE-FB-07	01/30/24	1420	G	N	WG	N	N	8	✓	✓	✓	✓	✓	
BRA-														
BRA-														
BRA-														
BRA-														
BRA-														

Comments
Note: extra sample is required for sample specific QC
Task_Code: BRA-CCR-ASSMT-2024S1

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received By (Signed)	Date	Time
1	T Goble	1-31-24	0820		1/31/24	0820
2		1/31/24	0820		1/31/24	820
3		1/31/24	1800		1/31/24	1800

TAT Requested: Normal: X Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [x] No
Select Deliverable: [ ] C of A [ ] QC Summary [ ] Level 1 [x] Level 2 [ ] Level 3 [ ] Level 4
Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Co,Cr,Cu,Pb,Li,Mn,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Sr
For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No Cooler Temp: ____ °C
Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other

> For sample shipping and delivery details, see Sample Receipt & Review form (SRR).

(1) Chain of Custody Number = Client Determined

(2) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

(3) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered

(4) Matrix Codes: WI=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix

(5) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1)

(6) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

(7) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic Hg = Mercury
Ba = Barium Se = Selenium
Cd = Cadmium Ag = Silver
Cr = Chromium MR = Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW = Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT = Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, perchlorate, other toxic, health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of soil collected from, soil moisture, etc.)

653570 653584
653572 653575
653582 653580

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	SDG/ARCOC/Work Order:
Received By: QG	Date Received: 1/31/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other
	n/a

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A) Shipped as a DOT Hazardous?			Hazard Class Shipped: UN#: If UN2910, is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?			COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?			Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM/ uR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?			COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?			If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)**	✓			Preservation Method: Wet Ice Ice Packs Dry Ice None Other: **all temperatures are recorded in Celsius TEMP: 4°
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservatife added, Lot#:
7	Do any samples require Volatile Analysis?				If yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___ (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___ (If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials JVJ Date 01/02/24 Page 1 of 1

List of current GEL Certifications as of 28 February 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122024-05
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	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-23-21
Utah NELAP	SC000122023-38
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC
2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

February 16, 2024

Joju Abraham
Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308

Re: Branch CCR Groundwater Compliance APBCD
Work Orders: 653909,653853 and 653582

Dear Joju Abraham:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on January 31, 2024, February 01, 2024 and February 02, 2024. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Recieved
653582001	BRA-BRGWC-32S	Ground Water	30/01/24 12:55	31/01/24 13:06
653582002	BRA-BRGWC-47	Ground Water	30/01/24 14:56	31/01/24 13:06
653582003	BRA-PZ-44	Ground Water	30/01/24 16:20	31/01/24 13:06
653582004	BRA-BRGWA-23S	Ground Water	30/01/24 12:38	31/01/24 13:06
653582005	BRA-BRGWC-30I	Ground Water	30/01/24 17:34	31/01/24 13:06
653582006	BRA-APBCD-FD-01	Ground Water	30/01/24 12:00	31/01/24 13:06
653853001	BRA-BRGWC-29I	Ground Water	31/01/24 10:40	01/02/24 13:00
653853002	BRA-BRGWC-25I	Ground Water	31/01/24 14:37	01/02/24 13:00
653853003	BRA-BRGWC-27I	Ground Water	31/01/24 15:40	01/02/24 13:00
653853004	BRA-APBCD-FB-01	Water	31/01/24 14:25	01/02/24 13:00
653909001	BRA-PZ-50D	Ground Water	01/02/24 10:15	02/02/24 08:40
653909002	BRA-APBCD-EB-05	Water	01/02/24 11:30	02/02/24 08:40
653909003	BRA-BRGWC-50	Ground Water	01/02/24 12:00	02/02/24 08:40
653909004	BRA-APBCD-FB-03	Water	01/02/24 13:30	02/02/24 08:40
653909005	BRA-BRGWC-45	Ground Water	01/02/24 13:50	02/02/24 08:40
653909006	BRA-PZ-58I	Ground Water	01/02/24 10:12	02/02/24 08:40

653909007	BRA-PZ-60I	Ground Water	01/02/24 13:13	02/02/24 08:40
653909008	BRA-PZ-61I	Ground Water	01/02/24 11:33	02/02/24 08:40
653909009	BRA-PZ-51I	Ground Water	01/02/24 13:49	02/02/24 08:40
653909010	BRA-APBCD-FD-03	Ground Water	01/02/24 12:00	02/02/24 08:40
653909011	BRA-PZ-51D	Ground Water	01/02/24 10:11	02/02/24 08:40
653909012	BRA-APBCD-EB-04	Water	01/02/24 10:10	02/02/24 08:40
653909013	BRA-BRGWC-52I	Ground Water	01/02/24 10:15	02/02/24 08:40
653909014	BRA-PZ-63I	Ground Water	01/02/24 14:10	02/02/24 08:40
653909015	BRA-PZ-64I	Ground Water	01/02/24 12:00	02/02/24 08:40
653909016	BRA-APBCD-FD-02	Ground Water	01/02/24 12:00	02/02/24 08:40
653909017	BRA-APBCD-FB-02	Water	01/02/24 11:15	02/02/24 08:40
653909018	BRA-PZ-74I	Ground Water	01/02/24 12:00	02/02/24 08:40
653909019	BRA-APBCD-EB-06	Water	01/02/24 13:05	02/02/24 08:40
653909020	BRA-PZ-68D	Ground Water	01/02/24 09:45	02/02/24 08:40
653909021	BRA-PZ-75I	Ground Water	01/02/24 14:20	02/02/24 08:40

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Prep Methods and Prep Dates

Method	Run Date ID
SW846 3005A	01-FEB-2024
SW846 3005A	02-FEB-2024
SW846 3005A	05-FEB-2024
SW846 7470A Prep	01-FEB-2024
SW846 7470A Prep	02-FEB-2024
SW846 7470A Prep	05-FEB-2024

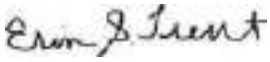
Analysis Methods and Analysis Dates

Method	Run Date ID
EPA 300.0	01-FEB-2024
EPA 300.0	02-FEB-2024
EPA 300.0	03-FEB-2024
EPA 300.0	09-FEB-2024
EPA 300.0	12-FEB-2024
EPA 300.0	31-JAN-2024
SM 2320B	01-FEB-2024

SM 2320B	02-FEB-2024
SM 2540C	06-FEB-2024
SM 2540C	07-FEB-2024
SM 2540C	08-FEB-2024
SM 4500-S (2-) D	01-FEB-2024
SM 4500-S (2-) D	02-FEB-2024
SM 4500-S (2-) D	31-JAN-2024
SW846 3005A/6020B	10-FEB-2024
SW846 3005A/6020B	12-FEB-2024
SW846 3005A/6020B	13-FEB-2024
SW846 3005A/6020B	14-FEB-2024
SW846 3005A/6020B	15-FEB-2024
SW846 3005A/6020B	16-FEB-2024
SW846 7470A	02-FEB-2024
SW846 7470A	05-FEB-2024
SW846 7470A	06-FEB-2024

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4504.

Sincerely,



Erin Trent
Project Manager

Purchase Order: GPC82177-0006
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: 653853 GEL Work Order: 653853

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL

J Value is estimated

N/A RPD or %Recovery limits do not apply.

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Erin Trent.

Reviewed by Erin B. Trent

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: 653909 GEL Work Order: 653909

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

H Analytical holding time was exceeded

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 Erin B. Trent

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: 653582 GEL Work Order: 653582

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL

J Value is estimated

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Erin Trent.

Reviewed by Erin B. Trent

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: February 15, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-BRGWC-29I
Sample ID: 653853001
Matrix: WG
Collect Date: 31-JAN-24 10:40
Receive Date: 01-FEB-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		328	6.65	20.0	mg/L		50	TXT1	02/02/24	0658	2562344	1
Chloride		7.94	0.0670	0.200	mg/L		1	TXT1	02/01/24	1710	2562344	2
Fluoride	J	0.0968	0.0330	0.100	mg/L		1					
Nitrate-N		0.725	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury		0.000780	0.0000670	0.000200	mg/L	1.00	1	JP2	02/05/24	1207	2562322	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Manganese		1.62	0.0100	0.0500	mg/L	1.00	10	PRB	02/15/24	1210	2562397	4
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	02/13/24	2144	2562397	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0179	0.000670	0.00400	mg/L	1.00	1					
Beryllium		0.00114	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		0.00874	0.000300	0.00100	mg/L	1.00	1					
Iron		23.8	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00337	0.00300	0.0100	mg/L	1.00	1					
Magnesium		10.2	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		10.6	0.0800	0.300	mg/L	1.00	1					
Selenium	J	0.00229	0.00150	0.00500	mg/L	1.00	1					
Sodium		19.6	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		1.11	0.0520	0.150	mg/L	1.00	10	BAJ	02/14/24	1131	2562397	6
Calcium		89.3	0.800	2.00	mg/L	1.00	10					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		535	2.38	10.0	mg/L			ES2	02/07/24	0848	2564661	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	02/01/24	1654	2562451	8

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Certificate of Analysis

Report Date: February 15, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-BRGWC-29I
Sample ID: 653853001
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	02/02/24	1049	2562772	9
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/02/24	1150	2562321
SW846 3005A	ICP-MS 3005A PREP	JD2	02/02/24	0845	2562396

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	
8	SM 4500-S (2-) D	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 15, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-BRGWC-25I	Project:	GPCC00101
Sample ID:	653853002	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	31-JAN-24 14:37		
Receive Date:	01-FEB-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		169	2.66	8.00	mg/L		20	TXT1	02/02/24	2355	2562344	1
Chloride		8.73	0.0670	0.200	mg/L		1	TXT1	02/01/24	1741	2562344	2
Fluoride		0.221	0.0330	0.100	mg/L		1					
Nitrate-N	J	0.0646	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/05/24	1208	2562322	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	02/13/24	2159	2562397	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0276	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		0.00254	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		24.2	0.0100	0.0300	mg/L	1.00	1					
Molybdenum		0.00140	0.000200	0.00100	mg/L	1.00	1					
Potassium		4.71	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		21.2	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		1.61	0.0520	0.150	mg/L	1.00	10	BAJ	02/14/24	1136	2562397	5
Calcium		67.4	0.800	2.00	mg/L	1.00	10					
Manganese		2.12	0.0100	0.0500	mg/L	1.00	10	PRB	02/15/24	1220	2562397	6
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		391	2.38	10.0	mg/L			ES2	02/07/24	0848	2564661	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	02/01/24	1654	2562451	8

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Certificate of Analysis

Report Date: February 15, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-BRGWC-25I
Sample ID: 653853002
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		104	0.725	2.00	mg/L			JW2	02/02/24	1050	2562772	9
Bicarbonate alkalinity (CaCO3)		104	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	JD2	02/02/24	0845	2562396
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/02/24	1150	2562321

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	
8	SM 4500-S (2-) D	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 15, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-BRGWC-27I	Project:	GPCC00101
Sample ID:	653853003	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	31-JAN-24 15:40		
Receive Date:	01-FEB-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		155	2.66	8.00	mg/L		20	TXT1	02/03/24	0027	2562344	1
Chloride		4.05	0.0670	0.200	mg/L		1	TXT1	02/01/24	1813	2562344	2
Fluoride		0.222	0.0330	0.100	mg/L		1					
Nitrate-N		0.264	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/05/24	1213	2562322	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		1.17	0.0520	0.150	mg/L	1.00	10	BAJ	02/14/24	1138	2562397	4
Calcium		60.0	0.800	2.00	mg/L	1.00	10					
Manganese		0.329	0.0100	0.0500	mg/L	1.00	10	PRB	02/15/24	1221	2562397	5
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	02/13/24	2202	2562397	6
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0155	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		0.00392	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		6.59	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	J	0.000213	0.000200	0.00100	mg/L	1.00	1					
Potassium		5.30	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		15.3	0.0800	0.250	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		299	2.38	10.0	mg/L			ES2	02/07/24	0848	2564661	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	02/01/24	1655	2562451	8

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Certificate of Analysis

Report Date: February 15, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-BRGWC-27I
Sample ID: 653853003
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		41.0	0.725	2.00	mg/L			JW2	02/02/24	1052	2562772	9
Bicarbonate alkalinity (CaCO3)		41.0	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/02/24	1150	2562321
SW846 3005A	ICP-MS 3005A PREP	JD2	02/02/24	0845	2562396

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	
8	SM 4500-S (2-) D	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 15, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-APBCD-FB-01	Project:	GPCC00101
Sample ID:	653853004	Client ID:	GPCC001
Matrix:	WQ		
Collect Date:	31-JAN-24 14:25		
Receive Date:	01-FEB-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		0.277	0.0670	0.200	mg/L		1	TXT1	02/01/24	1845	2562344	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Nitrate-N	J	0.0378	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	02/05/24	1215	2562322	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1	PRB	02/15/24	1223	2562397	3
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1	BAJ	02/14/24	1129	2562397	4
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	02/13/24	2204	2562397	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium	U	ND	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium	U	ND	0.0800	0.250	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			ES2	02/07/24	0848	2564661	6
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	02/01/24	1655	2562451	7

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Certificate of Analysis

Report Date: February 15, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-APBCD-FB-01 Project: GPCC00101
Sample ID: 653853004 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	02/02/24	1053	2562772	8
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	JD2	02/02/24	0845	2562396
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/02/24	1150	2562321

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	
7	SM 4500-S (2-) D	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 16, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-PZ-50D
Sample ID: 653909001
Matrix: WG
Collect Date: 01-FEB-24 10:15
Receive Date: 02-FEB-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		787	13.3	40.0	mg/L		100	TXT1	02/09/24	1312	2562947	1
Fluoride		0.202	0.0330	0.100	mg/L		1	TXT1	02/02/24	1328	2562947	2
Chloride		10.6	0.134	0.400	mg/L		2	TXT1	02/09/24	1136	2562947	3
Nitrate-N	H	7.85	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	02/06/24	1203	2563281	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		0.269	0.0520	0.150	mg/L	1.00	10	PRB	02/16/24	0302	2563145	5
Calcium		195	0.800	2.00	mg/L	1.00	10					
Magnesium		79.2	0.100	0.300	mg/L	1.00	10					
Manganese		9.15	0.0100	0.0500	mg/L	1.00	10					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/14/24	1938	2563145	6
Arsenic	J	0.00242	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0259	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		0.131	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0254	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	J	0.000839	0.000200	0.00100	mg/L	1.00	1					
Potassium		10.2	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		39.6	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Iron		3.41	0.0330	0.100	mg/L	1.00	1	PRB	02/16/24	0244	2563145	7
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1330	4.76	20.0	mg/L			ES2	02/08/24	0804	2565277	8
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	02/02/24	1304	2562850	9

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Report Date: February 16, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-PZ-50D
Sample ID: 653909001
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		71.1	0.725	2.00	mg/L			JW2	02/02/24	1157	2562852	10
Bicarbonate alkalinity (CaCO3)		71.1	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	AB5	02/05/24	1530	2563142
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/05/24	1100	2563279

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 4500-S (2-) D	
10	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 16, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-APBCD-EB-05	Project:	GPCC00101
Sample ID:	653909002	Client ID:	GPCC001
Matrix:	WQ		
Collect Date:	01-FEB-24 11:30		
Receive Date:	02-FEB-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	J	0.176	0.0670	0.200	mg/L		1	TXT1	02/02/24	1422	2562947	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Nitrate-N	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	02/06/24	1205	2563281	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/14/24	2003	2563145	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium	U	ND	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium	U	ND	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1	PRB	02/16/24	0327	2563145	4
Manganese	J	0.00105	0.00100	0.00500	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			ES2	02/08/24	0804	2565277	5
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	02/02/24	1304	2562850	6

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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: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-APBCD-EB-05 Project: GPCC00101
Sample ID: 653909002 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	02/02/24	1157	2562852	7
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	AB5	02/05/24	1530	2563142
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/05/24	1100	2563279

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	SM 2540C	
6	SM 4500-S (2-) D	
7	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 16, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-BRGWC-50	Project:	GPCC00101
Sample ID:	653909003	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	01-FEB-24 12:00		
Receive Date:	02-FEB-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		0.416	0.0330	0.100	mg/L		1	TXT1	02/02/24	1454	2562947	1
Nitrate-N		0.187	0.0330	0.100	mg/L		1					
Chloride		15.4	0.134	0.400	mg/L		2	TXT1	02/09/24	1447	2562947	2
Sulfate		1310	26.6	80.0	mg/L		200	TXT1	02/09/24	1519	2562947	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/06/24	1206	2563281	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/14/24	2006	2563145	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0150	0.000670	0.00400	mg/L	1.00	1					
Beryllium		0.00734	0.000200	0.000500	mg/L	1.00	1					
Cadmium		0.00688	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0376	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		9.83	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		45.4	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Manganese		77.5	0.100	0.500	mg/L	1.00	100	PRB	02/16/24	0338	2563145	6
Boron		0.389	0.0260	0.0750	mg/L	1.00	5	PRB	02/16/24	0334	2563145	7
Calcium		224	0.400	1.00	mg/L	1.00	5					
Cobalt		1.39	0.00150	0.00500	mg/L	1.00	5					
Magnesium		156	0.0500	0.150	mg/L	1.00	5					
Iron		0.307	0.0330	0.100	mg/L	1.00	1	PRB	02/16/24	0331	2563145	8
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1970	23.8	100	mg/L			ES2	02/08/24	0804	2565277	9
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	02/02/24	1304	2562850	10

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Certificate of Analysis

Report Date: February 16, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-BRGWC-50	Project:	GPCC00101
Sample ID:	653909003	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		8.70	0.725	2.00	mg/L			JW2	02/02/24	1159	2562852	11
Bicarbonate alkalinity (CaCO3)		8.70	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/05/24	1100	2563279
SW846 3005A	ICP-MS 3005A PREP	AB5	02/05/24	1530	2563142

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SM 2540C	
10	SM 4500-S (2-) D	
11	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 16, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-APBCD-FB-03	Project:	GPCC00101
Sample ID:	653909004	Client ID:	GPCC001
Matrix:	WQ		
Collect Date:	01-FEB-24 13:30		
Receive Date:	02-FEB-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	J	0.142	0.0670	0.200	mg/L		1	TXT1	02/02/24	1526	2562947	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Nitrate-N	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	02/06/24	1208	2563281	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/14/24	2010	2563145	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium	J	0.0120	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium	U	ND	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1	PRB	02/16/24	0342	2563145	4
Manganese	J	0.00390	0.00100	0.00500	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			ES2	02/08/24	0804	2565277	5
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	02/02/24	1304	2562850	6

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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: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-APBCD-FB-03 Project: GPCC00101
Sample ID: 653909004 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	02/02/24	1200	2562852	7
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/05/24	1100	2563279
SW846 3005A	ICP-MS 3005A PREP	AB5	02/05/24	1530	2563142

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	SM 2540C	
6	SM 4500-S (2-) D	
7	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

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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: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-BRGWC-45	Project:	GPCC00101
Sample ID:	653909005	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	01-FEB-24 13:50		
Receive Date:	02-FEB-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		17.2	0.670	2.00	mg/L		10	TXT1	02/09/24	1551	2562947	1
Sulfate		110	1.33	4.00	mg/L		10					
Fluoride		0.126	0.0330	0.100	mg/L		1	TXT1	02/02/24	1558	2562947	2
Nitrate-N		0.779	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/06/24	1213	2563281	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/14/24	2014	2563145	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0497	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron		0.0355	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		32.8	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00181	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					
Magnesium		16.6	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		2.83	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		13.4	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Iron	J	0.0581	0.0330	0.100	mg/L	1.00	1	PRB	02/16/24	0345	2563145	5
Manganese		0.160	0.00100	0.00500	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		255	2.38	10.0	mg/L			ES2	02/08/24	0804	2565277	6
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	02/02/24	1324	2562851	7

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Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-BRGWC-45 Project: GPCC00101
Sample ID: 653909005 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		35.7	0.725	2.00	mg/L			JW2	02/02/24	1201	2562852	8
Bicarbonate alkalinity (CaCO3)		35.7	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	AB5	02/05/24	1530	2563142
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/05/24	1100	2563279

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	SM 2540C	
7	SM 4500-S (2-) D	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Report Date: February 16, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-PZ-58I	Project:	GPCC00101
Sample ID:	653909006	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	01-FEB-24 10:12		
Receive Date:	02-FEB-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		1.16	0.0330	0.100	mg/L		1	TXT1	02/02/24	1629	2562947	1
Nitrate-N	J	0.0551	0.0330	0.100	mg/L		1					
Sulfate		1120	13.3	40.0	mg/L		100	TXT1	02/09/24	1758	2562947	2
Chloride		13.1	0.134	0.400	mg/L		2	TXT1	02/09/24	1726	2562947	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury		0.00146	0.0000670	0.000200	mg/L	1.00	1	JP2	02/06/24	1308	2563281	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Iron		62.3	3.30	10.0	mg/L	1.00	100	PRB	02/16/24	0356	2563145	5
Manganese		37.9	0.100	0.500	mg/L	1.00	100					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/14/24	2017	2563145	6
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0162	0.000670	0.00400	mg/L	1.00	1					
Beryllium		0.0351	0.000200	0.000500	mg/L	1.00	1					
Cadmium		0.00468	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.570	0.000300	0.00100	mg/L	1.00	1					
Lead	J	0.000825	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0508	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		8.32	0.0800	0.300	mg/L	1.00	1					
Selenium	J	0.00331	0.00150	0.00500	mg/L	1.00	1					
Sodium		35.0	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.416	0.0260	0.0750	mg/L	1.00	5	PRB	02/16/24	0352	2563145	7
Calcium		184	0.400	1.00	mg/L	1.00	5					
Magnesium		100	0.0500	0.150	mg/L	1.00	5					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1710	4.76	20.0	mg/L			ES2	02/08/24	0804	2565277	8
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	02/02/24	1324	2562851	9

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Certificate of Analysis

Report Date: February 16, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-PZ-58I
Sample ID: 653909006
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	02/02/24	1203	2562852	10
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/05/24	1100	2563279
SW846 3005A	ICP-MS 3005A PREP	AB5	02/05/24	1530	2563142

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 4500-S (2-) D	
10	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 16, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-PZ-60I
Sample ID: 653909007
Matrix: WG
Collect Date: 01-FEB-24 13:13
Receive Date: 02-FEB-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		1920	26.6	80.0	mg/L		200	TXT1	02/09/24	1902	2562947	1
Fluoride		1.26	0.0330	0.100	mg/L		1	TXT1	02/02/24	1701	2562947	2
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Chloride		26.9	0.670	2.00	mg/L		10	TXT1	02/09/24	1830	2562947	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/06/24	1216	2563281	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/14/24	2021	2563145	5
Arsenic	J	0.00248	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0205	0.000670	0.00400	mg/L	1.00	1					
Beryllium		0.0619	0.000200	0.000500	mg/L	1.00	1					
Cadmium		0.0140	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0958	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		13.0	0.0800	0.300	mg/L	1.00	1					
Selenium	J	0.00275	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Calcium		296	40.0	100	mg/L	1.00	500	PRB	02/16/24	0414	2563145	6
Manganese		186	0.500	2.50	mg/L	1.00	500					
Boron		0.301	0.0260	0.0750	mg/L	1.00	5	PRB	02/16/24	0410	2563145	7
Cobalt		3.78	0.00150	0.00500	mg/L	1.00	5					
Magnesium		198	0.0500	0.150	mg/L	1.00	5					
Sodium		64.0	0.400	1.25	mg/L	1.00	5					
Iron		1.62	0.0330	0.100	mg/L	1.00	1	PRB	02/16/24	0407	2563145	8
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		2690	23.8	100	mg/L			ES2	02/08/24	0804	2565277	9
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	02/02/24	1324	2562851	10

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Certificate of Analysis

Report Date: February 16, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-PZ-60I
Sample ID: 653909007
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	02/02/24	1204	2562852	11
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	AB5	02/05/24	1530	2563142
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/05/24	1100	2563279

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SM 2540C	
10	SM 4500-S (2-) D	
11	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 16, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-PZ-61I
Sample ID: 653909008
Matrix: WG
Collect Date: 01-FEB-24 11:33
Receive Date: 02-FEB-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		1470	26.6	80.0	mg/L		200	TXT1	02/12/24	1150	2562947	1
Fluoride	J	0.0694	0.0330	0.100	mg/L		1	TXT1	02/02/24	1733	2562947	2
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Chloride		15.8	0.335	1.00	mg/L		5	TXT1	02/12/24	1118	2562947	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/06/24	1218	2563281	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		0.332	0.0260	0.0750	mg/L	1.00	5	PRB	02/16/24	0421	2563145	5
Calcium		218	0.400	1.00	mg/L	1.00	5					
Magnesium		167	0.0500	0.150	mg/L	1.00	5					
Sodium		59.9	0.400	1.25	mg/L	1.00	5					
Iron		0.373	0.0330	0.100	mg/L	1.00	1	PRB	02/16/24	0418	2563145	6
Manganese		118	0.500	2.50	mg/L	1.00	500	PRB	02/16/24	0425	2563145	7
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/14/24	2024	2563145	8
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0102	0.000670	0.00400	mg/L	1.00	1					
Beryllium		0.00157	0.000200	0.000500	mg/L	1.00	1					
Cadmium	J	0.000370	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.694	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00995	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		5.99	0.0800	0.300	mg/L	1.00	1					
Selenium	J	0.00231	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			ES2	02/08/24	0804	2565277	9
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	02/02/24	1324	2562851	10

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Certificate of Analysis

Report Date: February 16, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-PZ-61I
Sample ID: 653909008
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		10.9	0.725	2.00	mg/L			JW2	02/02/24	1205	2562852	11
Bicarbonate alkalinity (CaCO3)		10.9	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	AB5	02/05/24	1530	2563142
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/05/24	1100	2563279

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SM 2540C	
10	SM 4500-S (2-) D	
11	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 16, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-PZ-51I
Sample ID: 653909009
Matrix: WG
Collect Date: 01-FEB-24 13:49
Receive Date: 02-FEB-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		9.59	0.134	0.400	mg/L		2	TXT1	02/09/24	2038	2562947	1
Sulfate		1270	13.3	40.0	mg/L		100	TXT1	02/09/24	2109	2562947	2
Fluoride	J	0.0661	0.0330	0.100	mg/L		1	TXT1	02/02/24	1805	2562947	3
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/06/24	0945	2563285	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		0.409	0.0260	0.0750	mg/L	1.00	5	PRB	02/16/24	0432	2563145	5
Calcium		208	0.400	1.00	mg/L	1.00	5					
Magnesium		136	0.0500	0.150	mg/L	1.00	5					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/14/24	2028	2563145	6
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0133	0.000670	0.00400	mg/L	1.00	1					
Beryllium	J	0.000202	0.000200	0.000500	mg/L	1.00	1					
Cadmium		0.00133	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.0221	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0225	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	J	0.000201	0.000200	0.00100	mg/L	1.00	1					
Potassium		10.7	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		42.5	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Manganese		49.5	0.500	2.50	mg/L	1.00	500	PRB	02/16/24	0436	2563145	7
Iron		0.185	0.0330	0.100	mg/L	1.00	1	PRB	02/16/24	0429	2563145	8
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1970	4.76	20.0	mg/L			ES2	02/08/24	0804	2565277	9
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	02/02/24	1324	2562851	10

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Certificate of Analysis

Report Date: February 16, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-PZ-51I
Sample ID: 653909009
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		24.3	0.725	2.00	mg/L			JW2	02/02/24	1207	2562852	11
Bicarbonate alkalinity (CaCO3)		24.3	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	AB5	02/05/24	1530	2563142
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/05/24	1100	2563284

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SM 2540C	
10	SM 4500-S (2-) D	
11	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 16, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-APBCD-FD-03
Sample ID: 653909010
Matrix: WG
Collect Date: 01-FEB-24 12:00
Receive Date: 02-FEB-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		27.7	0.335	1.00	mg/L		5	TXT1	02/09/24	2141	2562947	1
Fluoride		1.27	0.0330	0.100	mg/L		1	TXT1	02/02/24	1837	2562947	2
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate		1920	26.6	80.0	mg/L		200	TXT1	02/09/24	2213	2562947	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/06/24	0946	2563285	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Manganese		178	1.00	5.00	mg/L	1.00	1000	PRB	02/16/24	0742	2563145	5
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/14/24	2032	2563145	6
Arsenic	J	0.00236	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0204	0.000670	0.00400	mg/L	1.00	1					
Beryllium		0.0664	0.000200	0.000500	mg/L	1.00	1					
Cadmium		0.0141	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.101	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		12.8	0.0800	0.300	mg/L	1.00	1					
Selenium	J	0.00289	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.289	0.0520	0.150	mg/L	1.00	10	PRB	02/16/24	0454	2563145	7
Calcium		298	0.800	2.00	mg/L	1.00	10					
Cobalt		3.82	0.00300	0.0100	mg/L	1.00	10					
Magnesium		199	0.100	0.300	mg/L	1.00	10					
Sodium		63.9	0.800	2.50	mg/L	1.00	10					
Iron		1.60	0.0330	0.100	mg/L	1.00	1	PRB	02/16/24	0447	2563145	8
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		2890	23.8	100	mg/L			ES2	02/08/24	0804	2565277	9
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	02/02/24	1325	2562851	10

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Certificate of Analysis

Report Date: February 16, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-APBCD-FD-03 Project: GPCC00101
Sample ID: 653909010 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	02/02/24	1209	2562852	11
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	AB5	02/05/24	1530	2563142
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/05/24	1100	2563284

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SM 2540C	
10	SM 4500-S (2-) D	
11	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 16, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-PZ-51D	Project:	GPCC00101
Sample ID:	653909011	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	01-FEB-24 10:11		
Receive Date:	02-FEB-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		19.2	2.68	8.00	mg/L		40	TXT1	02/09/24	2349	2562947	1
Sulfate		355	5.32	16.0	mg/L		40					
Fluoride		0.299	0.0330	0.100	mg/L		1	TXT1	02/02/24	2012	2562947	2
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/06/24	0948	2563285	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/14/24	2035	2563145	4
Arsenic	J	0.00234	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0461	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron		0.0326	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00111	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00929	0.00300	0.0100	mg/L	1.00	1					
Magnesium		27.5	0.0100	0.0300	mg/L	1.00	1					
Molybdenum		0.00198	0.000200	0.00100	mg/L	1.00	1					
Potassium		10.3	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		41.2	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Iron		2.45	0.0330	0.100	mg/L	1.00	1	PRB	02/16/24	0450	2563145	5
Calcium		122	0.800	2.00	mg/L	1.00	10	PRB	02/16/24	0457	2563145	6
Manganese		1.38	0.0100	0.0500	mg/L	1.00	10					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		715	2.38	10.0	mg/L			ES2	02/08/24	0804	2565277	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	02/02/24	1325	2562851	8

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Certificate of Analysis

Report Date: February 16, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-PZ-51D
Sample ID: 653909011
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		126	0.725	2.00	mg/L			JW2	02/02/24	1216	2562854	9
Bicarbonate alkalinity (CaCO3)		126	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	AB5	02/05/24	1530	2563142
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/05/24	1100	2563284

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	
8	SM 4500-S (2-) D	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 16, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-APBCD-EB-04
Sample ID: 653909012
Matrix: WQ
Collect Date: 01-FEB-24 10:10
Receive Date: 02-FEB-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	CH6	02/02/24	1503	2562950	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Nitrate-N	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	02/06/24	0950	2563285	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/14/24	2053	2563148	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium	U	ND	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium	U	ND	0.0800	0.250	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	02/16/24	0034	2563148	4
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			ES2	02/08/24	0804	2565277	5
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	02/02/24	1325	2562851	6

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Certificate of Analysis

Report Date: February 16, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-APBCD-EB-04 Project: GPCC00101
Sample ID: 653909012 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	02/02/24	1218	2562854	7
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	AB5	02/05/24	1530	2563146
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/05/24	1100	2563284

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	SM 2540C	
6	SM 4500-S (2-) D	
7	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 16, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-BRGWC-52I
Sample ID: 653909013
Matrix: WG
Collect Date: 01-FEB-24 10:15
Receive Date: 02-FEB-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		6.30	0.0670	0.200	mg/L		1	CH6	02/02/24	1533	2562950	1
Fluoride		0.215	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate		145	2.66	8.00	mg/L		20	CH6	02/02/24	2316	2562950	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/06/24	0951	2563285	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/14/24	2057	2563148	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0414	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		36.4	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000420	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0122	0.00300	0.0100	mg/L	1.00	1					
Magnesium		17.5	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	J	0.000564	0.000200	0.00100	mg/L	1.00	1					
Potassium		4.46	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		17.6	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		1.61	0.0520	0.150	mg/L	1.00	10	PRB	02/16/24	0103	2563148	5
Iron		1.03	0.0330	0.100	mg/L	1.00	1	PRB	02/16/24	0045	2563148	6
Manganese		0.554	0.00100	0.00500	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		303	2.38	10.0	mg/L			ES2	02/08/24	0804	2565277	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	02/02/24	1325	2562851	8

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Certificate of Analysis

Report Date: February 16, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-BRGWC-52I
Sample ID: 653909013
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		53.6	0.725	2.00	mg/L			JW2	02/02/24	1219	2562854	9
Bicarbonate alkalinity (CaCO3)		53.6	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	AB5	02/05/24	1530	2563146
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/05/24	1100	2563284

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	
8	SM 4500-S (2-) D	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 16, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-PZ-63I	Project:	GPCC00101
Sample ID:	653909014	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	01-FEB-24 14:10		
Receive Date:	02-FEB-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		7.16	0.0670	0.200	mg/L		1	CH6	02/02/24	1706	2562950	1
Fluoride		0.289	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate		352	5.32	16.0	mg/L		40	CH6	02/03/24	0049	2562950	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/06/24	0953	2563285	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		0.714	0.0520	0.150	mg/L	1.00	10	PRB	02/16/24	0131	2563148	4
Calcium		57.3	0.800	2.00	mg/L	1.00	10					
Manganese		7.04	0.0100	0.0500	mg/L	1.00	10					
Iron		1.30	0.0330	0.100	mg/L	1.00	1	PRB	02/16/24	0128	2563148	5
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/14/24	2122	2563148	6
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0202	0.000670	0.00400	mg/L	1.00	1					
Beryllium	J	0.000286	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		0.0299	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00557	0.00300	0.0100	mg/L	1.00	1					
Magnesium		38.7	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	J	0.000700	0.000200	0.00100	mg/L	1.00	1					
Potassium		7.84	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		17.8	0.0800	0.250	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		561	2.38	10.0	mg/L			ES2	02/08/24	0804	2565277	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	02/02/24	1325	2562851	8

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Certificate of Analysis

Report Date: February 16, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-PZ-63I	Project:	GPCC00101
Sample ID:	653909014	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		30.3	0.725	2.00	mg/L			JW2	02/02/24	1221	2562854	9
Bicarbonate alkalinity (CaCO3)		30.3	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	AB5	02/05/24	1530	2563146
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/05/24	1100	2563284

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	
8	SM 4500-S (2-) D	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 16, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-PZ-64I
Sample ID: 653909015
Matrix: WG
Collect Date: 01-FEB-24 12:00
Receive Date: 02-FEB-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		0.133	0.0330	0.100	mg/L		1	CH6	02/02/24	1737	2562950	1
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Chloride		36.9	0.670	2.00	mg/L		10	CH6	02/03/24	0221	2562950	2
Sulfate		2730	133	400	mg/L		1000	CH6	02/03/24	0323	2562950	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/06/24	0955	2563285	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		0.0160	0.00520	0.0150	mg/L	1.00	1	PRB	02/16/24	0135	2563148	5
Iron		2.47	0.0330	0.100	mg/L	1.00	1					
Manganese		352	1.00	5.00	mg/L	1.00	1000	PRB	02/16/24	0142	2563148	6
Calcium		333	0.800	2.00	mg/L	1.00	10	PRB	02/16/24	0139	2563148	7
Cobalt		9.86	0.00300	0.0100	mg/L	1.00	10					
Magnesium		247	0.100	0.300	mg/L	1.00	10					
Sodium		69.9	0.800	2.50	mg/L	1.00	10					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/14/24	2126	2563148	8
Arsenic	J	0.00438	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0133	0.000670	0.00400	mg/L	1.00	1					
Beryllium		0.00268	0.000200	0.000500	mg/L	1.00	1					
Cadmium		0.00110	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0124	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		12.1	0.0800	0.300	mg/L	1.00	1					
Selenium		0.00830	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		4420	23.8	100	mg/L			ES2	02/08/24	0804	2565277	9
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	02/02/24	1325	2562851	10

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Certificate of Analysis

Report Date: February 16, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-PZ-64I	Project:	GPCC00101
Sample ID:	653909015	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		22.4	0.725	2.00	mg/L			JW2	02/02/24	1224	2562854	11
Bicarbonate alkalinity (CaCO3)		22.4	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	AB5	02/05/24	1530	2563146
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/05/24	1100	2563284

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SM 2540C	
10	SM 4500-S (2-) D	
11	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 16, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-APBCD-FD-02	Project:	GPCC00101
Sample ID:	653909016	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	01-FEB-24 12:00		
Receive Date:	02-FEB-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		6.45	0.0670	0.200	mg/L		1	CH6	02/02/24	1808	2562950	1
Fluoride		0.210	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate		148	2.66	8.00	mg/L		20	CH6	02/03/24	0354	2562950	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/06/24	0956	2563285	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		1.63	0.0520	0.150	mg/L	1.00	10	PRB	02/16/24	0150	2563148	4
Iron		1.04	0.0330	0.100	mg/L	1.00	1	PRB	02/16/24	0146	2563148	5
Manganese		0.569	0.00100	0.00500	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/14/24	2129	2563148	6
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0412	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		36.6	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00179	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0131	0.00300	0.0100	mg/L	1.00	1					
Magnesium		17.9	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	J	0.000536	0.000200	0.00100	mg/L	1.00	1					
Potassium		4.51	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		18.1	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		297	2.38	10.0	mg/L			ES2	02/08/24	0804	2565277	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	02/02/24	1325	2562851	8

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Certificate of Analysis

Report Date: February 16, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-APBCD-FD-02 Project: GPCC00101
Sample ID: 653909016 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		55.8	0.725	2.00	mg/L			JW2	02/02/24	1226	2562854	9
Bicarbonate alkalinity (CaCO3)		55.8	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	AB5	02/05/24	1530	2563146
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/05/24	1100	2563284

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	
8	SM 4500-S (2-) D	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 16, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-APBCD-FB-02
Sample ID: 653909017
Matrix: WQ
Collect Date: 01-FEB-24 11:15
Receive Date: 02-FEB-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	J	0.174	0.0670	0.200	mg/L		1	CH6	02/02/24	1839	2562950	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Nitrate-N	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	02/06/24	1001	2563285	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron	J	0.00839	0.00520	0.0150	mg/L	1.00	1	PRB	02/16/24	0153	2563148	3
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Manganese	J	0.00398	0.00100	0.00500	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/14/24	2133	2563148	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00108	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					
Magnesium		0.0585	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium	U	ND	0.0800	0.250	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			ES2	02/08/24	0804	2565277	5
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	02/02/24	1325	2562851	6

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Report Date: February 16, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-APBCD-FB-02 Project: GPCC00101
Sample ID: 653909017 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	02/02/24	1227	2562854	7
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/05/24	1100	2563284
SW846 3005A	ICP-MS 3005A PREP	AB5	02/05/24	1530	2563146

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	SM 2540C	
6	SM 4500-S (2-) D	
7	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 16, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-PZ-74I
Sample ID: 653909018
Matrix: WG
Collect Date: 01-FEB-24 12:00
Receive Date: 02-FEB-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		0.232	0.0330	0.100	mg/L		1	CH6	02/02/24	2011	2562950	1
Nitrate-N	J	0.0738	0.0330	0.100	mg/L		1					
Chloride		18.1	1.68	5.00	mg/L		25	CH6	02/03/24	0425	2562950	2
Sulfate		306	3.33	10.0	mg/L		25					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/06/24	1003	2563285	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		1.32	0.0520	0.150	mg/L	1.00	10	PRB	02/16/24	0200	2563148	4
Calcium		62.5	0.800	2.00	mg/L	1.00	10					
Iron	J	0.0710	0.0330	0.100	mg/L	1.00	1	PRB	02/16/24	0157	2563148	5
Manganese		0.0320	0.00100	0.00500	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/14/24	2137	2563148	6
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0245	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	0.000829	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00702	0.00300	0.0100	mg/L	1.00	1					
Magnesium		33.7	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		3.25	0.0800	0.300	mg/L	1.00	1					
Selenium		0.0489	0.00150	0.00500	mg/L	1.00	1					
Sodium		23.6	0.0800	0.250	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		536	2.38	10.0	mg/L			ES2	02/08/24	0804	2565277	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	02/02/24	1325	2562851	8

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Certificate of Analysis

Report Date: February 16, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-PZ-74I
Sample ID: 653909018
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		42.3	0.725	2.00	mg/L			JW2	02/02/24	1228	2562854	9
Bicarbonate alkalinity (CaCO3)		42.3	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/05/24	1100	2563284
SW846 3005A	ICP-MS 3005A PREP	AB5	02/05/24	1530	2563146

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	
8	SM 4500-S (2-) D	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 16, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-APBCD-EB-06
Sample ID: 653909019
Matrix: WQ
Collect Date: 01-FEB-24 13:05
Receive Date: 02-FEB-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	CH6	02/02/24	2042	2562950	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Nitrate-N	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	02/06/24	1005	2563285	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1	PRB	02/16/24	0211	2563148	3
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Manganese	J	0.00327	0.00100	0.00500	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/14/24	2140	2563148	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000443	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					
Magnesium	U	ND	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium	U	ND	0.0800	0.250	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			ES2	02/08/24	0804	2565277	5
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	02/02/24	1325	2562851	6

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Certificate of Analysis

Report Date: February 16, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-APBCD-EB-06 Project: GPCC00101
Sample ID: 653909019 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	02/02/24	1230	2562854	7
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/05/24	1100	2563284
SW846 3005A	ICP-MS 3005A PREP	AB5	02/05/24	1530	2563146

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	SM 2540C	
6	SM 4500-S (2-) D	
7	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 16, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-PZ-68D
Sample ID: 653909020
Matrix: WG
Collect Date: 01-FEB-24 09:45
Receive Date: 02-FEB-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		19.9	1.68	5.00	mg/L		25	CH6	02/03/24	0456	2562950	1
Sulfate		279	3.33	10.0	mg/L		25					
Fluoride		0.211	0.0330	0.100	mg/L		1	CH6	02/02/24	2113	2562950	2
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/06/24	1006	2563285	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Iron		0.748	0.0330	0.100	mg/L	1.00	1	PRB	02/16/24	0215	2563148	4
Manganese		0.312	0.00100	0.00500	mg/L	1.00	1					
Boron		0.384	0.0260	0.0750	mg/L	1.00	5	PRB	02/16/24	0222	2563148	5
Calcium		94.3	0.400	1.00	mg/L	1.00	5					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/14/24	2144	2563148	6
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0853	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	0.000852	0.000300	0.00100	mg/L	1.00	1					
Lead	J	0.000504	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00564	0.00300	0.0100	mg/L	1.00	1					
Magnesium		22.7	0.0100	0.0300	mg/L	1.00	1					
Molybdenum		0.00598	0.000200	0.00100	mg/L	1.00	1					
Potassium		9.14	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		36.3	0.0800	0.250	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		583	2.38	10.0	mg/L			ES2	02/08/24	0804	2565277	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	02/02/24	1325	2562851	8

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Report Date: February 16, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-PZ-68D
Sample ID: 653909020
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		116	0.725	2.00	mg/L			JW2	02/02/24	1231	2562854	9
Bicarbonate alkalinity (CaCO3)		116	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	AB5	02/05/24	1530	2563146
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/05/24	1100	2563284

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	
8	SM 4500-S (2-) D	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 16, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-PZ-75I
Sample ID: 653909021
Matrix: WG
Collect Date: 01-FEB-24 14:20
Receive Date: 02-FEB-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		304	5.32	16.0	mg/L		40	CH6	02/03/24	0527	2562950	1
Chloride		7.21	0.0670	0.200	mg/L		1	CH6	02/02/24	2144	2562950	2
Fluoride	J	0.0996	0.0330	0.100	mg/L		1					
Nitrate-N	J	0.0715	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/06/24	1008	2563285	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Iron	J	0.0457	0.0330	0.100	mg/L	1.00	1	PRB	02/16/24	0218	2563148	4
Manganese		0.0209	0.00100	0.00500	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/14/24	2147	2563148	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
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	J	0.000519	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00411	0.00300	0.0100	mg/L	1.00	1					
Magnesium		33.9	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		4.51	0.0800	0.300	mg/L	1.00	1					
Selenium		0.0954	0.00150	0.00500	mg/L	1.00	1					
Sodium		23.9	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		1.36	0.0520	0.150	mg/L	1.00	10	PRB	02/16/24	0226	2563148	6
Calcium		50.8	0.800	2.00	mg/L	1.00	10					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		450	2.38	10.0	mg/L			ES2	02/08/24	0846	2565278	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	02/02/24	1325	2562851	8

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Certificate of Analysis

Report Date: February 16, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-PZ-75I
Sample ID: 653909021
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		32.9	0.725	2.00	mg/L			JW2	02/02/24	1232	2562854	9
Bicarbonate alkalinity (CaCO3)		32.9	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	AB5	02/05/24	1530	2563146
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/05/24	1100	2563284

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	
8	SM 4500-S (2-) D	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 14, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-BRGWC-32S
Sample ID: 653582001
Matrix: WG
Collect Date: 30-JAN-24 12:55
Receive Date: 31-JAN-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		4.10	0.0670	0.200	mg/L		1	CH6	01/31/24	2349	2561599	1
Fluoride		0.207	0.0330	0.100	mg/L		1					
Nitrate-N		1.23	0.0330	0.100	mg/L		1					
Sulfate		246	2.66	8.00	mg/L		20	CH6	02/01/24	1554	2561599	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/02/24	1310	2561614	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Calcium		47.4	0.0800	0.200	mg/L	1.00	1	PRB	02/12/24	1403	2561630	4
Magnesium		31.7	0.0100	0.0300	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/10/24	0127	2561630	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0192	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00591	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		2.59	0.0800	0.300	mg/L	1.00	1					
Selenium		0.170	0.00150	0.00500	mg/L	1.00	1					
Sodium		28.7	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1	PRB	02/13/24	1022	2561630	6
Boron		1.23	0.0520	0.150	mg/L	1.00	10	PRB	02/12/24	1346	2561630	7
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		418	2.38	10.0	mg/L			ES2	02/06/24	0807	2563910	8
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	01/31/24	1638	2561631	9

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Certificate of Analysis

Report Date: February 14, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-BRGWC-32S
Sample ID: 653582001
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		30.6	0.725	2.00	mg/L			JW2	02/01/24	1113	2561936	10
Bicarbonate alkalinity (CaCO3)		30.6	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	JD2	02/01/24	0815	2561629
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/01/24	1135	2561613

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 4500-S (2-) D	
10	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 14, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-BRGWC-47
Sample ID: 653582002
Matrix: WG
Collect Date: 30-JAN-24 14:56
Receive Date: 31-JAN-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		1360	13.3	40.0	mg/L		100	CH6	02/01/24	1625	2561599	1
Chloride		4.74	0.0670	0.200	mg/L		1	CH6	02/01/24	0020	2561599	2
Fluoride		0.110	0.0330	0.100	mg/L		1					
Nitrate-N		0.231	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/02/24	1311	2561614	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		0.618	0.0520	0.150	mg/L	1.00	10	PRB	02/12/24	1347	2561630	4
Calcium		340	0.800	2.00	mg/L	1.00	10					
Magnesium		132	0.100	0.300	mg/L	1.00	10					
Manganese		0.00852	0.00100	0.00500	mg/L	1.00	1	PRB	02/13/24	1024	2561630	5
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/10/24	0130	2561630	6
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0278	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0525	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0484	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	J	0.000280	0.000200	0.00100	mg/L	1.00	1					
Potassium		12.4	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		43.4	0.0800	0.250	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		2160	4.76	20.0	mg/L			ES2	02/06/24	0807	2563910	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	01/31/24	1638	2561631	8

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Certificate of Analysis

Report Date: February 14, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-BRGWC-47 Project: GPCC00101
Sample ID: 653582002 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		24.5	0.725	2.00	mg/L			JW2	02/01/24	1114	2561936	9
Bicarbonate alkalinity (CaCO3)		24.5	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	JD2	02/01/24	0815	2561629
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/01/24	1135	2561613

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	
8	SM 4500-S (2-) D	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 14, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-PZ-44
Sample ID: 653582003
Matrix: WG
Collect Date: 30-JAN-24 16:20
Receive Date: 31-JAN-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		6.36	0.0670	0.200	mg/L		1	CH6	02/01/24	0051	2561599	1
Fluoride		0.242	0.0330	0.100	mg/L		1					
Nitrate-N	J	0.0660	0.0330	0.100	mg/L		1					
Sulfate		42.4	0.665	2.00	mg/L		5	CH6	02/01/24	1758	2561599	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/02/24	1313	2561614	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Manganese		0.501	0.00100	0.00500	mg/L	1.00	1	PRB	02/13/24	1025	2561630	4
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/10/24	0133	2561630	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0520	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	0.000408	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0551	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00537	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		2.60	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		12.1	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Calcium		26.0	0.0800	0.200	mg/L	1.00	1	PRB	02/12/24	1405	2561630	6
Magnesium		11.5	0.0100	0.0300	mg/L	1.00	1					
Boron		1.27	0.0520	0.150	mg/L	1.00	10	PRB	02/12/24	1348	2561630	7
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		179	2.38	10.0	mg/L			ES2	02/06/24	0807	2563910	8
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	01/31/24	1638	2561631	9

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Certificate of Analysis

Report Date: February 14, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-PZ-44 Project: GPCC00101
Sample ID: 653582003 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		79.7	0.725	2.00	mg/L			JW2	02/01/24	1117	2561936	10
Bicarbonate alkalinity (CaCO3)		79.7	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	JD2	02/01/24	0815	2561629
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/01/24	1135	2561613

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 4500-S (2-) D	
10	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 14, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-BRGWA-23S	Project:	GPCC00101
Sample ID:	653582004	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	30-JAN-24 12:38		
Receive Date:	31-JAN-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		2.40	0.0670	0.200	mg/L		1	CH6	02/01/24	0224	2561599	1
Fluoride		0.275	0.0330	0.100	mg/L		1					
Nitrate-N		0.193	0.0330	0.100	mg/L		1					
Sulfate		10.4	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	02/02/24	1318	2561614	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Manganese	J	0.00138	0.00100	0.00500	mg/L	1.00	1	PRB	02/13/24	1027	2561630	3
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/10/24	0136	2561630	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0431	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00729	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	J	0.000217	0.000200	0.00100	mg/L	1.00	1					
Potassium		2.16	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		9.09	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.0389	0.00520	0.0150	mg/L	1.00	1	PRB	02/12/24	1326	2561630	5
Calcium		6.19	0.0800	0.200	mg/L	1.00	1					
Magnesium		3.60	0.0100	0.0300	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		85.0	2.38	10.0	mg/L			ES2	02/06/24	0807	2563910	6
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	01/31/24	1638	2561631	7

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Certificate of Analysis

Report Date: February 14, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-BRGWA-23S
Sample ID: 653582004
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		37.6	0.725	2.00	mg/L			JW2	02/01/24	1119	2561936	8
Bicarbonate alkalinity (CaCO3)		37.6	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	JD2	02/01/24	0815	2561629
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/01/24	1135	2561613

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	
7	SM 4500-S (2-) D	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 14, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-BRGWC-30I	Project:	GPCC00101
Sample ID:	653582005	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	30-JAN-24 17:34		
Receive Date:	31-JAN-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		3.52	0.0670	0.200	mg/L		1	CH6	02/01/24	1250	2561599	1
Fluoride		0.169	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate		1210	13.3	40.0	mg/L		100	CH6	02/01/24	1321	2561599	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/02/24	1319	2561614	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Manganese		1.53	0.0200	0.100	mg/L	1.00	20	PRB	02/13/24	1029	2561630	4
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/10/24	0139	2561630	5
Arsenic	J	0.00200	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0349	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00179	0.000300	0.00100	mg/L	1.00	1					
Iron		2.25	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0305	0.00300	0.0100	mg/L	1.00	1					
Molybdenum		0.00137	0.000200	0.00100	mg/L	1.00	1					
Potassium		6.53	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		32.2	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		2.36	0.104	0.300	mg/L	1.00	20	PRB	02/12/24	1349	2561630	6
Calcium		441	1.60	4.00	mg/L	1.00	20					
Magnesium		67.4	0.200	0.600	mg/L	1.00	20					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1970	4.76	20.0	mg/L			ES2	02/06/24	0807	2563910	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	01/31/24	1638	2561631	8

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Certificate of Analysis

Report Date: February 14, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-BRGWC-30I
Sample ID: 653582005
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		136	0.725	2.00	mg/L			JW2	02/01/24	1121	2561936	9
Bicarbonate alkalinity (CaCO3)		136	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	JD2	02/01/24	0815	2561629
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/01/24	1135	2561613

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	
8	SM 4500-S (2-) D	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 14, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID:	BRA-APBCD-FD-01	Project:	GPCC00101
Sample ID:	653582006	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	30-JAN-24 12:00		
Receive Date:	31-JAN-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		6.24	0.0670	0.200	mg/L		1	CH6	02/01/24	1148	2561599	1
Fluoride		0.188	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate		43.1	0.665	2.00	mg/L		5	CH6	02/01/24	1219	2561599	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/02/24	1321	2561614	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		1.31	0.0520	0.150	mg/L	1.00	10	PRB	02/12/24	1350	2561630	4
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/10/24	0142	2561630	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0544	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	0.000435	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0579	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00547	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		2.67	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		12.4	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Calcium		26.2	0.0800	0.200	mg/L	1.00	1	PRB	02/12/24	1408	2561630	6
Magnesium		11.5	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.514	0.00100	0.00500	mg/L	1.00	1	PRB	02/13/24	1031	2561630	7
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		184	2.38	10.0	mg/L			ES2	02/06/24	0807	2563910	8
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	01/31/24	1638	2561631	9

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Certificate of Analysis

Report Date: February 14, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceAPBCD

Client Sample ID: BRA-APBCD-FD-01 Project: GPCC00101
Sample ID: 653582006 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		79.8	0.725	2.00	mg/L			JW2	02/01/24	1123	2561936	10
Bicarbonate alkalinity (CaCO3)		79.8	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/01/24	1135	2561613
SW846 3005A	ICP-MS 3005A PREP	JD2	02/01/24	0815	2561629

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 4500-S (2-) D	
10	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

QC Summary

Report Date: February 15, 2024

Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia

Contact: **Joju Abraham**

Workorder: **653853**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch 2562344											
QC1205638343 653853001 DUP											
Chloride		7.94		7.97	mg/L	0.41		(0%-20%)	TXT1	02/02/24	02:43
Fluoride	J	0.0968	J	0.0966	mg/L	0.207 ^		(+/-0.100)			
Nitrate-N		0.725		0.731	mg/L	0.865		(0%-20%)			
Sulfate		328		329	mg/L	0.342		(0%-20%)		02/02/24	07:29
QC1205638345 653855010 DUP											
Chloride		5.74		5.73	mg/L	0.171		(0%-20%)		02/02/24	03:46
Fluoride		0.108		0.113	mg/L	5.34 ^		(+/-0.100)			
Nitrate-N		0.152		0.155	mg/L	1.89 ^		(+/-0.100)			
Sulfate		133		133	mg/L	0.0256		(0%-20%)		02/03/24	05:46
QC1205638342 LCS											
Chloride	5.00			4.92	mg/L		98.4	(90%-110%)		02/02/24	06:26
Fluoride	2.50			2.43	mg/L		97.2	(90%-110%)			
Nitrate-N	2.50			2.47	mg/L		98.8	(90%-110%)			
Sulfate	10.0			9.72	mg/L		97.2	(90%-110%)			
QC1205638341 MB											
Chloride			J	0.114	mg/L					02/02/24	05:54

QC Summary

Workorder: **653853**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography											
Batch 2562344											
Fluoride				U	ND	mg/L				TXT1	02/02/24 05:54
Nitrate-N				U	ND	mg/L					
Sulfate				U	ND	mg/L					
QC1205638344 653853001 PS											
Chloride	5.00		7.94		13.7	mg/L		116*	(90%-110%)		02/02/24 03:15
Fluoride	2.50	J	0.0968		2.56	mg/L		98.6	(90%-110%)		
Nitrate-N	2.50		0.725		3.25	mg/L		101	(90%-110%)		
Sulfate	10.0		6.57		16.8	mg/L		102	(90%-110%)		02/02/24 08:59
QC1205638346 653855010 PS											
Chloride	5.00		5.74		11.4	mg/L		113*	(90%-110%)		02/02/24 04:18
Fluoride	2.50		0.108		2.52	mg/L		96.5	(90%-110%)		
Nitrate-N	2.50		0.152		2.62	mg/L		98.9	(90%-110%)		
Sulfate	10.0		13.3		24.4	mg/L		111*	(90%-110%)		02/03/24 06:17
Metals Analysis - ICPMS											
Batch 2562397											
QC1205638453 LCS											
Antimony	0.0500				0.0502	mg/L		100	(80%-120%)	BAJ	02/13/24 21:42
Arsenic	0.0500				0.0509	mg/L		102	(80%-120%)		
Barium	0.0500				0.0520	mg/L		104	(80%-120%)		

QC Summary

Workorder: **653853**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2562397										
Beryllium	0.0500			0.0569	mg/L		114	(80%-120%)	BAJ	02/13/24 21:42
Boron	0.100			0.118	mg/L		118	(80%-120%)		02/14/24 11:28
Cadmium	0.0500			0.0515	mg/L		103	(80%-120%)		02/13/24 21:42
Calcium	2.00			2.06	mg/L		103	(80%-120%)		
Chromium	0.0500			0.0509	mg/L		102	(80%-120%)		
Cobalt	0.0500			0.0523	mg/L		105	(80%-120%)		
Iron	2.00			2.04	mg/L		102	(80%-120%)		
Lead	0.0500			0.0506	mg/L		101	(80%-120%)		
Lithium	0.0500			0.0545	mg/L		109	(80%-120%)		
Magnesium	2.00			2.07	mg/L		103	(80%-120%)		
Manganese	0.0500			0.0505	mg/L		101	(80%-120%)	PRB	02/15/24 12:08
Molybdenum	0.0500			0.0539	mg/L		108	(80%-120%)	BAJ	02/13/24 21:42
Potassium	2.00			2.04	mg/L		102	(80%-120%)		
Selenium	0.0500			0.0498	mg/L		99.7	(80%-120%)		
Sodium	2.00			2.08	mg/L		104	(80%-120%)		

QC Summary

Workorder: **653853**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2562397										
Thallium	0.0500			0.0491	mg/L		98.2	(80%-120%)	BAJ	02/13/24 21:42
QC1205638452 MB										
Antimony			U	ND	mg/L					02/13/24 21:39
Arsenic			U	ND	mg/L					
Barium			U	ND	mg/L					
Beryllium			U	ND	mg/L					
Boron			U	ND	mg/L					02/14/24 11:26
Cadmium			U	ND	mg/L					02/13/24 21:39
Calcium			U	ND	mg/L					
Chromium			U	ND	mg/L					
Cobalt			U	ND	mg/L					
Iron			U	ND	mg/L					
Lead			U	ND	mg/L					
Lithium			U	ND	mg/L					
Magnesium			U	ND	mg/L					
Manganese			U	ND	mg/L				PRB	02/15/24 12:06

QC Summary

Workorder: **653853**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2562397											
Molybdenum				U	ND	mg/L				BAJ	02/13/24 21:39
Potassium				U	ND	mg/L					
Selenium				U	ND	mg/L					
Sodium				U	ND	mg/L					
Thallium				U	ND	mg/L					
QC1205638454 653853001 MS											
Antimony	0.0500	U	ND		0.0495	mg/L		99	(75%-125%)		02/13/24 21:47
Arsenic	0.0500	U	ND		0.0513	mg/L		99.2	(75%-125%)		
Barium	0.0500		0.0179		0.0655	mg/L		95	(75%-125%)		
Beryllium	0.0500		0.00114		0.0562	mg/L		110	(75%-125%)		
Boron	0.100		1.11		1.15	mg/L		N/A	(75%-125%)		02/14/24 11:32
Cadmium	0.0500	U	ND		0.0487	mg/L		97.4	(75%-125%)		02/13/24 21:47
Calcium	2.00		89.3		89.5	mg/L		N/A	(75%-125%)		02/14/24 11:32
Chromium	0.0500	U	ND		0.0496	mg/L		98.6	(75%-125%)		02/13/24 21:47
Cobalt	0.0500		0.00874		0.0574	mg/L		97.4	(75%-125%)		
Iron	2.00		23.8		25.2	mg/L		N/A	(75%-125%)		

QC Summary

Workorder: **653853**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2562397											
Lead	0.0500	U	ND		0.0469	mg/L		93.3	(75%-125%)	BAJ	02/13/24 21:47
Lithium	0.0500	J	0.00337		0.0558	mg/L		105	(75%-125%)		
Magnesium	2.00		10.2		12.0	mg/L		N/A	(75%-125%)		
Manganese	0.0500		1.62		1.66	mg/L		N/A	(75%-125%)	PRB	02/15/24 12:12
Molybdenum	0.0500	U	ND		0.0534	mg/L		107	(75%-125%)	BAJ	02/13/24 21:47
Potassium	2.00		10.6		12.3	mg/L		N/A	(75%-125%)		
Selenium	0.0500	J	0.00229		0.0522	mg/L		99.8	(75%-125%)		
Sodium	2.00		19.6		21.1	mg/L		N/A	(75%-125%)		
Thallium	0.0500	U	ND		0.0462	mg/L		92	(75%-125%)		
QC1205638455 653853001 MSD											
Antimony	0.0500	U	ND		0.0508	mg/L	2.44	101	(0%-20%)		02/13/24 21:50
Arsenic	0.0500	U	ND		0.0533	mg/L	3.79	103	(0%-20%)		
Barium	0.0500		0.0179		0.0663	mg/L	1.24	96.7	(0%-20%)		
Beryllium	0.0500		0.00114		0.0562	mg/L	0.0231	110	(0%-20%)		
Boron	0.100		1.11		1.16	mg/L	1.2	N/A	(0%-20%)		02/14/24 11:33
Cadmium	0.0500	U	ND		0.0505	mg/L	3.54	101	(0%-20%)		02/13/24 21:50

QC Summary

Workorder: **653853**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2562397											
Calcium	2.00		89.3		91.7	mg/L	2.38	N/A	(0%-20%)	BAJ	02/14/24 11:33
Chromium	0.0500	U	ND		0.0503	mg/L	1.43	100	(0%-20%)		02/13/24 21:50
Cobalt	0.0500		0.00874		0.0586	mg/L	2.03	99.7	(0%-20%)		
Iron	2.00		23.8		25.7	mg/L	2.19	N/A	(0%-20%)		
Lead	0.0500	U	ND		0.0479	mg/L	1.97	95.2	(0%-20%)		
Lithium	0.0500	J	0.00337		0.0562	mg/L	0.739	106	(0%-20%)		
Magnesium	2.00		10.2		12.2	mg/L	1.15	N/A	(0%-20%)		
Manganese	0.0500		1.62		1.71	mg/L	2.87	N/A	(0%-20%)	PRB	02/15/24 12:14
Molybdenum	0.0500	U	ND		0.0546	mg/L	2.36	109	(0%-20%)	BAJ	02/13/24 21:50
Potassium	2.00		10.6		12.5	mg/L	2.05	N/A	(0%-20%)		
Selenium	0.0500	J	0.00229		0.0540	mg/L	3.38	103	(0%-20%)		
Sodium	2.00		19.6		21.3	mg/L	0.907	N/A	(0%-20%)		
Thallium	0.0500	U	ND		0.0472	mg/L	2.1	94	(0%-20%)		
QC1205638456 653853001 SDILT											
Antimony		U	ND	U	ND	ug/L	N/A		(0%-20%)		02/13/24 21:56
Arsenic		U	ND	U	ND	ug/L	N/A		(0%-20%)		

QC Summary

Workorder: **653853**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2562397										
Barium		17.9	J	3.72	ug/L	3.6		(0%-20%)	BAJ	02/13/24 21:56
Beryllium		1.14	J	0.225	ug/L	1.32		(0%-20%)		
Boron		111		24.4	ug/L	10.2		(0%-20%)		02/14/24 11:35
Cadmium	U	ND	U	ND	ug/L	N/A		(0%-20%)		02/13/24 21:56
Calcium		8930		1840	ug/L	3.17		(0%-20%)		02/14/24 11:35
Chromium	U	ND	U	ND	ug/L	N/A		(0%-20%)		02/13/24 21:56
Cobalt		8.74		1.74	ug/L	.332		(0%-20%)		
Iron		23800		4800	ug/L	.673		(0%-20%)		
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Lithium	J	3.37	U	ND	ug/L	N/A		(0%-20%)		
Magnesium		10200		1970	ug/L	3.33		(0%-20%)		
Manganese		162		33.5	ug/L	3.38		(0%-20%)	PRB	02/15/24 12:18
Molybdenum	U	ND	U	ND	ug/L	N/A		(0%-20%)	BAJ	02/13/24 21:56
Potassium		10600		1980	ug/L	6.13		(0%-20%)		
Selenium	J	2.29	U	ND	ug/L	N/A		(0%-20%)		

QC Summary

Workorder: **653853**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2562397										
Sodium		19600		3810	ug/L	2.62		(0%-20%)	BAJ	02/13/24 21:56
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Metals Analysis-Mercury										
Batch 2562322										
QC1205638302 653746001 DUP										
Mercury	U	ND	U	ND	mg/L	N/A			JP2	02/05/24 11:39
QC1205638295 LCS										
Mercury	0.00200			0.00190	mg/L		95.1	(80%-120%)		02/05/24 10:55
QC1205638294 MB										
Mercury			U	ND	mg/L					02/05/24 10:54
QC1205638303 653746001 MS										
Mercury	0.00200	U	ND	0.00201	mg/L		101	(75%-125%)		02/05/24 11:41
QC1205638304 653746001 SDILT										
Mercury	U	ND	U	ND	ug/L	N/A		(0%-10%)		02/05/24 11:43
Solids Analysis										
Batch 2564661										
QC1205642691 653855005 DUP										
Total Dissolved Solids		393		389	mg/L	1.02		(0%-5%)	ES2	02/07/24 08:48
QC1205642690 LCS										
Total Dissolved Solids	300			293	mg/L		97.7	(95%-105%)		02/07/24 08:48
QC1205642689 MB										
Total Dissolved Solids			U	ND	mg/L					02/07/24 08:48

QC Summary

Workorder: **653853**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Spectrometric Analysis										
Batch 2562451										
QC1205638594 LCS										
Total Sulfide	0.400			0.403	mg/L		101	(85%-115%)	JW2	02/01/24 16:54
QC1205638593 MB										
Total Sulfide			U	ND	mg/L					02/01/24 16:54
QC1205638595 653853001 PS										
Total Sulfide	0.400 U	ND		0.279	mg/L		69.9*	(75%-125%)		02/01/24 16:54
QC1205638597 653855010 PS										
Total Sulfide	0.400 U	ND		0.234	mg/L		58.6*	(75%-125%)		02/01/24 16:55
QC1205638596 653853001 PSD										
Total Sulfide	0.400 U	ND		0.276	mg/L	1.14	69.1*	(0%-15%)		02/01/24 16:54
QC1205638598 653855010 PSD										
Total Sulfide	0.400 U	ND		0.229	mg/L	2.27	57.2*	(0%-15%)		02/01/24 16:55
Titration and Ion Analysis										
Batch 2562772										
QC1205639166 LCS										
Alkalinity, Total as CaCO3	50.0			51.8	mg/L		104	(90%-110%)	JW2	02/02/24 10:44
QC1205639167 LCS										
Alkalinity, Total as CaCO3	15.0			15.9	mg/L		106	(90%-110%)		02/02/24 10:47
QC1205639168 LCSD										
Alkalinity, Total as CaCO3	50.0			51.6	mg/L	0.387	103	(0%-20%)		02/02/24 10:46
QC1205639169 LCSD										
Alkalinity, Total as CaCO3	15.0			15.9	mg/L	0	106	(0%-20%)		02/02/24 10:48

Notes:

The Qualifiers in this report are defined as follows:

QC Summary

Workorder: **653853**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
N	Metals--The Matrix spike sample recovery is not within specified control limits
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
Z	Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
d	5-day BOD--The 2:1 depletion requirement was not met for this sample
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
E	%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
E	General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
FB	Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
R	Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.
B	The target analyte was detected in the associated blank.
e	5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes
J	See case narrative for an explanation

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

QC Summary

Report Date: February 16, 2024

Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia

Contact: **Joju Abraham**

Workorder: **653909**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch 2562947											
QC1205639512 653909001 DUP											
Chloride		10.6		10.6	mg/L	0.0227		(0%-20%)	TXT1	02/09/24	12:08
Fluoride		0.202		0.200	mg/L	1.05 ^		(+/-0.100)		02/02/24	21:48
Nitrate-N	H	7.85	H	7.87	mg/L	0.237		(0%-20%)		02/09/24	12:08
Sulfate		787		786	mg/L	0.0827		(0%-20%)		02/09/24	13:43
QC1205639514 653909011 DUP											
Chloride		19.2		19.1	mg/L	0.0418 ^		(+/-8.00)		02/10/24	00:21
Fluoride		0.299		0.297	mg/L	0.671 ^		(+/-0.100)		02/02/24	20:44
Nitrate-N	U	ND	J	0.0386	mg/L	200					
Sulfate		355		356	mg/L	0.298		(0%-20%)		02/10/24	00:21
QC1205639511 LCS											
Chloride	5.00			4.96	mg/L		99.3	(90%-110%)		02/02/24	22:51
Fluoride	2.50			2.45	mg/L		97.9	(90%-110%)			
Nitrate-N	2.50			2.48	mg/L		99	(90%-110%)			
Sulfate	10.0			9.80	mg/L		98	(90%-110%)			
QC1205639510 MB											
Chloride			J	0.126	mg/L					02/02/24	23:23

QC Summary

Workorder: 653909

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography											
Batch 2562947											
Fluoride				U	ND	mg/L				TXT1	02/02/24 23:23
Nitrate-N				U	ND	mg/L					
Sulfate				U	ND	mg/L					
QC1205639513 653909001 PS											
Chloride	5.00		5.28		10.9	mg/L		112*	(90%-110%)		02/09/24 12:40
Fluoride	2.50		0.202		2.60	mg/L		96.1	(90%-110%)		02/02/24 22:20
Nitrate-N	2.50	H	3.93	H	6.83	mg/L		116*	(90%-110%)		02/09/24 12:40
Sulfate	10.0		7.87		18.4	mg/L		106	(90%-110%)		02/09/24 14:15
QC1205639515 653909011 PS											
Chloride	5.00		0.479		5.19	mg/L		94.2	(90%-110%)		02/10/24 00:53
Fluoride	2.50		0.299		2.72	mg/L		97	(90%-110%)		02/02/24 21:16
Nitrate-N	2.50	U	ND		2.47	mg/L		99	(90%-110%)		
Sulfate	10.0		8.89		19.2	mg/L		103	(90%-110%)		02/10/24 00:53
Batch 2562950											
QC1205639518 653909013 DUP											
Chloride			6.30		6.31	mg/L	0.1		(0%-20%)	CH6	02/02/24 16:04
Fluoride			0.215		0.216	mg/L	0.324 ^		(+/-0.100)		
Nitrate-N		U	ND	U	ND	mg/L	N/A				

QC Summary

Workorder: **653909**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography										
Batch 2562950										
Sulfate		145		145	mg/L	0.00552		(0%-20%)	CH6	02/02/24 23:47
QC1205639517 LCS										
Chloride	5.00			4.74	mg/L		94.8	(90%-110%)		02/02/24 14:32
Fluoride	2.50			2.41	mg/L		96.4	(90%-110%)		
Nitrate-N	2.50			2.41	mg/L		96.3	(90%-110%)		
Sulfate	10.0			9.73	mg/L		97.3	(90%-110%)		
QC1205639516 MB										
Chloride			J	0.157	mg/L					02/02/24 14:01
Fluoride			U	ND	mg/L					
Nitrate-N			U	ND	mg/L					
Sulfate			U	ND	mg/L					
QC1205639519 653909013 PS										
Chloride	5.00	6.30		12.1	mg/L		115*	(90%-110%)		02/02/24 16:35
Fluoride	2.50	0.215		2.61	mg/L		95.8	(90%-110%)		
Nitrate-N	2.50 U	ND		2.41	mg/L		96.5	(90%-110%)		
Sulfate	10.0	7.25		17.6	mg/L		103	(90%-110%)		02/03/24 00:18

QC Summary

Workorder: **653909**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2563145										
QC1205639784 LCS										
Antimony	0.0500			0.0469	mg/L		93.8	(80%-120%)	PRB	02/14/24 19:34
Arsenic	0.0500			0.0453	mg/L		90.7	(80%-120%)		
Barium	0.0500			0.0483	mg/L		96.7	(80%-120%)		
Beryllium	0.0500			0.0468	mg/L		93.6	(80%-120%)		
Boron	0.100			0.0947	mg/L		94.7	(80%-120%)		
Cadmium	0.0500			0.0465	mg/L		92.9	(80%-120%)		
Calcium	2.00			1.98	mg/L		98.8	(80%-120%)		
Chromium	0.0500			0.0456	mg/L		91.2	(80%-120%)		
Cobalt	0.0500			0.0457	mg/L		91.3	(80%-120%)		
Iron	2.00			1.99	mg/L		99.4	(80%-120%)		02/16/24 02:33
Lead	0.0500			0.0464	mg/L		92.8	(80%-120%)		02/14/24 19:34
Lithium	0.0500			0.0454	mg/L		90.8	(80%-120%)		
Magnesium	2.00			1.92	mg/L		96.2	(80%-120%)		
Manganese	0.0500			0.0533	mg/L		107	(80%-120%)		02/16/24 02:33
Molybdenum	0.0500			0.0469	mg/L		93.8	(80%-120%)		02/14/24 19:34

QC Summary

Workorder: **653909**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2563145										
Potassium	2.00			1.88	mg/L		94.1	(80%-120%)	PRB	02/14/24 19:34
Selenium	0.0500			0.0454	mg/L		90.9	(80%-120%)		
Sodium	2.00			1.90	mg/L		94.9	(80%-120%)		
Thallium	0.0500			0.0429	mg/L		85.8	(80%-120%)		
QC1205639783 MB										
Antimony			U	ND	mg/L					02/14/24 19:30
Arsenic			U	ND	mg/L					
Barium			U	ND	mg/L					
Beryllium			U	ND	mg/L					
Boron			U	ND	mg/L					
Cadmium			U	ND	mg/L					
Calcium			U	ND	mg/L					
Chromium			U	ND	mg/L					
Cobalt			U	ND	mg/L					
Iron			U	ND	mg/L					02/16/24 02:29
Lead			U	ND	mg/L					02/14/24 19:30

QC Summary

Workorder: **653909**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2563145											
Lithium				U	ND	mg/L				PRB	02/14/24 19:30
Magnesium				U	ND	mg/L					
Manganese					0.00356	mg/L					02/16/24 02:29
Molybdenum				U	ND	mg/L					02/14/24 19:30
Potassium				U	ND	mg/L					
Selenium				U	ND	mg/L					
Sodium				U	ND	mg/L					
Thallium				U	ND	mg/L					
QC1205639785 653909001 MS											
Antimony	0.0500	U	ND		0.0486	mg/L		97	(75%-125%)		02/14/24 19:41
Arsenic	0.0500	J	0.00242		0.0511	mg/L		97.4	(75%-125%)		
Barium	0.0500		0.0259		0.0734	mg/L		94.9	(75%-125%)		
Beryllium	0.0500	U	ND		0.0503	mg/L		100	(75%-125%)		
Boron	0.100		0.269		0.328	mg/L		58.6*	(75%-125%)		02/16/24 03:05
Cadmium	0.0500	U	ND		0.0470	mg/L		94	(75%-125%)		02/14/24 19:41
Calcium	2.00		195		195	mg/L		N/A	(75%-125%)		02/16/24 03:05

QC Summary

Workorder: **653909**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2563145											
Chromium	0.0500	U	ND		0.0472	mg/L		94.3	(75%-125%)	PRB	02/14/24 19:41
Cobalt	0.0500		0.131		0.180	mg/L		98.1	(75%-125%)		
Iron	2.00		3.41		5.50	mg/L		105	(75%-125%)		02/16/24 02:47
Lead	0.0500	U	ND		0.0466	mg/L		93.1	(75%-125%)		02/14/24 19:41
Lithium	0.0500		0.0254		0.0748	mg/L		98.9	(75%-125%)		
Magnesium	2.00		79.2		78.1	mg/L		N/A	(75%-125%)		02/16/24 03:05
Manganese	0.0500		9.15		8.95	mg/L		N/A	(75%-125%)		
Molybdenum	0.0500	J	0.000839		0.0510	mg/L		100	(75%-125%)		02/14/24 19:41
Potassium	2.00		10.2		11.9	mg/L		N/A	(75%-125%)		
Selenium	0.0500	U	ND		0.0517	mg/L		103	(75%-125%)		
Sodium	2.00		39.6		43.1	mg/L		N/A	(75%-125%)		
Thallium	0.0500	U	ND		0.0431	mg/L		86.2	(75%-125%)		
QC1205639786 653909001 MSD											
Antimony	0.0500	U	ND		0.0500	mg/L	2.93	99.8	(0%-20%)		02/14/24 19:45
Arsenic	0.0500	J	0.00242		0.0518	mg/L	1.34	98.7	(0%-20%)		
Barium	0.0500		0.0259		0.0758	mg/L	3.25	99.8	(0%-20%)		

QC Summary

Workorder: **653909**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2563145											
Beryllium	0.0500	U	ND		0.0497	mg/L	1.04	99.2	(0%-20%)	PRB	02/14/24 19:45
Boron	0.100		0.269		0.345	mg/L	4.98	75.4	(0%-20%)		02/16/24 03:09
Cadmium	0.0500	U	ND		0.0498	mg/L	5.79	99.6	(0%-20%)		02/14/24 19:45
Calcium	2.00		195		195	mg/L	0.252	N/A	(0%-20%)		02/16/24 03:09
Chromium	0.0500	U	ND		0.0472	mg/L	0.0275	94.3	(0%-20%)		02/14/24 19:45
Cobalt	0.0500		0.131		0.177	mg/L	1.18	93.9	(0%-20%)		
Iron	2.00		3.41		5.50	mg/L	0.114	104	(0%-20%)		02/16/24 02:51
Lead	0.0500	U	ND		0.0471	mg/L	1.06	94.1	(0%-20%)		02/14/24 19:45
Lithium	0.0500		0.0254		0.0743	mg/L	0.659	97.9	(0%-20%)		
Magnesium	2.00		79.2		79.1	mg/L	1.27	N/A	(0%-20%)		02/16/24 03:09
Manganese	0.0500		9.15		9.07	mg/L	1.27	N/A	(0%-20%)		
Molybdenum	0.0500	J	0.000839		0.0536	mg/L	4.92	106	(0%-20%)		02/14/24 19:45
Potassium	2.00		10.2		12.1	mg/L	1.79	N/A	(0%-20%)		
Selenium	0.0500	U	ND		0.0514	mg/L	0.688	102	(0%-20%)		
Sodium	2.00		39.6		42.6	mg/L	1.12	N/A	(0%-20%)		

QC Summary

Workorder: **653909**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2563145											
Thallium	0.0500	U	ND		0.0436	mg/L	1.11	87.2	(0%-20%)	PRB	02/14/24 19:45
QC1205649431 653909001 PS											
Boron	50.0		26.9		75.9	ug/L		98	(75%-125%)		02/16/24 03:13
QC1205639787 653909001 SDILT											
Antimony		U	ND	U	ND	ug/L	N/A		(0%-20%)		02/14/24 19:52
Arsenic		J	2.42	U	ND	ug/L	N/A		(0%-20%)		
Barium			25.9		4.98	ug/L	4.03		(0%-20%)		
Beryllium		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Boron			26.9	U	ND	ug/L	N/A		(0%-20%)		02/16/24 03:16
Cadmium		U	ND	U	ND	ug/L	N/A		(0%-20%)		02/14/24 19:52
Calcium			19500		3770	ug/L	3.43		(0%-20%)		02/16/24 03:16
Chromium		U	ND	U	ND	ug/L	N/A		(0%-20%)		02/14/24 19:52
Cobalt			131		27.9	ug/L	6.76		(0%-20%)		
Iron			3410		707	ug/L	3.61		(0%-20%)		02/16/24 02:58
Lead		U	ND	U	ND	ug/L	N/A		(0%-20%)		02/14/24 19:52
Lithium			25.4	J	4.92	ug/L	3.06		(0%-20%)		

QC Summary

Workorder: **653909**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2563145										
Magnesium		7920		1510	ug/L	4.72		(0%-20%)	PRB	02/16/24 03:16
Manganese		915		177	ug/L	3.38		(0%-20%)		
Molybdenum	J	0.839	U	ND	ug/L	N/A		(0%-20%)		02/14/24 19:52
Potassium		10200		2080	ug/L	1.8		(0%-20%)		
Selenium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Sodium		39600		7940	ug/L	.41		(0%-20%)		
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Batch 2563148										
QC1205639791 LCS										
Antimony	0.0500			0.0469	mg/L		93.8	(80%-120%)	PRB	02/14/24 20:50
Arsenic	0.0500			0.0461	mg/L		92.2	(80%-120%)		
Barium	0.0500			0.0472	mg/L		94.3	(80%-120%)		
Beryllium	0.0500			0.0487	mg/L		97.4	(80%-120%)		
Boron	0.100			0.0999	mg/L		99.9	(80%-120%)		02/16/24 00:30
Cadmium	0.0500			0.0462	mg/L		92.3	(80%-120%)		02/14/24 20:50
Calcium	2.00			1.96	mg/L		98.2	(80%-120%)		
Chromium	0.0500			0.0463	mg/L		92.7	(80%-120%)		

QC Summary

Workorder: **653909**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2563148										
Cobalt	0.0500			0.0477	mg/L		95.5	(80%-120%)	PRB	02/14/24 20:50
Iron	2.00			1.94	mg/L		96.8	(80%-120%)		02/16/24 00:30
Lead	0.0500			0.0464	mg/L		92.7	(80%-120%)		02/14/24 20:50
Lithium	0.0500			0.0468	mg/L		93.6	(80%-120%)		
Magnesium	2.00			1.95	mg/L		97.6	(80%-120%)		
Manganese	0.0500			0.0484	mg/L		96.9	(80%-120%)		02/16/24 00:30
Molybdenum	0.0500			0.0468	mg/L		93.7	(80%-120%)		02/14/24 20:50
Potassium	2.00			1.91	mg/L		95.6	(80%-120%)		
Selenium	0.0500			0.0461	mg/L		92.2	(80%-120%)		
Sodium	2.00			1.94	mg/L		97	(80%-120%)		
Thallium	0.0500			0.0430	mg/L		86.1	(80%-120%)		
QC1205639790 MB										
Antimony			U	ND	mg/L					02/14/24 20:46
Arsenic			U	ND	mg/L					
Barium			U	ND	mg/L					
Beryllium			U	ND	mg/L					

QC Summary

Workorder: **653909**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2563148										
Boron			U	ND	mg/L				PRB	02/16/24 00:26
Cadmium			U	ND	mg/L					02/14/24 20:46
Calcium			U	ND	mg/L					
Chromium			U	ND	mg/L					
Cobalt			U	ND	mg/L					
Iron			U	ND	mg/L					02/16/24 00:26
Lead			U	ND	mg/L					02/14/24 20:46
Lithium			U	ND	mg/L					
Magnesium			U	ND	mg/L					
Manganese			U	ND	mg/L					02/16/24 00:26
Molybdenum			U	ND	mg/L					02/14/24 20:46
Potassium			U	ND	mg/L					
Selenium			U	ND	mg/L					
Sodium			U	ND	mg/L					
Thallium			U	ND	mg/L					

QC Summary

Workorder: **653909**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2563148											
QC1205639792 653909013 MS											
Antimony	0.0500	U	ND		0.0492	mg/L		98.3	(75%-125%)	PRB	02/14/24 21:01
Arsenic	0.0500	U	ND		0.0475	mg/L		93.8	(75%-125%)		
Barium	0.0500		0.0414		0.0886	mg/L		94.4	(75%-125%)		
Beryllium	0.0500	U	ND		0.0499	mg/L		99.8	(75%-125%)		
Boron	0.100		1.61		1.70	mg/L		N/A	(75%-125%)		02/16/24 01:06
Cadmium	0.0500	U	ND		0.0468	mg/L		93.7	(75%-125%)		02/14/24 21:01
Calcium	2.00		36.4		38.8	mg/L		N/A	(75%-125%)		
Chromium	0.0500	U	ND		0.0488	mg/L		97.6	(75%-125%)		
Cobalt	0.0500	J	0.000420		0.0496	mg/L		98.3	(75%-125%)		
Iron	2.00		1.03		3.05	mg/L		101	(75%-125%)		02/16/24 00:48
Lead	0.0500	U	ND		0.0474	mg/L		94.8	(75%-125%)		02/14/24 21:01
Lithium	0.0500		0.0122		0.0616	mg/L		98.8	(75%-125%)		
Magnesium	2.00		17.5		19.5	mg/L		N/A	(75%-125%)		
Manganese	0.0500		0.554		0.607	mg/L		N/A	(75%-125%)		02/16/24 00:48
Molybdenum	0.0500	J	0.000564		0.0506	mg/L		100	(75%-125%)		02/14/24 21:01

QC Summary

Workorder: **653909**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2563148											
Potassium	2.00		4.46		6.42	mg/L		98.3	(75%-125%)	PRB	02/14/24 21:01
Selenium	0.0500	U	ND		0.0465	mg/L		92.8	(75%-125%)		
Sodium	2.00		17.6		19.7	mg/L		N/A	(75%-125%)		
Thallium	0.0500	U	ND		0.0451	mg/L		90.1	(75%-125%)		
QC1205639793 653909013 MSD											
Antimony	0.0500	U	ND		0.0489	mg/L	0.61	97.7	(0%-20%)		02/14/24 21:04
Arsenic	0.0500	U	ND		0.0488	mg/L	2.84	96.5	(0%-20%)		
Barium	0.0500		0.0414		0.0905	mg/L	2.1	98.1	(0%-20%)		
Beryllium	0.0500	U	ND		0.0490	mg/L	1.81	98.1	(0%-20%)		
Boron	0.100		1.61		1.62	mg/L	4.69	N/A	(0%-20%)		02/16/24 01:10
Cadmium	0.0500	U	ND		0.0481	mg/L	2.6	96.2	(0%-20%)		02/14/24 21:04
Calcium	2.00		36.4		38.2	mg/L	1.51	N/A	(0%-20%)		
Chromium	0.0500	U	ND		0.0479	mg/L	1.86	95.8	(0%-20%)		
Cobalt	0.0500	J	0.000420		0.0492	mg/L	0.716	97.6	(0%-20%)		
Iron	2.00		1.03		3.11	mg/L	1.98	104	(0%-20%)		02/16/24 00:52
Lead	0.0500	U	ND		0.0462	mg/L	2.63	92.3	(0%-20%)		02/14/24 21:04

QC Summary

Workorder: **653909**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2563148											
Lithium	0.0500		0.0122		0.0595	mg/L	3.47	94.7	(0%-20%)	PRB	02/14/24 21:04
Magnesium	2.00		17.5		19.1	mg/L	1.88	N/A	(0%-20%)		
Manganese	0.0500		0.554		0.618	mg/L	1.78	N/A	(0%-20%)		02/16/24 00:52
Molybdenum	0.0500	J	0.000564		0.0508	mg/L	0.361	100	(0%-20%)		02/14/24 21:04
Potassium	2.00		4.46		6.34	mg/L	1.27	94.2	(0%-20%)		
Selenium	0.0500	U	ND		0.0489	mg/L	5.03	97.6	(0%-20%)		
Sodium	2.00		17.6		19.2	mg/L	2.68	N/A	(0%-20%)		
Thallium	0.0500	U	ND		0.0442	mg/L	1.97	88.4	(0%-20%)		
QC1205639794 653909013 SDILT											
Antimony		U	ND	U	ND	ug/L	N/A		(0%-20%)		02/14/24 21:11
Arsenic		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Barium			41.4		7.99	ug/L	3.47		(0%-20%)		
Beryllium		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Boron			161		33.3	ug/L	3.57		(0%-20%)		02/16/24 01:17
Cadmium		U	ND	U	ND	ug/L	N/A		(0%-20%)		02/14/24 21:11
Calcium			36400		7250	ug/L	.299		(0%-20%)		

QC Summary

Workorder: **653909**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2563148										
Chromium	U	ND	U	ND	ug/L	N/A		(0%-20%)	PRB	02/14/24 21:11
Cobalt	J	0.420	U	ND	ug/L	N/A		(0%-20%)		
Iron		1030		200	ug/L	3.35		(0%-20%)		02/16/24 00:59
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)		02/14/24 21:11
Lithium		12.2	U	ND	ug/L	N/A		(0%-20%)		
Magnesium		17500		3540	ug/L	1.11		(0%-20%)		
Manganese		554		107	ug/L	3.54		(0%-20%)		02/16/24 00:59
Molybdenum	J	0.564	U	ND	ug/L	N/A		(0%-20%)		02/14/24 21:11
Potassium		4460		894	ug/L	.232		(0%-20%)		
Selenium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Sodium		17600		3550	ug/L	.83		(0%-20%)		
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Metals Analysis-Mercury										
Batch 2563281										
QC1205640117 653892003 DUP										
Mercury	U	ND	U	ND	mg/L	N/A			JP2	02/06/24 11:53
QC1205640116 LCS										
Mercury	0.00200			0.00195	mg/L		97.4	(80%-120%)		02/06/24 11:29

QC Summary

Workorder: 653909

Parmname			NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis-Mercury													
Batch 2563281													
QC1205640115 MB													
Mercury						U	ND	mg/L				JP2	02/06/24 11:27
QC1205640118	653892003	MS											
Mercury			0.00200	U	ND		0.00192	mg/L		96.2	(75%-125%)		02/06/24 11:55
QC1205640119	653892003	SDILT											
Mercury				U	ND	U	ND	ug/L	N/A		(0%-10%)		02/06/24 11:57
Batch 2563285													
QC1205640129	653922001	DUP											
Mercury				U	ND	U	ND	mg/L	N/A			JP2	02/06/24 10:11
QC1205640128 LCS													
Mercury			0.00200				0.00203	mg/L		101	(80%-120%)		02/06/24 09:43
QC1205640127 MB													
Mercury						U	ND	mg/L					02/06/24 09:42
QC1205640130	653922001	MS											
Mercury			0.00200	U	ND		0.00194	mg/L		97	(75%-125%)		02/06/24 10:13
QC1205640131	653922001	SDILT											
Mercury				U	ND	U	ND	ug/L	N/A		(0%-10%)		02/06/24 10:14
Solids Analysis													
Batch 2565277													
QC1205643759	653909001	DUP											
Total Dissolved Solids					1330		1310	mg/L	1.37		(0%-5%)	ES2	02/08/24 08:04
QC1205643760	653909015	DUP											
Total Dissolved Solids					4420		3900	mg/L	12.5*		(0%-5%)		02/08/24 08:04

QC Summary

Workorder: **653909**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Solids Analysis										
Batch 2565277										
QC1205643758 LCS										
Total Dissolved Solids	300			308	mg/L		103	(95%-105%)	ES2	02/08/24 08:04
QC1205643757 MB										
Total Dissolved Solids			U	ND	mg/L					02/08/24 08:04
Batch 2565278										
QC1205643765 654364002 DUP										
Total Dissolved Solids		365		399	mg/L	8.9*		(0%-5%)	ES2	02/08/24 08:46
QC1205643762 LCS										
Total Dissolved Solids	300			301	mg/L		100	(95%-105%)		02/08/24 08:46
QC1205643761 MB										
Total Dissolved Solids			U	ND	mg/L					02/08/24 08:46
Spectrometric Analysis										
Batch 2562850										
QC1205639329 LCS										
Total Sulfide	0.400			0.400	mg/L		100	(85%-115%)	JW2	02/02/24 13:04
QC1205639328 MB										
Total Sulfide			U	ND	mg/L					02/02/24 13:04
QC1205639330 653686004 PS										
Total Sulfide	0.400	U ND		0.408	mg/L		102	(75%-125%)		02/02/24 13:04
QC1205639331 653686004 PSD										
Total Sulfide	0.400	U ND		0.406	mg/L	0.516	101	(0%-15%)		02/02/24 13:04
Batch 2562851										
QC1205639333 LCS										
Total Sulfide	0.400			0.401	mg/L		100	(85%-115%)	JW2	02/02/24 13:24

QC Summary

Workorder: 653909

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Spectrometric Analysis										
Batch 2562851										
QC1205639332 MB										
Total Sulfide			U	ND	mg/L				JW2	02/02/24 13:24
QC1205639334 653909005 PS										
Total Sulfide	0.400 U	ND		0.150	mg/L		37.6*	(75%-125%)		02/02/24 13:24
QC1205639336 653909020 PS										
Total Sulfide	0.400 U	ND		0.367	mg/L		91.7	(75%-125%)		02/02/24 13:25
QC1205639335 653909005 PSD										
Total Sulfide	0.400 U	ND		0.146	mg/L	2.83	36.6*	(0%-15%)		02/02/24 13:24
QC1205639337 653909020 PSD										
Total Sulfide	0.400 U	ND		0.368	mg/L	0.286	92	(0%-15%)		02/02/24 13:25
Titration and Ion Analysis										
Batch 2562852										
QC1205639340 LCS										
Alkalinity, Total as CaCO3	50.0			51.9	mg/L		104	(90%-110%)	JW2	02/02/24 11:52
QC1205639341 LCS										
Alkalinity, Total as CaCO3	15.0			15.0	mg/L		100	(90%-110%)		02/02/24 11:54
QC1205639342 LCSD										
Alkalinity, Total as CaCO3	50.0			52.2	mg/L	0.576	104	(0%-20%)		02/02/24 11:53
QC1205639343 LCSD										
Alkalinity, Total as CaCO3	15.0			15.7	mg/L	4.56	105	(0%-20%)		02/02/24 11:55
Batch 2562854										
QC1205639344 LCS										
Alkalinity, Total as CaCO3	50.0			51.6	mg/L		103	(90%-110%)	JW2	02/02/24 12:11

QC Summary

Workorder: **653909**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Titration and Ion Analysis										
Batch 2562854										
QC1205639345 LCS										
Alkalinity, Total as CaCO3	15.0			15.0	mg/L		100	(90%-110%)	JW2	02/02/24 12:14
QC1205639346 LCSD										
Alkalinity, Total as CaCO3	50.0			51.9	mg/L	0.58	104	(0%-20%)		02/02/24 12:12
QC1205639347 LCSD										
Alkalinity, Total as CaCO3	15.0			15.9	mg/L	5.83	106	(0%-20%)		02/02/24 12:15

Notes:

The Qualifiers in this report are defined as follows:

U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
N	Metals--The Matrix spike sample recovery is not within specified control limits
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
Z	Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
d	5-day BOD--The 2:1 depletion requirement was not met for this sample
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
E	%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
E	General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
FB	Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
R	Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.

QC Summary

Workorder: **653909**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

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.

QC Summary

Report Date: February 14, 2024

Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia

Contact: **Joju Abraham**

Workorder: **653582**

Parmname	NOM		Sample	Qual	QC	Units	RPD%		REC%	Range	Anlst	Date	Time
Ion Chromatography													
Batch 2561599													
QC1205637122 653570001 DUP													
Chloride			2.14		2.13	mg/L	0.501			(0%-20%)	CH6	01/31/24	17:39
Fluoride			0.184		0.189	mg/L	2.79	^		(+/-0.100)			
Nitrate-N			0.275		0.273	mg/L	0.803	^		(+/-0.100)			
Sulfate			0.423		0.411	mg/L	2.83	^		(+/-0.400)			
QC1205637124 653582003 DUP													
Chloride			6.36		6.34	mg/L	0.331			(0%-20%)		02/01/24	01:22
Fluoride			0.242		0.245	mg/L	1.23	^		(+/-0.100)			
Nitrate-N		J	0.0660	U	ND	mg/L	200	^					
Sulfate			42.4		42.2	mg/L	0.475			(0%-20%)		02/01/24	18:29
QC1205637121 LCS													
Chloride	5.00				4.83	mg/L			96.7	(90%-110%)		01/31/24	16:06
Fluoride	2.50				2.39	mg/L			95.6	(90%-110%)			
Nitrate-N	2.50				2.39	mg/L			95.5	(90%-110%)			
Sulfate	10.0				9.77	mg/L			97.7	(90%-110%)			
QC1205637120 MB													
Chloride				U	ND	mg/L						01/31/24	15:36

QC Summary

Workorder: 653582

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography											
Batch 2561599											
Fluoride				U	ND	mg/L				CH6	01/31/24 15:36
Nitrate-N				U	ND	mg/L					
Sulfate				U	ND	mg/L					
QC1205637123 653570001 PS											
Chloride	5.00		2.14		7.30	mg/L		103	(90%-110%)		01/31/24 17:08
Fluoride	2.50		0.184		2.62	mg/L		97.5	(90%-110%)		
Nitrate-N	2.50		0.275		2.68	mg/L		96	(90%-110%)		
Sulfate	10.0		0.423		10.3	mg/L		98.4	(90%-110%)		
QC1205637125 653582003 PS											
Chloride	5.00		6.36		12.1	mg/L		115*	(90%-110%)		02/01/24 01:53
Fluoride	2.50		0.242		2.67	mg/L		97.1	(90%-110%)		
Nitrate-N	2.50	J	0.0660		2.45	mg/L		95.5	(90%-110%)		
Sulfate	10.0		8.49		18.9	mg/L		104	(90%-110%)		02/02/24 22:46
Metals Analysis - ICPMS											
Batch 2561630											
QC1205637184 LCS											
Antimony	0.0500				0.0489	mg/L		97.9	(80%-120%)	PRB	02/10/24 00:33
Arsenic	0.0500				0.0497	mg/L		99.4	(80%-120%)		
Barium	0.0500				0.0517	mg/L		103	(80%-120%)		

QC Summary

Workorder: **653582**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2561630										
Beryllium	0.0500			0.0563	mg/L		113	(80%-120%)	PRB	02/10/24 00:33
Boron	0.100			0.113	mg/L		113	(80%-120%)		02/12/24 13:08
Cadmium	0.0500			0.0505	mg/L		101	(80%-120%)		02/10/24 00:33
Calcium	2.00			2.14	mg/L		107	(80%-120%)		02/12/24 13:08
Chromium	0.0500			0.0488	mg/L		97.5	(80%-120%)		02/10/24 00:33
Cobalt	0.0500			0.0499	mg/L		99.8	(80%-120%)		
Iron	2.00			1.97	mg/L		98.4	(80%-120%)		
Lead	0.0500			0.0495	mg/L		98.9	(80%-120%)		
Lithium	0.0500			0.0535	mg/L		107	(80%-120%)		
Magnesium	2.00			2.24	mg/L		112	(80%-120%)		02/12/24 13:08
Manganese	0.0500			0.0506	mg/L		101	(80%-120%)		02/13/24 09:46
Molybdenum	0.0500			0.0522	mg/L		104	(80%-120%)		02/10/24 00:33
Potassium	2.00			2.06	mg/L		103	(80%-120%)		
Selenium	0.0500			0.0501	mg/L		100	(80%-120%)		
Sodium	2.00			2.09	mg/L		105	(80%-120%)		

QC Summary

Workorder: **653582**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2561630										
Thallium	0.0500			0.0486	mg/L		97.1	(80%-120%)	PRB	02/10/24 00:33
QC1205637183 MB										
Antimony			U	ND	mg/L					02/10/24 00:30
Arsenic			U	ND	mg/L					
Barium			U	ND	mg/L					
Beryllium			U	ND	mg/L					
Boron			U	ND	mg/L					02/12/24 13:07
Cadmium			U	ND	mg/L					02/10/24 00:30
Calcium			U	ND	mg/L					02/12/24 13:07
Chromium			U	ND	mg/L					02/10/24 00:30
Cobalt			U	ND	mg/L					
Iron			U	ND	mg/L					
Lead			U	ND	mg/L					
Lithium			U	ND	mg/L					
Magnesium			U	ND	mg/L					02/12/24 13:07
Manganese			U	ND	mg/L					02/13/24 09:44

QC Summary

Workorder: **653582**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2561630											
Molybdenum				U	ND	mg/L				PRB	02/10/24 00:30
Potassium				U	ND	mg/L					
Selenium				U	ND	mg/L					
Sodium				U	ND	mg/L					
Thallium				U	ND	mg/L					
QC1205637185 653570001 MS											
Antimony	0.0500	U	ND		0.0501	mg/L		100	(75%-125%)		02/10/24 00:39
Arsenic	0.0500	U	ND		0.0502	mg/L		99.2	(75%-125%)		
Barium	0.0500		0.0137		0.0660	mg/L		105	(75%-125%)		
Beryllium	0.0500	U	ND		0.0590	mg/L		118	(75%-125%)		
Boron	0.100	U	ND		0.117	mg/L		113	(75%-125%)		02/12/24 13:12
Cadmium	0.0500	U	ND		0.0504	mg/L		101	(75%-125%)		02/10/24 00:39
Calcium	2.00		5.25		7.52	mg/L		114	(75%-125%)		02/12/24 13:12
Chromium	0.0500	J	0.00854		0.0593	mg/L		102	(75%-125%)		02/10/24 00:39
Cobalt	0.0500	J	0.000962		0.0528	mg/L		104	(75%-125%)		
Iron	2.00		0.119		2.17	mg/L		102	(75%-125%)		

QC Summary

Workorder: **653582**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2561630											
Lead	0.0500	U	ND		0.0500	mg/L		99.9	(75%-125%)	PRB	02/10/24 00:39
Lithium	0.0500	U	ND		0.0565	mg/L		112	(75%-125%)		
Magnesium	2.00		5.36		7.64	mg/L		114	(75%-125%)		02/12/24 13:12
Manganese	0.0500		0.0378		0.0910	mg/L		106	(75%-125%)		02/13/24 09:50
Molybdenum	0.0500	U	ND		0.0533	mg/L		107	(75%-125%)		02/10/24 00:39
Potassium	2.00		0.443		2.53	mg/L		104	(75%-125%)		
Selenium	0.0500	U	ND		0.0507	mg/L		101	(75%-125%)		
Sodium	2.00		3.51		5.63	mg/L		106	(75%-125%)		
Thallium	0.0500	U	ND		0.0487	mg/L		97.4	(75%-125%)		
QC1205637186 653570001 MSD											
Antimony	0.0500	U	ND		0.0507	mg/L	1.1	101	(0%-20%)		02/10/24 00:42
Arsenic	0.0500	U	ND		0.0511	mg/L	1.87	101	(0%-20%)		
Barium	0.0500		0.0137		0.0668	mg/L	1.3	106	(0%-20%)		
Beryllium	0.0500	U	ND		0.0605	mg/L	2.57	121	(0%-20%)		
Boron	0.100	U	ND		0.120	mg/L	3.14	117	(0%-20%)		02/12/24 13:13
Cadmium	0.0500	U	ND		0.0510	mg/L	1.22	102	(0%-20%)		02/10/24 00:42

QC Summary

Workorder: **653582**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2561630											
Calcium	2.00		5.25		7.64	mg/L	1.52	119	(0%-20%)	PRB	02/12/24 13:13
Chromium	0.0500	J	0.00854		0.0592	mg/L	0.14	101	(0%-20%)		02/10/24 00:42
Cobalt	0.0500	J	0.000962		0.0531	mg/L	0.648	104	(0%-20%)		
Iron	2.00		0.119		2.21	mg/L	2.09	105	(0%-20%)		
Lead	0.0500	U	ND		0.0512	mg/L	2.45	102	(0%-20%)		
Lithium	0.0500	U	ND		0.0571	mg/L	1.03	113	(0%-20%)		
Magnesium	2.00		5.36		7.84	mg/L	2.67	124	(0%-20%)		02/12/24 13:13
Manganese	0.0500		0.0378		0.0910	mg/L	0.0418	106	(0%-20%)		02/13/24 09:52
Molybdenum	0.0500	U	ND		0.0540	mg/L	1.23	108	(0%-20%)		02/10/24 00:42
Potassium	2.00		0.443		2.59	mg/L	2.49	107	(0%-20%)		
Selenium	0.0500	U	ND		0.0514	mg/L	1.48	103	(0%-20%)		
Sodium	2.00		3.51		5.75	mg/L	2.27	112	(0%-20%)		
Thallium	0.0500	U	ND		0.0494	mg/L	1.48	98.8	(0%-20%)		
QC1205637187 653570001 SDILT											
Antimony		U	ND	U	ND	ug/L	N/A		(0%-20%)		02/10/24 00:47
Arsenic		U	ND	U	ND	ug/L	N/A		(0%-20%)		

QC Summary

Workorder: **653582**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2561630										
Barium		13.7	J	2.52	ug/L	7.99		(0%-20%)	PRB	02/10/24 00:47
Beryllium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Boron	U	ND	U	ND	ug/L	N/A		(0%-20%)		02/12/24 13:15
Cadmium	U	ND	U	ND	ug/L	N/A		(0%-20%)		02/10/24 00:47
Calcium		5250		1040	ug/L	.721		(0%-20%)		02/12/24 13:15
Chromium	J	8.54	U	ND	ug/L	N/A		(0%-20%)		02/10/24 00:47
Cobalt	J	0.962	U	ND	ug/L	N/A		(0%-20%)		
Iron		119	U	ND	ug/L	N/A		(0%-20%)		
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Lithium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Magnesium		5360		997	ug/L	7.04		(0%-20%)		02/12/24 13:15
Manganese		37.8		7.44	ug/L	1.55		(0%-20%)		02/13/24 09:56
Molybdenum	U	ND	U	ND	ug/L	N/A		(0%-20%)		02/10/24 00:47
Potassium		443	J	82.7	ug/L	6.62		(0%-20%)		
Selenium	U	ND	U	ND	ug/L	N/A		(0%-20%)		

QC Summary

Workorder: **653582**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2561630										
Sodium		3510		643	ug/L	8.27		(0%-20%)	PRB	02/10/24 00:47
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Metals Analysis-Mercury										
Batch 2561614										
QC1205637176 653616001 DUP										
Mercury	U	ND	U	ND	mg/L	N/A			JP2	02/02/24 13:24
QC1205637172 LCS										
Mercury	0.00200			0.00174	mg/L		86.8	(80%-120%)		02/02/24 12:47
QC1205637171 MB										
Mercury			U	ND	mg/L					02/02/24 12:45
QC1205637177 653616001 MS										
Mercury	0.00200	U	ND	0.00180	mg/L		89.2	(75%-125%)		02/02/24 13:26
QC1205637178 653616001 SDILT										
Mercury	U	ND	U	ND	ug/L	N/A		(0%-10%)		02/02/24 13:28
Solids Analysis										
Batch 2563910										
QC1205641440 653575002 DUP										
Total Dissolved Solids		502		509	mg/L	1.38		(0%-5%)	ES2	02/06/24 08:07
QC1205641438 LCS										
Total Dissolved Solids	300			297	mg/L		99	(95%-105%)		02/06/24 08:07
QC1205641437 MB										
Total Dissolved Solids			U	ND	mg/L					02/06/24 08:07

QC Summary

Workorder: **653582**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Spectrometric Analysis										
Batch 2561631										
QC1205637189 LCS										
Total Sulfide	0.400			0.401	mg/L		100	(85%-115%)	JW2	01/31/24 16:37
QC1205637188 MB										
Total Sulfide			U	ND	mg/L					01/31/24 16:37
QC1205637190 653570001 PS										
Total Sulfide	0.400 U	ND		0.421	mg/L		105	(75%-125%)		01/31/24 16:38
QC1205637192 653582003 PS										
Total Sulfide	0.400 U	ND		0.294	mg/L		73.5*	(75%-125%)		01/31/24 16:38
QC1205637191 653570001 PSD										
Total Sulfide	0.400 U	ND		0.418	mg/L	0.75	104	(0%-15%)		01/31/24 16:38
QC1205637193 653582003 PSD										
Total Sulfide	0.400 U	ND		0.289	mg/L	1.8	72.2*	(0%-15%)		01/31/24 16:38
Titration and Ion Analysis										
Batch 2561936										
QC1205637749 LCS										
Alkalinity, Total as CaCO3	50.0			52.3	mg/L		105	(90%-110%)	JW2	02/01/24 10:50
QC1205637750 LCS										
Alkalinity, Total as CaCO3	15.0			15.1	mg/L		101	(90%-110%)		02/01/24 10:54
QC1205637751 LCSD										
Alkalinity, Total as CaCO3	50.0			52.1	mg/L	0.383	104	(0%-20%)		02/01/24 10:52
QC1205637752 LCSD										
Alkalinity, Total as CaCO3	15.0			15.2	mg/L	0.66	101	(0%-20%)		02/01/24 10:55

Notes:

The Qualifiers in this report are defined as follows:

QC Summary

Workorder: **653582**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
N	Metals--The Matrix spike sample recovery is not within specified control limits
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
Z	Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
d	5-day BOD--The 2:1 depletion requirement was not met for this sample
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
E	%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
E	General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
FB	Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
R	Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.
B	The target analyte was detected in the associated blank.
e	5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes
J	See case narrative for an explanation

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Technical Case Narrative
Georgia Power Company
SDG #: 653853

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2562397

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 14
Preparation Batch: 2562396

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
653853001	BRA-BRGWC-29I
653853002	BRA-BRGWC-25I
653853003	BRA-BRGWC-27I
653853004	BRA-APBCD-FB-01
1205638452	Method Blank (MB)**ICP-MS**
1205638453	Laboratory Control Sample (LCS)
1205638456	653853001(BRA-BRGWC-29IL) Serial Dilution (SD)
1205638454	653853001(BRA-BRGWC-29IS) Matrix Spike (MS)
1205638455	653853001(BRA-BRGWC-29ISD) 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 653853001 (BRA-BRGWC-29I), 653853002 (BRA-BRGWC-25I) and 653853003 (BRA-BRGWC-27I) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument.

Analyte	653853		
	001	002	003
Boron	10X	10X	10X

Calcium	10X	10X	10X
Manganese	10X	10X	10X

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**
Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 40
Analytical Batch: 2562322

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 40
Preparation Batch: 2562321

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
653853001	BRA-BRGWC-29I
653853002	BRA-BRGWC-25I
653853003	BRA-BRGWC-27I
653853004	BRA-APBCD-FB-01
1205638294	Method Blank (MB)**CVAA**
1205638295	Laboratory Control Sample (LCS)
1205638304	653746001(NonSDGL) Serial Dilution (SD)
1205638302	653746001(NonSDGD) Sample Duplicate (DUP)
1205638303	653746001(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# 34
Analytical Batch: 2562344

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
653853001	BRA-BRGWC-29I
653853002	BRA-BRGWC-25I
653853003	BRA-BRGWC-27I
653853004	BRA-APBCD-FB-01
1205638341	Method Blank (MB)
1205638342	Laboratory Control Sample (LCS)
1205638343	653853001(BRA-BRGWC-29I) Sample Duplicate (DUP)
1205638344	653853001(BRA-BRGWC-29I) Post Spike (PS)

1205638345 653855010(BRA-PZ-70I) Sample Duplicate (DUP)
1205638346 653855010(BRA-PZ-70I) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Matrix Spike (MS)/Post Spike (PS) Recovery Statement
The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Chloride	1205638344 (BRA-BRGWC-29IPS)	116* (90%-110%)
	1205638346 (BRA-PZ-70IPS)	113* (90%-110%)
Sulfate	1205638346 (BRA-PZ-70IPS)	111* (90%-110%)

Technical Information

Sample Dilutions
The following samples 1205638343 (BRA-BRGWC-29IDUP), 1205638344 (BRA-BRGWC-29IPS), 1205638345 (BRA-PZ-70IDUP), 1205638346 (BRA-PZ-70IPS), 653853001 (BRA-BRGWC-29I), 653853002 (BRA-BRGWC-25I) and 653853003 (BRA-BRGWC-27I) were diluted because target analyte concentrations exceeded the calibration range. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	653853		
	001	002	003
Sulfate	50X	20X	20X

Miscellaneous Information

Manual Integrations
Samples 1205638345 (BRA-PZ-70IDUP), 653853002 (BRA-BRGWC-25I) and 653853003 (BRA-BRGWC-27I) were 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: 2564661

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
653853001	BRA-BRGWC-29I
653853002	BRA-BRGWC-25I
653853003	BRA-BRGWC-27I
653853004	BRA-APBCD-FB-01
1205642689	Method Blank (MB)
1205642690	Laboratory Control Sample (LCS)
1205642691	653855005(BRA-BRGWC-38S) 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: **Sulfide, Total**
Analytical Method: SM 4500-S (2-) D
Analytical Procedure: GL-GC-E-052 REV# 13
Analytical Batch: 2562451

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
653853001	BRA-BRGWC-29I
653853002	BRA-BRGWC-25I
653853003	BRA-BRGWC-27I
653853004	BRA-APBCD-FB-01
1205638593	Method Blank (MB)
1205638594	Laboratory Control Sample (LCS)
1205638595	653853001(BRA-BRGWC-29I) Post Spike (PS)
1205638596	653853001(BRA-BRGWC-29I) Post Spike Duplicate (PSD)
1205638597	653855010(BRA-PZ-70I) Post Spike (PS)
1205638598	653855010(BRA-PZ-70I) Post Spike Duplicate (PSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Matrix Spike (MS)/Post Spike (PS) Recovery Statement
The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value

Total Sulfide	1205638595 (BRA-BRGWC-29IPS)	69.9* (75%-125%)
	1205638596 (BRA-BRGWC-29IPSD)	69.1* (75%-125%)
	1205638597 (BRA-PZ-70IPS)	58.6* (75%-125%)
	1205638598 (BRA-PZ-70IPSD)	57.2* (75%-125%)

Product: **Alkalinity**
Analytical Method: SM 2320B
Analytical Procedure: GL-GC-E-033 REV# 16
Analytical Batch: 2562772

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
653853001	BRA-BRGWC-29I
653853002	BRA-BRGWC-25I
653853003	BRA-BRGWC-27I
653853004	BRA-APBCD-FB-01
1205639166	Laboratory Control Sample (LCS)
1205639167	Laboratory Control Sample (LCS)
1205639168	Laboratory Control Sample Duplicate (LCSD)
1205639169	Laboratory Control Sample Duplicate (LCSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Laboratory Control Sample Duplicate (LCSD)
An LCSD was used in place of matrix QC due to limited sample volume.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Technical Case Narrative
Georgia Power Company
SDG #: 653909

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2563145

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2563142

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
653909001	BRA-PZ-50D
653909002	BRA-APBCD-EB-05
653909003	BRA-BRGWC-50
653909004	BRA-APBCD-FB-03
653909005	BRA-BRGWC-45
653909006	BRA-PZ-58I
653909007	BRA-PZ-60I
653909008	BRA-PZ-61I
653909009	BRA-PZ-51I
653909010	BRA-APBCD-FD-03
653909011	BRA-PZ-51D
1205639783	Method Blank (MB)**ICP-MS**
1205639784	Laboratory Control Sample (LCS)
1205639787	653909001(BRA-PZ-50DL) Serial Dilution (SD)
1205639785	653909001(BRA-PZ-50DS) Matrix Spike (MS)
1205639786	653909001(BRA-PZ-50DSD) Matrix Spike Duplicate (MSD)
1205649431	653909001(BRA-PZ-50DPS) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Quality Control (QC) Information

Method Blank (MB) Statement
The samples in this SDG contained analytes at concentrations more than ten times the amount present in the method

blank, therefore the data was not adversely affected. 653909001 (BRA-PZ-50D), 653909003 (BRA-BRGWC-50), 653909005 (BRA-BRGWC-45), 653909006 (BRA-PZ-58I), 653909007 (BRA-PZ-60I), 653909008 (BRA-PZ-61I), 653909009 (BRA-PZ-51I), 653909010 (BRA-APBCD-FD-03) and 653909011 (BRA-PZ-51D). The samples in this SDG did not contain the above noted analytes at concentrations higher than the RDL, therefore the data was not adversely affected. 653909002 (BRA-APBCD-EB-05) and 653909004 (BRA-APBCD-FB-03). Manganese was high in the Method Blank.

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 recovery was within the required control limits. This verifies the absence of a matrix interference in the post-spike digested sample. The recovery may be attributed to possible sample matrix interference and/or non-homogeneity.

Sample	Analyte	Value
1205639785 (BRA-PZ-50DMS)	Boron	58.6* (75%-125%)

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 653909001 (BRA-PZ-50D), 653909003 (BRA-BRGWC-50), 653909006 (BRA-PZ-58I), 653909007 (BRA-PZ-60I), 653909008 (BRA-PZ-61I), 653909009 (BRA-PZ-51I), 653909010 (BRA-APBCD-FD-03) and 653909011 (BRA-PZ-51D) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument.

Analyte	653909							
	001	003	006	007	008	009	010	011
Boron	10X	5X	5X	5X	5X	5X	10X	1X
Calcium	10X	5X	5X	500X	5X	5X	10X	10X
Cobalt	1X	5X	1X	5X	1X	1X	10X	1X
Iron	1X	1X	100X	1X	1X	1X	1X	1X
Magnesium	10X	5X	5X	5X	5X	5X	10X	1X
Manganese	10X	100X	100X	500X	500X	500X	1000X	10X
Sodium	1X	1X	1X	5X	5X	1X	10X	1X

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2563148

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2563146

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
653909012	BRA-APBCD-EB-04

653909013	BRA-BRGWC-52I
653909014	BRA-PZ-63I
653909015	BRA-PZ-64I
653909016	BRA-APBCD-FD-02
653909017	BRA-APBCD-FB-02
653909018	BRA-PZ-74I
653909019	BRA-APBCD-EB-06
653909020	BRA-PZ-68D
653909021	BRA-PZ-75I
1205639790	Method Blank (MB)**ICP-MS**
1205639791	Laboratory Control Sample (LCS)
1205639794	653909013(BRA-BRGWC-52IL) Serial Dilution (SD)
1205639792	653909013(BRA-BRGWC-52IS) Matrix Spike (MS)
1205639793	653909013(BRA-BRGWC-52ISD) 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 653909013 (BRA-BRGWC-52I), 653909014 (BRA-PZ-63I), 653909015 (BRA-PZ-64I), 653909016 (BRA-APBCD-FD-02), 653909018 (BRA-PZ-74I), 653909020 (BRA-PZ-68D) and 653909021 (BRA-PZ-75I) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument.

Analyte	653909						
	013	**014**	**015**	**016**	**018**	**020**	**021**
Boron	10X	10X	1X	10X	10X	5X	10X
Calcium	1X	10X	10X	1X	10X	5X	10X
Cobalt	1X	1X	10X	1X	1X	1X	1X
Magnesium	1X	1X	10X	1X	1X	1X	1X
Manganese	1X	10X	1000X	1X	1X	1X	1X
Sodium	1X	1X	10X	1X	1X	1X	1X

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**
Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 40
Analytical Batch: 2563281

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 40
Preparation Batch: 2563279

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
653909001	BRA-PZ-50D
653909002	BRA-APBCD-EB-05
653909003	BRA-BRGWC-50
653909004	BRA-APBCD-FB-03
653909005	BRA-BRGWC-45
653909006	BRA-PZ-58I
653909007	BRA-PZ-60I
653909008	BRA-PZ-61I
1205640115	Method Blank (MB)**CVAA**
1205640116	Laboratory Control Sample (LCS)
1205640119	653892003(NonSDGL) Serial Dilution (SD)
1205640117	653892003(NonSDGD) Sample Duplicate (DUP)
1205640118	653892003(NonSDGS) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**
Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 40
Analytical Batch: 2563285

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 40
Preparation Batch: 2563284

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
653909009	BRA-PZ-51I
653909010	BRA-APBCD-FD-03
653909011	BRA-PZ-51D
653909012	BRA-APBCD-EB-04
653909013	BRA-BRGWC-52I
653909014	BRA-PZ-63I
653909015	BRA-PZ-64I
653909016	BRA-APBCD-FD-02
653909017	BRA-APBCD-FB-02
653909018	BRA-PZ-74I
653909019	BRA-APBCD-EB-06
653909020	BRA-PZ-68D

653909021	BRA-PZ-75I
1205640127	Method Blank (MB)**CVAA**
1205640128	Laboratory Control Sample (LCS)
1205640131	653922001(NonSDGL) Serial Dilution (SD)
1205640129	653922001(NonSDGD) Sample Duplicate (DUP)
1205640130	653922001(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# 34
Analytical Batch: 2562947

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
653909001	BRA-PZ-50D
653909002	BRA-APBCD-EB-05
653909003	BRA-BRGWC-50
653909004	BRA-APBCD-FB-03
653909005	BRA-BRGWC-45
653909006	BRA-PZ-58I
653909007	BRA-PZ-60I
653909008	BRA-PZ-61I
653909009	BRA-PZ-51I
653909010	BRA-APBCD-FD-03
653909011	BRA-PZ-51D
1205639510	Method Blank (MB)
1205639511	Laboratory Control Sample (LCS)
1205639512	653909001(BRA-PZ-50D) Sample Duplicate (DUP)
1205639513	653909001(BRA-PZ-50D) Post Spike (PS)
1205639514	653909011(BRA-PZ-51D) Sample Duplicate (DUP)
1205639515	653909011(BRA-PZ-51D) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Matrix Spike (MS)/Post Spike (PS) Recovery Statement
The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less

than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Chloride	1205639513 (BRA-PZ-50DPS)	112* (90%-110%)
Nitrate-N	1205639513 (BRA-PZ-50DPS)	116* (90%-110%)

Technical Information

Holding Times
Samples (See Below) were initially analyzed within holding; however, the holding times had expired prior to reanalysis of samples. The data is qualified.

Sample	Analyte	Value
1205639512 (BRA-PZ-50DDUP)	Nitrate-N	Received 02-FEB-24, within holding, analyzed 09-FEB-24, out of holding 03-FEB-24
1205639513 (BRA-PZ-50DPS)	Nitrate-N	Received 02-FEB-24, within holding, analyzed 09-FEB-24, out of holding 03-FEB-24
653909001 (BRA-PZ-50D)	Nitrate-N	Received 02-FEB-24, within holding, analyzed 09-FEB-24, out of holding 03-FEB-24

Sample Dilutions
The following samples 1205639512 (BRA-PZ-50DDUP), 1205639513 (BRA-PZ-50DPS), 1205639514 (BRA-PZ-51DDUP), 1205639515 (BRA-PZ-51DPS), 653909001 (BRA-PZ-50D), 653909003 (BRA-BRGWC-50), 653909005 (BRA-BRGWC-45), 653909006 (BRA-PZ-58I), 653909007 (BRA-PZ-60I), 653909008 (BRA-PZ-61I), 653909009 (BRA-PZ-51I), 653909010 (BRA-APBCD-FD-03) and 653909011 (BRA-PZ-51D) were diluted because target analyte concentrations exceeded the calibration range. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	653909								
	001	**003**	**005**	**006**	**007**	**008**	**009**	**010**	**011**
Chloride	2X	2X	10X	2X	10X	5X	2X	5X	40X
Nitrate-N	2X	1X	1X	1X	1X	1X	1X	1X	1X
Sulfate	100X	200X	10X	100X	200X	200X	100X	200X	40X

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 34
Analytical Batch: 2562950

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
653909012	BRA-APBCD-EB-04
653909013	BRA-BRGWC-52I
653909014	BRA-PZ-63I
653909015	BRA-PZ-64I
653909016	BRA-APBCD-FD-02

653909017	BRA-APBCD-FB-02
653909018	BRA-PZ-74I
653909019	BRA-APBCD-EB-06
653909020	BRA-PZ-68D
653909021	BRA-PZ-75I
1205639516	Method Blank (MB)
1205639517	Laboratory Control Sample (LCS)
1205639518	653909013(BRA-BRGWC-52I) Sample Duplicate (DUP)
1205639519	653909013(BRA-BRGWC-52I) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Matrix Spike (MS)/Post Spike (PS) Recovery Statement
The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Chloride	1205639519 (BRA-BRGWC-52IPS)	115* (90%-110%)

Technical Information

Sample Dilutions
The following samples 1205639518 (BRA-BRGWC-52IDUP), 1205639519 (BRA-BRGWC-52IPS), 653909013 (BRA-BRGWC-52I), 653909014 (BRA-PZ-63I), 653909015 (BRA-PZ-64I), 653909016 (BRA-APBCD-FD-02), 653909018 (BRA-PZ-74I), 653909020 (BRA-PZ-68D) and 653909021 (BRA-PZ-75I) were diluted because target analyte concentrations exceeded the calibration range. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	653909						
	013	**014**	**015**	**016**	**018**	**020**	**021**
Chloride	1X	1X	10X	1X	25X	25X	1X
Sulfate	20X	40X	1000X	20X	25X	25X	40X

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 21
Analytical Batch: 2565277

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
653909001	BRA-PZ-50D

653909002	BRA-APBCD-EB-05
653909003	BRA-BRGWC-50
653909004	BRA-APBCD-FB-03
653909005	BRA-BRGWC-45
653909006	BRA-PZ-58I
653909007	BRA-PZ-60I
653909008	BRA-PZ-61I
653909009	BRA-PZ-51I
653909010	BRA-APBCD-FD-03
653909011	BRA-PZ-51D
653909012	BRA-APBCD-EB-04
653909013	BRA-BRGWC-52I
653909014	BRA-PZ-63I
653909015	BRA-PZ-64I
653909016	BRA-APBCD-FD-02
653909017	BRA-APBCD-FB-02
653909018	BRA-PZ-74I
653909019	BRA-APBCD-EB-06
653909020	BRA-PZ-68D
1205643757	Method Blank (MB)
1205643758	Laboratory Control Sample (LCS)
1205643759	653909001(BRA-PZ-50D) Sample Duplicate (DUP)
1205643760	653909015(BRA-PZ-64I) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Duplicate Relative Percent Difference (RPD) Statement
The Relative Percent Difference (RPD) between the sample and duplicate falls outside of the established acceptance limits because of the heterogeneous matrix of the sample:

Analyte	Sample	Value
Total Dissolved Solids	1205643760 (BRA-PZ-64IDUP)	12.5* (0%-5%)

Miscellaneous Information

Additional Comments
A reduced aliquot was used due to matrix interference. 1205643759 (BRA-PZ-50DDUP), 1205643760 (BRA-PZ-64IDUP), 653909001 (BRA-PZ-50D), 653909003 (BRA-BRGWC-50), 653909006 (BRA-PZ-58I), 653909007 (BRA-PZ-60I), 653909008 (BRA-PZ-61I), 653909009 (BRA-PZ-51I), 653909010 (BRA-APBCD-FD-03) and 653909015 (BRA-PZ-64I). A TDS meter was used to check the samples for interference prior to analysis. 1205643759 (BRA-PZ-50DDUP), 1205643760 (BRA-PZ-64IDUP), 653909001 (BRA-PZ-50D), 653909003 (BRA-BRGWC-50), 653909006 (BRA-PZ-58I), 653909007 (BRA-PZ-60I), 653909008 (BRA-PZ-61I), 653909009 (BRA-PZ-51I), 653909010 (BRA-APBCD-FD-03) and 653909015 (BRA-PZ-64I).

Product: **Solids, Total Dissolved**

Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 21
Analytical Batch: 2565278

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
653909021	BRA-PZ-75I
1205643761	Method Blank (MB)
1205643762	Laboratory Control Sample (LCS)
1205643765	654364002(NonSDG) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Duplicate Relative Percent Difference (RPD) Statement
The Relative Percent Difference (RPD) between the sample and duplicate falls outside of the established acceptance limits because of the heterogeneous matrix of the sample: 1205643765 (Non SDG 654364002DUP).

Product: **Sulfide, Total**
Analytical Method: SM 4500-S (2-) D
Analytical Procedure: GL-GC-E-052 REV# 13
Analytical Batch: 2562850

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
653909001	BRA-PZ-50D
653909002	BRA-APBCD-EB-05
653909003	BRA-BRGWC-50
653909004	BRA-APBCD-FB-03
1205639328	Method Blank (MB)
1205639329	Laboratory Control Sample (LCS)
1205639330	653686004(NonSDG) Post Spike (PS)
1205639331	653686004(NonSDG) Post Spike Duplicate (PSD)

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: **Sulfide, Total**
Analytical Method: SM 4500-S (2-) D
Analytical Procedure: GL-GC-E-052 REV# 13

Analytical Batch: 2562851

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
653909005	BRA-BRGWC-45
653909006	BRA-PZ-58I
653909007	BRA-PZ-60I
653909008	BRA-PZ-61I
653909009	BRA-PZ-51I
653909010	BRA-APBCD-FD-03
653909011	BRA-PZ-51D
653909012	BRA-APBCD-EB-04
653909013	BRA-BRGWC-52I
653909014	BRA-PZ-63I
653909015	BRA-PZ-64I
653909016	BRA-APBCD-FD-02
653909017	BRA-APBCD-FB-02
653909018	BRA-PZ-74I
653909019	BRA-APBCD-EB-06
653909020	BRA-PZ-68D
653909021	BRA-PZ-75I
1205639332	Method Blank (MB)
1205639333	Laboratory Control Sample (LCS)
1205639334	653909005(BRA-BRGWC-45) Post Spike (PS)
1205639335	653909005(BRA-BRGWC-45) Post Spike Duplicate (PSD)
1205639336	653909020(BRA-PZ-68D) Post Spike (PS)
1205639337	653909020(BRA-PZ-68D) Post Spike Duplicate (PSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Matrix Spike (MS)/Post Spike (PS) Recovery Statement
The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Total Sulfide	1205639334 (BRA-BRGWC-45PS)	37.6* (75%-125%)
	1205639335 (BRA-BRGWC-45PSD)	36.6* (75%-125%)

Product: **Alkalinity**
Analytical Method: SM 2320B
Analytical Procedure: GL-GC-E-033 REV# 16
Analytical Batch: 2562852

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
653909001	BRA-PZ-50D
653909002	BRA-APBCD-EB-05
653909003	BRA-BRGWC-50
653909004	BRA-APBCD-FB-03
653909005	BRA-BRGWC-45
653909006	BRA-PZ-58I
653909007	BRA-PZ-60I
653909008	BRA-PZ-61I
653909009	BRA-PZ-51I
653909010	BRA-APBCD-FD-03
1205639340	Laboratory Control Sample (LCS)
1205639341	Laboratory Control Sample (LCS)
1205639342	Laboratory Control Sample Duplicate (LCSD)
1205639343	Laboratory Control Sample Duplicate (LCSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Laboratory Control Sample Duplicate (LCSD)
An LCSD was used in place of matrix QC due to limited sample volume.

Product: **Alkalinity**
Analytical Method: SM 2320B
Analytical Procedure: GL-GC-E-033 REV# 16
Analytical Batch: 2562854

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
653909011	BRA-PZ-51D
653909012	BRA-APBCD-EB-04
653909013	BRA-BRGWC-52I
653909014	BRA-PZ-63I
653909015	BRA-PZ-64I
653909016	BRA-APBCD-FD-02
653909017	BRA-APBCD-FB-02
653909018	BRA-PZ-74I
653909019	BRA-APBCD-EB-06
653909020	BRA-PZ-68D
653909021	BRA-PZ-75I
1205639344	Laboratory Control Sample (LCS)
1205639345	Laboratory Control Sample (LCS)
1205639346	Laboratory Control Sample Duplicate (LCSD)
1205639347	Laboratory Control Sample Duplicate (LCSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Laboratory Control Sample Duplicate (LCSD)
An LCSD was used in place of matrix QC due to limited sample volume.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Technical Case Narrative
Georgia Power Company
SDG #: 653582

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2561630

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 14
Preparation Batch: 2561629

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
653582001	BRA-BRGWC-32S
653582002	BRA-BRGWC-47
653582003	BRA-PZ-44
653582004	BRA-BRGWA-23S
653582005	BRA-BRGWC-30I
653582006	BRA-APBCD-FD-01
1205637183	Method Blank (MB)**ICP-MS**
1205637184	Laboratory Control Sample (LCS)
1205637187	653570001(BRA-BRGWA-2SL) Serial Dilution (SD)
1205637185	653570001(BRA-BRGWA-2SS) Matrix Spike (MS)
1205637186	653570001(BRA-BRGWA-2SSD) 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 the calcium. Client sample concentrations were less than the MDL or greater than two times the CRDL; therefore the data were not adversely affected.

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples 653582001 (BRA-BRGWC-32S), 653582002

(BRA-BRGWC-47), 653582003 (BRA-PZ-44), 653582005 (BRA-BRGWC-30I) and 653582006 (BRA-APBCD-FD-01) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument.

Analyte	653582				
	001	**002**	**003**	**005**	**006**
Boron	10X	10X	10X	20X	10X
Calcium	1X	10X	1X	20X	1X
Magnesium	1X	10X	1X	20X	1X
Manganese	1X	1X	1X	20X	1X

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**
Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 40
Analytical Batch: 2561614

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 40
Preparation Batch: 2561613

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
653582001	BRA-BRGWC-32S
653582002	BRA-BRGWC-47
653582003	BRA-PZ-44
653582004	BRA-BRGWA-23S
653582005	BRA-BRGWC-30I
653582006	BRA-APBCD-FD-01
1205637171	Method Blank (MB)**CVAA**
1205637172	Laboratory Control Sample (LCS)
1205637178	653616001(NonSDGL) Serial Dilution (SD)
1205637176	653616001(NonSDGD) Sample Duplicate (DUP)
1205637177	653616001(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# 34
Analytical Batch: 2561599

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
653582001	BRA-BRGWC-32S
653582002	BRA-BRGWC-47
653582003	BRA-PZ-44
653582004	BRA-BRGWA-23S
653582005	BRA-BRGWC-30I
653582006	BRA-APBCD-FD-01
1205637120	Method Blank (MB)
1205637121	Laboratory Control Sample (LCS)
1205637122	653570001(BRA-BRGWA-2S) Sample Duplicate (DUP)
1205637123	653570001(BRA-BRGWA-2S) Post Spike (PS)
1205637124	653582003(BRA-PZ-44) Sample Duplicate (DUP)
1205637125	653582003(BRA-PZ-44) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Matrix Spike (MS)/Post Spike (PS) Recovery Statement
The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Chloride	1205637125 (BRA-PZ-44PS)	115* (90%-110%)

Technical Information

Sample Dilutions
The following samples 1205637124 (BRA-PZ-44DUP), 1205637125 (BRA-PZ-44PS), 653582001 (BRA-BRGWC-32S), 653582002 (BRA-BRGWC-47), 653582003 (BRA-PZ-44), 653582005 (BRA-BRGWC-30I) and 653582006 (BRA-APBCD-FD-01) were diluted because target analyte concentrations exceeded the calibration range. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	653582				
	001	002	003	005	006
Sulfate	20X	100X	5X	100X	5X

Sample Re-analysis
Sample 1205637125 (BRA-PZ-44PS) was reanalyzed due to PS failure. The reanalysis data was reported. Samples 653582005 (BRA-BRGWC-30I) and 653582006 (BRA-APBCD-FD-01) were re-analyzed due to CCV failure. The reanalysis data with passing instrument QC was reported.

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 21
Analytical Batch: 2563910

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
653582001	BRA-BRGWC-32S
653582002	BRA-BRGWC-47
653582003	BRA-PZ-44
653582004	BRA-BRGWA-23S
653582005	BRA-BRGWC-30I
653582006	BRA-APBCD-FD-01
1205641437	Method Blank (MB)
1205641438	Laboratory Control Sample (LCS)
1205641440	653575002(BRA-BRGWC-35S) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments
A reduced aliquot was used due to matrix interference. 653582002 (BRA-BRGWC-47) and 653582005 (BRA-BRGWC-30I). A TDS meter was used to check the samples for interference prior to analysis. 653582002 (BRA-BRGWC-47) and 653582005 (BRA-BRGWC-30I).

Product: **Sulfide, Total**
Analytical Method: SM 4500-S (2-) D
Analytical Procedure: GL-GC-E-052 REV# 13
Analytical Batch: 2561631

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
653582001	BRA-BRGWC-32S
653582002	BRA-BRGWC-47
653582003	BRA-PZ-44
653582004	BRA-BRGWA-23S
653582005	BRA-BRGWC-30I
653582006	BRA-APBCD-FD-01
1205637188	Method Blank (MB)
1205637189	Laboratory Control Sample (LCS)
1205637190	653570001(BRA-BRGWA-2S) Post Spike (PS)
1205637191	653570001(BRA-BRGWA-2S) Post Spike Duplicate (PSD)
1205637192	653582003(BRA-PZ-44) Post Spike (PS)
1205637193	653582003(BRA-PZ-44) Post Spike Duplicate (PSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Matrix Spike (MS)/Post Spike (PS) Recovery Statement
The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Total Sulfide	1205637192 (BRA-PZ-44PS)	73.5* (75%-125%)
	1205637193 (BRA-PZ-44PSD)	72.2* (75%-125%)

Product: **Alkalinity**
Analytical Method: SM 2320B
Analytical Procedure: GL-GC-E-033 REV# 16
Analytical Batch: 2561936

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
653582001	BRA-BRGWC-32S
653582002	BRA-BRGWC-47
653582003	BRA-PZ-44
653582004	BRA-BRGWA-23S
653582005	BRA-BRGWC-30I
653582006	BRA-APBCD-FD-01
1205637749	Laboratory Control Sample (LCS)
1205637750	Laboratory Control Sample (LCS)
1205637751	Laboratory Control Sample Duplicate (LCSD)
1205637752	Laboratory Control Sample Duplicate (LCSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Laboratory Control Sample Duplicate (LCSD)
An LCSD was used in place of matrix QC due to limited sample volume.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Page ____ of ____
Project #
GEL Quote #:
COC Number (1):
PO Number: GPC82179-0006

GEL Laboratories LLC 663853/663854
Chemistry | Radiochemistry | Radiobioassay | 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

Client Name: GA Power | Phone #: 404-506-7216

Project/Site Name: Plant Branch Ash Ponds - BCD | Fax #:

Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308

Collected By: J Bonsell # A of ACC | Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (yes, please supply isotopic info.)	Should this sample be considered: Hazard or possible Hazard	Total number of containers	CL, F, SO4, TDS, NO3 EPA 300.0, SM 4500	Total Calc & Diss Ca SM 3500	Metals* EPA 6020, 6010, 7470	Radium 226 & 228 SW-846 9315, 9320	Sulfide SM 4500							<-- Preservative Type (6)
BRA-BRGWC-29I	01/31/24	1040	G	N	WG			8	✓	✓	✓	✓	✓							
BRA-BRGWC-25I	01/31/24	1437	G	N	WG			8	✓	✓	✓	✓	✓							
BRA-BRGWC-27I	01/31/24	1540	G	N	WG			8	✓	✓	✓	✓	✓							
BRA-APBCD-FB-01	01/31/24	1425	G	N	WQ			8	✓	✓	✓	✓	✓							
BRA-																				
BRA-																				
BRA-																				
BRA-																				
BRA-																				
BRA-																				

Comments
Note: extra sample is required for sample specific QC
Task_Code: BRA-CCR-ASSMT-202451

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received By (Signed)	Date	Time
1	2/1/24	0736		2/1/24	0836
2	2/1/24	100		2/1/24	1300
3			3		

TAT Requested: Normal: X Rush: Specify: (Subject to Surcharge)

Fax Results: [ ] Yes [X] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] Level 1 [X] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mn,Se,Tl,Fe,Mg,Mo,K,Ni,Ag

For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No Cooler Temp: ____ °C

> For sample shipping and delivery details, see Sample Receipt & Review form (SRR).

Sample Collection Time Zone: [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

(1) Chain of Custody Number = Client Determined

(2) QC Codes: N = Normal Sample, TB = Trip Blank, FB = 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" if the sample was field filtered and "N" if the sample was not field filtered

(4) Matrix Codes: WD=Drinking Water, WG = Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix

(5) Sample Analysis Requested: Analytical method requested (for RADIO, 4010B/7470A) and number of containers provided for each (i.e. 6020B = 3, 6010B/7470A = 1)

(6) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, Na = Sulfuric Acid, AA = Ascorbic Acid, TH = Thiosulfate, ST = Sodium Thiosulfate, For preservation in addition = leave field blank

(7) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic Hg= Mercury
Ba = Barium Se= Selenium
Cd = Cadmium Ag= Silver
Cr = Chromium MR= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW = Listed Waste
(F,K,P and U listed wastes.)
Waste code(s):

Other
OT = Other / Unknown
(i.e.: Naphthalene, asbestos, beryllium, pyrophoric, ether, nitric, health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal conditions. (i.e.: Origin of sample(s), type of soil collected from, solid materials, etc.)

653855
653856
653853 ET
653854

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC — SDG/AR/COC/Work Order:

Received By: CLM — Date Received: 2/1/24

Carrier and Tracking Number — Circle Applicable: FedEx Express · FedEx Ground · UPS · Field Services · Courier · (Other)

Coolers 1-0° 3-1° 5-0°
2-0° 4-0° 6-1°

Suspected Hazard Information	Yes	No	*If Yes or Unknown, samples will be segregated pending client authorization, Safety Group for further investigation.
Radioactivity Exceeds Background?		✓	Client Chem Shipped: UN#: If Yes: Is the Radioactive Shipment Survey Compliant? Yes___ No___
Is Chain of Custody / Sample Analysis Request present and complete?		✓	
Are there broken/leaking/loose caps on bottles?		✓	Shipped Hazardous? Client Approved? (Chemical Sample - Waste, Background, Other) ___ (CPM) initials: Classification: Rad1 Rad2 Rad3
Are Sample labels present, in good condition and complete?		✓	
Did the bottles arrive intact (unbroken)?		✓	Preservation Confirmed (Per COC or Bottle): Yes No NA. Exceptions noted: (Bottle, Container, Sample ID, Parameter, Preservation, Date/Time, Reagent, Initials)
Did all bottles arrive in good condition (unbroken)?		✓	
Could all bottle labels be reconciled with the COC?		✓	
Does the date/time on bottles match the COC?		✓	
Were correct bottles used for the tests indicated?		✓	
Sufficient quantity received to perform indicated analyses?		✓	
Were bubbles absent in VOA samples? If not, list in Comments		✓	
Was the client notified of all discrepancies?		✓	

	Sample Receipt Criteria	Yes	No	NA	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken · Damaged container · Leaking container · Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client refused to sign · COC not received · Other (describe)
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)*	✓			Preservation Method: Wet Ice · Ice Packs · Dry Ice · None · Other * All temperatures outside of range noted in Comments (Exceptions: Biota, Other) TEMP: See aliquot with coolers
4	Daily check performed and passing for IR temperature gun?	✓			Temperature Device Serial #: IR-4 Secondary Temperature Device Serial # (IR Gun Backup):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken · Damaged container · Leaking container · Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation Added, Lot#:
7	Do any samples require Volatile Analysis?	✓			If Yes, are Encores or Soil Kits present for soils? Yes___ No___ NA___ (If yes, also fill VOA, Preserv.) If No, Is there VOA headspace in any bottles? Yes___ No___ NA___ (If answers, select Yes) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and containers affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: Analysis requested on COC · No date or time on container · COC missing info · Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No containers received on COC · Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC forms properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished · Other (describe)

Comments (Use Continuation Page if needed):

Title for Field Review Initials: ZJS Date: 02/02/24 Page 1 of 1

GL-CHL-SR-001 Rev 7

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Page: ____ of ____
Project #:
GEL Quote #:
COC Number [1]:
PO Number: GPC52177-0008

GEL Laboratories LLC
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytes

Chain of Custody and Analytical Request

GEL Work Order Number: GEL Project Manager: Erin Trout

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power | Phone #: 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - BCD | Fax #:
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: JB / HA-MG / AZ / JT ACC | Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code [4]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (yes/no/unknown)	Should this sample be considered: Hazardous (yes/no/unknown)	Total # of containers	Cl, F, SO4, TDS, NO3 (EPA 300.0, SM 2540C)	Total Calc. & Total Alk. (SM 2320B)	Metals + EPA 6010B, 6020A	Radium 226 & 228 (GA Rad)	Sulfide (SM 4500)						<- Preservative Type (6)
BRA-PZ-50D	02/01/24	1015	G	N	WG			8	✓	✓	✓	✓	✓						
BRA-APBCD-EB-05	02/01/24	1130	G	N	WQ			8	✓	✓	✓	✓	✓						
BRA-BRGWC-50	02/01/24	1200	G	N	WG			8	✓	✓	✓	✓	✓						
BRA-APBCD-FB-03	02/01/24	1330	G	N	WQ			8	✓	✓	✓	✓	✓						
BRA-BRGWC-45	02/01/24	1350	G	N	WG			8	✓	✓	✓	✓	✓						
BRA-PZ-58I	02/01/24	1012	G	N	WG			8	✓	✓	✓	✓	✓						
BRA-PZ-60I	02/01/24	1313	G	N	WG			8	✓	✓	✓	✓	✓						
BRA-PZ-61I	02/01/24	1133	G	N	WG			8	✓	✓	✓	✓	✓						
BRA-PZ-51I	02/01/24	1349	G	N	WG			8	✓	✓	✓	✓	✓						
BRA-APBCD-FD-03	02/01/24	—	G	N	WG			8	✓	✓	✓	✓	✓						

Comments
Note: extra sample is required for sample specific QC
Task_Code: BRA-CCR-ASSMT-2024S1

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1 AzALD	2/2/24	0840	1 Thyssia Tate	2/2/24	840
2			2		
3			3		

TAT Requested: Normal: X Rush: ____ Specify: ____ (Subject to Surcharge)
Fax Results: [ ] Yes [X] No
Select Deliverable: [ ] COA [ ] QC Summary [ ] Level 1 [X] Level 2 [ ] Level 3 [ ] Level 4
Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg
For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No Cooler Temp: ____ °C
Sample Collection Time Zone: [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other

> For sample shipping and delivery details, see Sample Receipt & Review form (SRR).

1) Chain of Custody Number = Client Determined
2) QC Codes: N = Normal Sample, TB = Trip Blank, FB = 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: WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix
5) Sample Analysis Requested: Analytical method requested (i.e. 6020B, 9315/9320A) and number of containers provided for each (i.e. 8260B - 3, 9315/9320A - 1).
6) Preservative Type: HA = Hydrochloric Acid, NT = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

7) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic; Hg = Mercury
Ba = Barium; Se = Selenium
Cd = Cadmium; Ag = Silver
Cr = Chromium; MR = Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW = Listed Waste
(F, K, P and U-listed wastes)
Waste code(s):

Other
OT = Other / Unknown
(i.e., high/low pH, asbestos, beryllium, pyrophoric, 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, risk matrices, etc.)

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Page: ____ of ____
Project #: ____
GEL Quote #: ____
COC Number: [1] ____
PO Number: GPC82177-0006

GEL Laboratories LLC
Chemistry | Radiochemistry | Radioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories,
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-817
Fax: (843) 766-117

Client Name: GA Power — Phone #: 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - DCE — Fax #:
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: SB/MP/TG AG/JT — ACC — Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested [2] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (Optional)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Hazardous (Y/N, please specify in Special Instr.)	Should this sample be considered: Potentially Hazardous (Y/N, please specify in Special Instr.)	Total number of containers	Cl, F, SO4, TDS, PKO, EPA 300.0, SM 2540C	Total Calc & Diss As, SW 7060	Total As (EPA 6020, 6010, 200.8)	Radium 226 & 228 (EPA 9315, 9320)	Sulfide SM 4500	<-- Preservative Type (6)
BRA-PZ-51D	02/01/24	1011	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-APBCD-EB-04	02/01/24	1010	G	N	WQ			8	✓	✓	✓	✓	✓	
BRA-BRGWC-52I	02/01/24	1015	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-PZ-63I	02/01/24	1410	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-PZ-64I	02/01/24	1200	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-APBCD-FD-02	02/01/24	—	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-APBCD-FB-02	02/01/24	1115	G	N	WQ			8	✓	✓	✓	✓	✓	
BRA-PZ-74I	02/01/24	1260	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-APBCD-EB-06	02/01/24	1305	G	N	WQ			8	✓	✓	✓	✓	✓	
BRA-PZ-62D	02/01/24	0945	G	N	WG			8	✓	✓	✓	✓	✓	

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received By (Signed)	Date	Time
1	2/2/24	0840	1	2/2/24	840
2			2		
3			3		

TAT Requested: Normal: X Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [X] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] Level 1 [X] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Tg

For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No Cooler Temp: ____ °C

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR).*

Sample Collection Time Zone: [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other

1) Chain of Custody Number = Client Determined

2) QC Codes: N = Normal Sample, TB = Trip Blank, FB = 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: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WI=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix

5) Sample Analysis Requested: Analytical method required (i.e. SM4500, 6010B/7470A) and number of containers provided for each (i.e. 4500 - 2, 6010-7470A - 1)

6) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SU = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = none 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 metal(s)

Characteristic Hazards
FL = Flammable/Ignitable; CO = Corrosive; RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW = Listed Waste (U, K, P and U-listed wastes.)
Waste code(s):

Other
OT = Other / Unknown (i.e.: Explosive gas, asbestos, beryllium, aerosols, 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, unit numbers, etc.)

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Page: ____ of ____
Project #
GEL Quote #
COC Number (if any)
PO Number: GPC82177.0006

GEL Laboratories LLC
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number:

GEL Project Manager: Erin Trent

GEL Laboratories,
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power
Phone #: 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - SCD
Fax #
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: SB / AW/TL/ES/JACC
Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested [4] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If so, please specify isotopes below)	Should this sample be considered: (?) Known or possible Hazards	Total number of containers	Cl, F, NO3, TDS, SO4 EPA 300.0	Total Calc. S (Sulfide) SM 4500S	Metals* EPA 6010, 6020, 7470	Radium 226 & 228 SW-846 9315, 9320	Sulfide SM 4500						Comments
BRA- P2-751	02/01/24	1412	G	N	WG			50	✓	✓	✓	✓	✓						Note: extra sample is required for sample specific QC Task_Code: BRA-CCR-ASSMT-202451
BRA-																			
BRA-																			
BRA-																			
BRA-																			
BRA-																			
BRA-																			
BRA-																			
BRA-																			
BRA-																			

Y-- Preservative Type (5)

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	2/2/24	0740		2/2/24	840
2			2		
3			3		

TAT Requested: Normal: 5 Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [x] No

Select Deliverable: [ ] C of A [ ] QC Summary: [ ] Level 1 [x] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg

For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No Cooler Temp: ____ °C

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other

> For sample shipping and delivery details, see Sample Receipt & Review form (SRR).

(1) Chain of Custody Number = Client Determined

(2) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

(3) Field Filtered: For Dissolved analysis, indicate with a "Y" for samples which are Field Filtered or "N" for samples which are not Field Filtered.

(4) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SD=Sediment, SL=Sludge, WQ=Water Quality Control Matrix

(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 MB= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: Lighter pit, 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, mild materials, etc.)

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GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	SDG/AR/COC/Work Order:
Received By: QG	Date Received: 2/2/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier (Other)
	n/a

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A) Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM / uR/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. PCBs Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?		✓		Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?		✓		Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)*				Preservation Method: Wet Ice Ice Packs Dry Ice None Other *all temperatures are recorded in Celsius TEMP: 7 c
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR1-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?		✓		Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?				Sample IDs and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?				If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___ (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___ (If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample IDs and containers affected:
8	Samples received within holding time?				ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?				ID's and containers affected:
10	Date & time on COC match date & time on bottles?				Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?				Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?				
13	COC form is properly signed in relinquished/received sections?				Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials WJS Date 02/05/24 Page 1 of 1

653582/653584

Page: ___ of ___
Project #:
GEL Quote #:
COC Number (1):
PO Number: GPC8217-0005

GEL Laboratories LLC
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics
Chain of Custody and Analytical Request

GEL Work Order Number:
GEL Project Manager: Erin Treat

GEL Laboratories
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power — Phone #: 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - BCD — Fax #:
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: [illegible] — Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested (3) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: (1) Radioactive (If yes, please supply sample info)	(2) Known or Possible Hazards	Total number of containers	Cl, F, SO4, TDS, NO3 EPA 300.0, 9056, SM 2540C	Total Calc. & Dissolved Alk. SM 2320B	Metals + EPA 6020, 6010, 7470	Ra226, 228, & 228 SW 9315, 9320	Sulfide SM 4500	<--Preservative Type (6)
BRA-BR6WC-32S	01/30/24	1255	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-BR6WC-47	01/30/24	1456	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-PZ-44	01/30/24	1620	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-BR6WA-23S	01/30/24	1238	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-BR6WC-30I	01/30/24	1734	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-APBCD-FD-01	01/30/24	—	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-														
BRA-														
BRA-														
BRA-														

Comments
Note: extra sample is required for sample specific QC
Task_Code: BRA-CCR-ASSMT-2024S1

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	1/31/24	0905	1	1/31/24	8:20
2	1/31/24	104	2	1/31/24	1300
3			3		

TAT Requested: Normal: X Rush: ___ Specify: ___ (Subject to Surcharge)
Fax Results: [ ] Yes [x] No
Select Deliverable: [ ] Col A [ ] QC Summary [ ] Level [x] Level 2 [ ] Level 3 [ ] Level 4
Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,U,Mg,Mn,K,Na,Hg
For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No Cooler Temp: 1 °C

> For sample shipping and delivery details, see Sample Receipt & Review form (SRR)

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other

(1) Chain of Custody Number = Client Determined

(2) QC Codes: N = Normal Sample, TB = Trip Blank, FB = 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: WD=Drinking Water, WG=Ground water, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SD=Sediment, SL=Sludge, WQ=Water Quality Control Matrix

(5) Sample Analysis Requested: Analytical method to be used (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 2, 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.: Highly toxic pH, airbourne, biorisk, corrosive, 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.)

653570 653584
653572 653575
653582 653580

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	SDG/AR/COC/Work Order:
Received By: QG	Date Received: 11/31/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier (Other) N/a

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A) Shipped as a DOT Hazardous?			Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?			COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?			Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM/mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?			COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?			If D or E is yes, select Hazards below: PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

Sample Receipt Criteria		Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?				Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents (included with shipment?				Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)*				Preservation Method: Wet Ice Ice Packs Dry Ice None Other: *all temperatures are recorded in Celsius TEMP: 4°
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR1-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?				Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?				Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?				If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___ (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___ (If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?				ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?				ID's and containers affected:
10	Date & time on COC match date & time on bottles?				Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?				Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?				
13	COC form is properly signed in relinquished/received sections?				Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials JJ Date 01/02/24 Page 1 of 1

List of current GEL Certifications as of 16 February 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122024-05
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	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-23-21
Utah NELAP	SC000122023-38
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC
2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

February 29, 2024

Joju Abraham
Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308

Re: Branch CCR Groundwater Compliance APBCD-R
Work Orders: 653911,653854 and 653584

Dear Joju Abraham:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on January 31, 2024, February 01, 2024 and February 02, 2024. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Recieved
653584001	BRA-BRGWC-32S	Ground Water	30/01/24 12:55	31/01/24 13:06
653584002	BRA-BRGWC-47	Ground Water	30/01/24 14:56	31/01/24 13:06
653584003	BRA-PZ-44	Ground Water	30/01/24 16:20	31/01/24 13:06
653584004	BRA-BRGWA-23S	Ground Water	30/01/24 12:38	31/01/24 13:06
653584005	BRA-BRGWC-30I	Ground Water	30/01/24 17:34	31/01/24 13:06
653584006	BRA-APBCD-FD-01	Ground Water	30/01/24 12:00	31/01/24 13:06
653854001	BRA-BRGWC-29I	Ground Water	31/01/24 10:40	01/02/24 13:00
653854002	BRA-BRGWC-25I	Ground Water	31/01/24 14:37	01/02/24 13:00
653854003	BRA-BRGWC-27I	Ground Water	31/01/24 15:40	01/02/24 13:00
653854004	BRA-APBCD-FB-01	Water	31/01/24 14:25	01/02/24 13:00
653911001	BRA-PZ-50D	Ground Water	01/02/24 10:15	02/02/24 08:40
653911002	BRA-APBCD-EB-05	Water	01/02/24 11:30	02/02/24 08:40
653911003	BRA-BRGWC-50	Ground Water	01/02/24 12:00	02/02/24 08:40
653911004	BRA-APBCD-FB-03	Water	01/02/24 13:30	02/02/24 08:40
653911005	BRA-BRGWC-45	Ground Water	01/02/24 13:50	02/02/24 08:40
653911006	BRA-PZ-58I	Ground Water	01/02/24 10:12	02/02/24 08:40

653911007	BRA-PZ-60I	Ground Water	01/02/24 13:13	02/02/24 08:40
653911008	BRA-PZ-61I	Ground Water	01/02/24 11:33	02/02/24 08:40
653911009	BRA-PZ-51I	Ground Water	01/02/24 13:49	02/02/24 08:40
653911010	BRA-APBCD-FD-03	Ground Water	01/02/24 12:00	02/02/24 08:40
653911011	BRA-PZ-51D	Ground Water	01/02/24 10:11	02/02/24 08:40
653911012	BRA-APBCD-EB-04	Water	01/02/24 10:10	02/02/24 08:40
653911013	BRA-BRGWC-52I	Ground Water	01/02/24 10:15	02/02/24 08:40
653911014	BRA-PZ-63I	Ground Water	01/02/24 14:10	02/02/24 08:40
653911015	BRA-PZ-64I	Ground Water	01/02/24 12:00	02/02/24 08:40
653911016	BRA-APBCD-FD-02	Ground Water	01/02/24 12:00	02/02/24 08:40
653911017	BRA-APBCD-FB-02	Water	01/02/24 11:15	02/02/24 08:40
653911018	BRA-PZ-74I	Ground Water	01/02/24 12:00	02/02/24 08:40
653911019	BRA-APBCD-EB-06	Water	01/02/24 13:05	02/02/24 08:40
653911020	BRA-PZ-68D	Ground Water	01/02/24 09:45	02/02/24 08:40
653911021	BRA-PZ-75I	Ground Water	01/02/24 14:20	02/02/24 08:40

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Prep Methods and Prep Dates

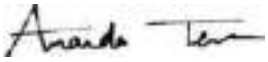
Not Applicable

Analysis Methods and Analysis Dates

Method	Run Date ID
Calculation	27-FEB-2024
Calculation	28-FEB-2024
Calculation	29-FEB-2024
EPA 903.1 Modified	22-FEB-2024
EPA 903.1 Modified	26-FEB-2024
EPA 903.1 Modified	28-FEB-2024
EPA 904.0/SW846 9320 Modified	23-FEB-2024
EPA 904.0/SW846 9320 Modified	27-FEB-2024
EPA 904.0/SW846 9320 Modified	28-FEB-2024

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4504.

Sincerely,



Amanda Turner for
Erin Trent
Project Manager

Purchase Order: GPC82177-0006
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: 653854 GEL Work Order: 653854

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

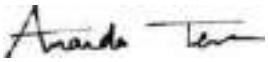
** Analyte is a surrogate compound

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 

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2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 653911 GEL Work Order: 653911

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

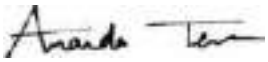
** Analyte is a surrogate compound

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 

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2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 653584 GEL Work Order: 653584

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

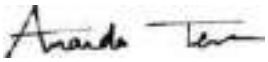
** Analyte is a surrogate compound

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
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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: February 27, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-BRGWC-32S
Sample ID: 653584001
Matrix: WG
Collect Date: 30-JAN-24
Receive Date: 31-JAN-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	-1.35	+/-0.924	1.98	+/-0.925	3.00	pCi/L			JE1	02/23/24	1250	2568518	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	0.572	+/-1.02	1.98	+/-1.02		pCi/L		1	NXL1	02/27/24	0938	2570132	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.572	+/-0.429	0.446	+/-0.438	1.00	pCi/L			MJ2	02/26/24	1011	2561841	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"	2568518	88	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: February 27, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-BRGWC-47 Project: GPCC00101
Sample ID: 653584002 Client ID: GPCC001
Matrix: WG
Collect Date: 30-JAN-24
Receive Date: 31-JAN-24
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		2.25	+/-1.25	1.89	+/-1.38	3.00	pCi/L			JE1	02/23/24	1250	2568518	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.63	+/-1.32	1.89	+/-1.44		pCi/L		1	NXL1	02/27/24	0938	2570132	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.377	+/-0.433	0.663	+/-0.437	1.00	pCi/L			MJ2	02/26/24	1011	2561841	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"	2568518	82.8	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: February 27, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-PZ-44
Sample ID: 653584003
Matrix: WG
Collect Date: 30-JAN-24
Receive Date: 31-JAN-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		2.21	+/-1.16	1.73	+/-1.29	3.00	pCi/L			JE1	02/23/24	1250	2568518	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.87	+/-1.31	1.73	+/-1.43		pCi/L		1	NXL1	02/27/24	0938	2570132	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.660	+/-0.591	0.774	+/-0.600	1.00	pCi/L			MJ2	02/26/24	1011	2561841	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"	2568518	86.2	(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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Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: February 27, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-BRGWA-23S
Sample ID: 653584004
Matrix: WG
Collect Date: 30-JAN-24
Receive Date: 31-JAN-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.275	+/-0.986	1.78	+/-0.989	3.00	pCi/L			JE1	02/23/24	1250	2568518	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	0.605	+/-1.10	1.78	+/-1.11		pCi/L		1	NXL1	02/27/24	0938	2570132	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.330	+/-0.498	0.884	+/-0.502	1.00	pCi/L			MJ2	02/26/24	1029	2561841	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"	2568518	87.3	(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

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: February 27, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-BRGWC-30I
Sample ID: 653584005
Matrix: WG
Collect Date: 30-JAN-24
Receive Date: 31-JAN-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		2.40	+/-0.985	1.27	+/-1.16	3.00	pCi/L			JE1	02/23/24	1250	2568518	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		4.11	+/-1.30	1.27	+/-1.46		pCi/L		1	NXL1	02/27/24	0938	2570132	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		1.71	+/-0.851	0.776	+/-0.891	1.00	pCi/L			MJ2	02/26/24	1029	2561841	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"	2568518	88.9	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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: February 27, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-APBCD-FD-01
Sample ID: 653584006
Matrix: WG
Collect Date: 30-JAN-24
Receive Date: 31-JAN-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	-0.405	+/-1.19	2.24	+/-1.19	3.00	pCi/L			JE1	02/23/24	1250	2568518	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	0.666	+/-1.33	2.24	+/-1.33		pCi/L		1	NXL1	02/27/24	0938	2570132	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.666	+/-0.594	0.814	+/-0.609	1.00	pCi/L			MJ2	02/26/24	1029	2561841	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"	2568518	83.4	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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: February 28, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-BRGWC-29I
Sample ID: 653854001
Matrix: WG
Collect Date: 31-JAN-24
Receive Date: 01-FEB-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.00	+/-1.18	1.99	+/-1.21	3.00	pCi/L			JE1	02/27/24	0820	2568527	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		3.01	+/-1.29	1.99	+/-1.35		pCi/L			NXL1	02/28/24	0843	2568537	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		2.01	+/-0.524	0.359	+/-0.614	1.00	pCi/L			LXP1	02/22/24	0822	2563218	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"	2568527	77.8	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Certificate of Analysis

Company : Georgia Power Company, Southern
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241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: February 28, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-BRGWC-25I
Sample ID: 653854002
Matrix: WG
Collect Date: 31-JAN-24
Receive Date: 01-FEB-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.08	+/-0.974	1.59	+/-1.01	3.00	pCi/L			JE1	02/27/24	0820	2568527	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		3.78	+/-1.14	1.59	+/-1.25		pCi/L			NXL1	02/28/24	0843	2568537	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		2.70	+/-0.601	0.442	+/-0.730	1.00	pCi/L			LXP1	02/22/24	0822	2563218	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"	2568527	88.4	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Company : Georgia Power Company, Southern
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Atlanta, Georgia 30308 Report Date: February 28, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-BRGWC-27I
Sample ID: 653854003
Matrix: WG
Collect Date: 31-JAN-24
Receive Date: 01-FEB-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.367	+/-0.964	1.73	+/-0.969	3.00	pCi/L			JE1	02/27/24	0820	2568527	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	1.49	+/-1.04	1.73	+/-1.06		pCi/L			NXL1	02/28/24	0843	2568537	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		1.12	+/-0.381	0.245	+/-0.442	1.00	pCi/L			LXP1	02/22/24	0822	2563218	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"	2568527	78.1	(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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Atlanta, Georgia 30308 Report Date: February 28, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-APBCD-FB-01
Sample ID: 653854004
Matrix: WQ
Collect Date: 31-JAN-24
Receive Date: 01-FEB-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.03	+/-1.10	1.84	+/-1.13	3.00	pCi/L			JE1	02/27/24	0820	2568527	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	1.24	+/-1.11	1.84	+/-1.15		pCi/L			NXL1	02/28/24	0843	2568537	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.217	+/-0.170	0.231	+/-0.177	1.00	pCi/L			LXP1	02/22/24	0822	2563218	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"	2568527	77.8	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Atlanta, Georgia 30308 Report Date: February 29, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-PZ-50D
Sample ID: 653911001
Matrix: WG
Collect Date: 01-FEB-24
Receive Date: 02-FEB-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		2.39	+/-1.01	1.30	+/-1.18	3.00	pCi/L			JE1	02/27/24	0821	2568527	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		3.93	+/-1.09	1.30	+/-1.28		pCi/L			NXL1	02/28/24	0843	2568537	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		1.54	+/-0.417	0.294	+/-0.492	1.00	pCi/L			LXP1	02/22/24	0926	2563218	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"	2568527	81.1	(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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Atlanta, Georgia 30308 Report Date: February 29, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-APBCD-EB-05 Project: GPCC00101
Sample ID: 653911002 Client ID: GPCC001
Matrix: WQ
Collect Date: 01-FEB-24
Receive Date: 02-FEB-24
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.156	+/-0.946	1.74	+/-0.947	3.00	pCi/L			JE1	02/27/24	0821	2568527	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	0.474	+/-0.978	1.74	+/-0.980		pCi/L			NXL1	02/28/24	0843	2568537	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.319	+/-0.250	0.353	+/-0.254	1.00	pCi/L			LXP1	02/22/24	0926	2563218	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"	2568527	79.9	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Atlanta, Georgia 30308 Report Date: February 29, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-BRGWC-50 Project: GPCC00101
Sample ID: 653911003 Client ID: GPCC001
Matrix: WG
Collect Date: 01-FEB-24
Receive Date: 02-FEB-24
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	-0.0980	+/-1.12	2.09	+/-1.12	3.00	pCi/L			JE1	02/27/24	0821	2568527	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	0.607	+/-1.16	2.09	+/-1.16		pCi/L			NXL1	02/28/24	0843	2568537	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.607	+/-0.287	0.245	+/-0.311	1.00	pCi/L			LXP1	02/22/24	0926	2563218	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"	2568527	77.9	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Atlanta, Georgia 30308 Report Date: February 29, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-APBCD-FB-03 Project: GPCC00101
Sample ID: 653911004 Client ID: GPCC001
Matrix: WQ
Collect Date: 01-FEB-24
Receive Date: 02-FEB-24
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.795	+/-1.06	1.81	+/-1.08	3.00	pCi/L			JE1	02/27/24	0821	2568527	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	0.795	+/-1.06	1.81	+/-1.08		pCi/L			NXL1	02/28/24	0843	2568537	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.000	+/-0.0988	0.241	+/-0.0989	1.00	pCi/L			LXP1	02/22/24	0926	2563218	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"	2568527	81.8	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Atlanta, Georgia 30308 Report Date: February 29, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-BRGWC-45 Project: GPCC00101
Sample ID: 653911005 Client ID: GPCC001
Matrix: WG
Collect Date: 01-FEB-24
Receive Date: 02-FEB-24
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.566	+/-0.912	1.59	+/-0.923	3.00	pCi/L			JE1	02/28/24	0941	2568570	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	1.22	+/-0.991	1.59	+/-1.01		pCi/L		1	NXL1	02/29/24	0906	2570940	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.650	+/-0.388	0.331	+/-0.404	1.00	pCi/L			MJ2	02/28/24	0943	2563219	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"	2568570	77	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Atlanta, Georgia 30308 Report Date: February 29, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-PZ-58I
Sample ID: 653911006
Matrix: WG
Collect Date: 01-FEB-24
Receive Date: 02-FEB-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.0703	+/-0.991	1.84	+/-0.991	3.00	pCi/L			JE1	02/28/24	0941	2568570	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	0.162	+/-1.02	1.84	+/-1.02		pCi/L		1	NXL1	02/29/24	0906	2570940	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.0921	+/-0.233	0.487	+/-0.234	1.00	pCi/L			MJ2	02/28/24	0943	2563219	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"	2568570	77.5	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Atlanta, Georgia 30308 Report Date: February 29, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-PZ-60I
Sample ID: 653911007
Matrix: WG
Collect Date: 01-FEB-24
Receive Date: 02-FEB-24
Collector: Client

Project: GPCC00101
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		3.04	+/-1.47	2.20	+/-1.67	3.00	pCi/L			JE1	02/28/24	0941	2568570	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		4.39	+/-1.58	2.20	+/-1.78		pCi/L		1	NXL1	02/29/24	0906	2570940	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		1.35	+/-0.576	0.574	+/-0.611	1.00	pCi/L			MJ2	02/28/24	0943	2563219	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"	2568570	78.5	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Company : Georgia Power Company, Southern
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241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: February 29, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-PZ-61I
Sample ID: 653911008
Matrix: WG
Collect Date: 01-FEB-24
Receive Date: 02-FEB-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.80	+/-1.16	1.80	+/-1.25	3.00	pCi/L			JE1	02/28/24	0941	2568570	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.25	+/-1.22	1.80	+/-1.31		pCi/L		1	NXL1	02/29/24	0906	2570940	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.452	+/-0.367	0.407	+/-0.377	1.00	pCi/L			MJ2	02/28/24	0943	2563219	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"	2568570	77.2	(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: February 29, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-PZ-51I
Sample ID: 653911009
Matrix: WG
Collect Date: 01-FEB-24
Receive Date: 02-FEB-24
Collector: Client

Project: GPCC00101
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		1.49	+/-0.918	1.37	+/-0.995	3.00	pCi/L			JE1	02/28/24	0941	2568570	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.24	+/-1.03	1.37	+/-1.11		pCi/L		1	NXL1	02/29/24	0906	2570940	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.747	+/-0.472	0.516	+/-0.485	1.00	pCi/L			MJ2	02/28/24	0943	2563219	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"	2568570	80	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Company : Georgia Power Company, Southern
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Atlanta, Georgia 30308 Report Date: February 29, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-APBCD-FD-03 Project: GPCC00101
Sample ID: 653911010 Client ID: GPCC001
Matrix: WG
Collect Date: 01-FEB-24
Receive Date: 02-FEB-24
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.22	+/-0.886	1.35	+/-0.940	3.00	pCi/L			JE1	02/28/24	0941	2568570	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.32	+/-1.04	1.35	+/-1.11		pCi/L		1	NXL1	02/29/24	0906	2570940	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		1.10	+/-0.546	0.455	+/-0.587	1.00	pCi/L			MJ2	02/28/24	1002	2563219	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"	2568570	73.6	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Atlanta, Georgia 30308 Report Date: February 29, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-PZ-51D
Sample ID: 653911011
Matrix: WG
Collect Date: 01-FEB-24
Receive Date: 02-FEB-24
Collector: Client

Project: GPCC00101
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		3.02	+/-1.26	1.71	+/-1.47	3.00	pCi/L			JE1	02/28/24	0940	2568570	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		5.03	+/-1.46	1.71	+/-1.68		pCi/L		1	NXL1	02/29/24	0906	2570940	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		2.01	+/-0.737	0.471	+/-0.799	1.00	pCi/L			MJ2	02/28/24	1002	2563219	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"	2568570	75.7	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Atlanta, Georgia 30308 Report Date: February 29, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-APBCD-EB-04 Project: GPCC00101
Sample ID: 653911012 Client ID: GPCC001
Matrix: WQ
Collect Date: 01-FEB-24
Receive Date: 02-FEB-24
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	-0.171	+/-0.881	1.72	+/-0.882	3.00	pCi/L			JE1	02/28/24	0940	2568570	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	0.0349	+/-0.895	1.72	+/-0.895		pCi/L		1	NXL1	02/29/24	0906	2570940	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.0349	+/-0.153	0.409	+/-0.153	1.00	pCi/L			MJ2	02/28/24	1002	2563219	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"	2568570	75	(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: February 29, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-BRGWC-52I
Sample ID: 653911013
Matrix: WG
Collect Date: 01-FEB-24
Receive Date: 02-FEB-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		2.56	+/-1.16	1.64	+/-1.33	3.00	pCi/L			JE1	02/28/24	0940	2568570	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		4.51	+/-1.32	1.64	+/-1.54		pCi/L		1	NXL1	02/29/24	0906	2570940	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		1.95	+/-0.642	0.413	+/-0.776	1.00	pCi/L			MJ2	02/28/24	1002	2563219	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"	2568570	83.8	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Atlanta, Georgia 30308 Report Date: February 29, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-PZ-63I
Sample ID: 653911014
Matrix: WG
Collect Date: 01-FEB-24
Receive Date: 02-FEB-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.08	+/-1.10	1.82	+/-1.14	3.00	pCi/L			JE1	02/28/24	0940	2568570	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	1.52	+/-1.16	1.82	+/-1.19		pCi/L		1	NXL1	02/29/24	0906	2570940	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.439	+/-0.358	0.440	+/-0.367	1.00	pCi/L			MJ2	02/28/24	1002	2563219	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"	2568570	81	(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: February 29, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-PZ-64I
Sample ID: 653911015
Matrix: WG
Collect Date: 01-FEB-24
Receive Date: 02-FEB-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.682	+/-1.31	2.29	+/-1.33	3.00	pCi/L			JE1	02/28/24	0940	2568570	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	1.05	+/-1.36	2.29	+/-1.37		pCi/L		1	NXL1	02/29/24	0906	2570940	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.364	+/-0.351	0.525	+/-0.359	1.00	pCi/L			MJ2	02/28/24	1002	2563219	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"	2568570	77.3	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Atlanta, Georgia 30308 Report Date: February 29, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-APBCD-FD-02
Sample ID: 653911016
Matrix: WG
Collect Date: 01-FEB-24
Receive Date: 02-FEB-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		2.29	+/-1.41	2.16	+/-1.52	3.00	pCi/L			JE1	02/28/24	1119	2568570	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		4.05	+/-1.57	2.16	+/-1.70		pCi/L		1	NXL1	02/29/24	0906	2570940	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		1.76	+/-0.694	0.404	+/-0.761	1.00	pCi/L			MJ2	02/28/24	1002	2563219	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"	2568570	82.1	(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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Atlanta, Georgia 30308 Report Date: February 29, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-APBCD-FB-02
Sample ID: 653911017
Matrix: WQ
Collect Date: 01-FEB-24
Receive Date: 02-FEB-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	-0.238	+/-0.923	1.79	+/-0.923	3.00	pCi/L			JE1	02/28/24	0940	2568570	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	0.000	+/-0.948	1.79	+/-0.948		pCi/L		1	NXL1	02/29/24	0906	2570940	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	-0.141	+/-0.218	0.701	+/-0.218	1.00	pCi/L			MJ2	02/28/24	1002	2563219	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"	2568570	80.7	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-PZ-74I
Sample ID: 653911018
Matrix: WG
Collect Date: 01-FEB-24
Receive Date: 02-FEB-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.559	+/-0.867	1.51	+/-0.878	3.00	pCi/L			JE1	02/28/24	0939	2568570	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	0.912	+/-0.951	1.51	+/-0.963		pCi/L		1	NXL1	02/29/24	0906	2570940	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.353	+/-0.391	0.614	+/-0.395	1.00	pCi/L			MJ2	02/28/24	1021	2563219	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"	2568570	83.8	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Atlanta, Georgia 30308 Report Date: February 29, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-APBCD-EB-06
Sample ID: 653911019
Matrix: WQ
Collect Date: 01-FEB-24
Receive Date: 02-FEB-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.215	+/-0.738	1.38	+/-0.740	3.00	pCi/L			JE1	02/28/24	0939	2568570	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	0.494	+/-0.789	1.38	+/-0.792		pCi/L		1	NXL1	02/29/24	0906	2570940	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.279	+/-0.278	0.363	+/-0.282	1.00	pCi/L			MJ2	02/28/24	1021	2563219	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"	2568570	82	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Atlanta, Georgia 30308 Report Date: February 29, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-PZ-68D
Sample ID: 653911020
Matrix: WG
Collect Date: 01-FEB-24
Receive Date: 02-FEB-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.09	+/-1.00	1.64	+/-1.04	3.00	pCi/L			JE1	02/28/24	0939	2568570	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.16	+/-1.14	1.64	+/-1.19		pCi/L		1	NXL1	02/29/24	0906	2570940	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		1.07	+/-0.545	0.403	+/-0.584	1.00	pCi/L			MJ2	02/28/24	1021	2563219	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"	2568570	85.7	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
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Atlanta, Georgia 30308 Report Date: February 29, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceAPBCD-R

Client Sample ID: BRA-PZ-75I
Sample ID: 653911021
Matrix: WG
Collect Date: 01-FEB-24
Receive Date: 02-FEB-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.679	+/-0.931	1.60	+/-0.947	3.00	pCi/L			JE1	02/28/24	1119	2568570	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.19	+/-1.11	1.60	+/-1.16		pCi/L		1	NXL1	02/29/24	0906	2570940	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		1.51	+/-0.601	0.514	+/-0.676	1.00	pCi/L			MJ2	02/28/24	1021	2563219	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"	2568570	80.1	(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

Radiochemistry
Technical Case Narrative
Georgia Power Company
SDG #: 653584

Product: **Radium-226+Radium-228 Calculation**
Analytical Method: Calculation
Analytical Procedure: GL-RAD-D-003 REV# 45
Analytical Batch: 2570132

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
653584001	BRA-BRGWC-32S
653584002	BRA-BRGWC-47
653584003	BRA-PZ-44
653584004	BRA-BRGWA-23S
653584005	BRA-BRGWC-30I
653584006	BRA-APBCD-FD-01

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: 2568518

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
653584001	BRA-BRGWC-32S
653584002	BRA-BRGWC-47
653584003	BRA-PZ-44
653584004	BRA-BRGWA-23S
653584005	BRA-BRGWC-30I
653584006	BRA-APBCD-FD-01
1205650244	Method Blank (MB)
1205650245	653572001(BRA-BRGWA-2S) Sample Duplicate (DUP)
1205650246	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures

for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Method Blank Criteria
The blank result (See Below) is greater than the MDC but less than the required detection limit.

Sample	Analyte	Value
1205650244 (MB)	Radium-228	Result: 2.37 pCi/L > MDA: 1.79 pCi/L <= RDL: 3.00 pCi/L

Product: **Lucas Cell, Ra226, Liquid**
Analytical Method: EPA 903.1 Modified
Analytical Procedure: GL-RAD-A-008 REV# 15
Analytical Batch: 2561841

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
653584001	BRA-BRGWC-32S
653584002	BRA-BRGWC-47
653584003	BRA-PZ-44
653584004	BRA-BRGWA-23S
653584005	BRA-BRGWC-30I
653584006	BRA-APBCD-FD-01
1205637591	Method Blank (MB)
1205637592	653572001(BRA-BRGWA-2S) Sample Duplicate (DUP)
1205637593	653572001(BRA-BRGWA-2S) Matrix Spike (MS)
1205637594	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, 1205637593 (BRA-BRGWA-2SMS), 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.

Radiochemistry
Technical Case Narrative
Georgia Power Company
SDG #: 653911

Product: **Radium-226+Radium-228 Calculation**
Analytical Method: Calculation
Analytical Procedure: GL-RAD-D-003 REV# 45
Analytical Batch: 2568537

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
653911001	BRA-PZ-50D
653911002	BRA-APBCD-EB-05
653911003	BRA-BRGWC-50
653911004	BRA-APBCD-FB-03

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: **Radium-226+Radium-228 Calculation**
Analytical Method: Calculation
Analytical Procedure: GL-RAD-D-003 REV# 45
Analytical Batch: 2570940

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
653911005	BRA-BRGWC-45
653911006	BRA-PZ-58I
653911007	BRA-PZ-60I
653911008	BRA-PZ-61I
653911009	BRA-PZ-51I
653911010	BRA-APBCD-FD-03
653911011	BRA-PZ-51D
653911012	BRA-APBCD-EB-04
653911013	BRA-BRGWC-52I
653911014	BRA-PZ-63I
653911015	BRA-PZ-64I
653911016	BRA-APBCD-FD-02
653911017	BRA-APBCD-FB-02
653911018	BRA-PZ-74I
653911019	BRA-APBCD-EB-06
653911020	BRA-PZ-68D
653911021	BRA-PZ-75I

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: 2568527

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
653911001	BRA-PZ-50D
653911002	BRA-APBCD-EB-05
653911003	BRA-BRGWC-50
653911004	BRA-APBCD-FB-03
1205650269	Method Blank (MB)
1205650270	653854001(BRA-BRGWC-29I) Sample Duplicate (DUP)
1205650271	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **GFPC Ra228, Liquid**
Analytical Method: EPA 904.0/SW846 9320 Modified
Analytical Procedure: GL-RAD-A-063 REV# 5
Analytical Batch: 2568570

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
653911005	BRA-BRGWC-45
653911006	BRA-PZ-58I
653911007	BRA-PZ-60I
653911008	BRA-PZ-61I
653911009	BRA-PZ-51I
653911010	BRA-APBCD-FD-03
653911011	BRA-PZ-51D
653911012	BRA-APBCD-EB-04
653911013	BRA-BRGWC-52I

653911014	BRA-PZ-63I
653911015	BRA-PZ-64I
653911016	BRA-APBCD-FD-02
653911017	BRA-APBCD-FB-02
653911018	BRA-PZ-74I
653911019	BRA-APBCD-EB-06
653911020	BRA-PZ-68D
653911021	BRA-PZ-75I
1205650367	Method Blank (MB)
1205650368	653911005(BRA-BRGWC-45) Sample Duplicate (DUP)
1205650369	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 653911016 (BRA-APBCD-FD-02) was recounted to verify sample results. Recount is reported. Samples 1205650368 (BRA-BRGWC-45DUP) and 653911021 (BRA-PZ-75I) were recounted due to high relative percent difference/relative error ratio. The recounts are reported.

Product: **Lucas Cell, Ra226, Liquid**
Analytical Method: EPA 903.1 Modified
Analytical Procedure: GL-RAD-A-008 REV# 15
Analytical Batch: 2563218

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
653911001	BRA-PZ-50D
653911002	BRA-APBCD-EB-05
653911003	BRA-BRGWC-50
653911004	BRA-APBCD-FB-03
1205639958	Method Blank (MB)
1205639959	653854001(BRA-BRGWC-29I) Sample Duplicate (DUP)
1205639960	653854001(BRA-BRGWC-29I) Matrix Spike (MS)
1205639961	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, 1205639960 (BRA-BRGWC-29IMS), aliquot was reduced to conserve sample volume.

Product: **Lucas Cell, Ra226, Liquid**
Analytical Method: EPA 903.1 Modified
Analytical Procedure: GL-RAD-A-008 REV# 15
Analytical Batch: 2563219

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
653911005	BRA-BRGWC-45
653911006	BRA-PZ-58I
653911007	BRA-PZ-60I
653911008	BRA-PZ-61I
653911009	BRA-PZ-51I
653911010	BRA-APBCD-FD-03
653911011	BRA-PZ-51D
653911012	BRA-APBCD-EB-04
653911013	BRA-BRGWC-52I
653911014	BRA-PZ-63I
653911015	BRA-PZ-64I
653911016	BRA-APBCD-FD-02
653911017	BRA-APBCD-FB-02
653911018	BRA-PZ-74I
653911019	BRA-APBCD-EB-06
653911020	BRA-PZ-68D
653911021	BRA-PZ-75I
1205639962	Method Blank (MB)
1205639963	653911005(BRA-BRGWC-45) Sample Duplicate (DUP)
1205639964	653911005(BRA-BRGWC-45) Matrix Spike (MS)
1205639965	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, 1205639964 (BRA-BRGWC-45MS), 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.

Radiochemistry
Technical Case Narrative
Georgia Power Company
SDG #: 653854

Product: **Radium-226+Radium-228 Calculation**
Analytical Method: Calculation
Analytical Procedure: GL-RAD-D-003 REV# 45
Analytical Batch: 2568537

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
653854001	BRA-BRGWC-29I
653854002	BRA-BRGWC-25I
653854003	BRA-BRGWC-27I
653854004	BRA-APBCD-FB-01

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: 2568527

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
653854001	BRA-BRGWC-29I
653854002	BRA-BRGWC-25I
653854003	BRA-BRGWC-27I
653854004	BRA-APBCD-FB-01
1205650269	Method Blank (MB)
1205650270	653854001(BRA-BRGWC-29I) Sample Duplicate (DUP)
1205650271	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **Lucas Cell, Ra226, Liquid**
Analytical Method: EPA 903.1 Modified
Analytical Procedure: GL-RAD-A-008 REV# 15
Analytical Batch: 2563218

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
653854001	BRA-BRGWC-29I
653854002	BRA-BRGWC-25I
653854003	BRA-BRGWC-27I
653854004	BRA-APBCD-FB-01
1205639958	Method Blank (MB)
1205639959	653854001(BRA-BRGWC-29I) Sample Duplicate (DUP)
1205639960	653854001(BRA-BRGWC-29I) Matrix Spike (MS)
1205639961	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, 1205639960 (BRA-BRGWC-29IMS), aliquot was reduced to conserve sample volume.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

QC Summary

Client : **Georgia Power Company, Southern Company**
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia

Contact: **Joju Abraham**

Workorder: **653584**

Report Date: February 27, 2024

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gas Flow										
Batch 2568518										
QC1205650245 653572001 DUP										
Radium-228		2.10	U	1.41	pCi/L	39.2		(0% - 100%)	JE1	02/23/2412:50
	Uncert:	+/-1.28		+/-0.941						
	TPU:	+/-1.39		+/-1.01						
QC1205650246 LCS										
Radium-228	73.9			80.2	pCi/L		109	(75%-125%)	JE1	02/23/2412:50
	Uncert:			+/-4.25						
	TPU:			+/-21.0						
QC1205650244 MB										
Radium-228				2.37	pCi/L				JE1	02/23/2412:50
	Uncert:			+/-1.21						
	TPU:			+/-1.36						
Rad Ra-226										
Batch 2561841										
QC1205637592 653572001 DUP										
Radium-226	U	0.439	U	0.748	pCi/L	0		N/A	MJ2	02/26/2410:29
	Uncert:	+/-0.391		+/-0.667						
	TPU:	+/-0.398		+/-0.676						
QC1205637594 LCS										
Radium-226	26.4			24.7	pCi/L		93.4	(75%-125%)	MJ2	02/26/2410:29
	Uncert:			+/-3.03						
	TPU:			+/-5.48						
QC1205637591 MB										
Radium-226			U	0.197	pCi/L				MJ2	02/26/2410:29
	Uncert:			+/-0.337						
	TPU:			+/-0.340						
QC1205637593 653572001 MS										
Radium-226	135 U	0.439		114	pCi/L		84.3	(75%-125%)	MJ2	02/26/2410:29
	Uncert:	+/-0.391		+/-14.3						
	TPU:	+/-0.398		+/-31.1						

Notes:

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

The Qualifiers in this report are defined as follows:

U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported

QC Summary

Workorder: **653584**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time

UI	Gamma Spectroscopy--Uncertain identification
BD	Results are either below the MDC or tracer recovery is low
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
M	M if above MDC and less than LLD
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
FA	Failed analysis.
UJ	Gamma Spectroscopy--Uncertain identification
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
K	Analyte present. Reported value may be biased high. Actual value is expected to be lower.
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.
L	Analyte present. Reported value may be biased low. Actual value is expected to be higher.
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
**	Analyte is a Tracer compound
M	REMP Result > MDC/CL and < RDL
J	See case narrative for an explanation

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
** Indicates analyte is a surrogate/tracer compound.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptence criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

QC Summary

Client : **Georgia Power Company, Southern Company**
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia

Contact: **Joju Abraham**

Workorder: **653911**

Report Date: February 29, 2024

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gas Flow										
Batch 2568527										
QC1205650270 653854001 DUP										
Radium-228	U	1.00		1.89	pCi/L	61.3		(0% - 100%)	JE1	02/27/2408:20
	Uncert:	+/-1.18		+/-1.14						
	TPU:	+/-1.21		+/-1.23						
QC1205650271 LCS										
Radium-228	72.9			59.5	pCi/L		81.6	(75%-125%)	JE1	02/27/2408:20
	Uncert:			+/-3.71						
	TPU:			+/-15.9						
QC1205650269 MB										
Radium-228			U	0.543	pCi/L				JE1	02/27/2408:20
	Uncert:			+/-0.948						
	TPU:			+/-0.958						
Batch 2568570										
QC1205650368 653911005 DUP										
Radium-228	U	0.566	U	2.27	pCi/L	0		N/A	JE1	02/28/2411:19
	Uncert:	+/-0.912		+/-1.66						
	TPU:	+/-0.923		+/-1.76						
QC1205650369 LCS										
Radium-228	71.6			60.9	pCi/L		85	(75%-125%)	JE1	02/28/2409:39
	Uncert:			+/-3.76						
	TPU:			+/-16.0						
QC1205650367 MB										
Radium-228			U	0.686	pCi/L				JE1	02/28/2409:39
	Uncert:			+/-0.967						
	TPU:			+/-0.983						
Rad Ra-226										
Batch 2563218										
QC1205639959 653854001 DUP										
Radium-226		2.01		1.67	pCi/L	18.6		(0%-20%)	LXP1	02/22/2409:26
	Uncert:	+/-0.524		+/-0.447						
	TPU:	+/-0.614		+/-0.513						
QC1205639961 LCS										
Radium-226	26.6			29.1	pCi/L		109	(75%-125%)	LXP1	02/22/2409:26
	Uncert:			+/-1.95						
	TPU:			+/-4.97						
QC1205639958 MB										
Radium-226			U	0.137	pCi/L				LXP1	02/22/2409:26
	Uncert:			+/-0.142						
	TPU:			+/-0.145						
QC1205639960 653854001 MS										
Radium-226	93.8	2.01		76.2	pCi/L		79.1	(75%-125%)	LXP1	02/22/2409:26

QC Summary

Workorder: **653911**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Ra-226										
Batch 2563218										
	Uncert:	+/-0.524		+/-5.42						
	TPU:	+/-0.614		+/-12.6						
Batch 2563219										
QC1205639963 653911005 DUP										
Radium-226		0.650		0.665	pCi/L	2.25		(0% - 100%)	MJ2	02/28/2410:21
	Uncert:	+/-0.388		+/-0.419						
	TPU:	+/-0.404		+/-0.439						
QC1205639965 LCS										
Radium-226	26.7			24.7	pCi/L		92.6	(75%-125%)	MJ2	02/28/2410:21
	Uncert:			+/-2.56						
	TPU:			+/-6.39						
QC1205639962 MB										
Radium-226			U	0.0563	pCi/L				MJ2	02/28/2410:21
	Uncert:			+/-0.292						
	TPU:			+/-0.292						
QC1205639964 653911005 MS										
Radium-226	134	0.650		121	pCi/L		89.8	(75%-125%)	MJ2	02/28/2410:21
	Uncert:	+/-0.388		+/-12.4						
	TPU:	+/-0.404		+/-25.5						

Notes:

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

The Qualifiers in this report are defined as follows:

U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported
UI	Gamma Spectroscopy--Uncertain identification
BD	Results are either below the MDC or tracer recovery is low
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
M	M if above MDC and less than LLD
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
FA	Failed analysis.
UJ	Gamma Spectroscopy--Uncertain identification
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
K	Analyte present. Reported value may be biased high. Actual value is expected to be lower.
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.

QC Summary

Workorder: **653911**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

L Analyte present. Reported value may be biased low. Actual value is expected to be higher.

N1 See case narrative

Y Other specific qualifiers were required to properly define the results. Consult case narrative.

** Analyte is a Tracer compound

M REMP Result > MDC/CL and < RDL

J See case narrative for an explanation

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
** Indicates analyte is a surrogate/tracer compound.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptence criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

QC Summary

Client : **Georgia Power Company, Southern Company**
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia

Contact: **Joju Abraham**

Workorder: **653854**

Report Date: February 28, 2024

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gas Flow										
Batch 2568527										
QC1205650270 653854001 DUP										
Radium-228	U	1.00		1.89	pCi/L	61.3		(0% - 100%)	JE1	02/27/2408:20
	Uncert:	+/-1.18		+/-1.14						
	TPU:	+/-1.21		+/-1.23						
QC1205650271 LCS										
Radium-228	72.9			59.5	pCi/L		81.6	(75%-125%)	JE1	02/27/2408:20
	Uncert:			+/-3.71						
	TPU:			+/-15.9						
QC1205650269 MB										
Radium-228			U	0.543	pCi/L				JE1	02/27/2408:20
	Uncert:			+/-0.948						
	TPU:			+/-0.958						
Rad Ra-226										
Batch 2563218										
QC1205639959 653854001 DUP										
Radium-226		2.01		1.67	pCi/L	18.6		(0%-20%)	LXP1	02/22/2409:26
	Uncert:	+/-0.524		+/-0.447						
	TPU:	+/-0.614		+/-0.513						
QC1205639961 LCS										
Radium-226	26.6			29.1	pCi/L		109	(75%-125%)	LXP1	02/22/2409:26
	Uncert:			+/-1.95						
	TPU:			+/-4.97						
QC1205639958 MB										
Radium-226			U	0.137	pCi/L				LXP1	02/22/2409:26
	Uncert:			+/-0.142						
	TPU:			+/-0.145						
QC1205639960 653854001 MS										
Radium-226	93.8	2.01		76.2	pCi/L		79.1	(75%-125%)	LXP1	02/22/2409:26
	Uncert:	+/-0.524		+/-5.42						
	TPU:	+/-0.614		+/-12.6						

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

QC Summary

Workorder: **653854**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time

UI	Gamma Spectroscopy--Uncertain identification
BD	Results are either below the MDC or tracer recovery is low
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
M	M if above MDC and less than LLD
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
FA	Failed analysis.
UJ	Gamma Spectroscopy--Uncertain identification
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
K	Analyte present. Reported value may be biased high. Actual value is expected to be lower.
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.
L	Analyte present. Reported value may be biased low. Actual value is expected to be higher.
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
**	Analyte is a Tracer compound
M	REMP Result > MDC/CL and < RDL
J	See case narrative for an explanation

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
** Indicates analyte is a surrogate/tracer compound.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptence criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Page: ___ of ___
Project #:
GEL Quote #:
COC Number (3):
PO Number: GPC82179-0005

GEL Laboratories LLC

663853/663854

Chemistry | Radiochemistry | Radiobioassay | Specialty Analytes

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power | Phone #: 404-506-7116

Project/Site Name: Plant Branch Ash Ponds - BCD | Fax #:

Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308

Collected By: J Bould # and ACC | Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (* Use comparison - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please complete the questionnaire.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS, NO3 EPA 300, SM 2540C	Total Carb, Bicarb, Alk SM 2320B	Metals * EPA 6020, 6010, 7470	NI	Radium 226 & 228 SW 846 9315, 9320	NI	Sulfide SM 4500	<-- Preservative Type (6)
BRA-BR6WL-29I	01/31/24	1040	G	N	WG			8	✓	✓	✓		✓		✓	
BRA-BR6WL-25I	01/31/24	1437	G	N	WG			8	✓	✓	✓		✓		✓	
BRA-BR6WL-27I	01/31/24	1540	G	N	WG			8	✓	✓	✓		✓		✓	
BRA-MPBCD-FB-01	01/31/24	1425	G	N	WQ			8	✓	✓	✓		✓		—	
BRA-																
BRA-																
BRA-																
BRA-																
BRA-																
BRA-																

Comments
Note: extra sample is required for sample specific QC
Task_Code: BRA-CCR-ASSMT-2024S1

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	[signature]	2/1/24	0736	[signature]	2/1/24	0736
2	[signature]	2/1/24	100	[signature]	2/1/24	130
3						

TAT Requested: Normal: X Rush: ___ Specify: ___ (Subject to Surcharge)

Fax Results: [ ] Yes [x] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] Level I [x] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Ag,Mn,K,No,Hg

For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No Cooler Temp: ___ °C

> For sample shipping and delivery details, see Sample Receipt & Review form (SRR).

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

(1) Chain of Custody Number = Client Determined

(2) QC Codes: N = Normal Sample, TB = Trip Blank, FB = 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" if the sample was field filtered or "N" if the sample was not field filtered.

(4) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix

(5) Sample Analysis Requested: Analytical method requested (i.e. 82608, 8010B/7470A) and number of containers provided for each (i.e. 82608 = 3, 8010B/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, Other preservative 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 MI = Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW = Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT = Other / Unknown
(i.e. highflow pH, asbestos, beryllium, pyrolysis, 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 contained from, safe quantities, etc.)

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653853 ET
653854

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPC — SDG/AR/COC/Work Order:

Received By: CLM — Date Received: 2/1/24

Carrier and Tracking Number — Client Drop Off / Fed Ex Ground / UPS / Field Services / Courier / Other

Coolers 1-0° 3-1° 5-0° 2-0° 4-0° 6-1°

Suspected Hazard Information	Yes	No	If Yes to any of these, please contact the Project Manager for further investigation
1) Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: Is the Shipper's Declaration for Dangerous Goods Complete? Yes No
2) Did the client designate the samples are to be received as radioactive?		✓	
3) Did the RSO classify the samples as radioactive?		✓	Radionuclides Present: Classified as: Rad 1 Rad 2 Rad 3 — Activity: CPM / mR/Hr
4) Did the client designate the samples are hazardous?		✓	
5) Did the RSO identify possible hazards?		✓	If Yes or Unsure, select Hazards below: PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

Sample Receipt Criteria	Yes	No	N/A	Comments/Qualifiers (Required for Non-Conforming Items)
1 Shipping container(s) received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2 Chain of custody documents included with shipment?	✓			Circle Applicable: Client supplied manifest Other
3 Samples requiring cold preservation within (0 ≤ 6 deg. C)*	✓			Preservation Method: Wet Ice Ice Packs Dry Ice None Other: TEMP: See above with ONE Liners
4 Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: Secondary Temperature Device Serial # (If Applicable):
5 Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged Container Leaking container Other (describe)
6 Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Container Affected: If Preservation Added, Lot#:
7 Do any samples require Volatile Analysis?	✓			If Yes, are Encores or Data for 5035 project needed? Yes No If Yes, select appropriate option below: Are liquid VOA vials free of headspace? Yes No N/A Sample ID's and containers affected:
8 Samples received within holding time?	✓			ID's and containers affected:
9 Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10 Date & time on COC match date & time on bottles?	✓			Circle Applicable: Missing collection date/time Missing sample ID Other (describe)
11 Number of containers received match number indicated on COC?	✓			Circle Applicable: Added on COC Other (describe)
12 Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13 COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials CMJ Date 02/01/24 Page 1 of 1

GL-CHL-SR-001 Rev 7

653909
653911

Page: ____ of ____
Project #: ____
GEL Quote #: ____
COC Number [2]: ____
PO Number: GPC82177-0006

GEL Laboratories LLC
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: ____ GEL Project Manager: Erin Trent

GEL Laboratories
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power — Phone #: 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - BCD — Fax #:
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: [illegible] ACC — Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites – enter date and time of each aliquot)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code [1]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please note in comments below)	Should this sample be considered: [7] Hazardous (possible Hazards)	Total number of containers	Cl, F, SO4, TDS, NO3 EPA 300, SM 2540C	Total Coli, E.Coli SM 9223B	Metals* EPA 6020, 6010, 7470	Radium 226 & 228 SW 9315, 9320	Sulfide SM 4500	<-- Preservative Type [6]
BRA-PZ-50D	02/01/24	1015	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-APBCD-EB-05	02/01/24	1130	G	N	WQ			7	✓	✓	✓	✓	✓	
BRA-BRGWC-50	02/01/24	1200	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-APBCD-FB-03	02/01/24	1330	G	N	WQ			8	✓	✓	✓	✓	✓	
BRA-BRGWC-45	02/01/24	1350	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-PZ-58I	02/01/24	1012	G	N	WG			7	✓	✓	✓	✓	✓	
BRA-PZ-60I	02/01/24	1313	G	N	WG			2	✓	✓	✓	✓	✓	
BRA-PZ-61I	02/01/24	1133	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-PZ-51I	02/01/24	1349	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-APBCD-FD-03	02/01/24	—	G	N	WG			8	✓	✓	✓	✓	✓	

Comments
Note: extra sample is required for sample specific QC
Task_Code: BRA-CCR-ASSMT-2024S1

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1 [illegible]	2/2/24	0840	1 [illegible]	2/2/24	840
2			2		
3			3		

TAT Requested: Normal: x Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [x] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] Level 1 [x] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg

For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No Cooler Temp: ____ °C

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

[1] Chain of Custody Number = Client Determined

[2] QC Codes: N = Normal Sample, TB = Trip Blank, FB = 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 samples that were not field filtered.

[4] Matrix Codes: WG=Drinking Water, WC=Ground Water, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix

[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, toluene, beryllium, aerosols, 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.)

653909
653911

Page: ____ of ____
Project #
GEL Quote #
COC Number (1):
PO Number: GPC32177-0006

GEL Laboratories LLC
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number:
GEL Project Manager: Erin Trent

GEL Laboratories
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-817
Fax: (843) 766-1178

Client Name: GA Power
Phone #: 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - BCD
Fax #
Address: 241 Ralph McGill Blvd SE, Athens GA 30308
Collected By: [illegible] 2/1/24 ACC
Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hh:mm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Hazardous (1)	Should this sample be considered: Other (Known or possible Hazards)	Total number of containers	Cl, F, SO4, TDS, PHOT EPA 300, SM 2540C	Total, Diss. & Susp. As, Ba, Be, B, Ca, Cd, Cr, Co, Pb, Li, Mn, Mo, Se, Tl, Fe, Mg, Mn, K, Na, Hg	Metals (4) EPA 6010, 6020, 7470	NE	Radium 226 & 228 EPA 9315, 9320	NI	Sulfide SM 4500							<-- Preservative Type (6)
BRA-PZ-51D	02/01/24	1011	G	N	WG			8	✓	✓	✓		✓		✓						
BRA-APBCD-EB-04	02/01/24	1010	G	N	WQ			8	✓	✓	✓		✓		✓						
BRA-BRGWC-52I	02/01/24	1015	G	N	WG			8	✓	✓	✓		—		✓						
BRA-PZ-63I	02/01/24	1410	G	N	WG			8	✓	✓	✓		✓		✓						
BRA-PZ-64I	02/01/24	1200	G	N	WG			8	✓	✓	✓		✓		✓						
BRA-APBCD-FD-02	02/01/24	—	G	N	WG			8	✓	✓	✓		✓		✓						
BRA-APBCD-EB-02	02/01/24	1115	G	N	WQ			8	✓	✓	✓		✓		✓						
BRA-PZ-74I	02/01/24	1200	G	N	WG			8	✓	✓	✓		—		✓						
BRA-APBCD-EB-06	02/01/24	1305	G	N	WQ			8	✓	✓	✓		✓		✓						
BRA-PZ-62D	02/01/24	0945	G	N	WG			8	✓	✓	✓		✓		✓						

Comments
Note: extra sample is required for sample specific QC
Task_Code: BRA-CCR-ASSMT-202481

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1 [illegible]	2/2/24	0840	1 [illegible]	2/2/24	840
2			2		
3			3		

TAT Requested: Normal: X Rush: ____ Specify: ____ (Subject to Surcharge)
Fax Results: [ ] Yes [X] No
Select Deliverable: [ ] C of A [ ] QC Summary [ ] Level 1 [X] Level 2 [ ] Level 3 [ ] Level 4
Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mn,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg
For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No Cooler Temp: ____ °C
> For sample shipping and delivery details, see Sample Receipt & Review form (SRR)
Sample Collection Time Zone: [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other

(1) Chain of Custody Number = Client Determined
(2) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite
(3) Field Filtered: For liquid matrices, indicate with a Y = Yes for samples that were field filtered or N = No for samples that were not field filtered.
(4) Matrix Codes: WD = Drinking Water, WG = Groundwater, WS = Surface Water, WW = Waste Water, WL = Leachate, SO = Soil, SE = Sediment, SL = Sludge, WQ = Water Quality Control Matrix
(5) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470B) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470B - 1).
(6) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic Hg = Mercury
Ba = Barium Se = Selenium
Cd = Cadmium Ag = Silver
Cr = Chromium MR = Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW = Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT = Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, lachrymators, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

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Page: ____ of ____
Project #:
GEL Quote #:
COC Number (1):
PO Number: GPC82171.0006

GEL Laboratories LLC
Chemistry | Radiochemistry | Radiobioassay | 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

Client Name: GA Power | Phone #: 404-506-7115

Project/Site Name: Plant Branch Ash Ponds - BCD | Fax #:

Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308

Collected By: SD / AA/TL/AS/JACC | Send Results To: BCS & Geosyntec Contacts

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply sample info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Cl, F, SO_4, TDS, NO3 EPA 300.0, SM 4500	Total Calc. & Store alk. SM 2320B	Metals* EPA 6020, 7470, 7471	Rad as 228.1, 9320 EPA 903.1, 9320	Sulfide SM 4500							<-- Preservative Type (6)
BRA- P2-75I	2/1/24	1420	G	N	WG			8	✓	✓	✓	✓	✓							
BRA-																				
BRA-																				
BRA-																				
BRA-																				
BRA-																				
BRA-																				
BRA-																				
BRA-																				
BRA-																				

Comments
Note: extra sample is required for sample specific QC
Task_Code: BRA-CCR-ASSMT-202481

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	[illegible]	2/2/24	0840	[illegible]	2/2/24	840
2						
3						

TAT Requested: Normal: x Rush: Specify: (subject to surcharge)

Fax Results: [ ] Yes [x] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] Level 1 [x] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Ho

For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No Cooler Temp: °C

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

> For sample shipping and delivery details, see Sample Receipt & Review Form (SRR).

(1) Chain of Custody Number = Client Determined

(2) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

(3) Field Filtered: Per Equipment Section, Indicate with a - Y - for yes (we sample over field filtered) or - N - for sample was not field filtered

(4) Matrix Codes: WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Waste

(5) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of Containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).

(6) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

(7) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic; Hg = Mercury
Ba = Barium; Se = Selenium
Cd = Cadmium; Ag = Silver
Cr = Chromium; MR = Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW = Listed Waste
(F, K, P, and U-listed wastes.)
Waste code(s):

Other
OT = Other / Unknown
(i.e.: flight/tire pit, 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, cold shipment, etc.)

653909

653911

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	SDG/ARCOC/Work Order:
Received By: QG	Date Received: 2/2/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier (Other) n/a

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A) Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM / mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)*	✓			Preservation Method: Wet Ice Ice Packs Dry Ice None Other *all temperatures are recorded in Celsius TEMP: 2 c
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR5-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample IDs and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___ (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___ (If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample IDs and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials WJ Date 02/05/24 Page 1 of 1

653582/653584

Page ____ of ____
Project #
GEL Quote #:
COC Number [1]:
PO Number: GPC32177-0006

GEL Laboratories LLC
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number:

GEL Project Manager: Erin Treat

GEL Laboratories
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power | Phone #: 404-506-7116

Project/Site Name: Plant Branch Ash Ponds - ISCD | Fax #:

Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308

Collected By: J.Rowell NAA[CC] | Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested [3]: (Fill in the number of containers for each test)

Sample ID (* For composite - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (Hours)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply sample info)	Should this sample be considered: DW (Acknowledge possible Hazards)	Total number of containers	Cl, F, SO4, TDS, NO3 EPA 300, SM 4500C	Total Calc & Bicarb Alk SM 2320B	Metals* EPA 6010, 6020, 7470	Radium 226 & 228 (precipitate only) 9315	Sulfide SM 4500	<-- Preservative Type (6)
BRA-BRGWC-325	01/30/24	1255	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-BRGWC-47	01/30/24	1456	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-FB-44	01/30/24	1620	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-BRGWA-235	01/30/24	1238	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-BRGWC-301	01/30/24	1734	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-APBGD-FD-01	01/30/24	~	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-														
BRA-														
BRA-														
BRA-														

Comments
Note: extra sample is required for sample specific QC
Task_Code: BRA-CCR-ASSMT-2024S1

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	1/31/24	0708		1/31/24	8:20
2	1/31/24	104		1/31/24	1306
3					

TAT Requested: Normal: x Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [x] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level [x] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg

For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No Cooler Temp: 1 °C

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

* For sample shipping and delivery details, see Sample Receipt & Review form (SRR)

1) Chain of Custody Number = Client Determined

2) QC Codes: N = Normal Sample, TB = Trip Blank, FB = 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' if you the sample was field filtered or 'N' - for samples was not field filtered.

4) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix

5) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6020B(7470A)) and number of containers provided for each (i.e. 8260B - 3, 6020B(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= More RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e., high/low pH, infectious, beryllium, uranium, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Composite samples, type of site collected from, drill sample, etc.)

653570 653584
653572 653575
653582 653580

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC

SDG/AR/COC/Work Order:

Received By: CG

Date Received: 1/31/24

Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other

Carrier and Tracking Number: N/A

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on sample not noted "radioactive", contact the Radiation Safety Group for further investigation.
A) Shipped as a DOT Hazardous?			Hazard Class Shipped: UN#: Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?			[redacted]
C) Did the RSO classify the samples as radioactive?			Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?			[redacted]
E) Did the RSO identify possible hazards?			If "Yes" or if you noted Hazards below: PCBs Flammable Pkg Inspection RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)**	✓			Preservation Method: Wet Ice Ice Packs Dry Ice None Other: ** Acceptable temperatures are from 0 to 6 deg C, unless otherwise noted in Special Instructions. TEMP: 4.6
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR1-29 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?	✓			If Yes, are Encore or Soil Kits present for soils? Yes___ No___ NA___ (If yes, refer to VOA Worksheet) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___ (If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates or times Incomplete dates/times COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No containers listed on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC forms properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials: JVS Date: 01/02/24 Page 1 of 1

List of current GEL Certifications as of 28 February 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122024-05
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	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-23-21
Utah NELAP	SC000122023-38
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

Low-Flow Test Report:

Test Date / Time: 1/30/2024 1:42:12 PM
Project: Plant Branch Ash Ponds
Operator Name: Taylor Goble

Location Name: BRGWC-17S **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 5 ft** **Top of Screen: 5.22 ft** **Total Depth: 10.22 ft** **Initial Depth to Water: 5.93 ft**	**Pump Type: Peristaltic Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 7.5 ft** **Estimated Total Volume Pumped: 3375 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 225 ml/min** **Final Draw Down: 0.27 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 714344**

Test Notes: Meter issues, started new log with new meter.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
1/30/2024 1:42 PM	00:00	5.89 pH	19.42 °C	454.14 µS/cm	2.69 mg/L	15.70 NTU	105.5 mV	6.04 ft	225.00 ml/min
1/30/2024 1:47 PM	05:00	5.85 pH	20.11 °C	443.49 µS/cm	1.29 mg/L	14.40 NTU	100.7 mV	6.14 ft	225.00 ml/min
1/30/2024 1:52 PM	10:00	5.57 pH	49.77 °C	269.28 µS/cm	0.39 mg/L		98.9 mV	6.20 ft	225.00 ml/min
1/30/2024 1:57 PM	15:00	5.51 pH	58.38 °C	241.61 µS/cm	0.26 mg/L		98.6 mV	6.20 ft	225.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 1/30/2024 3:21:53 PM
Project: Plant Branch Ash Ponds
Operator Name: Taylor Goble

Location Name: BRGWC-17S **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 5 ft** **Top of Screen: 5.22 ft** **Total Depth: 10.22 ft** **Initial Depth to Water: 5.93 ft**	**Pump Type: Peristaltic Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 7.5 ft** **Estimated Total Volume Pumped: 6757.5 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 225 ml/min** **Final Draw Down: 0.27 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965678**

Test Notes:
Sampled at 1551. Sunny 57 degrees.
2 Logs, 10L purged total.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
1/30/2024 3:21 PM	00:00	5.85 pH	13.49 °C	505.60 µS/cm	2.03 mg/L	3.38 NTU	117.5 mV	6.01 ft	225.00 ml/min
1/30/2024 3:26 PM	05:00	6.14 pH	14.80 °C	439.28 µS/cm	1.31 mg/L	1.27 NTU	93.9 mV	6.12 ft	225.00 ml/min
1/30/2024 3:31 PM	10:00	6.21 pH	14.95 °C	435.68 µS/cm	1.24 mg/L	0.54 NTU	86.4 mV	6.18 ft	225.00 ml/min
1/30/2024 3:36 PM	15:00	6.23 pH	14.86 °C	437.43 µS/cm	1.22 mg/L	0.51 NTU	82.3 mV	6.20 ft	225.00 ml/min
1/30/2024 3:41 PM	20:00	6.26 pH	14.97 °C	435.62 µS/cm	1.19 mg/L	0.47 NTU	79.3 mV	6.20 ft	225.00 ml/min
1/30/2024 3:46 PM	25:02	6.26 pH	14.89 °C	438.88 µS/cm	1.17 mg/L	0.42 NTU	77.3 mV	6.20 ft	225.00 ml/min
1/30/2024 3:51 PM	30:02	6.28 pH	14.94 °C	437.36 µS/cm	1.14 mg/L	0.44 NTU	75.6 mV	6.20 ft	225.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 1/31/2024 11:25:18 AM
Project: Plant Branch Ash Ponds
Operator Name: A. Schnittker

Location Name: BRGWC-33S **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 18 ft** **Total Depth: 28.88 ft** **Initial Depth to Water: 13.35 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 24 ft** **Estimated Total Volume Pumped: 15 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 300 ml/min** **Final Draw Down: 3 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080307**

Test Notes:
Sample time 1215. Sunny 50s. FD-05 here.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
1/31/2024 11:25 AM	00:00	4.78 pH	18.78 °C	1,291.5 µS/cm	2.32 mg/L	4.28 NTU	160.2 mV	13.35 ft	300.00 ml/min
1/31/2024 11:30 AM	05:00	4.79 pH	19.34 °C	1,319.5 µS/cm	1.17 mg/L	3.85 NTU	196.3 mV	13.60 ft	300.00 ml/min
1/31/2024 11:35 AM	10:00	4.79 pH	19.36 °C	1,321.2 µS/cm	1.01 mg/L	1.95 NTU	353.2 mV	13.60 ft	300.00 ml/min
1/31/2024 11:40 AM	15:00	4.79 pH	19.37 °C	1,323.3 µS/cm	0.89 mg/L	1.17 NTU	385.3 mV	13.60 ft	300.00 ml/min
1/31/2024 11:45 AM	20:00	4.78 pH	19.43 °C	1,325.1 µS/cm	0.82 mg/L	0.57 NTU	408.1 mV	13.60 ft	300.00 ml/min
1/31/2024 11:50 AM	25:00	4.79 pH	19.32 °C	1,323.9 µS/cm	0.73 mg/L	0.49 NTU	417.1 mV	13.60 ft	300.00 ml/min
1/31/2024 11:55 AM	30:00	4.78 pH	19.41 °C	1,328.2 µS/cm	0.68 mg/L	0.35 NTU	427.8 mV	13.60 ft	300.00 ml/min
1/31/2024 12:00 PM	35:00	4.78 pH	19.41 °C	1,328.4 µS/cm	0.62 mg/L	0.46 NTU	433.2 mV	13.60 ft	300.00 ml/min
1/31/2024 12:05 PM	40:00	4.78 pH	19.44 °C	1,328.3 µS/cm	0.56 mg/L	0.34 NTU	444.5 mV	13.60 ft	300.00 ml/min
1/31/2024 12:10 PM	45:00	4.78 pH	19.50 °C	1,329.9 µS/cm	0.50 mg/L	0.22 NTU	453.5 mV	13.60 ft	300.00 ml/min
1/31/2024 12:15 PM	50:00	4.78 pH	19.49 °C	1,330.6 µS/cm	0.46 mg/L	0.27 NTU	455.8 mV	13.60 ft	300.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 1/31/2024 9:45:10 AM
Project: Plant Branch Ash Ponds
Operator Name: A. Schnittker

Location Name: BRGWC-34S **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 15 ft** **Total Depth: 25.76 ft** **Initial Depth to Water: 3.45 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 20 ft** **Estimated Total Volume Pumped: 19.1 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 300 ml/min** **Final Draw Down: 2 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080307**

Test Notes:
Sample time 1050. Sunny 50s.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
1/31/2024 9:45 AM	00:00	5.95 pH	17.53 °C	527.06 µS/cm	7.68 mg/L	1.65 NTU	137.2 mV	3.45 ft	225.00 ml/min
1/31/2024 9:50 AM	05:00	5.97 pH	17.81 °C	540.61 µS/cm	3.62 mg/L	0.67 NTU	88.9 mV	3.60 ft	300.00 ml/min
1/31/2024 9:55 AM	10:00	5.96 pH	17.90 °C	503.81 µS/cm	4.87 mg/L	0.57 NTU	79.5 mV	3.60 ft	300.00 ml/min
1/31/2024 10:00 AM	15:00	5.96 pH	17.80 °C	506.12 µS/cm	2.36 mg/L	0.46 NTU	103.5 mV	3.60 ft	300.00 ml/min
1/31/2024 10:05 AM	20:00	5.95 pH	17.94 °C	517.22 µS/cm	3.37 mg/L	0.74 NTU	69.8 mV	3.60 ft	300.00 ml/min
1/31/2024 10:10 AM	25:00	5.95 pH	17.89 °C	539.92 µS/cm	4.80 mg/L	0.57 NTU	68.4 mV	3.60 ft	300.00 ml/min
1/31/2024 10:15 AM	30:00	5.96 pH	17.94 °C	526.37 µS/cm	3.80 mg/L	0.79 NTU	65.0 mV	3.60 ft	300.00 ml/min
1/31/2024 10:20 AM	35:00	5.98 pH	17.99 °C	504.81 µS/cm	3.94 mg/L	0.92 NTU	55.7 mV	3.60 ft	300.00 ml/min
1/31/2024 10:25 AM	40:00	5.95 pH	18.05 °C	490.45 µS/cm	4.01 mg/L	0.74 NTU	90.5 mV	3.60 ft	300.00 ml/min
1/31/2024 10:30 AM	45:00	5.96 pH	18.13 °C	523.16 µS/cm	4.10 mg/L	0.57 NTU	94.4 mV	3.60 ft	300.00 ml/min
1/31/2024 10:35 AM	50:00	5.95 pH	18.11 °C	527.87 µS/cm	2.65 mg/L	0.39 NTU	63.7 mV	3.60 ft	300.00 ml/min
1/31/2024 10:40 AM	55:00	5.95 pH	18.24 °C	529.51 µS/cm	0.62 mg/L	0.23 NTU	73.1 mV	3.60 ft	300.00 ml/min
1/31/2024 10:45 AM	01:00:00	5.95 pH	18.23 °C	529.95 µS/cm	0.45 mg/L	0.26 NTU	51.9 mV	3.60 ft	300.00 ml/min
1/31/2024 10:50 AM	01:05:00	5.95 pH	18.31 °C	528.91 µS/cm	0.38 mg/L	0.18 NTU	67.1 mV	3.60 ft	300.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 1/30/2024 11:30:05 AM
Project: Plant Branch Ash Ponds
Operator Name: Taylor Goble

Location Name: BRGWC-35S **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 20 ft** **Total Depth: 30.01 ft** **Initial Depth to Water: 0.82 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 25 ft** **Estimated Total Volume Pumped: 9000 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: 714344**

Test Notes:
Sampled at 1200. APE-FD-04 taken here. Sunny 50 degrees.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
1/30/2024 11:30 AM	00:00	5.54 pH	18.02 °C	576.94 µS/cm	2.56 mg/L	1.13 NTU	111.9 mV	1.01 ft	300.00 ml/min
1/30/2024 11:35 AM	05:00	5.50 pH	20.69 °C	548.74 µS/cm	0.24 mg/L	0.55 NTU	110.9 mV	1.01 ft	300.00 ml/min
1/30/2024 11:40 AM	10:00	5.49 pH	17.40 °C	578.88 µS/cm	0.22 mg/L	0.47 NTU	110.8 mV	1.01 ft	300.00 ml/min
1/30/2024 11:45 AM	15:00	5.49 pH	17.26 °C	584.26 µS/cm	0.19 mg/L	0.44 NTU	110.8 mV	1.01 ft	300.00 ml/min
1/30/2024 11:50 AM	20:00	5.49 pH	17.59 °C	582.07 µS/cm	0.17 mg/L	0.37 NTU	110.9 mV	1.01 ft	300.00 ml/min
1/30/2024 11:55 AM	25:00	5.50 pH	16.38 °C	603.11 µS/cm	0.18 mg/L	0.45 NTU	110.1 mV	1.01 ft	300.00 ml/min
1/30/2024 12:00 PM	30:00	5.50 pH	18.53 °C	577.10 µS/cm	0.15 mg/L	0.41 NTU	111.0 mV	1.01 ft	300.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 1/31/2024 9:25:33 AM
Project: Plant Branch Ash Ponds
Operator Name: Taylor Goble

Location Name: BRGWC-36S **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 25 ft** **Total Depth: 35.44 ft** **Initial Depth to Water: 5.2 ft**	**Pump Type: Peristaltic Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 30 ft** **Estimated Total Volume Pumped: 9000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 300 ml/min** **Final Draw Down: 0.09 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965678**

Test Notes:
Sampled at 0955. Clear and windy 44 degrees.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
1/31/2024 9:25 AM	00:00	6.70 pH	10.81 °C	529.37 µS/cm	2.51 mg/L	1.13 NTU	125.6 mV	5.29 ft	300.00 ml/min
1/31/2024 9:30 AM	05:00	5.99 pH	11.84 °C	432.95 µS/cm	2.31 mg/L	0.80 NTU	119.7 mV	5.29 ft	300.00 ml/min
1/31/2024 9:35 AM	10:00	5.75 pH	12.61 °C	426.14 µS/cm	2.21 mg/L	0.56 NTU	116.4 mV	5.29 ft	300.00 ml/min
1/31/2024 9:40 AM	15:00	5.67 pH	12.97 °C	422.69 µS/cm	2.19 mg/L	0.49 NTU	114.8 mV	5.29 ft	300.00 ml/min
1/31/2024 9:45 AM	20:00	5.65 pH	13.22 °C	419.46 µS/cm	2.17 mg/L	0.47 NTU	113.2 mV	5.29 ft	300.00 ml/min
1/31/2024 9:50 AM	25:00	5.65 pH	13.46 °C	418.28 µS/cm	2.17 mg/L	0.33 NTU	112.6 mV	5.29 ft	300.00 ml/min
1/31/2024 9:55 AM	30:00	5.63 pH	13.83 °C	415.93 µS/cm	2.19 mg/L	0.38 NTU	112.2 mV	5.29 ft	300.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 1/31/2024 11:22:25 AM
Project: Plant Branch Ash Ponds
Operator Name: Taylor Goble

Location Name: BRGWC-37S **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 56 ft** **Total Depth: 66.24 ft** **Initial Depth to Water: 54.71 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 61 ft** **Estimated Total Volume Pumped: 4800 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 160 ml/min** **Final Draw Down: 1 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965678**

Test Notes:
Sampled at 1152. Clear 50 degrees.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
1/31/2024 11:22 AM	00:00	6.36 pH	16.35 °C	46.05 µS/cm	9.22 mg/L	0.54 NTU	108.8 mV	55.20 ft	160.00 ml/min
1/31/2024 11:27 AM	05:00	5.95 pH	18.39 °C	40.57 µS/cm	7.92 mg/L	0.33 NTU	103.7 mV	55.32 ft	160.00 ml/min
1/31/2024 11:32 AM	10:00	5.80 pH	18.39 °C	39.86 µS/cm	7.72 mg/L	0.25 NTU	104.5 mV	55.48 ft	160.00 ml/min
1/31/2024 11:37 AM	15:00	5.76 pH	18.54 °C	39.62 µS/cm	7.73 mg/L	0.22 NTU	105.3 mV	55.60 ft	160.00 ml/min
1/31/2024 11:42 AM	20:00	5.78 pH	18.55 °C	39.44 µS/cm	7.71 mg/L	0.22 NTU	104.6 mV	55.63 ft	160.00 ml/min
1/31/2024 11:47 AM	25:00	5.77 pH	18.79 °C	39.31 µS/cm	7.69 mg/L	0.20 NTU	105.3 mV	55.66 ft	160.00 ml/min
1/31/2024 11:52 AM	30:00	5.76 pH	18.97 °C	39.42 µS/cm	7.69 mg/L	0.21 NTU	105.7 mV	55.71 ft	160.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 1/31/2024 1:05:22 PM
Project: Plant Branch Ash Ponds
Operator Name: Taylor Goble

Location Name: BRGWC-38S **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 30 ft** **Total Depth: 40.64 ft** **Initial Depth to Water: 24.63 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 35 ft** **Estimated Total Volume Pumped: 7600 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 190 ml/min** **Final Draw Down: 1.22 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965678**

Test Notes:
Sampled at 1345. Cloudy 56 degrees.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
1/31/2024 1:05 PM	00:00	4.89 pH	18.39 °C	371.77 µS/cm	8.50 mg/L	0.35 NTU	150.7 mV	24.88 ft	190.00 ml/min
1/31/2024 1:10 PM	05:00	4.12 pH	17.45 °C	434.26 µS/cm	3.73 mg/L	0.29 NTU	122.6 mV	25.30 ft	190.00 ml/min
1/31/2024 1:15 PM	10:00	4.16 pH	17.98 °C	406.96 µS/cm	2.61 mg/L	0.25 NTU	118.3 mV	25.46 ft	190.00 ml/min
1/31/2024 1:20 PM	15:00	4.17 pH	16.94 °C	399.46 µS/cm	2.56 mg/L	0.24 NTU	118.3 mV	25.58 ft	190.00 ml/min
1/31/2024 1:25 PM	20:00	4.09 pH	17.50 °C	401.88 µS/cm	2.46 mg/L	0.41 NTU	120.7 mV	25.66 ft	190.00 ml/min
1/31/2024 1:30 PM	25:00	4.08 pH	17.76 °C	405.98 µS/cm	2.36 mg/L	0.36 NTU	121.6 mV	25.74 ft	190.00 ml/min
1/31/2024 1:35 PM	30:00	4.08 pH	17.71 °C	401.10 µS/cm	1.97 mg/L	0.38 NTU	121.3 mV	25.78 ft	190.00 ml/min
1/31/2024 1:40 PM	35:00	4.12 pH	17.82 °C	400.81 µS/cm	1.92 mg/L	0.31 NTU	119.8 mV	25.83 ft	190.00 ml/min
1/31/2024 1:45 PM	40:00	4.10 pH	17.94 °C	404.11 µS/cm	1.91 mg/L	0.31 NTU	120.9 mV	25.85 ft	190.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 1/30/2024 1:55:19 PM
Project: Plant Branch Ash Ponds
Operator Name: A. Schnittker

Location Name: PZ-13S **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 28.17 ft** **Total Depth: 38.17 ft** **Initial Depth to Water: 30.08 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 33 ft** **Estimated Total Volume Pumped: 33 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 300 ml/min** **Final Draw Down: 3 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080307**

Test Notes:
Sample time 1545. Sunny 60s. FB-07 here at 1420.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
1/30/2024 1:55 PM	00:00	5.65 pH	17.50 °C	194.67 µS/cm	5.16 mg/L	5.39 NTU	132.6 mV	30.08 ft	300.00 ml/min
1/30/2024 2:00 PM	05:00	5.65 pH	17.66 °C	206.43 µS/cm	4.87 mg/L	4.33 NTU	136.1 mV	30.30 ft	300.00 ml/min
1/30/2024 2:05 PM	10:00	5.67 pH	17.59 °C	198.97 µS/cm	4.95 mg/L	2.51 NTU	127.5 mV	30.30 ft	300.00 ml/min
1/30/2024 2:10 PM	15:00	5.66 pH	17.63 °C	162.48 µS/cm	4.79 mg/L	2.13 NTU	127.5 mV	30.30 ft	300.00 ml/min
1/30/2024 2:15 PM	20:00	5.68 pH	17.58 °C	208.90 µS/cm	5.62 mg/L	1.99 NTU	127.7 mV	30.30 ft	300.00 ml/min
1/30/2024 2:20 PM	25:00	5.68 pH	17.54 °C	177.56 µS/cm	6.04 mg/L	2.36 NTU	132.3 mV	30.30 ft	300.00 ml/min
1/30/2024 2:25 PM	30:00	5.70 pH	17.53 °C	189.64 µS/cm	4.62 mg/L	1.84 NTU	134.2 mV	30.30 ft	300.00 ml/min
1/30/2024 2:30 PM	35:00	5.68 pH	17.54 °C	176.38 µS/cm	4.70 mg/L	2.28 NTU	134.0 mV	30.30 ft	300.00 ml/min
1/30/2024 2:35 PM	40:00	5.67 pH	17.55 °C	187.24 µS/cm	5.46 mg/L	2.64 NTU	135.8 mV	30.30 ft	300.00 ml/min
1/30/2024 2:40 PM	45:00	5.66 pH	17.56 °C	180.22 µS/cm	5.10 mg/L	3.33 NTU	136.0 mV	30.30 ft	300.00 ml/min
1/30/2024 2:45 PM	50:00	5.65 pH	17.58 °C	173.64 µS/cm	5.44 mg/L	2.85 NTU	135.2 mV	30.30 ft	300.00 ml/min
1/30/2024 2:50 PM	55:00	5.70 pH	17.57 °C	182.93 µS/cm	5.36 mg/L	1.64 NTU	133.2 mV	30.30 ft	300.00 ml/min
1/30/2024 2:55 PM	01:00:00	5.68 pH	17.58 °C	170.58 µS/cm	5.00 mg/L	1.27 NTU	139.6 mV	30.30 ft	300.00 ml/min
1/30/2024 3:00 PM	01:05:00	5.67 pH	17.54 °C	187.83 µS/cm	4.58 mg/L	0.52 NTU	134.9 mV	30.30 ft	300.00 ml/min

1/30/2024 3:05 PM	01:10:00	5.64 pH	17.54 °C	185.66 µS/cm	4.02 mg/L	0.72 NTU	136.6 mV	30.30 ft	300.00 ml/min
1/30/2024 3:10 PM	01:15:00	5.65 pH	17.38 °C	180.11 µS/cm	3.94 mg/L	0.32 NTU	77.7 mV	30.30 ft	300.00 ml/min
1/30/2024 3:15 PM	01:20:00	5.67 pH	17.32 °C	174.23 µS/cm	3.94 mg/L	1.13 NTU	77.9 mV	30.30 ft	300.00 ml/min
1/30/2024 3:20 PM	01:25:00	5.66 pH	17.32 °C	190.83 µS/cm	3.98 mg/L	1.37 NTU	86.9 mV	30.30 ft	300.00 ml/min
1/30/2024 3:25 PM	01:30:00	5.66 pH	17.33 °C	179.85 µS/cm	3.97 mg/L	1.77 NTU	78.0 mV	30.30 ft	300.00 ml/min
1/30/2024 3:30 PM	01:35:00	5.65 pH	17.32 °C	175.01 µS/cm	3.91 mg/L	1.14 NTU	85.4 mV	30.30 ft	300.00 ml/min
1/30/2024 3:35 PM	01:40:00	5.65 pH	17.33 °C	187.40 µS/cm	3.90 mg/L	0.60 NTU	130.8 mV	30.30 ft	300.00 ml/min
1/30/2024 3:40 PM	01:45:00	5.66 pH	17.31 °C	191.20 µS/cm	3.92 mg/L	0.56 NTU	130.2 mV	30.30 ft	300.00 ml/min
1/30/2024 3:45 PM	01:50:00	5.66 pH	17.29 °C	185.63 µS/cm	3.93 mg/L	0.49 NTU	83.3 mV	30.30 ft	300.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 1/30/2024 4:13:46 PM
Project: Plant Branch Ash Ponds
Operator Name: A. Schnittker

Location Name: PZ-52D **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 52 ft** **Total Depth: 62.23 ft** **Initial Depth to Water: 25.34 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 57 ft** **Estimated Total Volume Pumped: 15.5 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 300 ml/min** **Final Draw Down: 355 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080307**

Test Notes:
Purged Dry. Log 1 of 2.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
1/30/2024 4:13 PM	00:00	7.28 pH	18.48 °C	450.70 µS/cm	5.56 mg/L	6.26 NTU	93.4 mV	25.34 ft	100.00 ml/min
1/30/2024 4:18 PM	05:00	7.35 pH	19.86 °C	436.87 µS/cm	3.54 mg/L	5.42 NTU	60.6 mV	26.60 ft	100.00 ml/min
1/30/2024 4:23 PM	10:00	7.35 pH	19.94 °C	422.57 µS/cm	3.34 mg/L	5.72 NTU	82.9 mV	27.80 ft	100.00 ml/min
1/30/2024 4:28 PM	15:00	7.36 pH	19.99 °C	404.66 µS/cm	3.30 mg/L	4.84 NTU	54.7 mV	29.30 ft	50.00 ml/min
1/30/2024 4:33 PM	20:00	7.36 pH	19.94 °C	405.11 µS/cm	3.23 mg/L	3.63 NTU	52.0 mV	31.10 ft	50.00 ml/min
1/30/2024 4:38 PM	25:00	7.36 pH	19.90 °C	395.30 µS/cm	3.25 mg/L	3.75 NTU	50.6 mV	32.70 ft	50.00 ml/min
1/30/2024 4:43 PM	30:00	7.37 pH	19.92 °C	387.61 µS/cm	3.28 mg/L	3.73 NTU	50.2 mV	34.20 ft	50.00 ml/min
1/30/2024 4:48 PM	35:00	7.37 pH	19.94 °C	378.41 µS/cm	3.32 mg/L	3.63 NTU	49.6 mV	35.80 ft	200.00 ml/min
1/30/2024 4:53 PM	40:00	7.42 pH	19.83 °C	382.57 µS/cm	3.37 mg/L	2.52 NTU	49.3 mV	36.70 ft	200.00 ml/min
1/30/2024 4:58 PM	45:00	7.42 pH	19.54 °C	391.52 µS/cm	3.52 mg/L	1.41 NTU	49.4 mV	38.90 ft	200.00 ml/min
1/30/2024 5:03 PM	50:00	7.42 pH	19.45 °C	383.59 µS/cm	3.55 mg/L	1.73 NTU	48.9 mV	41.80 ft	200.00 ml/min
1/30/2024 5:08 PM	55:00	7.42 pH	19.27 °C	381.65 µS/cm	3.54 mg/L	1.42 NTU	48.7 mV	45.00 ft	300.00 ml/min
1/30/2024 5:13 PM	01:00:00	7.41 pH	19.58 °C	369.53 µS/cm	3.65 mg/L	1.64 NTU	80.8 mV	48.20 ft	300.00 ml/min
1/30/2024 5:18 PM	01:05:00	7.42 pH	19.61 °C	364.07 µS/cm	3.66 mg/L	1.26 NTU	79.5 mV	50.70 ft	300.00 ml/min

1/30/2024 5:23 PM	01:10:00	7.43 pH	19.59 °C	394.27 µS/cm	3.69 mg/L	0.64 NTU	49.7 mV	50.70 ft	300.00 ml/min
1/30/2024 5:28 PM	01:15:00	7.49 pH	19.49 °C	395.91 µS/cm	3.76 mg/L	1.85 NTU	47.4 mV	52.70 ft	300.00 ml/min
1/30/2024 5:33 PM	01:20:00	7.52 pH	19.46 °C	392.17 µS/cm	3.82 mg/L	1.52 NTU	48.8 mV	54.40 ft	300.00 ml/min
1/30/2024 5:38 PM	01:25:00	7.56 pH	19.40 °C	383.02 µS/cm	3.84 mg/L	0.97 NTU	49.4 mV	55.00 ft	300.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 1/31/2024 1:50:09 PM
Project: Plant Branch Ash Ponds
Operator Name: A. Schnittker

Location Name: PZ-52D **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 52 ft** **Total Depth: 62.23 ft** **Initial Depth to Water: 55 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 57 ft** **Estimated Total Volume Pumped: 0.75 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 50 ml/min** **Final Draw Down: 0 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080307**

Test Notes: Sample time 1405. Sunny 50s.Log 2 of 2, purged dry previous day.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
1/31/2024 1:50 PM	00:00	7.28 pH	16.17 °C	449.88 µS/cm	7.59 mg/L	10.60 NTU	152.8 mV	55.00 ft	50.00 ml/min
1/31/2024 1:55 PM	05:00	7.71 pH	16.91 °C	408.88 µS/cm	6.38 mg/L	9.50 NTU	95.4 mV	55.00 ft	50.00 ml/min
1/31/2024 2:00 PM	10:00	7.68 pH	19.17 °C	417.29 µS/cm	4.96 mg/L	6.99 NTU	124.1 mV	55.00 ft	50.00 ml/min
1/31/2024 2:05 PM	15:00	7.69 pH	19.78 °C	413.99 µS/cm	4.51 mg/L	6.10 NTU	77.1 mV	55.00 ft	50.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 1/31/2024 3:20:08 PM
Project: Plant Branch Ash Ponds
Operator Name: Taylor Goble

Location Name: PZ-53D **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 132 ft** **Total Depth: 142.18 ft** **Initial Depth to Water: 25.73 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 137 ft** **Estimated Total Volume Pumped: 3500 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 100 ml/min** **Final Draw Down: 0.49 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965678**

Test Notes:
Sampled at 1555. Clear 59 degrees. APE-FB-08 poured here at 1500

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
1/31/2024 3:20 PM	00:00	5.70 pH	17.14 °C	509.45 µS/cm	9.64 mg/L	0.93 NTU	132.0 mV	25.95 ft	100.00 ml/min
1/31/2024 3:25 PM	05:00	6.19 pH	17.95 °C	540.93 µS/cm	2.96 mg/L	0.82 NTU	124.7 mV	26.02 ft	100.00 ml/min
1/31/2024 3:30 PM	10:00	6.35 pH	18.17 °C	538.43 µS/cm	2.01 mg/L	0.72 NTU	87.0 mV	26.10 ft	100.00 ml/min
1/31/2024 3:35 PM	15:00	6.46 pH	18.31 °C	544.84 µS/cm	1.93 mg/L	0.65 NTU	82.6 mV	26.15 ft	100.00 ml/min
1/31/2024 3:40 PM	20:00	6.53 pH	18.21 °C	575.31 µS/cm	1.42 mg/L	0.61 NTU	83.4 mV	26.19 ft	100.00 ml/min
1/31/2024 3:45 PM	25:00	6.62 pH	18.30 °C	548.22 µS/cm	1.48 mg/L	0.82 NTU	81.7 mV	26.22 ft	100.00 ml/min
1/31/2024 3:50 PM	30:00	6.65 pH	18.30 °C	550.62 µS/cm	1.64 mg/L	0.76 NTU	82.3 mV	26.22 ft	100.00 ml/min
1/31/2024 3:55 PM	35:00	6.70 pH	18.26 °C	548.87 µS/cm	1.37 mg/L	0.84 NTU	80.3 mV	26.22 ft	100.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 1/31/2024 4:00:10 PM
Project: Plant Branch Ash Ponds
Operator Name: A. Schnittker

Location Name: PZ-70I **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 42 ft** **Total Depth: 52.82 ft** **Initial Depth to Water: 30.54 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 48 ft** **Estimated Total Volume Pumped: 11.2 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 250 ml/min** **Final Draw Down: 4 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080307**

Test Notes:
Sample time 1645. Sunny 50s. EB-10 here at 1555.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
1/31/2024 4:00 PM	00:00	5.62 pH	19.90 °C	274.37 µS/cm	6.38 mg/L	4.01 NTU	146.2 mV	30.54 ft	250.00 ml/min
1/31/2024 4:05 PM	05:00	5.54 pH	19.49 °C	271.51 µS/cm	5.03 mg/L	4.39 NTU	143.6 mV	30.54 ft	250.00 ml/min
1/31/2024 4:10 PM	10:00	5.49 pH	19.32 °C	271.66 µS/cm	1.62 mg/L	4.45 NTU	214.7 mV	30.90 ft	250.00 ml/min
1/31/2024 4:15 PM	15:00	5.48 pH	19.28 °C	269.68 µS/cm	0.99 mg/L	2.54 NTU	172.8 mV	30.90 ft	250.00 ml/min
1/31/2024 4:20 PM	20:00	5.48 pH	19.14 °C	285.21 µS/cm	1.34 mg/L	2.33 NTU	93.1 mV	30.90 ft	250.00 ml/min
1/31/2024 4:25 PM	25:00	5.48 pH	19.06 °C	283.69 µS/cm	0.26 mg/L	1.31 NTU	109.2 mV	30.90 ft	250.00 ml/min
1/31/2024 4:30 PM	30:00	5.48 pH	20.12 °C	282.29 µS/cm	0.32 mg/L	0.81 NTU	68.9 mV	30.90 ft	250.00 ml/min
1/31/2024 4:35 PM	35:00	5.49 pH	19.61 °C	281.71 µS/cm	0.36 mg/L	0.79 NTU	89.7 mV	30.90 ft	250.00 ml/min
1/31/2024 4:40 PM	40:00	5.49 pH	19.13 °C	285.26 µS/cm	0.27 mg/L	0.63 NTU	52.6 mV	30.90 ft	250.00 ml/min
1/31/2024 4:45 PM	45:00	5.50 pH	19.00 °C	286.47 µS/cm	0.22 mg/L	0.56 NTU	46.7 mV	30.90 ft	250.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Staff: SB/MH/AG/JS/AS

Date: 1/24/24

Time (start/finish): 1230/1730

LANDFILL

Well ID	Depth to Water	January 2023 Historical DTW	Total Depth (feet btoc)	Screen Interval (feet btoc)		Screen Length	Location	Has Dedicated Pump (Y/N) ID plate (Y/N)
BRLFC-01	12.01	11.76	35.1 32.4	24.6	34.6	10.0	Downgradient	Pump: N ID Plate: Y
BRLFC-02	16.51	15.76	54.5 54.82	43.5	53.1	10.0	Downgradient	Pump: N ID Plate: Y
BRLFC-03	1.81	2.65	42.8 47.35	32.3	42.1	10.0	Downgradient	Pump: N ID Plate: Y
BRLFC-04	15.72	17.21	50.0 50.25	39.5	49.5	10.0	Downgradient	Pump: N ID Plate: Y
BRLFC-05	12.98	12.82	43.3 43.34	32.8	42.8	10.0	Downgradient	Pump: N ID Plate: Y
BRLFC-06	13.83	12.41	50.5 50.71	40.0	50.0	10.0	Downgradient	Pump: N ID Plate: Y
BRLFC-07	21.45	16.97	53.9	43.4	53.4	10.0	Downgradient	Pump: Y ID Plate: Y
BRLFC-08	16.98	14.19	56.6 56.47	46.0	56.0	10.0	Downgradient	Pump: N ID Plate: Y
BRLFC-09	14.67	11.77	50.8 50.67	39.8	49.8	10.0	Downgradient	Pump: N ID Plate: Y
BRLFC-10	19.56	25.87 (Aug 18.66)	~~43.00~~ 43.27	70.3	80.3	10.0	Downgradient	Pump: ID Plate:
BRLFC-11	21.43	34.50 (Aug 21.88)	~~28.5~~ 40.48	18.4	28.4	10.0	Downgradient	Pump: ID Plate:
BRLFC-12	12.45	10.94	53.3 53.40	42.8	52.8	10.0	Downgradient	Pump: N ID Plate: N
BRLFC-13	18.91	17.55	49.7 49.51	39.2	49.2	10.0	Downgradient	Pump: N ID Plate: N
BRLFC-14	11.85	13.49	49.5 49.60	39.0	49.0	10.0	Downgradient	Pump: ID Plate:
BRLFC-15	28.16	28.40	35.3	24.8	34.8	10.0	Downgradient	Pump: ID Plate:
BRLFC-16	35.84	35.11	42.3	31.8	41.8	10.0	Downgradient	Pump: ID Plate:

Q4

Quality Shed survey

Feeds from feed

Dewy Pond

Staff: JB/WA/HG/JS/AS

Date: 1/24/24

Time (start/finish): 12/30/1730

AP-BCD Detection Wells

Well ID	Depth to Water	January 2023 Historical DTW	Total Depth (feet bloc)	Screen Interval (feet bloc)		Screen Length	Location	Has Dedicated Pump (Y/N) ID plate (Y/N)
BRGWA-2S	12.04 / 10.15	10.42	47.4	37.0	47.0	10.0	Upgradient BCD & E	Pump: Y ID Plate: Y
BRGWA-2I	32.66	10.45	66.9	56.5	66.5	10.0	Upgradient BCD & E	Pump: Y ID Plate: Y
BRGWA-6S	11.86	12.58	48.1	32.7	42.7	10.0	Upgradient BCD & E	Pump: Y ID Plate: Y
BRGWA-6I	13.57	12.38	69.9	53.5	63.5	10.0	Upgradient BCD & E	Pump: Y ID Plate: Y
BRGWA-8S	13.43	25.73	52.0	42.5	52.5	10.0	Upgradient BCD & E	Pump: Y ID Plate: Y
BRGWA-23S	41.41	40.78	48.5	33.5	43.5	10.0	Upgradient BCD	Pump: Y ID Plate: Y
BRGWC-2SI	11.83	10.18	22.0	12.0	22.0	10.0	Downgradient B	Pump: Y ID Plate: Y
BRGWC-27I	12.32	10.49	26.9	16.9	26.9	10.0	Downgradient C	Pump: Y ID Plate: Y
BRGWC-28I	10.63	9.91	22.6	12.6	22.6	10.0	Downgradient C	Pump: Y ID Plate: Y
BRGWC-30I	5.02	4.87	22.6	12.6	22.6	10.0	Downgradient D	Pump: Y ID Plate: Y/N
BRGWC-33S	41.74	42.26	47.6	37.6	47.6	10.0	Downgradient D	Pump: Y ID Plate: Y
BRGWC-45	19.90	10.93	60.0	49.6	59.6	10.0	Downgradient B	Pump: Y ID Plate: Y
BRGWC-47	29.64	28.53	84.4	84.0	94.0	10.0	Downgradient D	Pump: Y ID Plate: Y
BRGWC-50	38.48	38.21	67.6	57.2	67.2	10.0	Downgradient B	Pump: Y ID Plate: Y
BRGWC-52I	40.18	39.67	76.6	66.6	76.6	10.0	Downgradient B	Pump: Y ID Plate: Y

Staff: JD/MH/TG/ST/KS

Date: 1/29/24

Time (start/finish): 1230 / 1730

AP-BCD Assessment Wells

Well-ID	Depth to Water	January 2023 Historical DTW	Total Depth (feet btoc)	Screen Interval (feet btoc)		Screen Length	Location	Has Dedicated Pump (Y/N) ID plate (Y/N)
PZ-44	30.71	27.78	58.5	48.1	58.1	10.0	Downgradient B	Pump: Y ID Plate: N
PZ-50D	38.66	38.67	108.5	98.5	108.5	10.0	Downgradient	Pump: ID Plate: Y
PZ-51S	38.51	38.77	47.8	42.4	47.4	5.0	Downgradient B	Pump: N ID Plate: Y
PZ-51I	38.38	38.15	67.5	57.4	67.4	10.0	Downgradient B	Pump: Y ID Plate: Y
PZ-51D	38.25	38.19	108.6	98.0	108.7	10.0	Downgradient B	Pump: Y ID Plate: N
PZ-57I	37.20	36.68	60.14 79.0	68.7	78.7	10.0	Downgradient B	Pump: N ID Plate: N
PZ-58I	39.68	38.86	68.9	58.8	68.8	10.0	Downgradient B	Pump: Y ID Plate: Y
PZ-59I	40.46	40.08	69.80 69.6	60.0	70.0	10.0	Downgradient B	Pump: Y ID Plate: Y
PZ-60I	38.75	38.40	64.0	53.6	63.6	10.0	Downgradient B	Pump: Y ID Plate: Y
PZ-61I	47.44	47.27	78.9	68.6	78.6	10.0	Downgradient B	Pump: Y ID Plate: Y
PZ-62I	39.12	38.82	72.9	62.9	72.9	10.0	Downgradient B	Pump: N ID Plate: Y
PZ-63I	39.44	39.01	59.2	49.2	59.2	10.0	Downgradient B	Pump: Y ID Plate: Y
PZ-64I	38.85	38.64	71.8	61.3	71.3	10.0	Downgradient B	Pump: Y ID Plate: Y
PZ-65I	36.94	36.51	72.22 71.7	61.2	71.2	10.0	Downgradient B	Pump: Y ID Plate: Y
PZ-66I	36.43	36.33	70.83 70.9	60.4	70.4	10.0	Downgradient B	Pump: N ID Plate: Y
PZ-68D	42.27	42.61	97.0	78.5	88.5	10.0	Downgradient D	Pump: Y ID Plate: Y
PZ-74I	28.40	28.17 (Recent Install)	50.9	40.6	50.6	10.0	Downgradient D	Pump: Y ID Plate: Y
PZ-75I	17.36	20.07 (Recent Install)	30.4 30.54	20.0	30.0	10.0	Downgradient D	Pump: N ID Plate: N
PZ-76I	8.36	18.69 (Recent Install)	19.7 19.82	8.6	18.7	10.0	Downgradient D	Pump: ID Plate:

Staff: TG | Date: 1-29-24 | Time (start/finish): 1400 / 1800

AP-E Detection Wells

Well ID	Depth to Water	January 2023 Historical DTW	Total Depth (feet bloc)	Screen Interval (feet bloc)		Screen Length	Location	Has Dedicated Pump (Y/N) ID plate (Y/N)	
BRGWA-2S	12.04	10.42	47.4	37.0	47.0	10.0	Upgradient E	Pump: Yes ID Plate: Yes	
BRGWA-3I	11.86	10.49	86.9	66.6	66.6	10.0	Upgradient E	Pump: Yes ID Plate: Yes	
BRGWA-5S	13.57	12.53	43.1	32.7	42.7	10.0	Upgradient E	Pump: Yes ID Plate: Yes	
BRGWA-5I	13.43	12.38	63.9	53.5	63.5	10.0	Upgradient E	Pump: Yes ID Plate: Yes	
BRGWA-6S	27.61	25.73	52.9	42.6	52.6	10.0	Upgradient E	Pump: Yes ID Plate: Yes	
BRGWC-17S	5.91	5.55	10.2	4.8	9.8	5.0	Downgradient E	Pump: No ID Plate: Yes	9.25
BRGWC-33S	13.35	10.27	28.8	18.8	28.8	10.0	Downgradient E	Pump: Yes ID Plate: Yes	
BRGWC-34S	3.43	2.88	25.8	15.8	25.8	10.0	Downgradient E	Pump: Yes ID Plate: Yes	
BRGWC-35S	0.43	1.75	30.0	19.6	29.6	10.0	Downgradient E	Pump: Yes ID Plate: Yes	
BRGWC-36S	5.20	4.16	35.4	25.4	35.4	10.0	Downgradient E	Pump: No ID Plate: Yes	35.45
BRGWC-37S	54.60	54.02	66.2	56.3	66.3	10.0	Downgradient E	Pump: Yes ID Plate: Yes	
BRGWC-38S	24.65	22.55	40.6	30.2	40.2	10.0	Downgradient E	Pump: Yes ID Plate: Yes	

AP-E Assessment Wells

PZ-19S	30.09	28.41	38.2	27.8	37.8	10.0	Downgradient E	Pump: Yes ID Plate: Metal	
PZ-52D	25.47	26.43 (Avg. 16.03)	62.2	52.2	62.2	10.0	Downgradient E	Pump: Yes ID Plate: Metal	
PZ-53D	25.71	22.90	142.5	132.5	142.5	10.0	Downgradient E	Pump: Yes ID Plate: Yes	
PZ-70I	30.50	28.91	52.8	42.8	52.8	10.0	Downgradient E	Pump: Yes ID Plate: Yes	
PZ-76I	21.26	20.02 (Recent Install)	44.4	34.4	44.4	10.0	Downgradient E	Pump: No ID Plate: None	43.95
PZ-77I	20.49	18.99 (Recent Install)	42.7	32.7	42.7	10.0	Downgradient E	Pump: No ID Plate: None	43.06

Staff: TG

Date: 1-29-24

Time (start/finish): 1400/1800

Piezometers

Well ID	Depth to Water	January 2023 Historical DTW	Total Depth (feet btoc)	Screen Interval (feet bgs)		Screen Length	Location	Has Dedicated Pump (Y/N) ID plate (Y/N)	TD
PZ-1S	41.25	40.09	67.7	57.3	67.3	10.0	Upgradient	Pump: No ID Plate: Metal	68.26
PZ-1I	42.98	41.38	82.3	71.9	81.9	10.0	Upgradient	Pump: Transducer / Tube ID Plate: No Metal	83.03
PZ-1D	41.22	40.02	160.5	66.0	160.5	94.5	Upgradient	Pump: No ID Plate: Metal	161.22
PZ-2S	DRY	DRY	43.4	33.0	43.0	10.0	Upgradient	Pump: No ID Plate: Metal	42.63
PZ-2I	51.69	51.97	67.6	47.2	57.2	10.0	Upgradient	Pump: No ID Plate: Metal	57.99
PZ-2D	549.60	49.90	130.8	98.8	130.8	32.0	Upgradient	Pump: No ID Plate: Metal	130.20
PZ-4S	DRY	DRY (Avg. 32.59)	33.0	22.8	32.8	10.0	Upgradient	Pump: No ID Plate: Metal	33.18
PZ-4I	35.30	35.43	48.9	38.5	48.5	10.0	Upgradient	Pump: Transducer ID Plate: Metal	—
PZ-7S	31.14	29.37	47.1	36.7	46.7	10.0	Downgradient	Pump: No ID Plate: Metal	47.29
PZ-8S	27.82	25.52	52.1	41.7	51.7	10.0	Upgradient	Pump: No ID Plate: Metal	52.14
PZ-9S	37.04	36.71	61.2	40.8	50.8	10.0	Upgradient	Pump: No ID Plate: Metal	51.45
PZ-10S	29.12	27.58	41.9	31.5	41.5	10.0	Downgradient	Pump: Tube To Transducer ID Plate: Metal	42.30
PZ-14S	25.34	21.80	40.7	30.3	40.3	10.0	Downgradient	Pump: No ID Plate: Metal	40.62
PZ-14I	21.16	19.80	56.6	46.2	56.2	10.0	Downgradient	Pump: No ID Plate: Metal	56.61
PZ-15S	11.41	9.86	42.7	32.7	42.7	10.0	Downgradient	Pump: No ID Plate: Metal	42.43
PZ-15I	11.20	9.70	91.6	81.2	91.2	10.0	Downgradient	Pump: No ID Plate: Metal	91.66
PZ-16S	12.11	11.13	22.3	11.9	21.9	10.0	Downgradient	Pump: No ID Plate: Metal	23.15
PZ-16I	11.95	10.95	41.6	31.2	41.2	10.0	Downgradient	Pump: No ID Plate: Metal	42.60
PZ-17I	2.92	2.62	48.6	38.1	48.1	10.0	Downgradient	Pump: No ID Plate: Metal	29.54

Staff: JB/HA/TB/ST/KS | Date: 1/29/24 | Time (start/finish): 12/30 / 1730

Piezometers (continued)

Well ID	Depth to Water	January 2023 Historical DTW	Total Depth (feet btoc)	Screen Interval (feet btoc)		Screen Length	Location	Has Dedicated Pump (Y/N) ID plate (Y/N)
PZ-18S	20.92	21.30	27.3	17.8	27.8	10.0	Downgradient	Pump: N Transducer well ID Plate: Y
PZ-18I	20.73	21.06	41.4 / 42.37	31.3	41.3	10.0	Downgradient	Pump: N ID Plate: N
PZ-19S	16.34	18.25	31.0	20.6	30.6	10.0	Downgradient	Pump: N Transducer in well ID Plate: N
PZ-19I	16.85	18.79	48.5 / 48.84	38.1	48.1	10.0	Downgradient	Pump: N ID Plate: N
PZ-20S	17.37	16.16	18.5	8.1	18.1	10.0	Downgradient	Pump: N Transducer ID Plate: N
PZ-20I	17.23	15.99	32.8 / 33.40	22.2	32.2	10.0	Downgradient	Pump: N ID Plate: N
PZ-21S	DRY	11.22	12.8 / 13.09	7.4	12.4	5.0	Downgradient	Pump: N ID Plate: N
PZ-21I	13.36	11.83	27.5 / 28.03	17.1	27.1	10.0	Downgradient	Pump N ID Plate: N
PZ-22I	39.77	39.81	69.1 / 69.77	59.1	69.1	10.0	Downgradient	Pump: N ID Plate: N
BRGWC-24S	13.91	13.24	44.7 / 44.68	34.2	44.2	10.0	Downgradient A	Pump: N ID Plate: N
PZ-26I	25.43	24.40	33.1 / 33.91	23.1	33.1	10.0	Downgradient	Pump: N ID Plate: N
PZ-28I	16.72	15.50	26.3 / 27.33	16.3	26.3	10.0	Downgradient	Pump: N ID Plate: N
PZ-31S	28.48	29.44	42.0 / 42.0	32.0	42.0	10.0	Downgradient	Pump: N/O ID Plate: NO
PZ-40S	15.70	14.78	43.0 / 43.24	31.6	41.6	10.0	Downgradient A	Pump: N ID Plate: N
PZ-41S	16.90	16.09	47.1 / 48.43	36.7	46.7	10.0	Downgradient A	Pump: N ID Plate: N
PZ-42S	20.66	20.74	34.9 / 34.45	24.5	34.5	10.0	Downgradient A	Pump: N ID Plate: N
PZ-43	31.20	31.00	43.1 / 43.61	32.7	42.7	10.0	Downgradient A	Pump: ID Plate:
PZ-46	11.64	8.91	49.1 / 49.05	39.1	49.1	10.0	Downgradient B	Pump: N ID Plate: N
PZ-48	34.24	33.72	69.6 / 69.69	59.2	69.2	10.0	Downgradient B	Pump: ID Plate:

Staff: JB/HA/TG/JT/AS | Date: 1/24/24 | Time (start/finish): 1230/1730

Piezometers (continued)

Well ID	Depth to Water	January 2023 Historical DTW	Total Depth (feet btoc)	Screen Interval (feet btoc)		Screen Length	Location	Has Dedicated Pump (Y/N) ID plate (Y/N)
PZ-49	9.56	8.90	19.8 19.52	9.4	19.4	10.0	Downgradient B	Pump: N ID Plate: N
PZ-54	50.97	49.90	55.1 54.92	45.1	55.1	10.0	Downgradient E	Pump: ID Plate:
PZ-55	47.74	47.58	52.2 52.16	42.2	52.2	10.0	Downgradient E	Pump: ID Plate:
PZ-56	8.05	6.57 (Aug. 6.67)	31.9 32.40	21.9	31.9	10.0	Downgradient B	Pump: ID Plate:
PZ-67	32.17	31.11	41.0 41.25	30.5	40.5	10.0	Downgradient B	Pump: N ID Plate: Y
PZ-69I	27.63	23.18	41.6 41.60	31.1	41.1	10.0	Downgradient D	Pump N ID Plate: Y
PZ-71I	34.30	34.14 (Recent install)	42.6 42.95	32.5	42.5	10.0	Downgradient D	Pump: N ID Plate: Y
PZ-72I	25.53	25.87 (Recent Install)	36.8 36.67	26.6	36.6	10.0	Downgradient D	Pump N ID Plate: Y
PZ-73I	7.55 3.55	7.57 (Recent Install)	28.2 28.71	17.8	27.8	10.0	Downgradient D	Pump N ID Plate: N

Other Locations

PB-130	9.58	9.48	89.7 (ON 2.20)	89.7	99.7	10.0	Downgradient Temporary Piezometer	Pump: N Size of cap ID Plate: N
C2-02	45.53	45.72	59.45				Unknown	Pump: N ID Plate: N
IW-B-1	25.41	23.95	43.1	7.8	42.8	35.0	Interstitial Well	Pump: ID Plate:
IW-B-2	9.42	5.19	19.1	9.8	19.8	10.0	Interstitial Well	Pump: ID Plate:
IW-B-3	20.08	17.74 (Recent Install)	46.67				Interstitial Well	Pump: ID Plate:
IW-B-4	21.03	23.36 (Recent Install)	37.34				Interstitial Well	Pump: ID Plate:
IW-B-5	31.22	27.82 (Recent Install)	32.52				Interstitial Well	Pump: ID Plate:
IW-C-1	18.04	17.89 (Avg. 13.17)	22.2	11.9	21.9	10.0	Interstitial Well	Pump: ID Plate:
IW-C-2	22.78	21.34 (Avg. 14.22)	28.1	8.8	28.8	20.0	Interstitial Well	Pump: ID Plate:

Staff: JB/HA/TG/ST/HS | Date: 12/6/24 | Time (start/finish): 1330/1730

Other Locations (continued)

Well ID	Depth to Water	January 2023 Historical DTW	Total Depth (feet bgs)	Screen Interval (feet bgs)		Screen Length	Location	Has Dedicated Pump (Y/N) ID plate (Y/N)
IW-D-1	DRY	DRY (Aug 18.52)	19.7	9.4	19.4	10.0	Interstitial Well	Pump: ID Plate:
IW-D-2	26.95	DRY (Aug. 21.40)	33.4	8.1	33.1	25.0	Interstitial Well	Pump: ID Plate:
IW-D-3	Not found	DRY					Interstitial Well	Pump: ID Plate:
IW-B-1	10.15	9.28					Interstitial Well	Pump: ID Plate
DW-B1	24.91	21.22 (Recent Install)	42.96				Deep Observation Well	Pump: ID Plate:
DW-D1	21.44	18.26 (Recent Install)	37.41				Deep Observation Well	Pump: ID Plate
OW-B1	24.88	21.21 (Recent Install)	46.13				Observation Well	Pump: ID Plate
OW-B2	24.45	20.72 (Recent Install)	44.35				Observation Well	Pump: ID Plate:
OW-B3	24.98 24.96	20.62 (Recent Install)	50.43				Observation Well	Pump: ID Plate:
OW-B4	24.76	21.11 (Recent Install)	40.83				Observation Well	Pump: ID Plate:
OW-B5	25.35	21.65 (Recent Install)	41.77				Observation Well	Pump: ID Plate:
OW-B6	25.67	21.98 (Recent Install)	42.24				Observation Well	Pump: ID Plate:
OW-D1	20.90	17.75 (Recent Install)	32.24				Observation Well	Pump: ID Plate:
OW-D2	20.85	17.81 (Recent Install)					Observation Well	Pump: N ID Plate: N
OW-D3	20.03	17.24 (Recent Install)	31.44				Observation Well	Pump N ID Plate: N
OW-D4	—	16.96 (Recent Install)					Observation Well	Pump ID Plate: gone
OW-D5	—	DRY (Recent Install)					Observation Well	Pump: ID Plate: gone
OW-D6	—	DRY (Recent Install)					Observation Well	Pump ID Plate: gone

FIELD STAFF: TG/AS

Georgia Power Site Sampling Data (GW)

Site Name: Plant Branch AP - E Dates: 1-30-24 & 1-31-24

Sample ID	Sample Date	Sample Time	Additional Comments
BRA-BRGWC-17S	1-30-24	1551	pH= 6.28 ferrous iron= 0.0 mg/L
BRA-BRGWC-33S	1-31-24	1215	pH= 4.78 ferrous iron= 0.0 mg/L
BRA-BRGWC-34S	1-31-24	1050	pH= 5.95 ferrous iron= 0.0 mg/L
BRA-BRGWC-35S	1-30-24	1200	pH= 5.50 ferrous iron= 0.0 mg/L
BRA-BRGWC-36S	1-31-24	0955	pH= 5.63 ferrous iron= 0.0 mg/L
BRA-BRGWC-37S	1-31-24	1152	pH= 5.74 ferrous iron= 0.0 mg/L
BRA-BRGWC-38S	1-31-24	1345	pH= 4.10 ferrous iron= 0.0 mg/L
BRA-PZ-52D	1-31-24	1405	pH= 7.69 ferrous iron= 0.0 mg/L
BRA-PZ-53D	1-31-24	1555	pH= 6.70 ferrous iron= 0.0 mg/L
BRA-PZ-12S	1-30-24	1545	pH= 5.66 ferrous iron= 0.0 mg/L
BRA-PZ-7D	1-31-24	1645	pH= 5.50 ferrous iron= 0.0 mg/L

FIELD STAFF: TG/AS

Georgia Power Site Sampling Data (GW)

Site Name: Plant Branch AP - E Dates: 1-30-24 & 1-31-24

Sample ID	Sample Date	Sample Time	Additional Comments
BRA-APE-FD-04	1-30-24	—	Parent Sample: BRGWC-35S
BRA-APE-FD-05	1-31-24	—	Parent Sample: BRGWC-33S
BRA-APE-FB-07	1-30-24	1420	Poured at: BRGWC-13
BRA-APE-FB-08	1-31-24	1500	Poured at: PZ-53D
BRA-APE-EB-09	1-31-24	1030	Equipment Type: Peri Tubing
BRA-APE-EB-10	1-31-24	1555	Equipment Type: Water Level

Put Upgradient, BCD, and E on separate COCs

Matrix codes WG for groundwater, WS for surface water, WW for wastewater, WQ for field blanks and equipment blanks
FD for blind field duplicates with WG matrix

Additional comments :

Note if Dissolved metals were taken

Task_Code: BRA-CCR-ASSMT-2024S1

Field Instrumentation Calibration Form

Site Name: Mark Branch Date: 1/30/24

Calibrated By: A. Schaffner Field Conditions: Sunny 40s

Instrument	manufacturer/ Model	Serial number
Water Quality Meter	AquaTroll 400	638307
Turbidity Meter	Hach 2100 Q	22080D00927

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
D.O. (%)	N/A	N/A	N/A	Fresh DI Water
pH (SU)	4.00	360916	03/25	PINE
pH (SU)	7.00	360124	04/25	PINE
pH (SU)	10.00	26X553	11/24	PINE
Specific Conductance (µS/cm)	1,413	360350	04/24	PINE
ORP (mV)	240.0	3640038	05/24	PINE

	Standard	Lot #	Date of Expiration	Brand
Turbidity (NTU)	0	N/A	N/A	Fresh DI Water
	10	4339	8/24	HACH
	20	A3138	8/24	HACH
	100	A3137	8/24	HACH

Calibration					
Time Start: 0930		Time Finish: 0940			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
D.O. (%)	N/A	110.09	14.57	±10%	EPA 2023
pH (SU)	4.00	4.06	1.32	±0.1	DWMP
pH (SU)	7.00	7.06	-0.32	±0.1	DWMP
pH (SU)	10.00	10.13	0.05	±0.1	DWMP
Specific Conductance (µS/cm)	1,413 1294	1281.0	-0.45	±10% of standard	NA
ORP (mV)	240.0 242	241.3	-0.25	±10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0.21	±10% of standard	EPA 2023
	10	10.3		
	20	20.6		
	100	101		

Calibration Check					
Time Start 1345		Time Finish 1355			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
pH (SU)	4.00	4.04	13.71	±0.1	DWMP
pH (SU)	7.00	6.97	12.62	±0.1	DWMP
pH (SU)	10.00	9.92	12.14	±0.1	DWMP
Specific Conductance (µS/cm)	1,413 1294	1340.4	11.73	±10% of standard	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0.31	±10% of standard	EPA 2023
	10	10.3		
	20	20.2		
	100	99.2		

Notes:

Field Instrumentation Calibration Form

Site Name: Plant Branch

Date: 1/31/23

Calibrated By: A Schmitker

Field Conditions: Sunny 40s

Instrument	Manufacturer/ Model	Serial Number
Water Quality Meter	Aquaread AP-2000	188030
Turbidity Meter	Hach 2100	22090C001137

Calibration Standard Information

Parameter	Standard	Lot #	Date of Expiration	Brand
DO (%)	N/A	NA	NA	Fresh DI Water
pH (SU)	4.00	36C916	03/25	PINE
pH (SU)	7.00	86D124	04/25	PINE
pH (SU)	10.00	26K553	11/24	PINE
Specific Conductance (µS/cm)	1,413	360360	04/24	PINE
ORP (mV)	240.0	36H0038	05/24	PINE

	Standard	Lot #	Date of Expiration	Brand
Turbidity (NTU)	0	NA	NA	Fresh DI Water
	10	A3137	8/24	HACH
	20	A3138	8/24	HACH
	100	A3139	8/24	HACH

Calibration

Time Start: 0830 Time Finish: 0855

Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
DO (%)	N/A	106.13	6.72	± 10%	EPA 2023
pH (SU)	4.00	4.00	8.27	± 0.1	GWMP
pH (SU)	7.00	7.04	9.09	± 0.1	GWMP
pH (SU)	10.00	10.14	9.03	± 0.1	GWMP
Specific Conductance (µS/cm)	1413 / 1284	1250.7	8.84	± 10% of standard	NA
ORP (mV)	240.0	250.3	9.90	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0.32	± 10% of standard	EPA 2023
	10	10.7		
	20	20.5		
	100	101		

Calibration Check

Time Start: 1335 Time Finish: 1345

Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
pH (SU)	4.00	4.00	18.15	± 0.1	GWMP
pH (SU)	7.00	7.01	18.90	± 0.1	GWMP
pH (SU)	10.00	10.05	17.71	± 0.1	GWMP
Specific Conductance (µS/cm)	1413 / 1284	1281.2	17.70	± 10% of standard	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0.27	± 10% of standard	EPA 2023
	10	10.1		
	20	20.3		
	100	100		

Notes:

Field Instrumentation Calibration Form

Atlantic Coast Consulting, Inc.

Site Name: Plant Branch

Date: 1-30-24

Calibrated By: T. Goble

Field Conditions: Clear / 33°F

Instrument	Manufacturer/ Model	Serial Number
Water Quality Meter	714344	AquaTroll
Turbidity Meter	HACH 2100Q	12110C000

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
D.O. (%)	N/A	—	—	—
pH (SU)	4.00	31C916	3/25	Pine
pH (SU)	7.00	2G1304	9/24	Pine
pH (SU)	10.00	2GK553	11/24	Pine
Specific Conductance (µS/cm)	1,413	3GG1066	7/24	Pine
ORP (mV)	240.0	3GL04GH	9/24	Pine

	Standard	Lot #	Date of Expiration	Brand
Turbidity (NTU)	0	—	—	New PCL
	10	A3139	9/24	Pine
	20	A3138	8/24	Pine
	100	A3139	9/24	Pine

Calibration

Time Start: 0815 Time Finish: 0830

Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
D.O. (%)	N/A	111.62	6.94	± 10%	EPA 2023
pH (SU)	4.00	4.03	~~6.705.02~~	± 0.2	QWAP
pH (SU)	7.00	7.52	~~6.853.31~~	± 0.2	QWAP
pH (SU)	10.00	10.10	6.13	± 0.2	QWAP
Specific Conductance (µS/cm)	1,413	1355	6.68	± 10% of standard	N/A
ORP (mV)	240.0	226.6	6.85	± 10	EPA 2023

Pre-span numbered values

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0.23	± 10% of standard	EPA 2023
	10	10.4		
	20	21.1		
	100	105		

Calibration Check

Time Start: 1230 Time Finish: 1245

Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
pH (SU)	4.00	3.95	9.42	± 0.2	QWAP
pH (SU)	7.00	7.06	9.84	± 0.2	QWAP
pH (SU)	10.00	10.14	8.67	± 0.2	QWAP
Specific Conductance (µS/cm)	1,413	1381	8.77	± 10% of standard	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0.19	± 10% of standard	EPA 2023
	10	10.4		
	20	21.0		
	100	107		

Notes:

Field Instrumentation Calibration Form

Site Name: Plant Branch

Date: 1-31-24

Calibrated By: T. Goble

Field Conditions: Clear, 43°F.

Instrument	Manufacturer/ Model	Serial Number
Water Quality Meter	AquaTroll	965679
Turbidity Meter	LaMotte 2020e	22060,00025

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
D.O. (%)	N/A	—	—	Sponge
pH (SU)	4.00	36C916	3/25	Pine
pH (SU)	7.00	36D1214	4/25	Pine
pH (SU)	10.00	36D200	4/25	Pine
Specific Conductance (µS/cm)	1,413	36G1066	7/24	Pine
ORP (mV)	240.0	36D0291	6/24	Pine

	Standard	Lot #	Date of Expiration	Brand
Turbidity (NTU)	0	—	—	New DI
	10	A3139	8/24	Pine
	20	A3144	9/24	Pine
	100	A3142	9/24	Pine

Calibration					
Time Start: 0815		Time Finish: 0830			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
D.O. (%)	N/A	97.37	8.59	± 10%	EPA 2023
pH (SU)	4.00	4.00	12.34	± 0.1	Owner
pH (SU)	7.00	7.06	11.41	± 0.1	Owner
pH (SU)	10.00	10.14	11.57	± 0.1	Owner
Specific Conductance (µS/cm)	1,413	1506	9.32	± 10% of standard	EPA
ORP (mV)	240.0	223.1	12.13	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0.23	± 10% of standard	EPA 2023
	10	10.4		
	20	20.0		
	100	98.6		

Calibration Check					
Time Start: 1230		Time Finish: 1245			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
pH (SU)	4.00	4.08	16.20	± 0.1	Owner
pH (SU)	7.00	7.04	14.45	± 0.1	Owner
pH (SU)	10.00	10.11	13.87	± 0.1	Owner
Specific Conductance (µS/cm)	1,413	1505	13.51	± 10% of standard	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0.22	± 10% of standard	EPA 2023
	10	10.3		
	20	20.1		
	100	98.9		

Notes:

Calibration Report

Instrument	Aqua TROLL 400
Serial Number	1080307
Created	1/31/2024

Sensor	**RDO**
Serial Number	1079634
Last Calibrated	1/30/2024

Calibration Details

Slope	0.99700576
Offset	-0.00 mg/L

Calibration point 100%

Concentration	13.30 mg/L
Temperature	3.06 °C
Barometric Pressure	1,009.1 mbar

Sensor	**Conductivity**
Serial Number	1080307
Last Calibrated	1/30/2024

Calibration Details

Cell Constant	0.972
Reference Temperature	20.00 °C
TDS Conversion Factor (ppm)	0.65

Sensor	**Level**
Serial Number	1080277
Last Calibrated	Factory Defaults

Sensor	**pH/ORP**
Serial Number	22511
Last Calibrated	1/30/2024

Calibration Details

Total Calibration Points	3

Calibration Point 1

pH of Buffer	4.00 pH
pH mV	145.3 mV
Temperature	1.32 °C

Calibration Point 2

pH of Buffer	7.06 pH
pH mV	-16.3 mV
Temperature	-0.32 °C

Calibration Point 3

pH of Buffer	10.14 pH
pH mV	-172.3 mV
Temperature	0.05 °C

Slope and Offset 1

Slope	-52.81 mV/pH
Offset	-13.2 mV

Slope and Offset 2

Slope	-50.63 mV/pH
Offset	-13.3 mV

ORP

ORP Solution	Zobell's
Offset	2.2 mV
Temperature	-0.37 °C

Calibration Report

Instrument	Aqua TROLL 400
Serial Number	1080307
Created	2/2/2024

Sensor	**RDO**
Serial Number	1079634
Last Calibrated	2/1/2024

Calibration Details

Slope	0.9633001
Offset	-0.00 mg/L

Calibration point 100%

Concentration	11.97 mg/L
Temperature	8.98 °C
Barometric Pressure	1,010.6 mbar

Sensor	**Conductivity**
Serial Number	1080307
Last Calibrated	2/1/2024

Calibration Details

Offset	0.00 µS/cm
Cell Constant	0.856
Reference Temperature	20.00 °C
TDS Conversion Factor (ppm)	0.65

Sensor	**Level**
Serial Number	1080277
Last Calibrated	Factory Defaults

Sensor	**pH/ORP**
Serial Number	22511
Last Calibrated	2/1/2024

Calibration Details

Total Calibration Points	3

Calibration Point 1

pH of Buffer	4.00 pH
pH mV	143.5 mV
Temperature	8.42 °C

Calibration Point 2

pH of Buffer	7.06 pH
pH mV	-17.2 mV
Temperature	7.86 °C

Calibration Point 3

pH of Buffer	10.14 pH
pH mV	-165.5 mV
Temperature	7.89 °C

Slope and Offset 1

Slope	-52.52 mV/pH
Offset	-14.0 mV

Slope and Offset 2

Slope	-48.15 mV/pH
Offset	-14.3 mV

ORP

ORP Solution	Zobell's
Offset	6.7 mV
Temperature	7.79 °C

Calibration Report

Instrument	Aqua TROLL 400
Serial Number	1080307
Created	1/31/2024

Sensor	**RDO**
Serial Number	1079634
Last Calibrated	1/31/2024

Calibration Details

Slope	1.0004021
Offset	-0.00 mg/L

Calibration point 100%

Concentration	12.10 mg/L
Temperature	6.74 °C
Barometric Pressure	1,004.9 mbar

Sensor	**Conductivity**
Serial Number	1080307
Last Calibrated	1/31/2024

Calibration Details

Cell Constant	0.858
Reference Temperature	20.00 °C
TDS Conversion Factor (ppm)	0.65

Sensor	**Level**
Serial Number	1080277
Last Calibrated	Factory Defaults

Sensor	**pH/ORP**
Serial Number	22511
Last Calibrated	1/31/2024

Calibration Details

Total Calibration Points	3

Calibration Point 1

pH of Buffer	4.00 pH
pH mV	146.4 mV
Temperature	8.27 °C

Calibration Point 2

pH of Buffer	7.06 pH
pH mV	-13.3 mV
Temperature	9.08 °C

Calibration Point 3

pH of Buffer	10.14 pH
pH mV	-171.1 mV
Temperature	9.03 °C

Slope and Offset 1

Slope	-52.19 mV/pH
Offset	-10.2 mV

Slope and Offset 2

Slope	-51.23 mV/pH
Offset	-10.2 mV

ORP

ORP Solution	Zobell's
Offset	6.5 mV
Temperature	9.02 °C

Calibration Report

Instrument	Aqua TROLL 400
Serial Number	714344
Created	1/30/2024

Sensor	**RDO**
Serial Number	879673
Last Calibrated	1/30/2024

Calibration Details

Slope	0.9801942
Offset	-0.00 mg/L

Calibration point 100%

Concentration	12.48 mg/L
Temperature	6.54 °C
Barometric Pressure	1,009.2 mbar

Sensor	**Conductivity**
Serial Number	714344
Last Calibrated	1/30/2024

Calibration Details

Cell Constant	0.894
Reference Temperature	25.00 °C
TDS Conversion Factor (ppm)	0.65

Sensor	**Level**
Serial Number	712534
Last Calibrated	Factory Defaults

Sensor	**pH/ORP**
Serial Number	21438
Last Calibrated	1/30/2024

Calibration Details

Total Calibration Points	3

Calibration Point 1

pH of Buffer	4.00 pH
pH mV	-9.9 mV
Temperature	8.02 °C

Calibration Point 2

pH of Buffer	7.06 pH
pH mV	-173.5 mV
Temperature	8.21 °C

Calibration Point 3

pH of Buffer	10.14 pH
pH mV	-325.6 mV
Temperature	8.83 °C

Slope and Offset 1

Slope	-53.48 mV/pH
Offset	-170.3 mV

Slope and Offset 2

Slope	-49.35 mV/pH
Offset	-170.6 mV

ORP

ORP Solution	ORP Standard
Offset	159.4 mV
Temperature	6.85 °C

Calibration Report

Instrument	Aqua TROLL 400
Serial Number	965678
Created	1/31/2024

Sensor	**RDO**
Serial Number	1071277
Last Calibrated	1/31/2024

Calibration Details

Slope	1.1473283
Offset	-0.00 mg/L

Calibration point 100%

Concentration	10.10 mg/L
Temperature	8.59 °C
Barometric Pressure	1,006.2 mbar

Sensor	**Conductivity**
Serial Number	965678
Last Calibrated	1/31/2024

Calibration Details

Cell Constant	0.756
Reference Temperature	25.00 °C
TDS Conversion Factor (ppm)	0.65

Sensor	**Level**
Serial Number	965199
Last Calibrated	Factory Defaults

Sensor	**pH/ORP**
Serial Number	21997
Last Calibrated	1/31/2024

Calibration Details

Total Calibration Points	3

Calibration Point 1

pH of Buffer	4.00 pH
pH mV	140.2 mV
Temperature	11.34 °C

Calibration Point 2

pH of Buffer	7.06 pH
pH mV	-20.0 mV
Temperature	11.41 °C

Calibration Point 3

pH of Buffer	10.14 pH
pH mV	-186.8 mV
Temperature	11.57 °C

Slope and Offset 1

Slope	-52.36 mV/pH
Offset	-16.9 mV

Slope and Offset 2

Slope	-54.14 mV/pH
Offset	-16.8 mV

ORP

ORP Solution	ORP Standard
Offset	21.3 mV
Temperature	12.13 °C

Calibration Report

Instrument	Aqua TROLL 400
Serial Number	965678
Created	2/1/2024

Sensor	**RDO**
Serial Number	1071277
Last Calibrated	2/1/2024

Calibration Details

Slope	1.0825956
Offset	-0.00 mg/L

Calibration point 100%

Concentration	12.47 mg/L
Temperature	2.89 °C
Barometric Pressure	1,012.8 mbar

Sensor	**Conductivity**
Serial Number	965678
Last Calibrated	2/1/2024

Calibration Details

Cell Constant	0.68
Reference Temperature	25.00 °C
TDS Conversion Factor (ppm)	0.65

Sensor	**Level**
Serial Number	965199
Last Calibrated	Factory Defaults

Sensor	**pH/ORP**
Serial Number	21997
Last Calibrated	2/1/2024

Calibration Details

Total Calibration Points	3

Calibration Point 1

pH of Buffer	4.00 pH
pH mV	143.4 mV
Temperature	4.41 °C

Calibration Point 2

pH of Buffer	7.06 pH
pH mV	-15.1 mV
Temperature	4.98 °C

Calibration Point 3

pH of Buffer	10.14 pH
pH mV	-181.3 mV
Temperature	5.36 °C

Slope and Offset 1

Slope	-51.77 mV/pH
Offset	-12.0 mV

Slope and Offset 2

Slope	-53.98 mV/pH
Offset	-11.8 mV

ORP

ORP Solution	ORP Standard
Offset	13.2 mV
Temperature	6.35 °C

Geosyntec consultants

180A Market Place Boulevard
Knoxville, TN 37922
PH 865.330.0037
www.geosyntec.com

Memorandum

Date:	20 May 2024
To:	Courtney Collins
From:	Ashley Wilson
CC:	K. Henderson
Subject:	**Stage 2A Data Validation - Level II Data Deliverables – GEL Laboratories, LLC Work Orders 653909, 653853, 653582, 653570, 653855 and 653575**

SITE: Plant Branch CCR Groundwater Compliance Semiannual Monitoring AP-BCD and AP-E

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of thirty-eight groundwater samples, five equipment blanks, five field blanks and five field duplicate samples collected 30 January – 1 February 2024, as part of the Plant Branch on-site sampling event.

The samples were analyzed at GEL Laboratories LLC, Charleston, SC, for the following analytical tests:

- Total and Dissolved Metals by United States (US) Environmental Protection Agency (EPA) Methods 3005A/6020B
- Mercury by US EPA Method 7470A
- Anions (Nitrate-Nitrogen (N), Chloride, Fluoride and Sulfate) by US EPA Method 300.0
- Total Dissolved Solids (TDS) by Standard Method (SM) 2540C
- Total Sulfide by SM 4500-S2-D
- Alkalinity by SM 2320B

EXECUTIVE SUMMARY

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below and based on the information provided, the data as qualified are usable for supporting project objectives. The qualified data should be used within the limitations of the qualifications. If there are results with two or more different qualifications due to multiple QC failures, the final qualification is reconciled in the electronic data deliverable (EDD) with qualifications.

The data were reviewed based on the following documents, the pertinent methods referenced by the data package and professional and technical judgment:

- US EPA Region IV Data Validation Standard Operating Procedures (US EPA Region IV, September 2011); and
- USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review, November 2020 (EPA 542-R-20-006).

The following samples were analyzed and reported in the laboratory reports:

Laboratory IDs	Client IDs
653582001	BRA-BRGWC-32S
653582002	BRA-BRGWC-47
653582003	BRA-PZ-44
653582004	BRA-BRGWA-23S
653582005	BRA-BRGWC-30I
653582006	BRA-APBCD-FD-01
653853001	BRA-BRGWC-29I
653853002	BRA-BRGWC-25I
653853003	BRA-BRGWC-27I
653853004	BRA-APBCD-FB-01
653909001	BRA-PZ-50D
653909002	BRA-APBCD-EB-05
653909003	BRA-BRGWC-50
653909004	BRA-APBCD-FB-03
653909005	BRA-BRGWC-45
653909006	BRA-PZ-58I
653909007	BRA-PZ-60I
653909008	BRA-PZ-61I
653909009	BRA-PZ-51I
653909010	BRA-APBCD-FD-03
653909011	BRA-PZ-51D
653909012	BRA-APBCD-EB-04
653909013	BRA-BRGWC-52I
653909014	BRA-PZ-63I
653909015	BRA-PZ-64I
653909016	BRA-APBCD-FD-02
653909017	BRA-APBCD-FB-02

Laboratory IDs	Client IDs
653909018	BRA-PZ-74I
653909019	BRA-APBCD-EB-06
653909020	BRA-PZ-68D
653909021	BRA-PZ-75I
653570001	BRA-BRGWA-2S
653570002	BRA-BRGWA-5S
653570003	BRA-BRGWA-5I
653570004	BRA-BRGWA-6S
653570005	BRA-BRGWA-2I
653575001	BRA-BRGWC-17S
653575002	BRA-BRGWC-35S
653575003	BRA-PZ-13S
653575004	BRA-APE-FD-04
653575005	BRA-APE-FB-07
653855001	BRA-BRGWC-33S
653855002	BRA-BRGWC-34S
653855003	BRA-BRGWC-36S
653855004	BRA-BRGWC-37S
653855005	BRA-BRGWC-38S
653855006	BRA-APE-EB-09
653855007	BRA-APE-FB-08
653855008	BRA-PZ-52D
653855009	BRA-PZ-53D
653855010	BRA-PZ-70I
653855011	BRA-APE-FD-05
653855012	BRA-APE-EB-10

The samples were received at 0.0 and 1.0 degrees Celsius (ºC), outside of the EPA Region 4 criteria of 4ºC ± 2ºC. Since the samples were received between 0-6ºC and based on professional judgment, no qualifications were applied to the data. No sample preservation issues were noted by the laboratory.

653855 and 653575: The third relinquishing time of the chain of custody (COC) was inconsistent with the receiving time. The relinquishing time appears to not be documented in military time.

653570, 653853 and 653582: The second relinquishing time of the COC was inconsistent with the receiving time. The relinquishing time appears to not be documented in military time.

1.0 METALS

The samples were analyzed for metals by US EPA methods 3005A/6020B.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable or not applicable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

✓ Overall Assessment
✓ Holding Time
⊗ Method Blank
⊗ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Laboratory Duplicate
⊗ Field Blank
✓ Equipment Blank
✓ Field Duplicate
✓ Serial Dilution
✓ Sensitivity
✓ Electronic Data Deliverables Review

1.1 Overall Assessment

1.1.1 Completeness

The metals data reported in this laboratory report are considered usable for supporting project objectives. The results are considered valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

1.1.2 Analysis Anomaly

The laboratory noted that the contract required detection limit (CRDL) for calcium did not meet the laboratory specified acceptance criteria. Since the calcium results in the associated samples were significantly greater than the CRDL and based on professional and technical judgement, no qualifications were applied to the data.

The laboratory also noted that for the Inductively Coupled Plasma – Mass Spectrometry analysis, the Interference Check Sample (ICSA) solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard. No qualifications were applied to the data based on professional and technical judgment.

1.2 Holding Time

The holding time for the metals analysis of a water sample is 180 days from sample collection to analysis. The holding times were met.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Five method blanks were reported (batches 2561629, 2562399, 2562396, 2563142 and 2563146). Metals were not detected in the method blanks at or above the method detection limits (MDLs), with the following exception.

653909: Manganese was detected at a concentration greater than the reporting limit (RL) in the method blank in batch 2563142. Therefore, the estimated concentrations of manganese in BRA-APBCD-EB-05 and BRA-APBCD-FB-03 were U qualified as not detected above the RL.

Sample ID	Compound	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier*	Reason Code**
BRA-APBCD-EB-05	Manganese	0.00105	J	0.00500	U	BLL
BRA-APBCD-FB-03	Manganese	0.00390	J	0.00500	U	BLL

mg/L- milligram per liter
J-the result is less than RL but greater than the MDL and the concentration is an approximate value
* Validation qualifiers are defined in Attachment 1 at the end of this report
**Reason codes are defined in Attachment 2 at the end of this report

1.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSDs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Five sample set specific MS/MSD pairs were reported, using samples BRA-BRGWC-29I, BRA-PZ-50D, BRA-BRGWC-52I, BRA-BRGWA-2S and BRA-

BRGWC-33S. The recovery and relative percent difference (RPD) results were within the laboratory specified acceptance criteria, with the following exception.

653909: The MS recovery of boron in the MS/MSD pair in batch 2563142 using sample BRA-PZ-50D was low and outside of laboratory specified acceptance criteria. Therefore, the concentration of boron in sample BRA-PZ-50D was J- qualified as estimated with low bias.

Sample ID	Compound	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
BRA-PZ-50D	Boron	0.269	NA	0.269	J-	MS1

mg/L- milligram per liter
NA-not applicable

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Five LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

1.6 Laboratory Duplicate

Laboratory duplicates were not reported for metals.

1.7 Field Blank

Five field blanks, BRA-APBCD-FB-01, BRA-APBCD-FB-02, BRA-APBCD-FB-03, BRA-APE-FB-07 and BRA-APE-FB-08 were collected with the sample set. Metals were not detected in the field blanks at or above the MDLs, with the following exceptions.

653909: Cobalt (0.00108 mg/L) and magnesium (0.0585 mg/L) were detected at concentrations greater than the RL in field blank BRA-APBCD-FB-02. Therefore, the estimated cobalt concentrations in BRA-APBCD-EB-06, BRA-BRGWC-52I, BRA-PZ-68D, BRA-PZ-74I and BRA-PZ-75I were U qualified as not detected at the RL, and the detected concentration of cobalt in BRA-APBCD-FD-02, BRA-BRGWC-45 and BRA-PZ-51D were J+ qualified as estimated with a high bias. Since magnesium was detected at concentrations greater than the RL in the associated samples and based on professional and technical judgment, no additional qualifications were applied to the data.

Boron (0.00839 mg/L) and manganese (0.00398 mg/L) were detected at estimated concentrations greater than the MDLs and less than the RLs in field blank BRA-APBCD-FB-02. Therefore, the concentrations of boron in sample BRA-BRGWC-45, BRA-PZ-51D and BRA-PZ-64I and manganese in BRA-PZ-74I and BRA-PZ-75I were J+ qualified as estimated with a high bias and

the estimated concentration of manganese in BRA-APBCD-EB-06 was U qualified as not detected at the RL.

Magnesium (0.0120 mg/L) and manganese (0.00390 mg/L) were detected at estimated concentrations greater than the MDLs and less than the RLs in field blank BRA-APBCD-FB-03. Therefore, the estimated manganese concentration in BRA-APBCD-EB-06 was U qualified as not detected at the RL. Since magnesium was detected at concentrations greater than the RL in the associated samples and based on professional and technical judgment, no additional qualifications were applied to the data.

Sample ID	Compound	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
BRA-APBCD-EB-06	Cobalt	0.000443	J	0.00100	U	BFH
BRA-APBCD-EB-06	Manganese	0.00327	J	0.00500	U	BFL
BRA-APBCD-FD-02	Cobalt	0.00179	NA	0.00179	J+	BFH
BRA-BRGWC-52I	Cobalt	0.000420	J	0.00100	U	BFH
BRA-BRGWC-45	Boron	0.0355	NA	0.0355	J+	BFL
BRA-PZ-51D	Boron	0.0326	NA	0.0326	J+	BFL
BRA-PZ-64I	Boron	0.0160	NA	0.0160	J+	BFL
BRA-PZ-68D	Cobalt	0.000852	J	0.00100	U	BFH
BRA-PZ-74I	Cobalt	0.000829	J	0.00100	U	BFH
BRA-PZ-74I	Manganese	0.0320	NA	0.0320	J+	BFL
BRA-PZ-75I	Cobalt	0.000519	J	0.00100	U	BFH
BRA-PZ-75I	Manganese	0.0209	NA	0.0209	J+	BFL
BRA-BRGWC-45	Cobalt	0.00181	NA	0.00181	J+	BFH
BRA-PZ-51D	Cobalt	0.00111	NA	0.00111	J+	BFH

mg/L- milligram per liter
J-the result is less than RL but greater than the MDL and the concentration is an approximate value
NA-not applicable

1.8 Equipment Blank

Five equipment blanks, BRA-APBCD-EB-04, BRA-APBCD-EB-05, BRA-APBCD-EB-06, BRA-APE-EB-09 and BRA-APE-EB-10 were collected with the sample set. Metals were not detected in the equipment blanks at or above the MDLs, with the following exceptions.

653909: Manganese (0.00105 mg/L) was detected at an estimated concentration greater that the MDL and less than the RL in equipment blank BRA-APBCD-EB-05. Since the concentration of manganese in equipment blank BRA-APBCD-EB-05 was U qualified as not detected at the RL due to method blank contamination and based on professional and technical judgment, no additional qualifications were applied to the data.

Cobalt (0.000443 mg/L) and manganese (0.00327 mg/L) were detected in equipment blank BRA-APBCD-EB-06 at estimated concentrations greater than the MDLs and less than the RLs. Since the concentrations of cobalt and manganese in equipment blank BRA-APBCD-EB-06 were U qualified as not detected at the RLs due to method blank contamination and based on professional and technical judgment, no additional qualifications were applied to the data.

653855: Magnesium (0.0190 mg/L) was detected in equipment blank BRA-APE-EB-10 at a concentration greater than the MDL and less than the RL. Since magnesium was detected at concentrations greater than the RL in the associated samples and based on professional and technical judgment, no qualifications were applied to the data.

1.9 Field Duplicate

Five duplicate samples, BRA-APBCD-FD-01, BRA-APBCD-FD-02, BRA-APBCD-FD-03, BRA-APE-FD-04 and BRA-APE-FD-05 were collected with the sample set. Acceptable precision (RPD < 20% or the difference between the concentrations < RL) was demonstrated between the field duplicates and the original samples BRA-PZ-44, BRA-BRGWC-52I, BRA-PZ-60I, BRGWC-35S and BRGWC-33S, respectively, with the following exceptions.

653909: Cobalt was detected in field duplicate BRA-APBCD-FD-02 at a concentration greater than the RL and detected at an estimated concentration greater than the MDL and less than the RL in sample BRA-BRGWC-52I, resulting in a noncalculable RPD between the results. Since the difference between the results were within the RL of each other, no qualifications were applied to the data.

653575: Beryllium was not detected in sample BRA-BRGWC-35S and detected at an estimated concentration greater than the MDL and less than the RL in field duplicate BRA-APE-FD-04, resulting in a noncalculable RPD between the results. Since the difference between the results were within the RL of each other, no qualifications were applied to the data.

653855: Arsenic was detected in sample BRA-BRGWC-33S at a concentration greater than the RL and detected at an estimated concentration greater than the MDL and less than the RL in field duplicate BRA-APE-FD-05, resulting in a noncalculable RPD between the results. Since the difference between the results were within the RL of each other, no qualifications were applied to the data.

1.10 Serial Dilution

Five sample set specific serial dilutions were reported for metals using samples BRA-BRGWC-29I, BRA-PZ-50D, BRA-BRGWC-52I, BRA-BRGWA-2S and BRA-BRGWC-33S. The percent difference (%D) results were within the method specified acceptance criteria.

One batch serial dilution was also reported. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

1.11 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were reported due to dilutions analyzed.

1.12 Electronic Data Deliverable Review

The results and sample IDs in the EDDs were reviewed against the information provided by the associated level II reports at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II reports and the EDDs.

2.0 MERCURY

The samples were analyzed for mercury by US EPA Method 7470A.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable or not applicable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

✓ Overall Assessment
✓ Holding Time
✓ Method Blank
⊗ Matrix Spike and Post Spike
✓ Laboratory Control Sample
✓ Laboratory Duplicate
✓ Field Blank
✓ Equipment Blank
✓ Field Duplicate
✓ Serial Dilution
✓ Sensitivity
✓ Electronic Data Deliverable Review

2.1 Overall Assessment

The mercury data reported in this laboratory report are considered usable for supporting project objectives. The results are considered valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to

the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

2.2 Holding Times

The holding time for the mercury analysis of a water sample is 28 days from sample collection to analysis. The holding times were met.

2.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Six method blanks were reported (batches 2561610, 2561613, 2562604, 2562321, 2563279 and 2563284). Mercury was not detected in the method blanks at or above the MDL.

2.4 Matrix Spike and Post Spike (PS)

MSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples).

653855: One sample set specific MS and post spike (PS) were reported using sample BRA-BRGWC-33S. The recovery results were low and outside of laboratory specified acceptance criteria. Therefore, the nondetect result in sample BRA-BRGWC-33S was UJ qualified as estimated less than the MDL.

Sample ID	Compound	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
BRA-BRGWC-33S	Mercury	0.0000670	U	0.0000670	UJ	MS1

mg/L- milligram per liter
U-not detected at or above the MDL

Five batch MSs were also reported. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

2.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Six LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

2.6 Laboratory Duplicate

One sample set specific laboratory duplicate was reported using sample BRA-BRGWC-33S. The RPD results were within the laboratory specified acceptance criteria.

Five batch laboratory duplicates were also reported. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

2.7 Field Blank

Five field blanks, BRA-APBCD-FB-01, BRA-APBCD-FB-02, BRA-APBCD-FB-03, BRA-APE-FB-07 and BRA-APE-FB-08 were collected with the sample set. Mercury was not detected in the field blanks at or above the MDL.

2.8 Equipment Blank

Five equipment blanks, BRA-APBCD-EB-04, BRA-APBCD-EB-05, BRA-APBCD-EB-06, BRA-APE-EB-09 and BRA-APE-EB-10 were collected with the sample set. Mercury was not detected in the equipment blanks at or above the MDL.

2.9 Field Duplicate

Five duplicate samples, BRA-APBCD-FD-01, BRA-APBCD-FD-02, BRA-APBCD-FD-03, BRA-APE-FD-04 and BRA-APE-FD-05 were collected with the sample set. Acceptable precision (RPD < 20% or the difference between the concentrations < RL) was demonstrated between the field duplicates and the original samples BRA-PZ-44, BRA-BRGWC-52I, BRA-PZ-60I, BRGWC-35S and BRGWC-33S, respectively.

2.10 Serial Dilution

One sample set specific serial dilution was performed using sample BRA-BRGWC-33S. The %D results were within the method specified acceptance criteria. Five batch serial dilutions were also reported for mercury. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

2.11 Sensitivity

The samples were reported to the MDL. Elevated non-detect results were not reported.

2.12 Electronic Data Deliverable Review

The results and sample IDs in the EDDs were reviewed against the information provided by the associated level II reports at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II reports and the EDDs.

3.0 WET CHEMISTRY

The samples were analyzed for anions by US EPA method 300.0, TDS by SM 2540C, total sulfide by SM 4500-S2-D and alkalinity by SM 2320B.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable or not applicable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

✓ Overall Assessment
⊗ Holding Times
⊗ Method Blank
⊗ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
⊗ Laboratory Duplicate
✓ Field Blank
⊗ Equipment Blank
✓ Field Duplicate
✓ Sensitivity
✓ Electronic Data Deliverables Review

3.1 Overall Assessment

3.1.1 Completeness

The wet chemistry data reported in this laboratory report are considered usable for supporting project objectives. The results are considered valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

3.1.2 Analysis Anomaly

653570, 653855 and 653853: The laboratory noted that samples BRA-BRGWA-6S, BRA-BRGWC-34S, BRA-BRGWC-36S, BRA-BRGWC-38S, BRA-PZ-52D, BRA-PZ-53D, BRA-PZ-70I, BRA-BRGWC-25I and BRA-BRGWC-27I were manually integrated to correctly position the baseline as set in the calibration standards for the anion analyses. No qualifications were applied to the data based on professional and technical judgment.

3.2 Holding Times

The holding time for the nitrate-n analyses of a water sample is 48 hours from sample collection to analysis. The holding time for the fluoride, chloride and sulfate analyses of a water sample is 28 days from sample collection to analysis. The holding times for the TDS and total sulfide analysis of a water sample are 7 days from sample collection to analysis. The holding time for the alkalinity analysis of a water sample is 14 days from sample collection to analysis. The holding times were met, with the following exceptions.

653909: The nitrate-n analysis was performed outside of the 48-hour hold time for sample BRA-PZ-50D. Therefore, the concentration of nitrate-n in sample BRA-PZ-50D was J- qualified as estimated with a low bias.

Sample ID	Compound	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
BRA-PZ-50D	Nitrogen-N	7.85	H	7.85	J-	HT2

mg/L- milligram per liter
H-analytical holding time was exceeded

3.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Four method blanks were reported for anions (batches 2561599, 2562344, 2562947 and 2562950). Four method blanks were reported for TDS (batches 2563910, 2564661, 2565277 and 2565278). Four method blanks were reported for total sulfide (batches 2561631, 2562451, 2562850 and 2562851). The wet chemistry parameters were not detected in the method blanks at or above the MDLs, with the following exceptions.

653885, 653853, 653855 and 653909: Chloride (0.114, 0.126 and 0.157 mg/L) was detected at estimated concentrations greater than the MDL and less than the RL in the method blanks in batches 2562344, 2562947 and 2562950, respectively. Therefore, the estimated concentrations of chloride in the associated samples were U qualified as not detected at the RL and the chloride concentration in sample BRA-APBCD-FB-01 was J+ qualified as estimated with high bias, based on professional and technical judgment.

Sample ID	Compound	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
BRA-APBCD-FB-01	Chloride	0.277	NA	0.277	J+	BLL
BRA-APE-EB-09	Chloride	0.200	J	0.200	U	BLL
BRA-APE-EB-10	Chloride	0.200	J	0.200	U	BLL
BRA-APE-FB-08	Chloride	0.200	J	0.200	U	BLL
BRA-APBCD-EB-05	Chloride	0.200	J	0.200	U	BLL
BRA-APBCD-FB-02	Chloride	0.200	J	0.200	U	BLL
BRA-APBCD-FB-03	Chloride	0.200	J	0.200	U	BLL

mg/L- milligram per liter
NA-not applicable
J-the result is less than RL but greater than the MDL and the concentration is an approximate value

3.4 Matrix Spike/Matrix Spike Duplicate

Seven sample set specific MSs were reported for anions, using samples BRA-PZ-44, BRA-BRGWC-29I, BRA-PZ-50D, BRA-PZ-51D, BRA-BRGWC-52I, BRA-BRGWA-2S and BRA-PZ-70I. The recovery results were within the laboratory specified acceptance criteria, with the following exceptions.

653855: The recoveries of chloride and sulfate in the MS in batch 2562344 using sample BRA-PZ-70I were high and outside of laboratory specified acceptance criteria. Therefore, the concentration of chloride in sample BRA-PZ-70I was J+ qualified as estimated with high bias. Since sulfate was reported from a dilution and based on professional and technical judgment, no qualifications were applied to the sulfate data.

653853: The recovery of chloride in the MS in batch 2562344 using sample BRA-BRGWC-29I was high and outside of laboratory specified acceptance criteria. Therefore, the concentration of chloride in sample BRA-BRGWC-29I was J+ qualified as estimated with high bias.

653909: The recoveries of chloride and nitrate-n in the MS in batch 2562947 using sample BRA-PZ-50D were high and outside of laboratory specified acceptance criteria. Therefore, the concentrations of chloride and nitrate-n in sample BRA-PZ-50D were J+ qualified as estimated. The nitrate-n concentration for sample BRA-PZ-50D was also J- qualified due to holding time exceedance; therefore, based on professional and technical judgment, the final qualification for the result is J qualified as estimated.

The recovery of chloride in the MS in batch 2562950 using sample BRA-BRGWC-52I was high and outside of laboratory specified acceptance criteria. Therefore, the concentration of chloride in sample BRA-BRGWC-52I was J+ qualified as estimated with high bias.

653582: The recovery of chloride in the MS in batch 2561599 using sample BRA-PZ-44 was high and outside of laboratory specified acceptance criteria. Therefore, the concentration of chloride in sample BRA-PZ-44 was J+ qualified as estimated with high bias.

Seven sample set specific MS/MSD pairs were reported for sulfide, using samples BRA-PZ-44, BRA-BRGWC-29I, BRA-PZ-50D, BRA-PZ-51D, BRA-BRGWC-52I, BRA-BRGWA-2S, BRA-BRGWC-45, BRA-PZ-68D and BRA-PZ-70I. The recovery results were within the laboratory specified acceptance criteria, with the following exceptions.

653853: The sulfide recoveries in the MS/MSD pair using sample BRA-BRGWC-29I were low and outside of laboratory specified acceptance criteria. Therefore, the nondetect result for sulfide for sample BRA-BRGWC-29I was UJ qualified as estimated below the MDL.

653855: The sulfide recoveries in the MS/MSD pair in batch 2562344 using sample BRA-PZ-70I were low and outside of laboratory specified acceptance criteria. Therefore, the nondetect result for sulfide for sample BRA-PZ-70I was UJ qualified as estimated below the MDL.

653909: The sulfide recoveries in the MS/MSD pair using sample BRA-BRGWC-45 were low and outside of laboratory specified acceptance criteria. Therefore, the nondetect result for sulfide for sample BRA-BRGWC-45 was UJ qualified as estimated below the MDL.

653582: The sulfide recoveries in the MS/MSD pair using sample BRA-PZ-44 were low and outside of laboratory specified acceptance criteria. Therefore, the nondetect result for sulfide for sample BRA-PZ-44 was UJ qualified as estimated below the MDL.

Batch MSs and MS/MSD pairs were also reported for anions, alkalinity and sulfide. Since the batch QC results do not affect the samples in this data set, qualifications were not applied to the data.

Sample ID	Compound	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
BRA-PZ-70I	Chloride	5.74	NA	5.74	J+	MS1
BRA-PZ-44	Chloride	6.36	NA	6.36	J+	MS1
BRA-BRGWC-29I	Chloride	7.94	NA	7.94	J+	MS1
BRA-BRGWC-52I	Chloride	6.30	NA	6.30	J+	MS1
BRA-PZ-50D	Chloride	10.6	NA	10.6	J+	MS1
BRA-PZ-50D	Nitrate-N	7.85	H	7.85	J	MS1
BRA-PZ-70I	Sulfide	0.100	U	0.100	UJ	MS1
BRA-PZ-44	Sulfide	0.100	U	0.100	UJ	MS1
BRA-BRGWC-45	Sulfide	0.100	U	0.100	UJ	MS1

Sample ID	Compound	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
BRA-BRGWC-29I	Sulfide	0.100	U	0.100	UJ	MS1

mg/L- milligram per liter
U-not detected at or above the MDL
NA-not applicable
H-analytical holding time was exceeded

3.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). An LCS or LCS/LCS duplicate (LCSD) pair was reported for each analytical batch per analysis. The recovery and RPD results were within the laboratory specified acceptance criteria.

3.6 Laboratory Duplicate

Seven sample set specific laboratory duplicates were reported for anions, using samples BRA-PZ-44, BRA-BRGWC-29I, BRA-PZ-50D, BRA-PZ-51D, BRA-BRGWC-52I, BRA-BRGWA-2S and BRA-PZ-70I. The RPD results were within the laboratory specified acceptance criteria.

Four sample set specific laboratory duplicate were reported for TDS, using samples BRA-PZ-50D, BRA-PZ-64I, BRA-BRGWC-35S and BRA-BRGWC-38S. The RPD results were within the laboratory specified acceptance criteria, with the following exception.

653909: The RPD of TDS in the laboratory duplicate using sample BRA-PZ-64I was high and outside of laboratory specified acceptance criteria. Therefore, the concentration of TDS in sample BRA-PZ-64I was J qualified as estimated.

Batch laboratory duplicates were reported for TDS and anions. Since the batch QC results do not affect the samples in this data set, qualifications were not applied to the data.

Sample ID	Compound	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
BRA-PZ-64I	TDS	4420	NA	4420	J	RPD5

mg/L- milligram per liter
NA-not applicable

3.7 Field Blank

Five field blanks, BRA-APBCD-FB-01, BRA-APBCD-FB-02, BRA-APBCD-FB-03, BRA-APE-FB-07 and BRA-APE-FB-08 were collected with the sample set. Wet chemistry parameters were not detected in the field blanks at or above the MDLs, with the following exceptions.

653853, 653855 and 653909: Chloride (0.277, 0.116, 0.174 and 0.142 mg/L) was detected at estimated concentrations greater than the MDL and less than the RL in field blanks BRA-APBCD-FB-01, BRA-APE-FB-08, BRA-APBCD-FB-02 and BRA-APBCD-FB-03, respectively. Since the concentrations of chloride in field blanks BRA-APBCD-FB-01, BRA-APE-FB-08, BRA-APBCD-FB-02 and BRA-APBCD-FB-03 were U qualified as not detected at the RL due to method blank contamination and based on professional and technical judgment, no additional qualifications were applied to the data.

3.8 Equipment Blank

Five equipment blanks, BRA-APBCD-EB-04, BRA-APBCD-EB-05, BRA-APBCD-EB-06, BRA-APE-EB-09 and BRA-APE-EB-10 were collected with the sample set. Wet chemistry parameters were not detected in the equipment blanks at or above the MDLs, with the following exceptions.

653855 and 653909: Chloride (0.176, 0.152 and 0.111 mg/L) was detected at estimated concentrations greater than the MDL and less than the RL in equipment blanks BRA-APBCD-EB-05, BRA-APE-EB-09 and BRA-APE-EB-10, respectively. Since the concentrations of chloride in equipment blanks BRA-APBCD-EB-05, BRA-APE-EB-09 and BRA-APE-EB-10 were U qualified as not detected at the RL due to method blank contamination and based on professional and technical judgment, no additional qualifications were applied to the data.

653855: Nitrate-n (0.0509 mg/L) was detected at an estimated concentration greater than the MDL and less than the RL in equipment blank BRA-APE-EB-09. Therefore, the estimated Nitrate-N concentrations in samples BRA-BRGWC-34S and BRA-PZ-53D were U qualified as not detected at the RL and the nitrate-n concentrations in samples BRA-BRGWC-36S, BRA-BRGWC-38S, BRA-PZ-52D and BRA-PZ-70I were J+ qualified as estimated with high bias.

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
BRA-BRGWC-34S	Nitrate-N	0.0409	J	0.100	U	BEL
BRA-BRGWC-36S	Nitrate-N	0.159	NA	0.159	J+	BEL
BRA-BRGWC-38S	Nitrate-N	0.119	NA	0.119	J+	BEL
BRA-PZ-52D	Nitrate-N	0.151	NA	0.151	J+	BEL
BRA-PZ-53D	Nitrate-N	0.0429	J	0.100	U	BEL

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
BRA-PZ-70I	Nitrate-N	0.152	NA	0.152	J+	BEL

mg/L- milligram per liter
J-the result is less than RL but greater than the MDL and the concentration is an approximate value
NA-not applicable

3.9 Field Duplicate

Five duplicate samples, BRA-APBCD-FD-01, BRA-APBCD-FD-02, BRA-APBCD-FD-03, BRA-APE-FD-04 and BRA-APE-FD-05 were collected with the sample set. Acceptable precision (RPD < 20% or the difference between the concentrations < RL) was demonstrated between the field duplicates and the original samples BRA-PZ-44, BRA-BRGWC-52I, BRA-PZ-60I, BRGWC-35S and BRGWC-33S, respectively, with the following exception.

653575: The nitrate-n RPD for field duplicate pair BRA-APE-FD-04/BRA-BRGWC-35S was greater than 30%. Since the difference between the results were within the RL of each other, no qualifications were applied to the data.

653582: Nitrate-n was not detected in field duplicate BRA-APBCD-FD-01 and detected at an estimated concentration greater than the MDL and less than the RL in sample BRA-PZ-44, resulting in a noncalculable RPD between the results. Since the difference between the results were within the RL of each other, no qualifications were applied to the data.

The fluoride RPD for field duplicate pair BRA-APBCD-FD-01/BRA-PZ-44 was greater than 30%. Since the difference between the results were within the RL of each other, no qualifications were applied to the data.

653855: Bicarbonate alkalinity as CaCO3 and total alkalinity as CaCO3 were detected in sample BRA-BRGWC-33S at a concentration greater than the RL and detected at an estimated concentration greater than the MDL and less than the RL in field duplicate BRA-APE-FD-05, resulting in a noncalculable RPD between the results. Since the difference between the results were within the RL of each other, no qualifications were applied to the data.

3.10 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were reported due to dilutions analyzed.

653855 and 653909: A reduced aliquot was used due to matrix interference in samples BRA-BRGWC-33S, BRA-APE-FD-05, BRA-BRGWC-33S, BRA-APE-FD-05, BRA-PZ-50D, BRA-

BRGWC-50, BRA-PZ-58I, BRA-PZ-60I, BRA-PZ-61I, BRA-PZ-51I, BRA-APBCD-FD-03 and BRA-PZ-64I.

3.11 Electronic Data Deliverable Review

The results and sample IDs in the EDDs were reviewed against the information provided by the associated level II reports at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II reports and the EDDs.

ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS
AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

U The analyte was analyzed for, but was not detected at or above the reported sample quantitation limit. Upon application of the U qualifier to a reported result, the definition changes to "not detected at or above the reported result."

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

J+ The analyte was positively identified; however, the associated numerical value is likely to be higher than the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.

J- The analyte was positively identified; however, the associated numerical value is likely to be lower than the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.

UJ The analyte was not detected at or above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec's Data Validation Team

DQM Reason Code	Description
AB1	> Samples in batch
AB2	QC sample missing
AB3	Batch analysis time exceeded
BAH	Contamination detected in the Ambient Blank greater than or equal to the Quantitation Limit.
BAL	Contamination detected in the Ambient Blank less than the Quantitation Limit.
BC	Calibration blank contamination
BC1	assoc. result < RL
BC2	assoc. result > RL < mult.
BC3	assoc. result > RL > mult.
BEH	Contamination detected in the Equipment Blank greater than or equal to the Quantitation Limit.
BEL	Contamination detected in the Equipment Blank less than the Quantitation Limit.
BF	Field blank contamination
BF1	assoc. result < RL
BF2	assoc. result > RL < mult.
BF3	assoc. result > RL > mult.
BFH	Contamination detected in the Field Blank greater than or equal to the Quantitation Limit.
BFL	Contamination detected in the Field Blank less than the Quantitation Limit.
BL	Laboratory blank contamination
BL1	assoc. result < RL
BL2	assoc. result > RL < mult.
BL3	assoc. result > RL > mult.
BLH	Contamination detected in the Lab Blank greater than or equal to the Quantitation Limit.
BLL	Contamination detected in the Lab Blank less than the Quantitation Limit.
BT	Trip blank contamination
BT1	assoc. result < RL
BT2	assoc. result > RL < mult.

DQM Reason Code	Description
BT3	assoc. result > RL > mult.
BTH	Contamination detected in the Trip Blank greater than or equal to the Quantitation Limit.
BTL	Contamination detected in the Trip Blank less than the Quantitation Limit.
CA1	Column difference
CC1	CCV %D
CC2	CCV %R
CC3	CCV RRF
CI1	IC RSD
CI2	IC RRF
CR1	Calibration range
CV1	ICV or CCV %D
CV2	ICV or CCV %R
CV3	ICV CCV RRF
DF1	Dilution Factor > 1
DL	Dilution Factor > 1
DVT1	The Dissolved Result > Total Result and the absolute difference > the AD_MULTIPLIER_CL * Detection Limit
DVT2	The Dissolved Result > Total Result and the absolute difference > AD_MULTIPLIER_UCO * Detection Limit
DVT3	The Dissolved Result > Total Result and the relative percent difference (RPD) > RPD_CL
DVT4	The Dissolved Result > Total Result and the relative percent difference (RPD) > RPD_UCO
ER1	MDL=<RESULT<RL (INORGANIC)
ER2	MDL=<RESULT<RL (ORGANIC)
FBC1	BLANK CONTAMINATION
FBC2	RESULT < BLANK * MULTIPLIER
FBC3	RESULT > BLANK * MULTIPLIER
FD1	Field duplicate RPD

DQM Reason Code	Description
FD2	Field duplicate abs. diff.
GHT1	GROSS_QUALIFIER_HIT
GHT2	GROSS_QUALIFIER_NON_DETECT
HP1	Hydrocarbon pattern
HT1	Holding time samp. to preservation
HT2	Holding time samp. to analysis
HT3	Holding time gros. samp. to pres.
HT4	Holding time gros. samp. to analysis
IS1	Internal standard
LBC1	BLANK CONTAMINATION
LBC2	RESULT < BLANK * MULTIPLIER
LBC3	RESULT > BLANK * MULTIPLIER
LD1	Lab duplicate RPD
LD2	Lab duplicate abs. diff.
LS1	LS %R
LS2	LS RPD
MS1	MS %R
MS2	MS RPD
MS3	Parent >4x spike
MS4	Spike diluted out
NP1	Non-Preferred Result
NR1	NUMERIC RESULTS
OT1	Other quality issue
PS1	BETWEEN CONTROL AND WARNING LIMITS
PS2	INVALID
PS3	LESS THAN LOWER CONTROL LIMIT
PS4	LESS THAN LOWER WARNING LIMIT

DQM Reason Code	Description
PT1	The preservative for this test id does not match the required preservative in RT_HOLDING_TIME.
RDL1	EXCEEDS REQUIRED DETECTION LIMIT
RL1	ND > project limit
RO1	Other rad. issue
RPD1	LCS/LCSD
RPD2	LCS/LCSD_NON_DETECT
RPD3	MS/MSD
RPD4	MS/MSD_NON_DETECT
RPD5	Orig/Dup
RPD6	Orig/Dup_NON_DETECT
RPDF1	FIELD DUPLICATE
RPDF2	FIELD DUPLICATE NON_DETECT
RQ1	Rad. quantitation issue
RR1	Repeated result same method
RR2	Repeated result diff. method
RSD1	RSD exceeds CL for LCS sample
RSD2	RSD exceeds CL for MS sample
RSD3	RSD exceeds CL for Lab sample
RSD4	RSD exceeds CL for Field sample
RY1	Tracer or carrier
SD1	Serial dilution
SO1	High moisture
SO2	Wet weight
SP1	Preservation, temp
SP2	Preservation, pH
SP3	Preservation, headspace

DQM Reason Code	Description
SPR1	BLANK SPIKE > UCL
SPR10	EarthSoft.DQM.SpikeRecovery2
SPR11	EarthSoft.DQM.SpikeRecovery2
SPR12	EarthSoft.DQM.SpikeRecovery2
SPR2	INORGANIC SPIKE > UCL
SPR3	ORGANIC SPIKE > UCL
SPR4	LCL > BLANK > LOW_CUTOFF
SPR5	LCL > INORG > LOW_CUTOFF
SPR6	LCL > ORG > LOW_CUTOFF
SPR7	BLANK SPIKE < LOW_CUTOFF
SPR8	INORGANIC SPIKE < LOW_CUTOFF
SPR9	ORGANIC SPIKE < LOW_CUTOFF
SU	Surrogate outlier
SU1	Surrogate
SU2	Surrogate diluted out
SURR1	ASSO. DETECTS OF LCL > REC > LOW_CUTOFF
SURR10	EarthSoft.DQM.SurrogateRecovery
SURR11	EarthSoft.DQM.SurrogateRecovery
SURR12	EarthSoft.DQM.SurrogateRecovery
SURR2	ASSO. DETECTS OF REC < LOW_CUTOFF
SURR3	ASSO. DETECTS OF REC > UCL
SURR4	ASSO. NDS OF LCL > REC > LOW_CUTOFF
SURR5	ASSO. NDS OF REC < LOW_CUTOFF
SURR6	ASSO. NDS OF REC > UCL
SURR7	LCL > REC > LOW_CUTOFF
SURR8	REC < LOW_CUTOFF
SURR9	REC > UCL
TBC1	BLANK CONTAMINATION

DQM Reason Code	Description
TBC2	RESULT < BLANK * MULTIPLIER
TBC3	RESULT > BLANK * MULTIPLIER
TR	Trace Detection
TR1	Trace detection
TRA1	Tracer is outside of UCL or LCL
TRA2	Associated result of a tracer less than the LCL
TRA3	Associated detect result of a tracer greater than the UCL
VC1	Canister vacuum
VC2	Canister contamination
VSU1	INVALID SAMPLE UNIT TYPE
VSU2	MISSING SAMPLE UNIT TYPE
VSU3	NON-DEFAULT RESULT UNIT

AD-Absolute Difference
CCV-Continuous Calibration Verification
CL-Control Limit
%D-Percent Difference
IC-Initial Calibration
ICV-Initial Calibration Verification
INORG-Inorganic
LCL-Lower Control Limit
LCS-Laboratory Control Spike
LCSD-Laboratory Control Spike Duplicate
LS-Laboratory Spike
MDL-Method Detection Limit
MS-Matrix Spike
MSD-Matrix Spike Duplicate
ND-Not Detected
ORG-Organic
QC-Quality Control
%R-Percent Recovery
REC-Recovery
RL-Reporting Limit
RPD-Relative Percent Difference
RRF-Relative Response Factor
RSD-Relative Standard Deviation
UCL-Upper Control Limit
UCO-Upper Cut Off

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Memorandum

Date:	29 May 2024
To:	Lauren Fitzgerald
From:	Kristoffer Henderson
CC:	Ashley Wilson
Subject:	**Stage 2A Data Validation - Level II Data Deliverables – GEL Laboratories, LLC Work Orders (WOs) 653572, 653856, 653580, 653911, 653854 and 653584**

SITE: Plant Branch CCR Groundwater Compliance

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of thirty-eight groundwater samples, five equipment blanks, five field blanks and five field duplicate samples, collected between 30-31 January and 01 February 2024, as part of the Plant Branch CCR Groundwater Compliance sampling event.

The samples were analyzed at GEL Laboratories LLC, Charleston, SC, for the following analytical tests:

- Radium-226 by Modified United States (US) Environmental Protection Agency (EPA) Method 903.1
- Radium-228 by Modified US EPA Methods 904.0/9320 Modified
- Total Radium by Calculation

EXECUTIVE SUMMARY

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below and based on the information provided, the data as qualified are usable for supporting project objectives. The qualified data should be used within the limitations of the qualifications. If there are results with two or more different qualifications due to multiple QC failures, the final qualification is reconciled in the electronic data deliverable (EDD) with qualifications.

The data were reviewed based on the pertinent methods referenced in the laboratory reports, professional and technical judgment, and the following documents:

- American Nuclear Society Verification and Validation of Radiological Data for use in Waste Management and Environmental Remediation (ANSI/ANS-41.5-2012), February 15, 2012.

The following samples were analyzed and reported in the laboratory reports:

Laboratory IDs	Client IDs
653584001	BRA-BRGWC-32S
653584002	BRA-BRGWC-47
653584003	BRA-PZ-44
653584004	BRA-BRGWA-23S
653584005	BRA-BRGWC-30I
653584006	BRA-APBCD-FD-01
653854001	BRA-BRGWC-29I
653854002	BRA-BRGWC-25I
653854003	BRA-BRGWC-27I
653854004	BRA-APBCD-FB-01
653911001	BRA-PZ-50D
653911002	BRA-APBCD-EB-05
653911003	BRA-BRGWC-50
653911004	BRA-APBCD-FB-03
653911005	BRA-BRGWC-45
653911006	BRA-PZ-58I
653911007	BRA-PZ-60I
653911008	BRA-PZ-61I
653911009	BRA-PZ-51I
653911010	BRA-APBCD-FD-03
653911011	BRA-PZ-51D
653911012	BRA-APBCD-EB-04
653911013	BRA-BRGWC-52I
653911014	BRA-PZ-63I
653911015	BRA-PZ-64I
653911016	BRA-APBCD-FD-02
653911017	BRA-APBCD-FB-02

Laboratory IDs	Client IDs
653911018	BRA-PZ-74I
653911019	BRA-APBCD-EB-06
653911020	BRA-PZ-68D
653911021	BRA-PZ-75I
653856001	BRA-BRGWC-33S
653856002	BRA-BRGWC-34S
653856003	BRA-BRGWC-36S
653856004	BRA-BRGWC-37S
653856005	BRA-BRGWC-38S
653856006	BRA-APE-EB-09
653856007	BRA-APE-FB-08
653856008	BRA-PZ-52D
653856009	BRA-PZ-53D
653856010	BRA-PZ-70I
653856011	BRA-APE-FD-05
653856012	BRA-APE-EB-10
653580001	BRA-BRGWC-17S
653580002	BRA-BRGWC-35S
653580003	BRA-PZ-13S
653580004	BRA-APE-FD-04
653580005	BRA-APE-FB-07
653572001	BRA-BRGWA-2S
653572002	BRA-BRGWA-5S
653572003	BRA-BRGWA-5I
653572004	BRA-BRGWA-6S
653572005	BRA-BRGWA-2I

No sample preservation issues were noted by the laboratory.

Sample collection times were not listed on the chain of custody (COC) for field duplicate samples, BRA-APE-FD-04, BRA-APE-FD-05, BRA-APBCD-FD-01, BRA-APBCD-FD-02 and BRA-APBCD-FD-03. Collection times were not documented in the laboratory reports.

1.0 RADIOCHEMISTRY

The samples were analyzed for radium-226 by modified US EPA method 903.1, modified radium-228 by US EPA methods 904.0/9320 modified and total radium by calculation.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

⊗ Overall Assessment
✓ Holding Times
⊗ Method Blank
✓ Matrix Spike
✓ Laboratory Control Sample
✓ Laboratory Duplicate
✓ Tracers and Carriers
✓ Field Blank
⊗ Equipment Blank
✓ Field Duplicate
✓ Sensitivity
✓ Electronic Data Deliverables Review

1.1 Overall Assessment

1.1.1 Completeness

The radiochemistry data reported in this data set are considered usable for supporting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

1.1.2 Analysis Anomaly

Total radium was reported at the minimum detectable concentration (MDC) for radium-228 for the samples and total radium-226 was detected in the following samples greater than the MDC, BRA-BRGWC-45, BRA-BRGWC-50, BRA-APE-EB-10, BRA-BRGWC-34S, BRA-BRGWC-32S and BRA-BRGWC-27I. In addition, since the total radium concentrations were less than the MDC for radium-228 the laboratory U flagged these concentrations as less than the MDC. Since total radium is calculated from radium-226 and radium-228, and radium-226 was greater than the MDC, and based on professional and technical judgment, the total radium concentrations for these samples were reported with no qualifications.

Total radium was reported at the MDC for radium-228 for the samples, and total radium-226 and total radium-228 were not detected in samples BRA-PZ-13S and BRA-BRGWA-6S greater than the MDCs. In addition, since the total radium concentrations were greater than the MDCs for radium-228 the sample results were not U flagged as less than the MDCs. Since total radium is calculated from radium-226 and radium-228, and radium-226 and radium-228 were less than the MDCs, and based on professional and technical judgment, the total radium concentrations for samples BRA-PZ-13S and BRA-BRGWA-6S were U qualified as less than the MDCs.

Sample ID	Compound	Laboratory Result (pCi/L)	Laboratory Flag	Validation Result (pCi/L)	Validation Qualifier*	Reason Code**
BRA-BRGWC-45	Combined Radium 226 + 228	1.22	U	1.22	NA	RO1
BRA-BRGWC-50	Combined Radium 226 + 228	0.607	U	0.607	NA	RO1
BRA-APE-EB-10	Combined Radium 226 + 228	0.263	U	0.263	NA	RO1
BRA-BRGWC-34S	Combined Radium 226 + 228	1.31	U	1.31	NA	RO1
BRA-BRGWC-32S	Combined Radium 226 + 228	0.572	U	0.572	NA	RO1
BRA-BRGWC-27I	Combined Radium 226 + 228	1.49	U	1.49	NA	RO1
BRA-PZ-13S	Combined Radium 226 + 228	2.01	NA	2.01	U	RO1
BRA-BRGWA-6S	Combined Radium 226 + 228	1.29	NA	1.29	U	RO1

pCi/L-picocuries per liter
U-not detected at or above the MDC
NA-not applicable
* Validation qualifiers are defined in Attachment 1 at the end of this report
**Reason codes are defined in Attachment 2 at the end of this report

1.2 Holding Times

The holding times for the radium-226 and radium-228 analyses of a water sample are 180 days from sample collection to analysis. The holding times were met for the sample analyses.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three method blanks were reported for the radium-226 data (batches 2561841, 2563218 and 2563219). Three method blanks were reported for the radium-228 data (batches 2568518, 2568527 and 2568570). Radium-226 and radium-228 were not detected in the method blanks at or above the MDCs, with the following exceptions.

653572, 653584 and 653580: Radium-228 (2.37 pCi/L) was detected in the method blank in batch 2568518 at a concentration greater than the MDC. Since the mean differences were less than 2 between the blank and samples BRA-BRGWA-2S, BRA-BRGWC-30I, BRA-BRGWC-47 and BRA-PZ-44, and the sample concentrations were less than ten times the blank concentration, the radium-228 concentrations for samples BRA-BRGWA-2S, BRA-BRGWC-30I, BRA-BRGWC-

47 and BRA-PZ-44 were UJ qualified as estimated less than the reported concentrations. Since Radium-226 was not detected in the samples BRA-BRGWA-2S, BRA-BRGWC-47 and BRA-PZ-44, the combined radium concentrations for these samples were UJ qualified as estimated less than the reported concentrations. The combined concentration in sample BRA-BRGWC-30I was J qualified as estimated due to there being a detection of radium-226 in the sample.

Sample ID	Compound	Laboratory Result (pCi/L)	Laboratory Flag	Validation Result (pCi/L)	Validation Qualifier	Reason Code
BRA-BRGWA-2S	Radium-228	2.10	NA	2.00	UJ	BL2
BRA-BRGWA-2S	Combined Radium 226 + 228	2.54	NA	2.54	UJ	BL2
BRA-BRGWC-30I	Radium-228	2.40	NA	2.40	UJ	BL2
BRA-BRGWC-30I	Combined Radium 226 + 228	4.11	NA	4.11	J	BL2
BRA-BRGWC-47	Radium-228	2.25	NA	2.25	UJ	BL2
BRA-BRGWC-47	Combined Radium 226 + 228	2.63	NA	2.63	UJ	BL2
BRA-PZ-44	Radium-228	2.21	NA	2.21	UJ	BL2
BRA-PZ-44	Combined Radium 226 + 228	2.87	NA	2.87	UJ	BL2

pCi/L-picocuries per liter
NA-not applicable

1.4 Matrix Spike (MS)

Three sample set specific MSs were reported for radium-226 using samples BRA-BRGWA-2S, BRA-BRGWC-29I and BRA-BRGWC-45. The recovery results were within the laboratory specified acceptance criteria.

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three LCSs were reported for radium-226 and three LCSs were reported for radium-228. The recovery results were within the laboratory specified acceptance criteria.

1.6 Laboratory Duplicate

Three sample set specific laboratory duplicates were reported for radium-226 using samples BRA-BRGWA-2S, BRA-BRGWC-29I and BRA-BRGWC-45 and three sample set specific laboratory duplicates were reported for radium-228 using samples BRA-BRGWA-2S, BRA-BRGWC-29I and BRA-BRGWC-45. The replicate error ratio (RER) results were within the laboratory specified acceptance criteria.

1.7 Tracers and Carriers

Tracers were reported for radium-228 analyses. The recovery results were within the laboratory specified acceptance criteria.

1.8 Field Blank

Five field blanks, BRA-APBCD-FB-01, BRA-APBCD-FB-02, BRA-APBCD-FB-03, BRA-APE-FB-07 and BRA-APE-FB-08 were collected with the sample set. Radium-226 and Radium-228 were not detected in the field blanks at or above the MDCs.

1.9 Equipment Blank

Five equipment blanks, BRA-APBCD-EB-04, BRA-APBCD-EB-05 and BRA-APBCD-EB-06 BRA-APE-EB-09 and BRA-APE-EB-10 were collected with the sample set. Radium-226 and radium-228 were not detected in the equipment blanks at or above the MDCs, with the following exceptions.

Radium-226 (0.493 pCi/L) and combined radium 226 and 228 (1.91 pCi/L) were detected in the BRA-APE-EB-09 at concentrations greater than the MDC. Radium-226 (0.263 pCi/L) was detected in the BRA-APE-EB-10 at a concentration greater than the MDC. The associated samples were qualified as follows:

For radium-226 concentrations less than ten times the equipment blank concentration with a mean difference less than 2, the radium concentration was UJ qualified as estimated less than the reported concentration.

For samples with a UJ qualified radium-226 concentration and a radium-228 concentration less than the MDC, the total radium concentration was UJ qualified as estimated less than the reported concentration. For samples with a UJ qualified radium-226 concentration and a radium-228 concentration greater than the MDC, the total radium concentration was J qualified as estimated.

Sample ID	Compound	Laboratory Result (pCi/L)	Laboratory Flag	Validation Result (pCi/L)	Validation Qualifier	Reason Code
BRA-BRGWA-2I	Radium-226	0.878	NA	0.878	UJ	BEH
BRA-BRGWC-17S	Radium-226	1.36	NA	1.36	UJ	BEH
BRA-BRGWC-35S	Radium-226	0.556	NA	0.556	UJ	BEH
BRA-BRGWC-30I	Radium-226	1.71	NA	1.71	UJ	BEH
BRA-BRGWC-32S	Radium-226	0.572	NA	0.572	UJ	BEH
BRA-APE-FD-05	Radium-226	1.14	NA	1.14	UJ	BEH
BRA-BRGWC-33S	Radium-226	1.15	NA	1.15	UJ	BEH
BRA-BRGWC-34S	Radium-226	0.888	NA	0.888	UJ	BEH

Sample ID	Compound	Laboratory Result (pCi/L)	Laboratory Flag	Validation Result (pCi/L)	Validation Qualifier	Reason Code
BRA-BRGWC-36S	Radium-226	2.18	NA	2.18	UJ	BEH
BRA-BRGWC-37S	Radium-226	0.604	NA	0.604	UJ	BEH
BRA-BRGWC-38S	Radium-226	0.768	NA	0.768	UJ	BEH
BRA-PZ-52D	Radium-226	0.360	NA	0.360	UJ	BEH
BRA-PZ-70I	Radium-226	0.620	NA	0.620	UJ	BEH
BRA-BRGWC-25I	Radium-226	2.70	NA	2.70	UJ	BEH
BRA-BRGWC-27I	Radium-226	1.12	NA	1.12	UJ	BEH
BRA-BRGWC-29I	Radium-226	2.01	NA	2.01	UJ	BEH
BRA-BRGWA-2I	Combined Radium 226 + 228	1.25	NA	1.25	UJ	BEH
BRA-BRGWC-17S	Combined Radium 226 + 228	1.36	NA	1.36	UJ	BEH
BRA-BRGWC-35S	Combined Radium 226 + 228	2.40	NA	2.40	UJ	BEH
BRA-APE-FD-05	Combined Radium 226 + 228	1.80	NA	1.80	UJ	BEH
BRA-BRGWC-36S	Combined Radium 226 + 228	2.31	NA	2.31	UJ	BEH
BRA-BRGWC-37S	Combined Radium 226 + 228	1.74	NA	1.74	UJ	BEH
BRA-PZ-70I	Combined Radium 226 + 228	1.55	NA	1.55	UJ	BEH
BRA-BRGWC-30I	Combined Radium 226 + 228	4.11	NA	4.11	J	BEH
BRA-BRGWC-32S	Combined Radium 226 + 228	0.572	U	0.572	UJ	BEH
BRA-BRGWC-33S	Combined Radium 226 + 228	2.66	NA	2.66	J	BEH
BRA-BRGWC-34S	Combined Radium 226 + 228	1.31	U	1.31	UJ	BEH
BRA-BRGWC-38S	Combined Radium 226 + 228	2.98	NA	2.98	J	BEH
BRA-PZ-52D	Combined Radium 226 + 228	2.54	NA	2.54	J	BEH
BRA-BRGWC-25I	Combined Radium 226 + 228	3.78	NA	3.78	UJ	BEH
BRA-BRGWC-27I	Combined Radium 226 + 228	1.49	U	1.49	UJ	BEH
BRA-BRGWC-29I	Combined Radium 226 + 228	3.01	NA	3.01	UJ	BEH

pCi/L-picocuries per liter
NA-not applicable

1.10 Field Duplicate

Five field duplicate samples, BRA-APBCD-FD-01, BRA-APBCD-FD-02, BRA-APBCD-FD-03, BRA-APE-FD-04 and BRA-APE-FD-05 were collected with the sample set. Acceptable precision

[RER (1σ) < 3] was demonstrated between the field duplicates and the original samples, BRA-PZ-44, BRA-BRGWC-52I, BRA-PZ-60I, BRGWC-35S and BRGWC-33S, respectively.

1.11 Sensitivity

The samples were reported to the MDCs. Elevated non-detect results were not reported.

1.12 Electronic Data Deliverable Review

The results and sample IDs in the EDDs were reviewed against the information provided by the associated level II reports at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II reports and the EDDs.

**DATA VALIDATION QUALIFIER DEFINITIONS
AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team**

DATA QUALIFIER DEFINITIONS

U The analyte was analyzed for, but was not detected above the reported sample quantitation limit. Upon application of the U qualifier to a reported result, the definition changes to "not detected at or above the reported result."

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

J+ The analyte was positively identified; however, the associated numerical value is likely to be higher than the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.

J- The analyte was positively identified; however, the associated numerical value is likely to be lower than the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec's Data Validation Team

DQM Reason Code	Description
AB1	> Samples in batch
AB2	QC sample missing
AB3	Batch analysis time exceeded
BAH	Contamination detected in the Ambient Blank greater than or equal to the Quantitation Limit.
BAL	Contamination detected in the Ambient Blank less than the Quantitation Limit.
BC	Calibration blank contamination
BC1	assoc. result < RL
BC2	assoc. result > RL < mult.
BC3	assoc. result > RL > mult.
BEH	Contamination detected in the Equipment Blank greater than or equal to the Quantitation Limit.
BEL	Contamination detected in the Equipment Blank less than the Quantitation Limit.
BF	Field blank contamination
BF1	assoc. result < RL
BF2	assoc. result > RL < mult.
BF3	assoc. result > RL > mult.
BFH	Contamination detected in the Field Blank greater than or equal to the Quantitation Limit.
BFL	Contamination detected in the Field Blank less than the Quantitation Limit.
BL	Laboratory blank contamination
BL1	assoc. result < RL

DQM Reason Code	Description
BL2	assoc. result > RL < mult.
BL3	assoc. result > RL > mult.
BLH	Contamination detected in the Lab Blank greater than or equal to the Quantitation Limit.
BLL	Contamination detected in the Lab Blank less than the Quantitation Limit.
BT	Trip blank contamination
BT1	assoc. result < RL
BT2	assoc. result > RL < mult.
BT3	assoc. result > RL > mult.
BTH	Contamination detected in the Trip Blank greater than or equal to the Quantitation Limit.
BTL	Contamination detected in the Trip Blank less than the Quantitation Limit.
CA1	Column difference
CC1	CCV %D
CC2	CCV %R
CC3	CCV RRF
CI1	IC RSD
CI2	IC RRF
CR1	Calibration range
CV1	ICV or CCV %D
CV2	ICV or CCV %R
CV3	ICV CCV RRF
DF1	Dilution Factor > 1

DQM Reason Code	Description
DL	Dilution Factor > 1
DVT1	The Dissolved Result > Total Result and the absolute difference > the AD_MULTIPLIER_CL * Detection Limit
DVT2	The Dissolved Result > Total Result and the absolute difference > AD_MULTIPLIER_UCO * Detection Limit
DVT3	The Dissolved Result > Total Result and the relative percent difference (RPD) > RPD_CL
DVT4	The Dissolved Result > Total Result and the relative percent difference (RPD) > RPD_UCO
ER1	MDL=<RESULT<RL (INORGANIC)
ER2	MDL=<RESULT<RL (ORGANIC)
FBC1	BLANK CONTAMINATION
FBC2	RESULT < BLANK * MULTIPLIER
FBC3	RESULT > BLANK * MULTIPLIER
FD1	Field duplicate RPD
FD2	Field duplicate abs. diff.
GHT1	GROSS_QUALIFIER_HIT
GHT2	GROSS_QUALIFIER_NON_DETECT
HP1	Hydrocarbon pattern
HT1	Holding time samp. to preservation
HT2	Holding time samp. to analysis
HT3	Holding time gros. samp. to pres.
HT4	Holding time gros. samp. to analysis
IS1	Internal standard
LBC1	BLANK CONTAMINATION

DQM Reason Code	Description
LBC2	RESULT < BLANK * MULTIPLIER
LBC3	RESULT > BLANK * MULTIPLIER
LD1	Lab duplicate RPD
LD2	Lab duplicate abs. diff.
LS1	LS %R
LS2	LS RPD
MS1	MS %R
MS2	MS RPD
MS3	Parent >4x spike
MS4	Spike diluted out
NP1	Non-Preferred Result
NR1	NUMERIC RESULTS
OT1	Other quality issue
PS1	BETWEEN CONTROL AND WARNING LIMITS
PS2	INVALID
PS3	LESS THAN LOWER CONTROL LIMIT
PS4	LESS THAN LOWER WARNING LIMIT
PT1	The preservative for this test id does not match the required preservative in RT_HOLDING_TIME.
RDL1	EXCEEDS REQUIRED DETECTION LIMIT
RL1	ND > project limit
RO1	Other rad. issue
RPD1	LCS/LCSD
RPD2	LCS/LCSD_NON_DETECT
RPD3	MS/MSD
RPD4	MS/MSD_NON_DETECT

DQM Reason Code	Description
RPD5	Orig/Dup
RPD6	Orig/Dup_NON_DETECT
RPDF1	FIELD DUPLICATE
RPDF2	FIELD DUPLICATE NON_DETECT
RQ1	Rad. quantitation issue
RR1	Repeated result same method
RR2	Repeated result diff. method
RSD1	RSD exceeds CL for LCS sample
RSD2	RSD exceeds CL for MS sample
RSD3	RSD exceeds CL for Lab sample
RSD4	RSD exceeds CL for Field sample
RY1	Tracer or carrier
SD1	Serial dilution
SO1	High moisture
SO2	Wet weight
SP1	Preservation, temp
SP2	Preservation, pH
SP3	Preservation, headspace
SPR1	BLANK SPIKE > UCL
SPR10	EarthSoft.DQM.SpikeRecovery2
SPR11	EarthSoft.DQM.SpikeRecovery2
SPR12	EarthSoft.DQM.SpikeRecovery2
SPR2	INORGANIC SPIKE > UCL
SPR3	ORGANIC SPIKE > UCL
SPR4	LCL > BLANK > LOW_CUTOFF
SPR5	LCL > INORG > LOW_CUTOFF
SPR6	LCL > ORG > LOW_CUTOFF
SPR7	BLANK SPIKE < LOW_CUTOFF

DQM Reason Code	Description
SPR8	INORGANIC SPIKE < LOW_CUTOFF
SPR9	ORGANIC SPIKE < LOW_CUTOFF
SU	Surrogate outlier
SU1	Surrogate
SU2	Surrogate diluted out
SURR1	ASSO. DETECTS OF LCL > REC > LOW_CUTOFF
SURR10	EarthSoft.DQM.SurrogateRecovery
SURR11	EarthSoft.DQM.SurrogateRecovery
SURR12	EarthSoft.DQM.SurrogateRecovery
SURR2	ASSO. DETECTS OF REC < LOW_CUTOFF
SURR3	ASSO. DETECTS OF REC > UCL
SURR4	ASSO. NDS OF LCL > REC > LOW_CUTOFF
SURR5	ASSO. NDS OF REC < LOW_CUTOFF
SURR6	ASSO. NDS OF REC > UCL
SURR7	LCL > REC > LOW_CUTOFF
SURR8	REC < LOW_CUTOFF
SURR9	REC > UCL
TBC1	BLANK CONTAMINATION
TBC2	RESULT < BLANK * MULTIPLIER
TBC3	RESULT > BLANK * MULTIPLIER
TR	Trace Detection
TR1	Trace detection
TRA1	Tracer is outside of UCL or LCL
TRA2	Associated result of a tracer less than the LCL
TRA3	Associated detect result of a tracer greater than the UCL
VC1	Canister vacuum
VC2	Canister contamination

DQM Reason Code	Description
VSU1	INVALID SAMPLE UNIT TYPE
VSU2	MISSING SAMPLE UNIT TYPE
VSU3	NON-DEFAULT RESULT UNIT

AD-Absolute Difference
CCV-Continuous Calibration Verification
CL-Control Limit
%D-Percent Difference
IC-Initial Calibration
ICV-Initial Calibration Verification
INORG-Inorganic
LCL-Lower Control Limit
LCS-Laboratory Control Spike
LCSD-Laboratory Control Spike Duplicate
LS-Laboratory Spike
MDL-Method Detection Limit
MS-Matrix Spike
MSD-Matrix Spike Duplicate
ND-Not Detected
ORG-Organic
QC-Quality Control
%R-Percent Recovery
REC-Recovery
RL-Reporting Limit
RPD-Relative Percent Difference
RRF-Relative Response Factor
RSD-Relative Standard Deviation
UCL-Upper Control Limit
UCO-Upper Cut Off

APPENDIX C

Statistical Analysis Reports

GROUNDWATER STATS CONSULTING

February 28, 2024

Southern Company Services
Attn: Mr. Joju Abraham
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308-3374

Re: Plant Branch Pond E – August/September 2023 Statistical Analysis

Dear Mr. Abraham,

Groundwater Stats Consulting (GSC), formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the August/September 2023 Semi-Annual Groundwater Detection and Assessment Monitoring Statistical Analysis of groundwater data for Georgia Power Company's Plant Branch Pond E. The analysis complies with the Georgia Environmental Protection Division (EPD) Rules for Solid Waste Management Chapter 391-3-4-.10 as well as with the United States Environmental Protection Agency (USEPA) Unified Guidance (2009).

Sampling for the Appendix III parameters began in 2016, and at least 8 background samples were collected at each of the groundwater monitoring wells. Semi-annual sampling of the majority of Appendix IV constituents has been performed for several years in accordance with the Georgia Department of Natural Resources, Environmental Protection Division groundwater monitoring regulations. A list of all parameters is provided below.

The monitoring well network, as provided by Southern Company Services, consists of the following:

- **Upgradient well:** BRGWA-2I, BRGWA-2S, BRGWA-5I, BRGWA-5S, and BRGWA-6S
- **Downgradient wells:** BRGWC-17S, BRGWC-33S, BRGWC-34S, BRGWC-35S, BRGWC-36S, BRGWC-37S, and BRGWC-38S
- **Assessment wells:** PZ-13S, PZ-52D, PZ-53D, and PZ-70I

Data from assessment wells are evaluated using confidence intervals when a minimum of 4 samples are available. Currently, only assessment well PZ-13S has the required minimum number of samples.

Data were sent electronically to GSC, and the statistical analysis was reviewed by Andrew Collins, Project Manager of GSC.

The Coal Combustion Residuals (CCR) monitoring program consists of the following constituents:

- **Appendix III** (Detection Monitoring) **-** boron, calcium, chloride, fluoride, pH, sulfate, and TDS
- **Appendix IV** (Assessment Monitoring) **–** antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, combined radium 226 + 228, fluoride, lead, lithium, mercury, molybdenum, selenium, and thallium

Note that when there are no detections present in downgradient wells for a given constituent, statistical analyses are not required. A summary of Appendix IV downgradient and assessment well/constituent pairs with 100% non-detects follows this letter.

Time series plots for Appendix III and IV parameters at all wells are provided for the purpose of screening data at these wells (Figure A). Additionally, a separate section of box plots is included for all constituents at upgradient and downgradient wells (Figure B). The time series plots are used to initially screen for suspected outliers and trends, while the box plots provide visual representation of variation within individual wells and between all wells. Values in background which have been flagged as outliers may be seen in a lighter font and as a disconnected symbol on the graphs. A summary of flagged outliers follows this report (Figure C).

In earlier analyses, data at all wells were evaluated for the following: 1) outliers; 2) trends; 3) most appropriate statistical method for Appendix III parameters based on site characteristics of groundwater data upgradient of the facility; and 4) eligibility of downgradient wells when intrawell statistical methods are recommended. Power curves were provided with the previous screening to demonstrate that the selected statistical methods for Appendix III parameters comply with the USEPA Unified Guidance. The EPA suggests the selected statistical method should provide at least 55% power at 3 standard deviations or at least 80% power at 4 standard deviations.

Summary of Statistical Methods – Appendix III Parameters:

Based on the earlier evaluation described above, the following methods were selected:

- Interwell prediction limits, combined with a 1-of-2 resample plan for boron, calcium, chloride, fluoride, pH, sulfate, and TDS

Parametric prediction limits are utilized when the screened historical data follow a normal or transformed-normal distribution. When data cannot be normalized or the majority of data are non-detects, a nonparametric test is utilized. While the false positive rate associated with the parametric limits is based on an annual 10% (5% per semi-annual event) as recommended by the EPA Unified Guidance (2009), the false positive rate associated with the nonparametric limits is dependent upon the available background sample size, number of future comparisons, and verification resample plan. The distribution of data is tested using the Shapiro-Wilk/Shapiro-Francia test for normality. After testing for normality and performing any adjustments as discussed below (US EPA, 2009), data are analyzed using either parametric or non-parametric prediction limits.

- No statistical analyses are required on wells and analytes containing 100% non-detects (USEPA Unified Guidance, 2009, Chapter 6).
- When data contain <15% non-detects, simple substitution of one-half the reporting limit is utilized in the statistical analysis. The reporting limit utilized for non-detects is the most recent practical quantification limit (PQL) as reported by the laboratory.
- When data contain between 15-50% non-detects, the Kaplan-Meier non-detect adjustment is applied to the background data for parametric limits. This technique adjusts the mean and standard deviation of the historical concentrations to account for concentrations below the reporting limit.
- Nonparametric prediction limits are used on data containing greater than 50% non-detects.

Natural systems continuously evolve due to physical changes made to the environment. Examples include capping a landfill, paving areas near a well, or lining a drainage channel to prevent erosion. Periodic updating of background statistical limits is necessary to accommodate these types of changes. In the interwell case, prediction limits are updated with upgradient well data during each event after careful screening for any new outliers. In some cases, the earlier portion of data are deselected prior to construction of limits to provide sensitive limits that will rapidly detect changes in groundwater quality. Even though the data are excluded from the calculation, the values will continue to be reported and shown in tables and graphs.

Summary of Background Screening – Conducted in March 2019

Outlier Analysis

Time series plots were used to identify suspected outliers, or extreme values that would result in limits that are not conservative from a regulatory perspective, in proposed background data. Suspected outliers at all wells for Appendix III and Appendix IV parameters were formally tested using Tukey's box plot method and, when identified either visually or by Tukey's test, flagged in the computer database with "o" and deselected prior to construction of statistical limits. A list of flagged values is provided in the outlier summary (Figure C). Although outliers were screened for all wells, only outliers in upgradient wells will affect the interwell prediction limits.

When suspected outliers were evaluated using the Tukey box plot method during the previous screening, a few outliers were identified. In cases where the most recent value was identified as an outlier, values were not flagged in the database as they may represent a future trend. If future values do not remain at similar concentrations, these values will be flagged as outliers and deselected. Several low values exist in the data sets and appear on the graphs as possible low outliers relative to the Practical Quantitation Limit. However, these values are observed trace values (i.e., measurements reported by the laboratory between the Method Detection Limit and the Practical Quantitation Limit) and, therefore, were not flagged as outliers.

When any values are flagged in the database as outliers, they are plotted in a disconnected and lighter symbol on the time series graph. A substitution of the most recent reporting limit was applied when varying detection limits existed in data.

Seasonality

No obvious seasonal patterns were observed on the time series plots for any of the detected data; therefore, no deseasonalizing adjustments were made to the data. When seasonal patterns are observed, data may be deseasonalized so that the resulting limits will correctly account for the seasonality as a predictable pattern rather than random variation or a release.

Trend Test Evaluation

While trends may be identified by visual inspection, a quantification of the trend and its significance is needed. The Sen's Slope/Mann Kendall trend test was used to evaluate all data at each well to identify statistically significant increasing or decreasing trends. In the

absence of suspected contamination, significant trending data in upgradient wells are typically not included as part of the background data used for construction of prediction limits. This step serves to eliminate the trend and, thus, reduce variation in background. When statistically significant decreasing trends are present, earlier data are evaluated to determine whether earlier concentration levels are significantly different than current reported concentrations and will be deselected as necessary. When the historical records of data are truncated for the reasons above, a summary report will be provided to show the date ranges used in construction of the statistical limits.

The results of the trend analyses showed a number of statistically significant decreasing and increasing trends for the Appendix III parameters. All trends noted were relatively low in magnitude when compared to average concentrations and were in downgradient wells; therefore, they did not affect the interwell limits, and no adjustments were made to the data sets. Trend test results were included with the background screening report.

Appendix III – Determination of Spatial Variation

The Analysis of Variance (ANOVA) was used to statistically evaluate differences in average concentrations among upgradient wells, which assists in identifying the most appropriate statistical approach. Interwell tests, which compare downgradient well data to statistical limits constructed from pooled upgradient well data, are appropriate when average concentrations are similar across upgradient wells. Intrawell tests, which compare compliance data from a single well to screened historical data within the same well, are appropriate when upgradient wells exhibit spatial variation; when statistical limits constructed from upgradient wells would not be conservative from a regulatory perspective; and when downgradient water quality is unimpacted compared to upgradient water quality for the same parameter.

The ANOVA identified no variation among upgradient well data for fluoride, making this constituent eligible for interwell analyses. Variation was noted for boron, calcium, chloride, pH, sulfate and TDS. While data were further tested for intrawell eligibility during the screening, interwell methods will be used for all Appendix III constituents in accordance with Georgia EPD requirements.

Evaluation of Appendix III Parameters – August/September 2023

Interwell Prediction Limits

Interwell prediction limits, combined with a 1-of-2 resample plan, were constructed using all historical upgradient well data through August 2023 (Figure D). Background

(upgradient) well data were re-assessed for potential outliers during this analysis and the highest value for TDS at well BRGWA-6S was flagged in order to construct a statistical limit that is conservative (i.e., lower) from a regulatory perspective and representative of present-day groundwater quality conditions. Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent. The August 2023 sample from each downgradient well is compared to the background limit to determine whether initial exceedances are present.

In the event of an initial exceedance of compliance well data, the 1-of-2 resample plan allows for collection of one additional sample to determine whether the initial exceedance is confirmed. When resamples confirm the initial exceedance, a statistically significant increase is identified and further research would be required to identify the cause of the exceedance (i.e., impact from the site, natural variation, or an off-site source). If the resample falls within the statistical limit, the initial exceedance is considered to be a false positive result and, therefore, no exceedance is noted and no further action is necessary. If no resample is collected, the original result is considered a confirmed exceedance. A summary table of the background prediction limits follows this letter. Exceedances were identified for the following well/constituent pairs:

- Boron: BRGWC-17S, BRGWC-33S, BRGWC-34S, BRGWC-35S, BRGWC-36S, and BRGWC-38S
- Calcium: BRGWC-17S, BRGWC-33S, BRGWC-34S, BRGWC-35S, BRGWC-36S, and BRGWC-38S
- Chloride: BRGWC-17S, BRGWC-33S, BRGWC-34S, BRGWC-35S, BRGWC-36S, and BRGWC-38S
- Fluoride: BRGWC-17S, BRGWC-35S, BRGWC-36S, and BRGWC-38S
- pH (lower limit): BRGWC-33S and BRGWC-38S
- Sulfate: BRGWC-17S, BRGWC-33S, BRGWC-34S, BRGWC-35S, BRGWC-36S, and BRGWC-38S
- TDS: BRGWC-17S, BRGWC-33S, BRGWC-34S, BRGWC-35S, BRGWC-36S, and BRGWC-38S

Trend Test Evaluation – Appendix III

When prediction limit exceedances are identified in downgradient wells, data are further evaluated using the Sen's Slope/Mann Kendall trend test at the 99% confidence level to determine whether concentrations are statistically increasing, decreasing, or stable (Figure E). Upgradient wells are included in the trend analyses to identify whether similar patterns exist upgradient of the site which is an indication of variability in groundwater

unrelated to practices at the site. Statistically significant trends were identified for the following well/constituent pairs:

Increasing:

- Boron: BRGWC-35S and BRGWC-36S
- Calcium: BRGWA-6S (upgradient), BRGWC-17S, and BRGWC-35S
- Chloride: BRGWC-17S and BRGWC-36S
- Fluoride: BRGWC-5I (upgradient)
- Sulfate: BRGWC-17S

Decreasing:

- Calcium: BRGWC-34S and BRGWC-38S
- Chloride: BRGWA-5I (upgradient) and BRGWC-5S (upgradient)
- pH: BRGWA-2I (upgradient), BRGWA-2S (upgradient), BRGWA-5S (upgradient), and BRGWC-38S
- Sulfate: BRGWC-34S, BRGWC-36S, and BRGWC-38S
- TDS: BRGWA-5S (upgradient), BRGWC-34S, BRGWC-36S, and BRGWC-38S

A summary of the trend test results follows this letter.

Evaluation of Appendix IV Parameters – August/September 2023

For Appendix IV parameters, confidence intervals for each downgradient well/constituent were compared against corresponding Groundwater Protection Standards (GWPS). GWPS were developed as described below. Well/constituent pairs containing 100% non-detects do not require analysis, which includes all downgradient wells for molybdenum. Data from upgradient wells for Appendix IV parameters are reassessed for outliers during each analysis. No additional values were flagged and no changes to previously flagged values were made. A summary of previously flagged outliers follows this report (Figure C).

Interwell Upper Tolerance Limits

Interwell tolerance limits were used to calculate site-specific background limits from all available pooled upgradient well data through August 2023 for Appendix IV constituents (Figure F). Parametric tolerance limits are used when data follow a normal or transformed-normal distribution. When data contained greater than 50% non-detects or did not follow a normal or transformed-normal distribution, non-parametric tolerance limits were used.

Groundwater Protection Standards

The background limits were then used when determining the groundwater protection standard (GWPS) under 40 CFR §257.95(h) and Georgia EPD Rule 391-3-4-.10(6)(a). On July 30, 2018, US EPA revised the Federal CCR rule updating GWPS for cobalt, lead, lithium, and molybdenum as described above in 40 CFR §257.95(h)(2). Effective on February 22, 2022, Georgia EPD incorporated the updated GWPS into the current Georgia EPD Rules for Solid Waste Management 391-3-4-.10(6)(a). In accordance with the updated Rules, the GWPS is:

- The maximum contaminant level (MCL) established under §141.62 and §141.66 of this title
- Where an MCL has not been established for a constituent, Federal and State CCR Rules specify levels for cobalt (0.006 mg/L), lead (0.015 mg/L), lithium (0.040 mg/L), and molybdenum (0.100 mg/L)
- The respective background level for a constituent when the background level is higher than the MCL or Federal CCR Rule identified GWPS

Following Georgia EPD Rule requirements and the Federal CCR requirements, GWPS were established for statistical comparison of Appendix IV constituents for this sample event (Figure G).

Confidence Intervals

To complete the statistical comparison to GWPS, confidence intervals were constructed for each of the Appendix IV constituents in each downgradient well with detections (Figure H). As mentioned above, well/constituent pairs containing 100% non-detects do not require analysis, which includes all downgradient wells for molybdenum.

The Sanitas software was used to calculate the tolerance limits and the confidence intervals. These intervals were constructed as either parametric or nonparametric confidence intervals depending on the data distribution and percentage of non-detects. When data followed a normal or transformed-normal distribution, parametric confidence intervals were used for Appendix IV parameters. Nonparametric confidence intervals, which use the appropriate order statistics, depending on the sample size, as interval limits, were constructed when data did not follow a normal or transformed-normal distribution or when there were greater than 50% non-detects. The lower confidence limit, which is constructed with 99% confidence for parametric confidence intervals, is compared to the GWPS prepared as described above. The achievable confidence level associated with nonparametric confidence intervals is dependent upon the number samples available.

Only when the entire confidence interval is above a GWPS is the downgradient well/constituent pair considered to exceed its respective standard. If there is an exceedance of the GWPS, a statistically significant level (SSL) exceedance is identified. Statistical exceedances were identified for the following well/constituent pairs:

- Beryllium: BRGWC-38S
- Cobalt: BRGWC-33S and BRGWC-38S

Trend Test Evaluation – Appendix IV

Data at wells with confidence interval exceedances are further evaluated using the Sen's Slope/Mann Kendall trend test at the 95% confidence level to determine whether concentrations are statistically increasing, decreasing, or stable (Figure I). Although the trend tests for Assessment monitoring pairs were previously evaluated using 99% confidence, the 95% confidence level more rapidly identifies statistically significant trends. Additionally, the 95% confidence is recommended in cases with limited sample sizes and, particularly, for new assessment wells. Upgradient wells are included in the trend analyses to identify whether similar patterns exist upgradient of the site for the same constituents. When trends are present in upgradient wells, it is an indication of variability in groundwater quality unrelated to practices at the site. Statistically significant trends were noted for the following well/constituent pairs:

Increasing:

- None

Decreasing:

- Beryllium: BRGWC-38S
- Cobalt: BRGWA-2S (upgradient), BRGWC-5I (upgradient), BRGWC-33S, and BRGWC-38S

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for Plant Branch Pond E. If you have any questions or comments, please feel free to contact us.

For Groundwater Stats Consulting,

Abdul Diane
Groundwater Analyst

Andrew T. Collins
Project Manager

100% Non-Detects: Appendix IV Downgradient & Assessment

Analysis Run 10/16/2023 6:06 PM View: Appendix IV - Confidence Intervals - E
Plant Branch Client: Southern Company Data: Plant Branch AP

Antimony (mg/L)
BRGWC-33S, BRGWC-34S, BRGWC-35S, PZ-13S

Arsenic (mg/L)
BRGWC-34S

Beryllium (mg/L)
BRGWC-17S, BRGWC-37S

Cadmium (mg/L)
BRGWC-17S, BRGWC-35S, BRGWC-37S

Chromium (mg/L)
BRGWC-34S

Cobalt (mg/L)
BRGWC-17S, BRGWC-36S, BRGWC-37S

Lithium (mg/L)
BRGWC-37S

Mercury (mg/L)
PZ-13S

Molybdenum (mg/L)
BRGWC-17S, BRGWC-33S, BRGWC-34S, BRGWC-35S, BRGWC-36S, BRGWC-37S, BRGWC-38S, PZ-13S

Selenium (mg/L)
BRGWC-34S, BRGWC-35S, BRGWC-37S

Thallium (mg/L)
BRGWC-34S, BRGWC-35S, BRGWC-36S, BRGWC-37S, PZ-13S

Interwell Prediction Limits - Significant Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 10/23/2023, 11:11 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	BRGWC-17S	0.0187	n/a	9/6/2023	0.0601	Yes	90	n/a	n/a	62.22	n/a	n/a	0.0002371	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-33S	0.0187	n/a	9/1/2023	0.946	Yes	90	n/a	n/a	62.22	n/a	n/a	0.0002371	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-34S	0.0187	n/a	9/1/2023	1.9	Yes	90	n/a	n/a	62.22	n/a	n/a	0.0002371	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-35S	0.0187	n/a	9/7/2023	2.36	Yes	90	n/a	n/a	62.22	n/a	n/a	0.0002371	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-36S	0.0187	n/a	9/7/2023	1.04	Yes	90	n/a	n/a	62.22	n/a	n/a	0.0002371	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-38S	0.0187	n/a	9/7/2023	1.37	Yes	90	n/a	n/a	62.22	n/a	n/a	0.0002371	NP Inter (NDs) 1 of 2
Calcium (mg/L)	BRGWC-17S	24	n/a	9/7/2023	47.9	Yes	90	n/a	n/a	3.333	n/a	n/a	0.0002371	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-33S	24	n/a	9/1/2023	135	Yes	90	n/a	n/a	3.333	n/a	n/a	0.0002371	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-34S	24	n/a	9/1/2023	83.4	Yes	90	n/a	n/a	3.333	n/a	n/a	0.0002371	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-35S	24	n/a	9/7/2023	71.4	Yes	90	n/a	n/a	3.333	n/a	n/a	0.0002371	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-36S	24	n/a	9/6/2023	43.4	Yes	90	n/a	n/a	3.333	n/a	n/a	0.0002371	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-38S	24	n/a	9/7/2023	28.7	Yes	90	n/a	n/a	3.333	n/a	n/a	0.0002371	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-17S	4.8	n/a	8/24/2023	5.18	Yes	90	n/a	n/a	0	n/a	n/a	0.0002371	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-33S	4.8	n/a	8/24/2023	32.7	Yes	90	n/a	n/a	0	n/a	n/a	0.0002371	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-34S	4.8	n/a	8/24/2023	13.2	Yes	90	n/a	n/a	0	n/a	n/a	0.0002371	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-35S	4.8	n/a	8/24/2023	6.21	Yes	90	n/a	n/a	0	n/a	n/a	0.0002371	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-36S	4.8	n/a	8/24/2023	8.26	Yes	90	n/a	n/a	0	n/a	n/a	0.0002371	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-38S	4.8	n/a	8/24/2023	6.44	Yes	90	n/a	n/a	0	n/a	n/a	0.0002371	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-17S	0.289	n/a	8/24/2023	0.484	Yes	100	n/a	n/a	53	n/a	n/a	0.0001929	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	BRGWC-35S	0.289	n/a	8/24/2023	0.347	Yes	100	n/a	n/a	53	n/a	n/a	0.0001929	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	BRGWC-36S	0.289	n/a	8/25/2023	0.301	Yes	100	n/a	n/a	53	n/a	n/a	0.0001929	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	BRGWC-38S	0.289	n/a	8/24/2023	0.748	Yes	100	n/a	n/a	53	n/a	n/a	0.0001929	NP Inter (NDs) 1 of 2
pH, Field (S.U.)	BRGWC-33S	7.44	5.26	8/22/2023	4.58	Yes	99	n/a	n/a	0	n/a	n/a	0.0003947	NP Inter (normality) 1 of 2
pH, Field (S.U.)	BRGWC-38S	7.44	5.26	8/23/2023	3.91	Yes	99	n/a	n/a	0	n/a	n/a	0.0003947	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-17S	7.5	n/a	8/25/2023	180	Yes	90	n/a	n/a	17.78	n/a	n/a	0.0002371	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-33S	7.5	n/a	8/24/2023	466	Yes	90	n/a	n/a	17.78	n/a	n/a	0.0002371	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-34S	7.5	n/a	8/24/2023	299	Yes	90	n/a	n/a	17.78	n/a	n/a	0.0002371	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-35S	7.5	n/a	8/25/2023	269	Yes	90	n/a	n/a	17.78	n/a	n/a	0.0002371	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-36S	7.5	n/a	8/25/2023	223	Yes	90	n/a	n/a	17.78	n/a	n/a	0.0002371	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-38S	7.5	n/a	8/25/2023	274	Yes	90	n/a	n/a	17.78	n/a	n/a	0.0002371	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-17S	180	n/a	8/28/2023	391	Yes	89	98.31	43.33	2.247	None	No	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-33S	180	n/a	8/25/2023	778	Yes	89	98.31	43.33	2.247	None	No	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-34S	180	n/a	8/25/2023	495	Yes	89	98.31	43.33	2.247	None	No	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-35S	180	n/a	8/29/2023	485	Yes	89	98.31	43.33	2.247	None	No	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-36S	180	n/a	8/29/2023	398	Yes	89	98.31	43.33	2.247	None	No	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-38S	180	n/a	8/29/2023	459	Yes	89	98.31	43.33	2.247	None	No	0.001075	Param Inter 1 of 2

Interwell Prediction Limits - All Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 10/23/2023, 11:11 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	**BRGWC-17S**	**0.0187**	**n/a**	**9/6/2023**	**0.0601**	**Yes**	**90**	**n/a**	**n/a**	**62.22**	**n/a**	**n/a**	**0.0002371**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**BRGWC-33S**	**0.0187**	**n/a**	**9/1/2023**	**0.946**	**Yes**	**90**	**n/a**	**n/a**	**62.22**	**n/a**	**n/a**	**0.0002371**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**BRGWC-34S**	**0.0187**	**n/a**	**9/1/2023**	**1.9**	**Yes**	**90**	**n/a**	**n/a**	**62.22**	**n/a**	**n/a**	**0.0002371**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**BRGWC-35S**	**0.0187**	**n/a**	**9/7/2023**	**2.36**	**Yes**	**90**	**n/a**	**n/a**	**62.22**	**n/a**	**n/a**	**0.0002371**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**BRGWC-36S**	**0.0187**	**n/a**	**9/7/2023**	**1.04**	**Yes**	**90**	**n/a**	**n/a**	**62.22**	**n/a**	**n/a**	**0.0002371**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	BRGWC-37S	0.0187	n/a	8/31/2023	0.00802J	No	90	n/a	n/a	62.22	n/a	n/a	0.0002371	NP Inter (NDs) 1 of 2
Boron (mg/L)	**BRGWC-38S**	**0.0187**	**n/a**	**9/7/2023**	**1.37**	**Yes**	**90**	**n/a**	**n/a**	**62.22**	**n/a**	**n/a**	**0.0002371**	**NP Inter (NDs) 1 of 2**
Calcium (mg/L)	**BRGWC-17S**	**24**	**n/a**	**9/7/2023**	**47.9**	**Yes**	**90**	**n/a**	**n/a**	**3.333**	**n/a**	**n/a**	**0.0002371**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**BRGWC-33S**	**24**	**n/a**	**9/1/2023**	**135**	**Yes**	**90**	**n/a**	**n/a**	**3.333**	**n/a**	**n/a**	**0.0002371**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**BRGWC-34S**	**24**	**n/a**	**9/1/2023**	**83.4**	**Yes**	**90**	**n/a**	**n/a**	**3.333**	**n/a**	**n/a**	**0.0002371**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**BRGWC-35S**	**24**	**n/a**	**9/7/2023**	**71.4**	**Yes**	**90**	**n/a**	**n/a**	**3.333**	**n/a**	**n/a**	**0.0002371**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**BRGWC-36S**	**24**	**n/a**	**9/6/2023**	**43.4**	**Yes**	**90**	**n/a**	**n/a**	**3.333**	**n/a**	**n/a**	**0.0002371**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	BRGWC-37S	24	n/a	8/31/2023	3.47	No	90	n/a	n/a	3.333	n/a	n/a	0.0002371	NP Inter (normality) 1 of 2
Calcium (mg/L)	**BRGWC-38S**	**24**	**n/a**	**9/7/2023**	**28.7**	**Yes**	**90**	**n/a**	**n/a**	**3.333**	**n/a**	**n/a**	**0.0002371**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**BRGWC-17S**	**4.8**	**n/a**	**8/24/2023**	**5.18**	**Yes**	**90**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0002371**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**BRGWC-33S**	**4.8**	**n/a**	**8/24/2023**	**32.7**	**Yes**	**90**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0002371**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**BRGWC-34S**	**4.8**	**n/a**	**8/24/2023**	**13.2**	**Yes**	**90**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0002371**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**BRGWC-35S**	**4.8**	**n/a**	**8/24/2023**	**6.21**	**Yes**	**90**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0002371**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**BRGWC-36S**	**4.8**	**n/a**	**8/24/2023**	**8.26**	**Yes**	**90**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0002371**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	BRGWC-37S	4.8	n/a	8/23/2023	1.89	No	90	n/a	n/a	0	n/a	n/a	0.0002371	NP Inter (normality) 1 of 2
Chloride (mg/L)	**BRGWC-38S**	**4.8**	**n/a**	**8/24/2023**	**6.44**	**Yes**	**90**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0002371**	**NP Inter (normality) 1 of 2**
Fluoride (mg/L)	**BRGWC-17S**	**0.289**	**n/a**	**8/24/2023**	**0.484**	**Yes**	**100**	**n/a**	**n/a**	**53**	**n/a**	**n/a**	**0.0001929**	**NP Inter (NDs) 1 of 2**
Fluoride (mg/L)	BRGWC-33S	0.289	n/a	8/23/2023	0.123	No	100	n/a	n/a	53	n/a	n/a	0.0001929	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	BRGWC-34S	0.289	n/a	8/24/2023	0.0816J	No	100	n/a	n/a	53	n/a	n/a	0.0001929	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	**BRGWC-35S**	**0.289**	**n/a**	**8/24/2023**	**0.347**	**Yes**	**100**	**n/a**	**n/a**	**53**	**n/a**	**n/a**	**0.0001929**	**NP Inter (NDs) 1 of 2**
Fluoride (mg/L)	**BRGWC-36S**	**0.289**	**n/a**	**8/25/2023**	**0.301**	**Yes**	**100**	**n/a**	**n/a**	**53**	**n/a**	**n/a**	**0.0001929**	**NP Inter (NDs) 1 of 2**
Fluoride (mg/L)	BRGWC-37S	0.289	n/a	8/23/2023	0.0445J	No	100	n/a	n/a	53	n/a	n/a	0.0001929	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	**BRGWC-38S**	**0.289**	**n/a**	**8/24/2023**	**0.748**	**Yes**	**100**	**n/a**	**n/a**	**53**	**n/a**	**n/a**	**0.0001929**	**NP Inter (NDs) 1 of 2**
pH, Field (S.U.)	BRGWC-17S	7.44	5.26	8/23/2023	6.16	No	99	n/a	n/a	0	n/a	n/a	0.0003947	NP Inter (normality) 1 of 2
pH, Field (S.U.)	**BRGWC-33S**	**7.44**	**5.26**	**8/22/2023**	**4.58**	**Yes**	**99**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0003947**	**NP Inter (normality) 1 of 2**
pH, Field (S.U.)	BRGWC-34S	7.44	5.26	8/22/2023	5.72	No	99	n/a	n/a	0	n/a	n/a	0.0003947	NP Inter (normality) 1 of 2
pH, Field (S.U.)	BRGWC-35S	7.44	5.26	8/23/2023	5.9	No	99	n/a	n/a	0	n/a	n/a	0.0003947	NP Inter (normality) 1 of 2
pH, Field (S.U.)	BRGWC-36S	7.44	5.26	8/23/2023	5.26	No	99	n/a	n/a	0	n/a	n/a	0.0003947	NP Inter (normality) 1 of 2
pH, Field (S.U.)	BRGWC-37S	7.44	5.26	8/22/2023	5.42	No	99	n/a	n/a	0	n/a	n/a	0.0003947	NP Inter (normality) 1 of 2
pH, Field (S.U.)	**BRGWC-38S**	**7.44**	**5.26**	**8/23/2023**	**3.91**	**Yes**	**99**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0003947**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**BRGWC-17S**	**7.5**	**n/a**	**8/25/2023**	**180**	**Yes**	**90**	**n/a**	**n/a**	**17.78**	**n/a**	**n/a**	**0.0002371**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**BRGWC-33S**	**7.5**	**n/a**	**8/24/2023**	**466**	**Yes**	**90**	**n/a**	**n/a**	**17.78**	**n/a**	**n/a**	**0.0002371**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**BRGWC-34S**	**7.5**	**n/a**	**8/24/2023**	**299**	**Yes**	**90**	**n/a**	**n/a**	**17.78**	**n/a**	**n/a**	**0.0002371**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**BRGWC-35S**	**7.5**	**n/a**	**8/25/2023**	**269**	**Yes**	**90**	**n/a**	**n/a**	**17.78**	**n/a**	**n/a**	**0.0002371**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**BRGWC-36S**	**7.5**	**n/a**	**8/25/2023**	**223**	**Yes**	**90**	**n/a**	**n/a**	**17.78**	**n/a**	**n/a**	**0.0002371**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	BRGWC-37S	7.5	n/a	8/23/2023	0.355J	No	90	n/a	n/a	17.78	n/a	n/a	0.0002371	NP Inter (normality) 1 of 2
Sulfate (mg/L)	**BRGWC-38S**	**7.5**	**n/a**	**8/25/2023**	**274**	**Yes**	**90**	**n/a**	**n/a**	**17.78**	**n/a**	**n/a**	**0.0002371**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids (mg/L)	**BRGWC-17S**	**180**	**n/a**	**8/28/2023**	**391**	**Yes**	**89**	**98.31**	**43.33**	**2.247**	**None**	**No**	**0.001075**	**Param Inter 1 of 2**
Total Dissolved Solids (mg/L)	**BRGWC-33S**	**180**	**n/a**	**8/25/2023**	**778**	**Yes**	**89**	**98.31**	**43.33**	**2.247**	**None**	**No**	**0.001075**	**Param Inter 1 of 2**
Total Dissolved Solids (mg/L)	**BRGWC-34S**	**180**	**n/a**	**8/25/2023**	**495**	**Yes**	**89**	**98.31**	**43.33**	**2.247**	**None**	**No**	**0.001075**	**Param Inter 1 of 2**
Total Dissolved Solids (mg/L)	**BRGWC-35S**	**180**	**n/a**	**8/29/2023**	**485**	**Yes**	**89**	**98.31**	**43.33**	**2.247**	**None**	**No**	**0.001075**	**Param Inter 1 of 2**
Total Dissolved Solids (mg/L)	**BRGWC-36S**	**180**	**n/a**	**8/29/2023**	**398**	**Yes**	**89**	**98.31**	**43.33**	**2.247**	**None**	**No**	**0.001075**	**Param Inter 1 of 2**
Total Dissolved Solids (mg/L)	BRGWC-37S	180	n/a	8/25/2023	42	No	89	98.31	43.33	2.247	None	No	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	**BRGWC-38S**	**180**	**n/a**	**8/29/2023**	**459**	**Yes**	**89**	**98.31**	**43.33**	**2.247**	**None**	**No**	**0.001075**	**Param Inter 1 of 2**

Appendix III Trend Tests - Significant Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 10/23/2023, 11:19 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Boron (mg/L)	**BRGWC-35S**	**0.1599**	**130**	**68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**BRGWC-36S**	**0.02911**	**79**	**74**	**Yes**	**19**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**BRGWA-6S (bg)**	**0.1264**	**80**	**68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**BRGWC-17S**	**2.068**	**100**	**68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**BRGWC-34S**	**-3.241**	**-93**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**BRGWC-35S**	**1.905**	**76**	**68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**BRGWC-38S**	**-1.949**	**-109**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**BRGWA-5I (bg)**	**-0.1548**	**-84**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**BRGWA-5S (bg)**	**-0.07449**	**-75**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**BRGWC-17S**	**0.2106**	**82**	**68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**BRGWC-36S**	**0.6997**	**105**	**68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Fluoride (mg/L)	**BRGWA-5I (bg)**	**0.006424**	**91**	**81**	**Yes**	**20**	**65**	**n/a**	**0.01**	**NP**
pH, Field (S.U.)	**BRGWA-2I (bg)**	**-0.07157**	**-82**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
pH, Field (S.U.)	**BRGWA-2S (bg)**	**-0.03999**	**-100**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
pH, Field (S.U.)	**BRGWA-5S (bg)**	**-0.05423**	**-104**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
pH, Field (S.U.)	**BRGWC-38S**	**-0.105**	**-112**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**BRGWC-17S**	**6.447**	**75**	**68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**BRGWC-34S**	**-26.58**	**-116**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**BRGWC-36S**	**-13**	**-94**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**BRGWC-38S**	**-31.94**	**-116**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**BRGWA-5S (bg)**	**-8.69**	**-93**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**BRGWC-34S**	**-37.39**	**-83**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**BRGWC-36S**	**-18.58**	**-124**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**BRGWC-38S**	**-43.42**	**-129**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**

Appendix III Trend Tests - All Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 10/23/2023, 11:19 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Boron (mg/L)	BRGWA-2I (bg)	0.0001886	17	68	No	18	27.78	n/a	0.01	NP
Boron (mg/L)	BRGWA-2S (bg)	0	-16	-68	No	18	83.33	n/a	0.01	NP
Boron (mg/L)	BRGWA-5I (bg)	0	-15	-68	No	18	72.22	n/a	0.01	NP
Boron (mg/L)	BRGWA-5S (bg)	0	-8	-68	No	18	55.56	n/a	0.01	NP
Boron (mg/L)	BRGWA-6S (bg)	0	-11	-68	No	18	72.22	n/a	0.01	NP
Boron (mg/L)	BRGWC-17S	0	-10	-74	No	19	36.84	n/a	0.01	NP
Boron (mg/L)	BRGWC-33S	-0.01403	-29	-68	No	18	0	n/a	0.01	NP
Boron (mg/L)	BRGWC-34S	0	2	68	No	18	0	n/a	0.01	NP
Boron (mg/L)	**BRGWC-35S**	**0.1599**	**130**	**68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**BRGWC-36S**	**0.02911**	**79**	**74**	**Yes**	**19**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	BRGWC-38S	-0.03883	-55	-68	No	18	0	n/a	0.01	NP
Calcium (mg/L)	BRGWA-2I (bg)	0.3318	33	68	No	18	5.556	n/a	0.01	NP
Calcium (mg/L)	BRGWA-2S (bg)	0.149	63	68	No	18	0	n/a	0.01	NP
Calcium (mg/L)	BRGWA-5I (bg)	0.103	21	68	No	18	5.556	n/a	0.01	NP
Calcium (mg/L)	BRGWA-5S (bg)	-0.5359	-55	-68	No	18	5.556	n/a	0.01	NP
Calcium (mg/L)	**BRGWA-6S (bg)**	**0.1264**	**80**	**68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**BRGWC-17S**	**2.068**	**100**	**68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	BRGWC-33S	-0.5742	-7	-68	No	18	0	n/a	0.01	NP
Calcium (mg/L)	**BRGWC-34S**	**-3.241**	**-93**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**BRGWC-35S**	**1.905**	**76**	**68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	BRGWC-36S	-0.754	-56	-68	No	18	0	n/a	0.01	NP
Calcium (mg/L)	**BRGWC-38S**	**-1.949**	**-109**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	BRGWA-2I (bg)	-0.03364	-41	-68	No	18	0	n/a	0.01	NP
Chloride (mg/L)	BRGWA-2S (bg)	0	2	68	No	18	0	n/a	0.01	NP
Chloride (mg/L)	**BRGWA-5I (bg)**	**-0.1548**	**-84**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**BRGWA-5S (bg)**	**-0.07449**	**-75**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	BRGWA-6S (bg)	-0.001816	-21	-68	No	18	0	n/a	0.01	NP
Chloride (mg/L)	**BRGWC-17S**	**0.2106**	**82**	**68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	BRGWC-33S	0.9635	39	68	No	18	0	n/a	0.01	NP
Chloride (mg/L)	BRGWC-34S	-0.2147	-51	-68	No	18	0	n/a	0.01	NP
Chloride (mg/L)	BRGWC-35S	0.05887	45	68	No	18	0	n/a	0.01	NP
Chloride (mg/L)	**BRGWC-36S**	**0.6997**	**105**	**68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	BRGWC-38S	0.1287	31	68	No	18	0	n/a	0.01	NP
Fluoride (mg/L)	BRGWA-2I (bg)	0	3	81	No	20	50	n/a	0.01	NP
Fluoride (mg/L)	BRGWA-2S (bg)	0.005022	75	81	No	20	60	n/a	0.01	NP
Fluoride (mg/L)	**BRGWA-5I (bg)**	**0.006424**	**91**	**81**	**Yes**	**20**	**65**	**n/a**	**0.01**	**NP**
Fluoride (mg/L)	BRGWA-5S (bg)	0	15	81	No	20	35	n/a	0.01	NP
Fluoride (mg/L)	BRGWA-6S (bg)	0.003384	66	81	No	20	55	n/a	0.01	NP
Fluoride (mg/L)	BRGWC-17S	0.006949	26	81	No	20	5	n/a	0.01	NP
Fluoride (mg/L)	BRGWC-35S	-0.005237	-23	-81	No	20	15	n/a	0.01	NP
Fluoride (mg/L)	BRGWC-36S	0.006762	48	81	No	20	45	n/a	0.01	NP
Fluoride (mg/L)	BRGWC-38S	0	1	81	No	20	0	n/a	0.01	NP
pH, Field (S.U.)	**BRGWA-2I (bg)**	**-0.07157**	**-82**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
pH, Field (S.U.)	**BRGWA-2S (bg)**	**-0.03999**	**-100**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
pH, Field (S.U.)	BRGWA-5I (bg)	-0.01794	-48	-81	No	20	0	n/a	0.01	NP
pH, Field (S.U.)	**BRGWA-5S (bg)**	**-0.05423**	**-104**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
pH, Field (S.U.)	BRGWA-6S (bg)	-0.006594	-9	-74	No	19	0	n/a	0.01	NP
pH, Field (S.U.)	BRGWC-33S	-0.01321	-69	-87	No	21	0	n/a	0.01	NP
pH, Field (S.U.)	**BRGWC-38S**	**-0.105**	**-112**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	BRGWA-2I (bg)	-0.1349	-35	-68	No	18	0	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-2S (bg)	0	-4	-68	No	18	33.33	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-5I (bg)	-0.2786	-63	-68	No	18	0	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-5S (bg)	-0.0299	-41	-68	No	18	33.33	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-6S (bg)	-0.00337	-11	-68	No	18	22.22	n/a	0.01	NP
Sulfate (mg/L)	**BRGWC-17S**	**6.447**	**75**	**68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**

Appendix III Trend Tests - All Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 10/23/2023, 11:19 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Sulfate (mg/L)	BRGWC-33S	-11.07	-20	-68	No	18	0	n/a	0.01	NP
Sulfate (mg/L)	**BRGWC-34S**	**-26.58**	**-116**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	BRGWC-35S	-0.1537	-3	-68	No	18	0	n/a	0.01	NP
Sulfate (mg/L)	**BRGWC-36S**	**-13**	**-94**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**BRGWC-38S**	**-31.94**	**-116**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	BRGWA-2I (bg)	-8.462	-53	-68	No	18	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWA-2S (bg)	-0.5826	-5	-68	No	18	5.556	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWA-5I (bg)	-4.727	-44	-68	No	18	5.556	n/a	0.01	NP
Total Dissolved Solids (mg/L)	**BRGWA-5S (bg)**	**-8.69**	**-93**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	BRGWA-6S (bg)	-1.676	-17	-63	No	17	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-17S	5.817	44	68	No	18	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-33S	-14.96	-14	-68	No	18	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	**BRGWC-34S**	**-37.39**	**-83**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	BRGWC-35S	1.416	10	68	No	18	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	**BRGWC-36S**	**-18.58**	**-124**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**BRGWC-38S**	**-43.42**	**-129**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**

Upper Tolerance Limits Summary Table

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 10/16/2023, 6:01 PM

Constituent	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Antimony (mg/L)	0.003	n/a	n/a	n/a	n/a	95	92.63	n/a	0.007651	NP Inter(NDs)
Arsenic (mg/L)	0.005	n/a	n/a	n/a	n/a	95	77.89	n/a	0.007651	NP Inter(NDs)
Barium (mg/L)	0.063	n/a	n/a	n/a	n/a	95	0	n/a	0.007651	NP Inter(normality)
Beryllium (mg/L)	0.0005	n/a	n/a	n/a	n/a	95	100	n/a	0.007651	NP Inter(NDs)
Cadmium (mg/L)	0.001	n/a	n/a	n/a	n/a	95	100	n/a	0.007651	NP Inter(NDs)
Chromium (mg/L)	0.016	n/a	n/a	n/a	n/a	95	15.79	n/a	0.007651	NP Inter(normality)
Cobalt (mg/L)	0.0034	n/a	n/a	n/a	n/a	93	44.09	n/a	0.008478	NP Inter(normality)
Combined Radium 226 + 228 (pCi/L)	1.792	n/a	n/a	n/a	n/a	95	0	sqrt(x)	0.05	Inter
Fluoride (mg/L)	0.289	n/a	n/a	n/a	n/a	100	53	n/a	0.005921	NP Inter(NDs)
Lead (mg/L)	0.002	n/a	n/a	n/a	n/a	95	82.11	n/a	0.007651	NP Inter(NDs)
Lithium (mg/L)	0.089	n/a	n/a	n/a	n/a	95	46.32	n/a	0.007651	NP Inter(normality)
Mercury (mg/L)	0.00021	n/a	n/a	n/a	n/a	85	88.24	n/a	0.01278	NP Inter(NDs)
Molybdenum (mg/L)	0.008	n/a	n/a	n/a	n/a	95	67.37	n/a	0.007651	NP Inter(NDs)
Selenium (mg/L)	0.005	n/a	n/a	n/a	n/a	95	100	n/a	0.007651	NP Inter(NDs)
Thallium (mg/L)	0.002	n/a	n/a	n/a	n/a	95	100	n/a	0.007651	NP Inter(NDs)

PLANT BRANCH POND E GWPS				
Constituent Name	**MCL**	**CCR-Rule Specified**	**Background Limit**	**GWPS**
Antimony, Total (mg/L)	0.006		0.003	0.006
Arsenic, Total (mg/L)	0.01		0.005	0.01
Barium, Total (mg/L)	2		0.063	2
Beryllium, Total (mg/L)	0.004		0.0005	0.004
Cadmium, Total (mg/L)	0.005		0.001	0.005
Chromium, Total (mg/L)	0.1		0.016	0.1
Cobalt, Total (mg/L)	n/a	0.006	0.0034	0.006
Combined Radium, Total (pCi/L)	5		1.79	5
Fluoride, Total (mg/L)	4		0.29	4
Lead, Total (mg/L)	n/a	0.015	0.002	0.015
Lithium, Total (mg/L)	n/a	0.04	0.089	0.089
Mercury, Total (mg/L)	0.002		0.00021	0.002
Molybdenum, Total (mg/L)	n/a	0.1	0.008	0.1
Selenium, Total (mg/L)	0.05		0.005	0.05
Thallium, Total (mg/L)	0.002		0.002	0.002

**Highlighted cells indicate Background is higher than MCLs*

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residuals*

**GWPS = Groundwater Protection Standard*

Confidence Intervals Summary Table - Significant Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 10/17/2023, 3:31 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Beryllium (mg/L)	**BRGWC-38S**	**0.00921**	**0.007874**	**0.004**	**Yes**	**20**	**0.001177**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	**BRGWC-33S**	**0.05417**	**0.03986**	**0.006**	**Yes**	**20**	**0.01261**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	**BRGWC-38S**	**0.2471**	**0.194**	**0.006**	**Yes**	**19**	**0.04535**	**0**	**None**	**No**	**0.01**	**Param.**

Confidence Intervals Summary Table - All Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 10/17/2023, 3:31 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	BRGWC-17S	0.003	0.0009	0.006	No	19	0.0004818	94.74	None	No	0.01	NP (NDs)
Antimony (mg/L)	BRGWC-36S	0.003	0.0016	0.006	No	19	0.0009666	78.95	None	No	0.01	NP (NDs)
Antimony (mg/L)	BRGWC-37S	0.003	0.0006	0.006	No	19	0.000789	89.47	None	No	0.01	NP (NDs)
Antimony (mg/L)	BRGWC-38S	0.003	0.0009	0.006	No	19	0.0006945	89.47	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-17S	0.005	0.0033	0.01	No	19	0.001642	78.95	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-33S	0.005	0.00262	0.01	No	20	0.001515	80	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-35S	0.005	0.0006	0.01	No	19	0.001694	84.21	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-36S	0.005	0.001	0.01	No	19	0.001607	84.21	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-37S	0.005	0.003	0.01	No	19	0.001691	78.95	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-38S	0.003082	0.001775	0.01	No	19	0.00148	15.79	Kaplan-Meier	sqrt(x)	0.01	Param.
Arsenic (mg/L)	PZ-13S	0.005	0.00388	0.01	No	5	0.0005009	80	Kaplan-Meier	No	0.031	NP (NDs)
Barium (mg/L)	BRGWC-17S	0.04392	0.03945	2	No	19	0.003817	0	None	No	0.01	Param.
Barium (mg/L)	BRGWC-33S	0.0243	0.02	2	No	20	0.006312	0	None	No	0.01	NP (normality)
Barium (mg/L)	BRGWC-34S	0.0347	0.0232	2	No	19	0.006782	0	None	No	0.01	NP (normality)
Barium (mg/L)	BRGWC-35S	0.0518	0.0339	2	No	19	0.01889	0	None	No	0.01	NP (normality)
Barium (mg/L)	BRGWC-36S	0.04103	0.03052	2	No	19	0.01054	0	None	ln(x)	0.01	Param.
Barium (mg/L)	BRGWC-37S	0.0253	0.02342	2	No	19	0.001607	0	None	No	0.01	Param.
Barium (mg/L)	BRGWC-38S	0.0247	0.0141	2	No	19	0.009453	0	None	No	0.01	NP (normality)
Barium (mg/L)	PZ-13S	0.1394	0.03177	2	No	5	0.03557	0	None	sqrt(x)	0.01	Param.
Beryllium (mg/L)	BRGWC-33S	0.001999	0.001607	0.004	No	20	0.0003452	5	None	No	0.01	Param.
Beryllium (mg/L)	BRGWC-34S	0.0005	0.00012	0.004	No	19	0.0001657	26.32	None	No	0.01	NP (normality)
Beryllium (mg/L)	BRGWC-35S	0.00021	0.0001	0.004	No	19	0.000139	15.79	None	No	0.01	NP (normality)
Beryllium (mg/L)	BRGWC-36S	0.0005	0.000087	0.004	No	20	0.0001993	35	None	No	0.01	NP (normality)
Beryllium (mg/L)	**BRGWC-38S**	**0.00921**	**0.007874**	**0.004**	**Yes**	**20**	**0.001177**	**0**	**None**	**No**	**0.01**	**Param.**
Beryllium (mg/L)	PZ-13S	0.0005359	0.0002289	0.004	No	5	0.00009162	0	None	No	0.01	Param.
Cadmium (mg/L)	BRGWC-33S	0.000461	0.0003314	0.005	No	20	0.0001141	5	None	No	0.01	Param.
Cadmium (mg/L)	BRGWC-34S	0.0009	0.00017	0.005	No	19	0.0003391	21.05	None	No	0.01	NP (normality)
Cadmium (mg/L)	BRGWC-36S	0.001	0.0001	0.005	No	20	0.0002801	90	None	No	0.01	NP (NDs)
Cadmium (mg/L)	BRGWC-38S	0.0005911	0.0004804	0.005	No	19	0.00009452	5.263	None	No	0.01	Param.
Cadmium (mg/L)	PZ-13S	0.001	0.00011	0.005	No	5	0.000398	80	None	No	0.031	NP (NDs)
Chromium (mg/L)	BRGWC-17S	0.01253	0.01002	0.1	No	19	0.002256	0	None	sqrt(x)	0.01	Param.
Chromium (mg/L)	BRGWC-33S	0.01	0.00049	0.1	No	20	0.002127	95	None	No	0.01	NP (NDs)
Chromium (mg/L)	BRGWC-35S	0.006534	0.004579	0.1	No	19	0.001669	5.263	None	No	0.01	Param.
Chromium (mg/L)	BRGWC-36S	0.008156	0.00709	0.1	No	19	0.0009102	0	None	No	0.01	Param.
Chromium (mg/L)	BRGWC-37S	0.01	0.0014	0.1	No	19	0.00406	31.58	None	No	0.01	NP (normality)
Chromium (mg/L)	BRGWC-38S	0.00408	0.003489	0.1	No	19	0.0007046	0	None	x^3	0.01	Param.
Chromium (mg/L)	PZ-13S	0.02633	0.007353	0.1	No	5	0.005662	0	None	No	0.01	Param.
Cobalt (mg/L)	**BRGWC-33S**	**0.05417**	**0.03986**	**0.006**	**Yes**	**20**	**0.01261**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	BRGWC-34S	0.00447	0.003398	0.006	No	19	0.001057	5.263	None	ln(x)	0.01	Param.
Cobalt (mg/L)	BRGWC-35S	0.0012	0.0008	0.006	No	19	0.0003815	73.68	None	No	0.01	NP (NDs)
Cobalt (mg/L)	**BRGWC-38S**	**0.2471**	**0.194**	**0.006**	**Yes**	**19**	**0.04535**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	PZ-13S	0.001	0.00037	0.006	No	5	0.0002817	80	None	No	0.031	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	BRGWC-17S	0.8945	0.3662	5	No	19	0.4511	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-33S	1.379	0.6385	5	No	19	0.7172	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-34S	1.232	0.7771	5	No	19	0.4221	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-35S	1.448	0.5121	5	No	19	1.018	0	None	x^(1/3)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-36S	1.572	0.7046	5	No	19	1.154	0	None	ln(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-37S	0.9584	0.4076	5	No	19	0.5369	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-38S	3.781	2.111	5	No	19	1.568	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-13S	4.383	0.1171	5	No	5	1.718	20	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride (mg/L)	BRGWC-17S	0.177	0.09001	4	No	20	0.0998	5	None	x^(1/3)	0.01	Param.
Fluoride (mg/L)	BRGWC-33S	0.2171	0.1117	4	No	21	0.1065	0	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	BRGWC-34S	0.1485	0.08037	4	No	20	0.07849	5	None	x^(1/3)	0.01	Param.
Fluoride (mg/L)	BRGWC-35S	0.1511	0.07005	4	No	20	0.09165	15	None	x^(1/3)	0.01	Param.
Fluoride (mg/L)	BRGWC-36S	0.1575	0.0486	4	No	20	0.1104	45	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride (mg/L)	BRGWC-37S	0.1	0.055	4	No	20	0.0283	40	None	No	0.01	NP (normality)
Fluoride (mg/L)	BRGWC-38S	0.9199	0.7223	4	No	20	0.1939	0	None	x^(1/3)	0.01	Param.
Fluoride (mg/L)	PZ-13S	0.128	0.06	4	No	5	0.02427	60	None	No	0.031	NP (NDs)
Lead (mg/L)	BRGWC-17S	0.002	0.0001	0.015	No	19	0.0006064	89.47	None	No	0.01	NP (NDs)
Lead (mg/L)	BRGWC-33S	0.002	0.000087	0.015	No	20	0.0009526	40	None	No	0.01	NP (normality)
Lead (mg/L)	BRGWC-34S	0.002	0.0003	0.015	No	19	0.0006892	84.21	None	No	0.01	NP (NDs)
Lead (mg/L)	BRGWC-35S	0.002	0.0002	0.015	No	19	0.0007835	78.95	None	No	0.01	NP (NDs)
Lead (mg/L)	BRGWC-36S	0.002	0.000047	0.015	No	19	0.000448	94.74	None	No	0.01	NP (NDs)
Lead (mg/L)	BRGWC-37S	0.002	0.0001	0.015	No	19	0.0005991	89.47	None	No	0.01	NP (NDs)
Lead (mg/L)	BRGWC-38S	0.002	0.00035	0.015	No	19	0.000729	26.32	None	No	0.01	NP (normality)
Lead (mg/L)	PZ-13S	0.002	0.00035	0.015	No	5	0.0007379	80	None	No	0.031	NP (NDs)
Lithium (mg/L)	BRGWC-17S	0.01	0.00097	0.089	No	19	0.004471	63.16	None	No	0.01	NP (NDs)
Lithium (mg/L)	BRGWC-33S	0.01036	0.00927	0.089	No	20	0.0009573	0	None	No	0.01	Param.

Confidence Intervals Summary Table - All Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 10/17/2023, 3:31 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lithium (mg/L)	BRGWC-34S	0.01	0.00089	0.089	No	19	0.004362	68.42	None	No	0.01	NP (NDs)
Lithium (mg/L)	BRGWC-35S	0.0023	0.0021	0.089	No	19	0.002946	15.79	None	No	0.01	NP (normality)
Lithium (mg/L)	BRGWC-36S	0.01	0.0024	0.089	No	19	0.003163	21.05	None	No	0.01	NP (normality)
Lithium (mg/L)	BRGWC-38S	0.02256	0.0204	0.089	No	19	0.001851	0	None	No	0.01	Param.
Lithium (mg/L)	PZ-13S	0.01	0.001	0.089	No	5	0.004744	60	None	No	0.031	NP (NDs)
Mercury (mg/L)	BRGWC-17S	0.0002	0.0001	0.002	No	17	0.00004717	82.35	None	No	0.01	NP (NDs)
Mercury (mg/L)	BRGWC-33S	0.0002	0.00012	0.002	No	18	0.00004929	83.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	BRGWC-34S	0.0002	0.00015	0.002	No	17	0.00005064	76.47	None	No	0.01	NP (NDs)
Mercury (mg/L)	BRGWC-35S	0.0002	0.00013	0.002	No	17	0.00003949	82.35	None	No	0.01	NP (NDs)
Mercury (mg/L)	BRGWC-36S	0.0002	0.00013	0.002	No	17	0.0000407	82.35	None	No	0.01	NP (NDs)
Mercury (mg/L)	BRGWC-37S	0.0002	0.00014	0.002	No	17	0.00004058	82.35	None	No	0.01	NP (NDs)
Mercury (mg/L)	BRGWC-38S	0.0001524	0.00009621	0.002	No	17	0.00004963	23.53	Kaplan-Meier	No	0.01	Param.
Selenium (mg/L)	BRGWC-17S	0.002466	0.001797	0.05	No	19	0.00129	21.05	Kaplan-Meier	ln(x)	0.01	Param.
Selenium (mg/L)	BRGWC-33S	0.004385	0.002576	0.05	No	20	0.001287	45	Kaplan-Meier	x^2	0.01	Param.
Selenium (mg/L)	BRGWC-36S	0.00474	0.002801	0.05	No	19	0.001814	0	None	sqrt(x)	0.01	Param.
Selenium (mg/L)	BRGWC-38S	0.0398	0.03077	0.05	No	19	0.007711	0	None	No	0.01	Param.
Selenium (mg/L)	PZ-13S	0.003346	0.001094	0.05	No	5	0.001316	20	Kaplan-Meier	No	0.01	Param.
Thallium (mg/L)	BRGWC-17S	0.002	0.000066	0.002	No	19	0.0004437	94.74	None	No	0.01	NP (NDs)
Thallium (mg/L)	BRGWC-33S	0.00024	0.00018	0.002	No	20	0.000802	25	None	No	0.01	NP (normality)
Thallium (mg/L)	BRGWC-38S	0.002	0.0002	0.002	No	19	0.0008718	36.84	None	No	0.01	NP (normality)

Appendix IV Trend Tests - Significant Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 10/17/2023, 3:38 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Beryllium (mg/L)	**BRGWC-38S**	**-0.0004092**	**-106**	**-62**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**BRGWA-2S (bg)**	**-0.0003364**	**-119**	**-58**	**Yes**	**19**	**10.53**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**BRGWA-5I (bg)**	**-0.0001008**	**-66**	**-49**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**BRGWC-33S**	**-0.005452**	**-72**	**-62**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**BRGWC-38S**	**-0.02054**	**-133**	**-58**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.05**	**NP**

Appendix IV Trend Tests - All Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 10/17/2023, 3:38 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Beryllium (mg/L)	BRGWA-2I (bg)	0	0	58	No	19	100	n/a	n/a	0.05	NP
Beryllium (mg/L)	BRGWA-2S (bg)	0	0	58	No	19	100	n/a	n/a	0.05	NP
Beryllium (mg/L)	BRGWA-5I (bg)	0	0	58	No	19	100	n/a	n/a	0.05	NP
Beryllium (mg/L)	BRGWA-5S (bg)	0	0	58	No	19	100	n/a	n/a	0.05	NP
Beryllium (mg/L)	BRGWA-6S (bg)	0	0	58	No	19	100	n/a	n/a	0.05	NP
Beryllium (mg/L)	**BRGWC-38S**	**-0.0004092**	**-106**	**-62**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	BRGWA-2I (bg)	0	-41	-58	No	19	63.16	n/a	n/a	0.05	NP
Cobalt (mg/L)	**BRGWA-2S (bg)**	**-0.0003364**	**-119**	**-58**	**Yes**	**19**	**10.53**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**BRGWA-5I (bg)**	**-0.0001008**	**-66**	**-49**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	BRGWA-5S (bg)	0	13	58	No	19	68.42	n/a	n/a	0.05	NP
Cobalt (mg/L)	BRGWA-6S (bg)	0	15	58	No	19	73.68	n/a	n/a	0.05	NP
Cobalt (mg/L)	**BRGWC-33S**	**-0.005452**	**-72**	**-62**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**BRGWC-38S**	**-0.02054**	**-133**	**-58**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.05**	**NP**

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FIGURE A.

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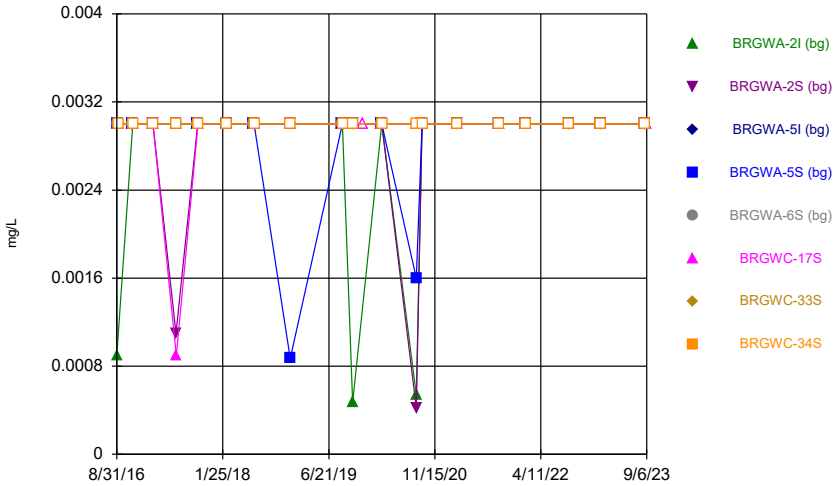
Time Series



Constituent: Antimony Analysis Run 10/23/2023 10:47 AM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

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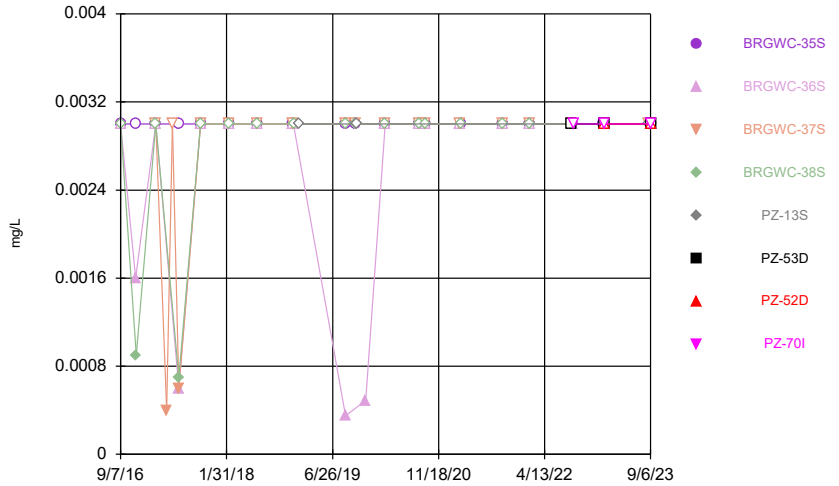
Time Series



Constituent: Antimony Analysis Run 10/23/2023 10:47 AM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

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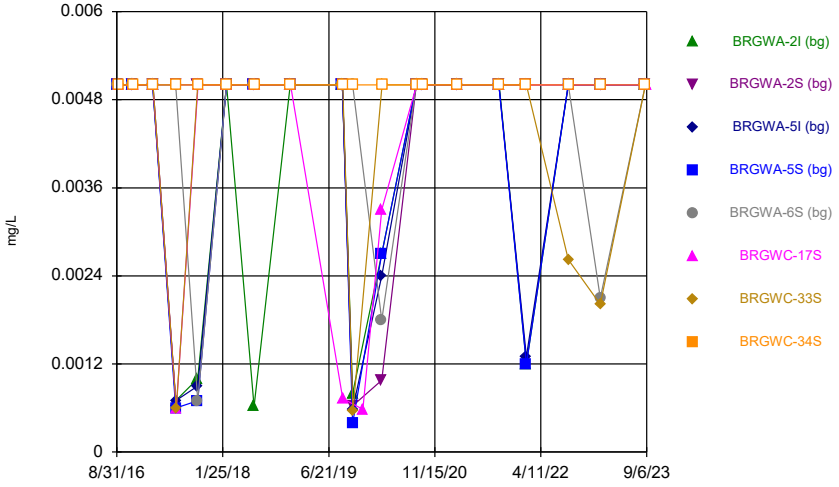

Constituent: Arsenic Analysis Run 10/23/2023 10:47 AM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

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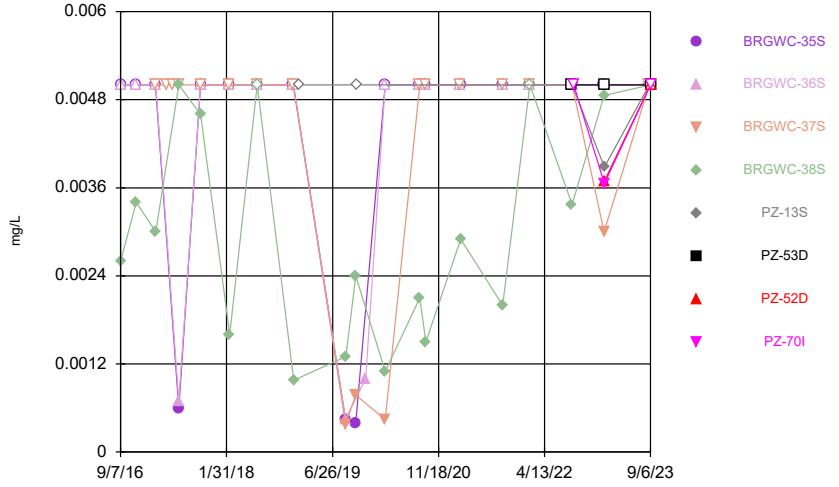

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Plant Branch Client: Southern Company Data: Plant Branch AP

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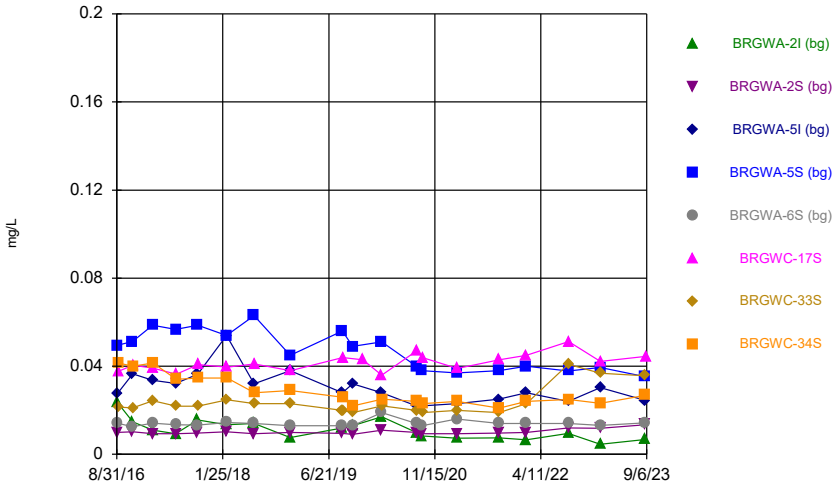
Time Series



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Plant Branch Client: Southern Company Data: Plant Branch AP

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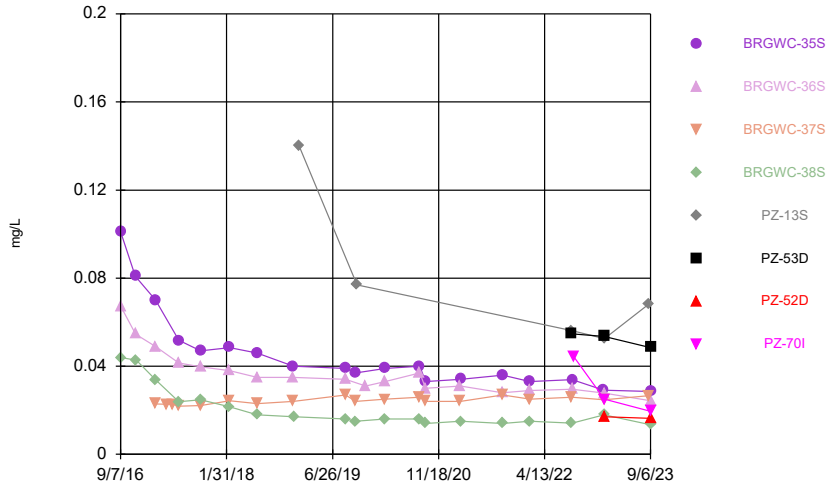
Time Series



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Plant Branch Client: Southern Company Data: Plant Branch AP

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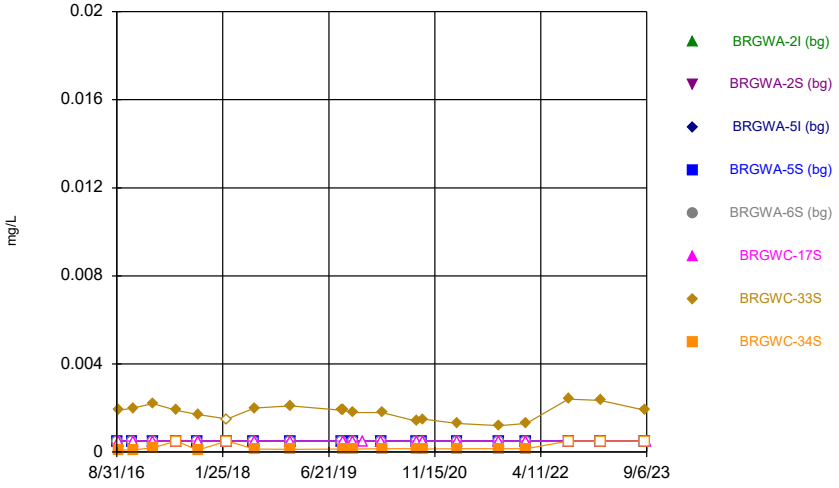

Constituent: Beryllium Analysis Run 10/23/2023 10:47 AM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

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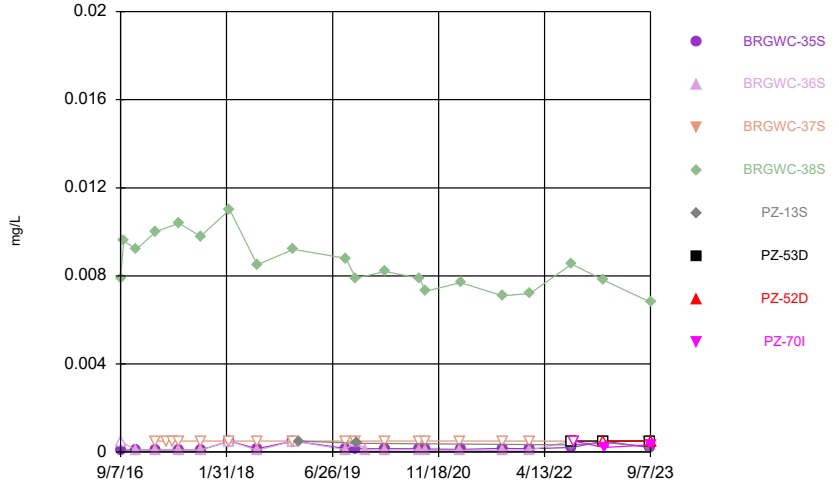
Time Series



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Plant Branch Client: Southern Company Data: Plant Branch AP

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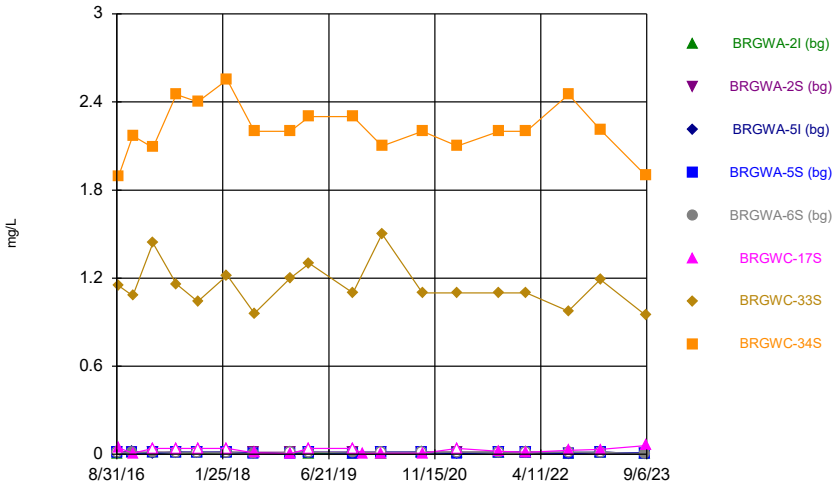
Time Series



Constituent: Boron Analysis Run 10/23/2023 10:47 AM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

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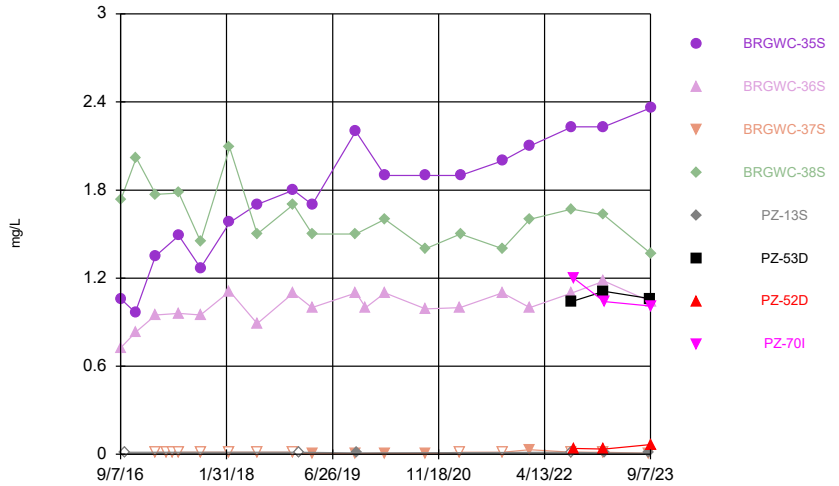
Time Series



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Plant Branch Client: Southern Company Data: Plant Branch AP

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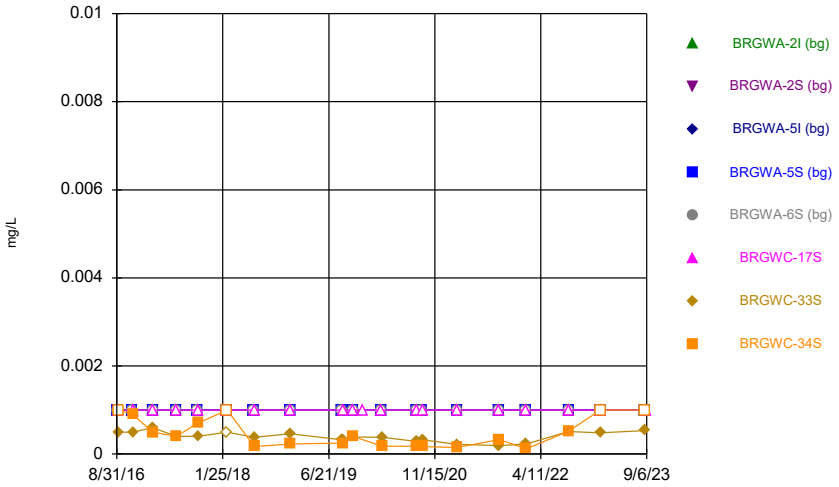
Time Series



Constituent: Cadmium Analysis Run 10/23/2023 10:47 AM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

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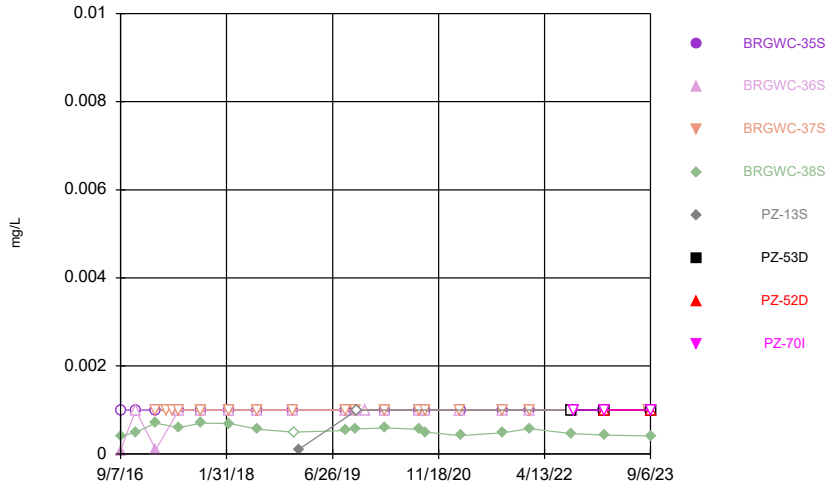
Hollow symbols indicate censored values.

Time Series



Constituent: Cadmium Analysis Run 10/23/2023 10:47 AM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

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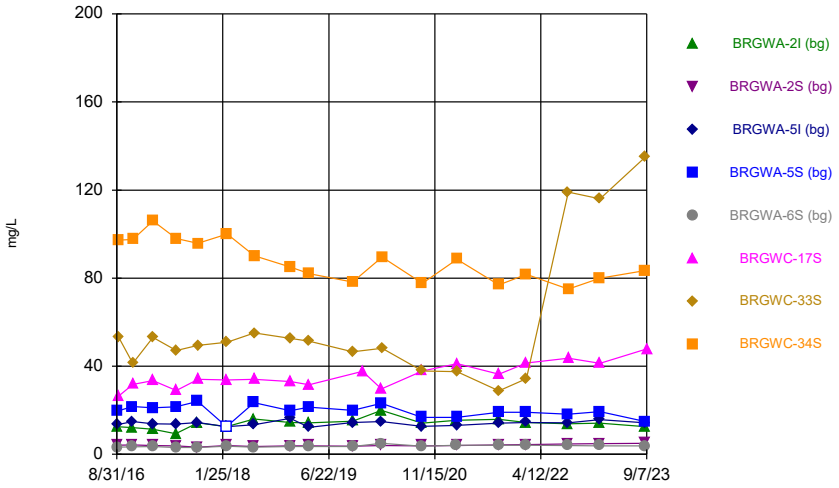
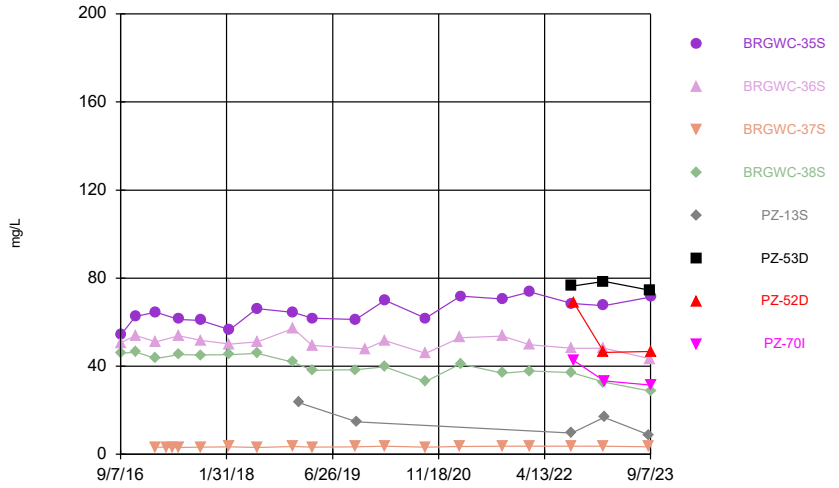


Constituent: Calcium Analysis Run 10/23/2023 10:48 AM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.13 Software licensed to . UG

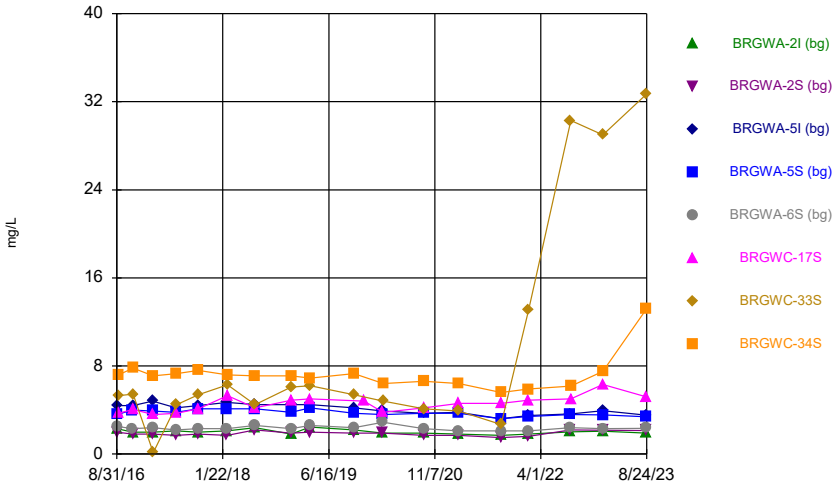
Time Series



Constituent: Calcium Analysis Run 10/23/2023 10:48 AM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.13 Software licensed to . UG

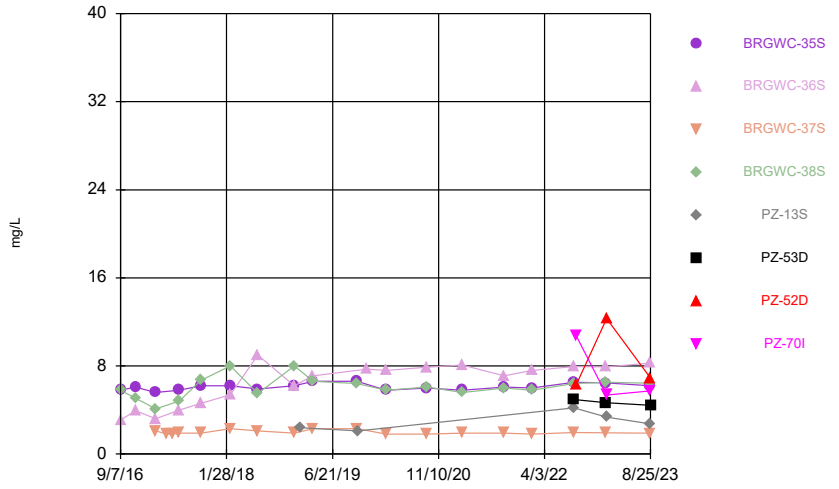
Time Series



Constituent: Chloride Analysis Run 10/23/2023 10:48 AM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.13 Software licensed to . UG

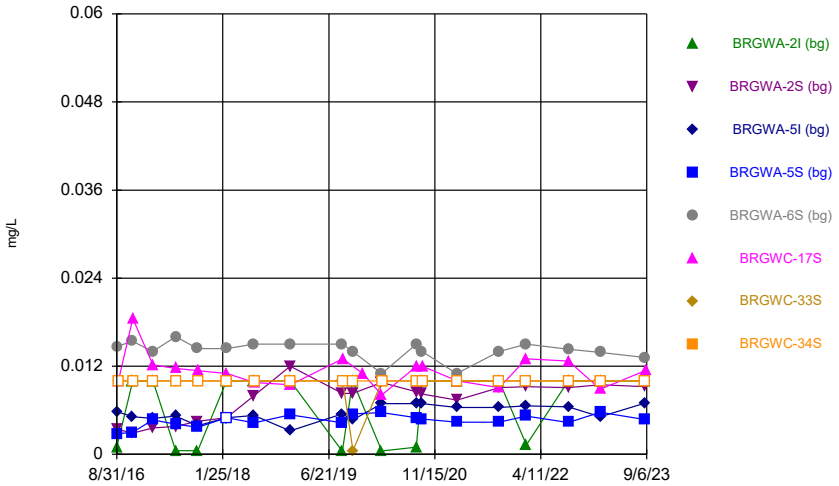
Time Series



Constituent: Chloride Analysis Run 10/23/2023 10:48 AM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.13 Software licensed to . UG
Hollow symbols indicate censored values.

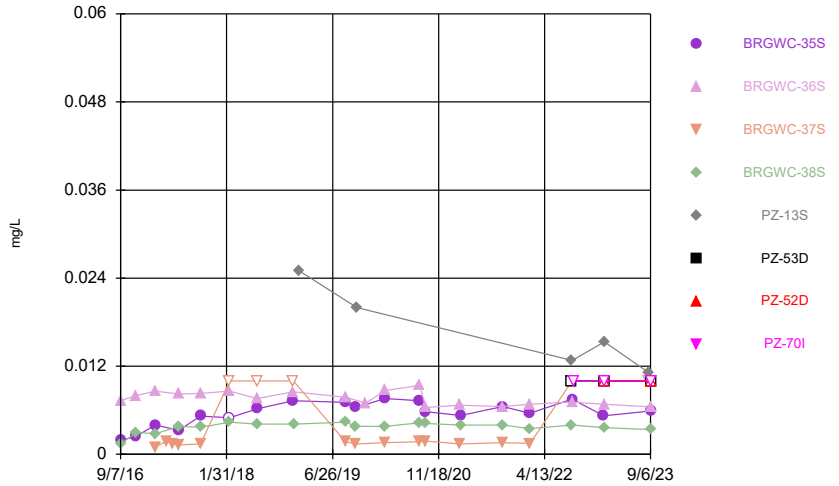
Time Series



Constituent: Chromium Analysis Run 10/23/2023 10:48 AM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.13 Software licensed to . UG
Hollow symbols indicate censored values.

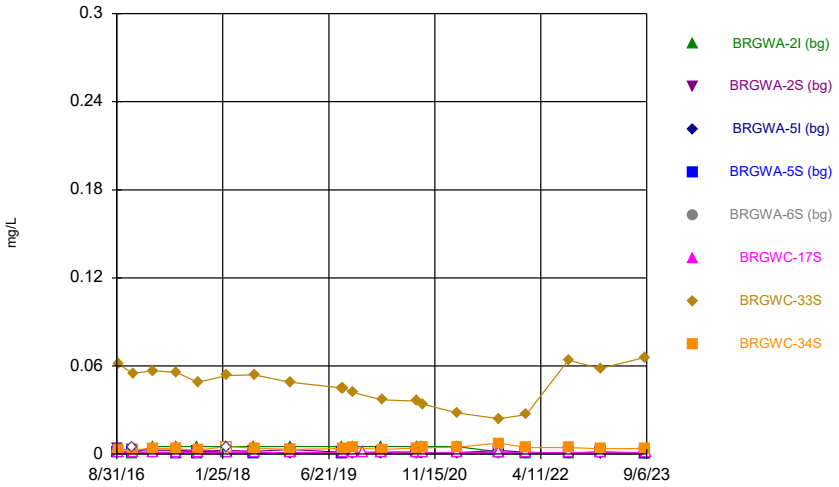
Time Series



Constituent: Chromium Analysis Run 10/23/2023 10:48 AM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.13 Software licensed to . UG
Hollow symbols indicate censored values.

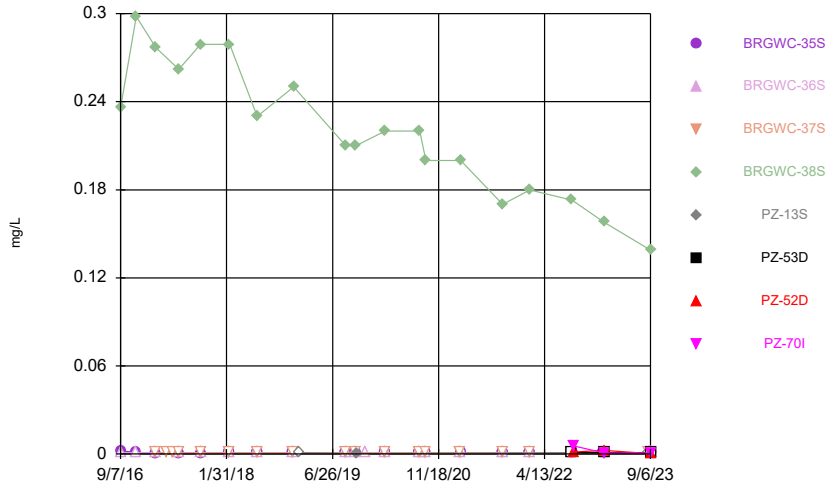
Time Series



Constituent: Cobalt Analysis Run 10/23/2023 10:48 AM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.13 Software licensed to . UG
Hollow symbols indicate censored values.

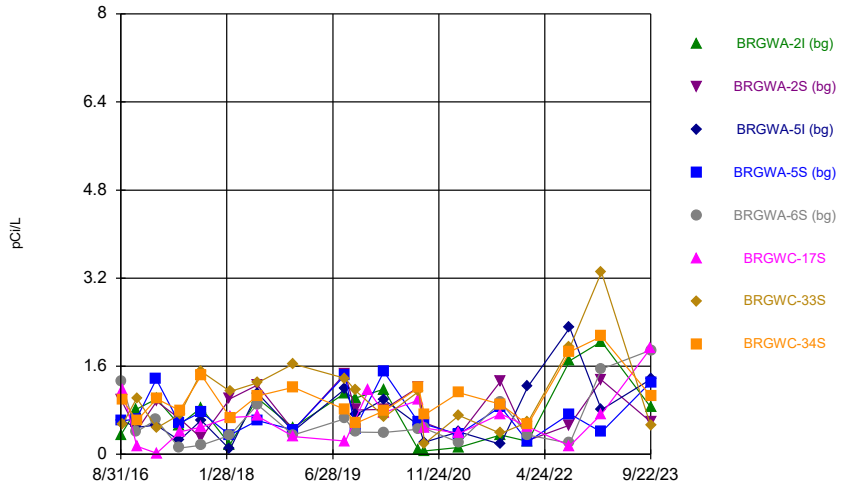
Time Series



Constituent: Cobalt Analysis Run 10/23/2023 10:48 AM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.13 Software licensed to . UG

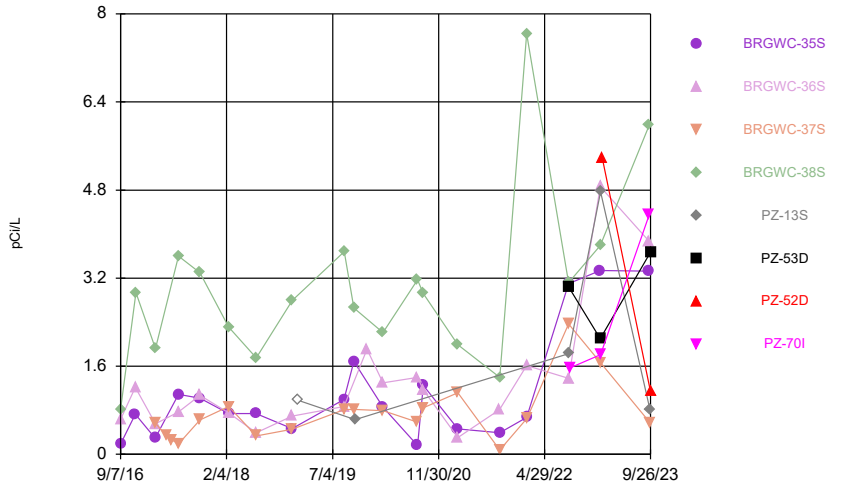
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 10/23/2023 10:48 AM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.13 Software licensed to . UG
Hollow symbols indicate censored values.

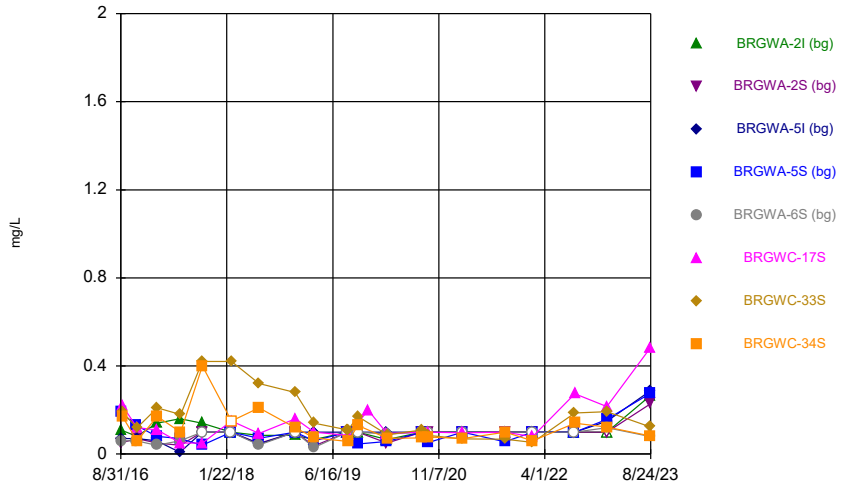
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 10/23/2023 10:48 AM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.13 Software licensed to . UG
Hollow symbols indicate censored values.

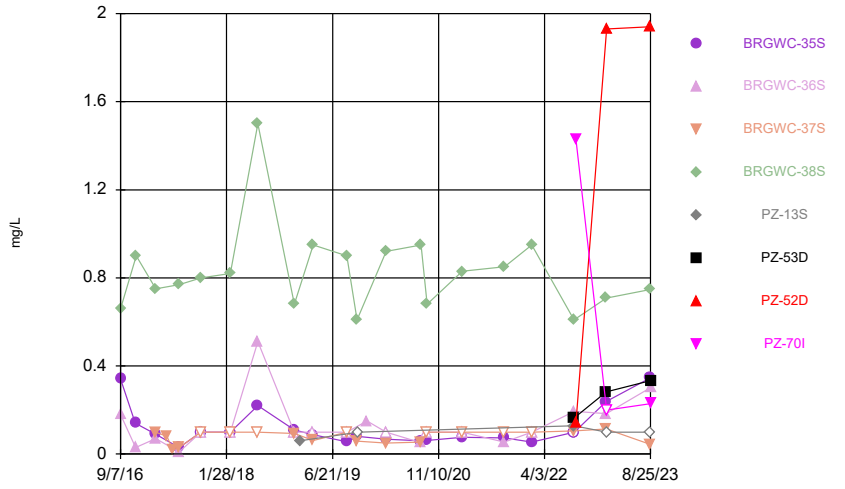
Time Series



Constituent: Fluoride Analysis Run 10/23/2023 10:48 AM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.13 Software licensed to . UG
Hollow symbols indicate censored values.

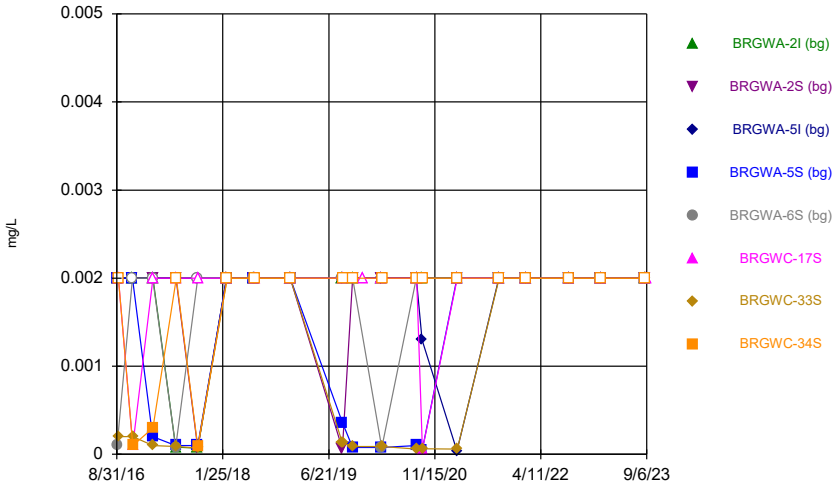
Time Series



Constituent: Fluoride Analysis Run 10/23/2023 10:48 AM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.13 Software licensed to . UG
Hollow symbols indicate censored values.

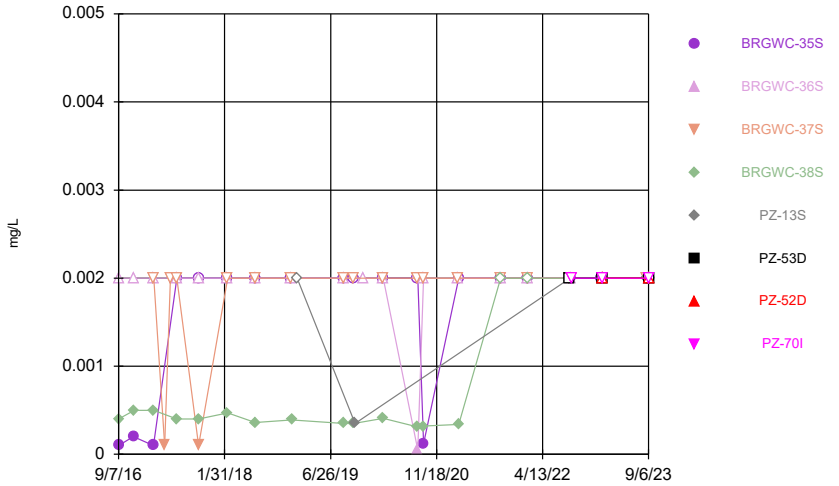
Time Series



Constituent: Lead Analysis Run 10/23/2023 10:48 AM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.13 Software licensed to . UG
Hollow symbols indicate censored values.

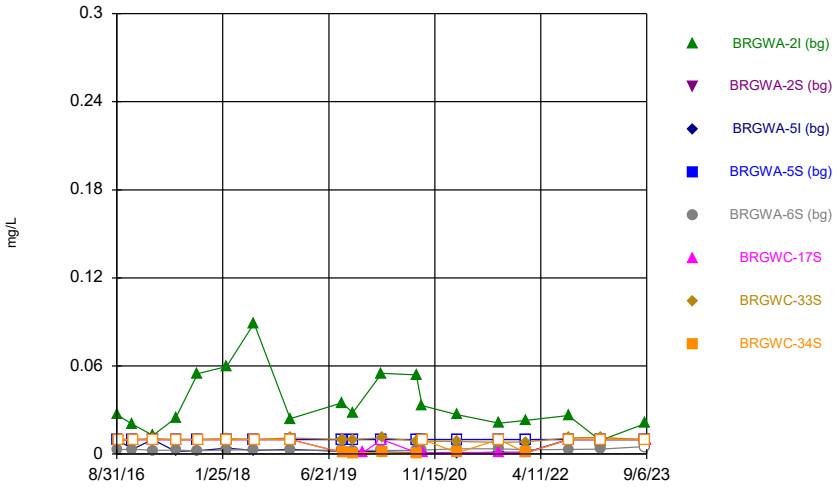
Time Series



Constituent: Lead Analysis Run 10/23/2023 10:48 AM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.13 Software licensed to . UG
Hollow symbols indicate censored values.

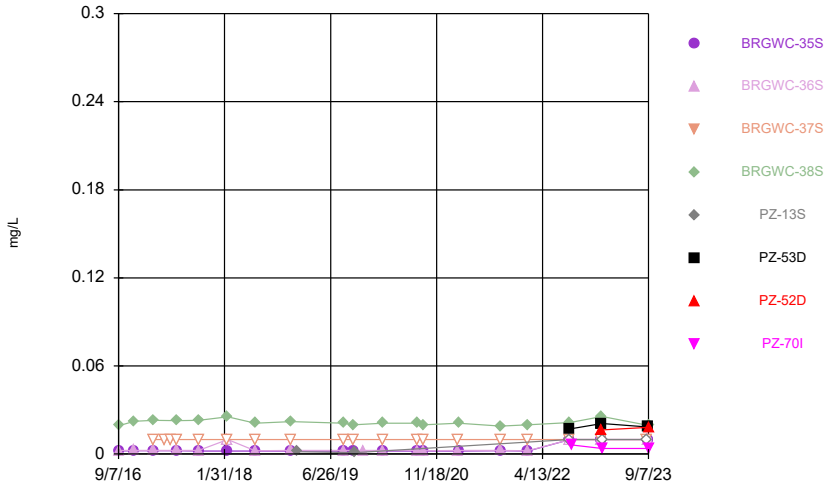
Time Series



Constituent: Lithium Analysis Run 10/23/2023 10:48 AM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.13 Software licensed to . UG
Hollow symbols indicate censored values.

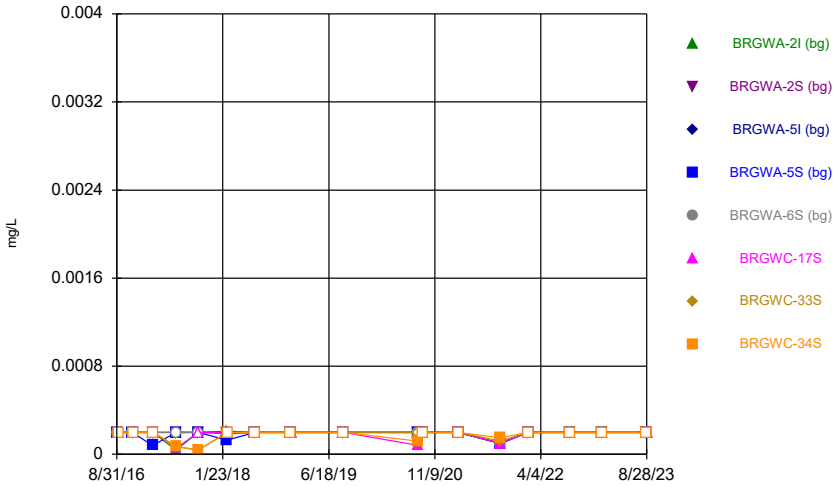
Time Series



Constituent: Lithium Analysis Run 10/23/2023 10:48 AM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.13 Software licensed to . UG
Hollow symbols indicate censored values.

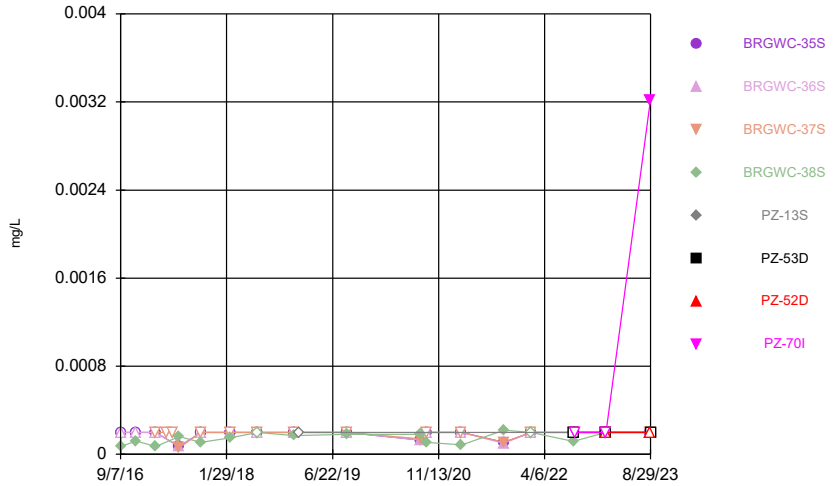
Time Series



Constituent: Mercury Analysis Run 10/23/2023 10:48 AM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.13 Software licensed to . UG
Hollow symbols indicate censored values.

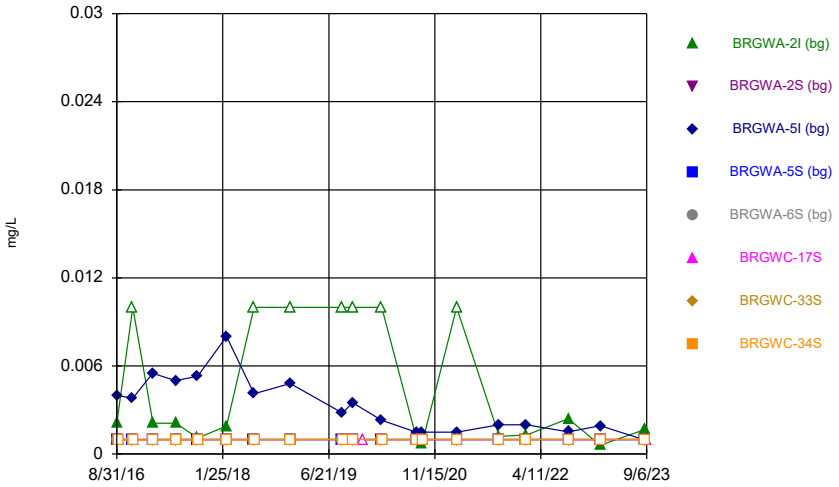
Time Series



Constituent: Mercury Analysis Run 10/23/2023 10:48 AM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.13 Software licensed to . UG
Hollow symbols indicate censored values.

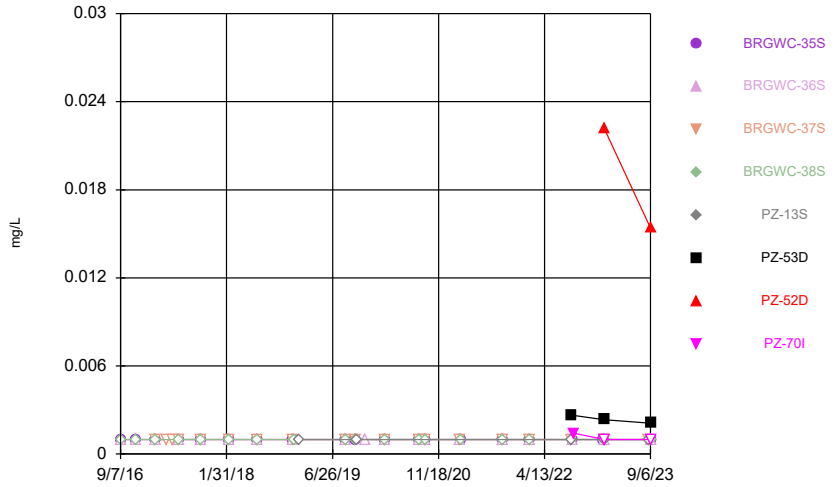
Time Series



Constituent: Molybdenum Analysis Run 10/23/2023 10:48 AM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.13 Software licensed to . UG
Hollow symbols indicate censored values.

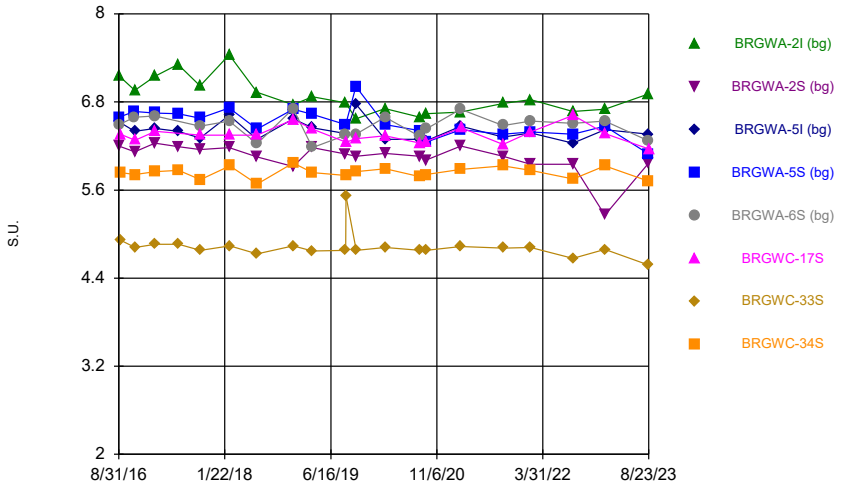
Time Series



Constituent: Molybdenum Analysis Run 10/23/2023 10:48 AM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.13 Software licensed to . UG

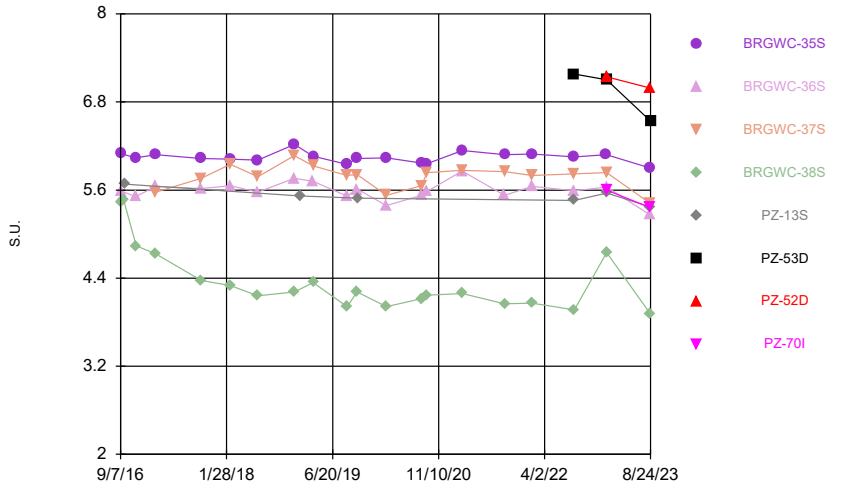
Time Series



Constituent: pH, Field Analysis Run 10/23/2023 10:48 AM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.13 Software licensed to . UG

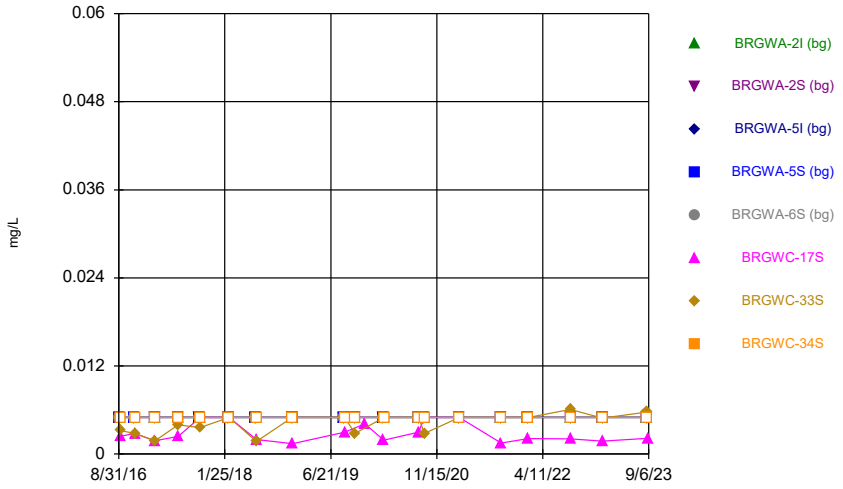
Time Series



Constituent: pH, Field Analysis Run 10/23/2023 10:48 AM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.13 Software licensed to . UG
Hollow symbols indicate censored values.

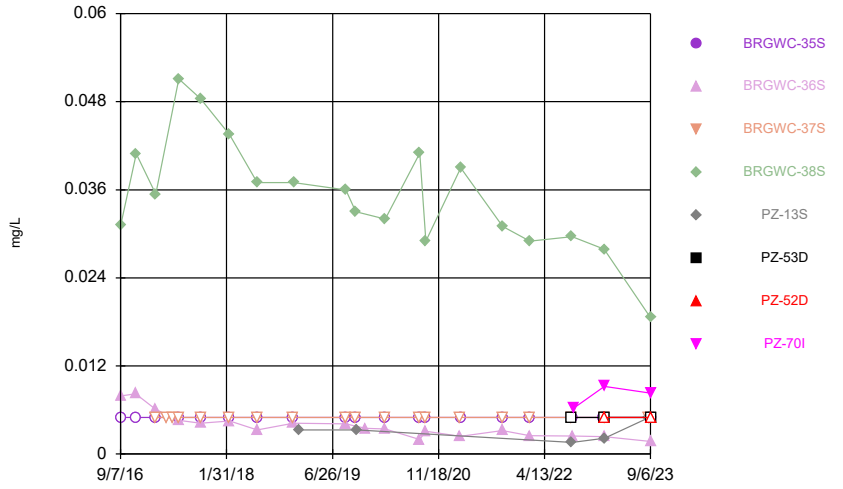
Time Series



Constituent: Selenium Analysis Run 10/23/2023 10:48 AM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.13 Software licensed to . UG
Hollow symbols indicate censored values.

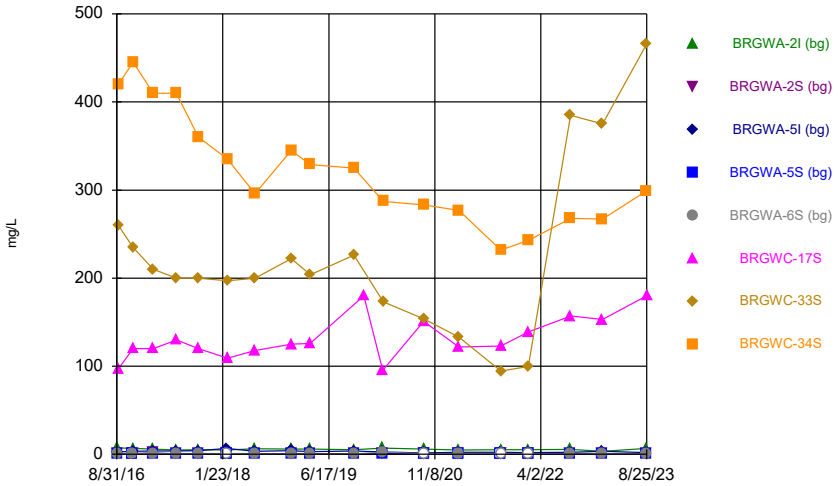
Time Series



Constituent: Selenium Analysis Run 10/23/2023 10:48 AM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.13 Software licensed to . UG
Hollow symbols indicate censored values.

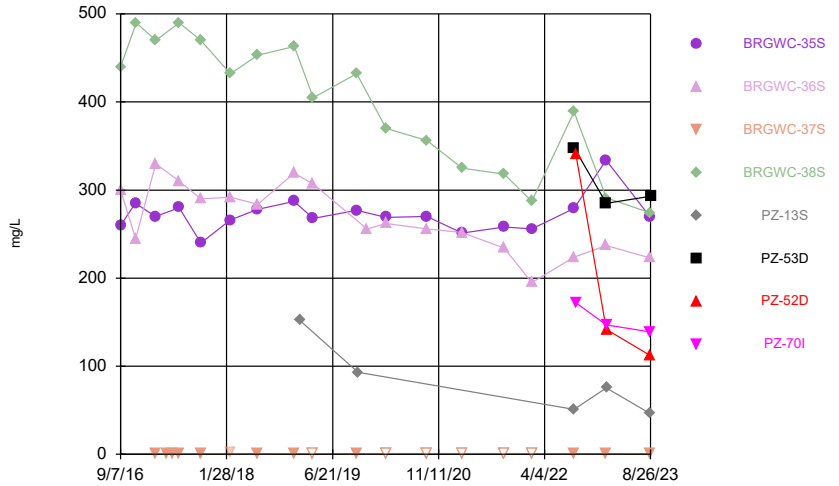
Time Series



Constituent: Sulfate Analysis Run 10/23/2023 10:48 AM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.13 Software licensed to . UG
Hollow symbols indicate censored values.

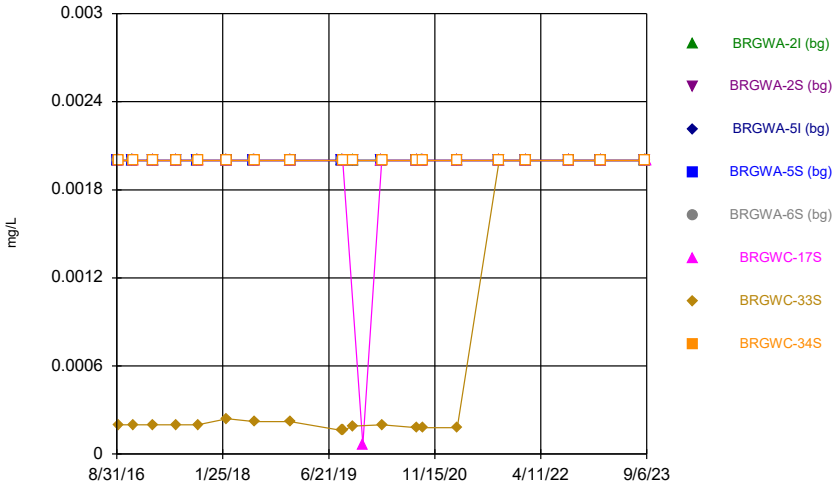
Time Series



Constituent: Sulfate Analysis Run 10/23/2023 10:48 AM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.13 Software licensed to . UG
Hollow symbols indicate censored values.

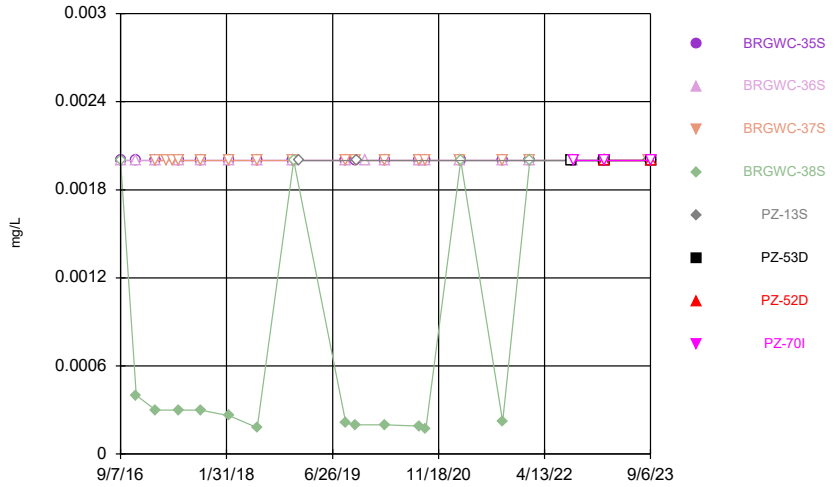
Time Series



Constituent: Thallium Analysis Run 10/23/2023 10:48 AM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.13 Software licensed to . UG
Hollow symbols indicate censored values.

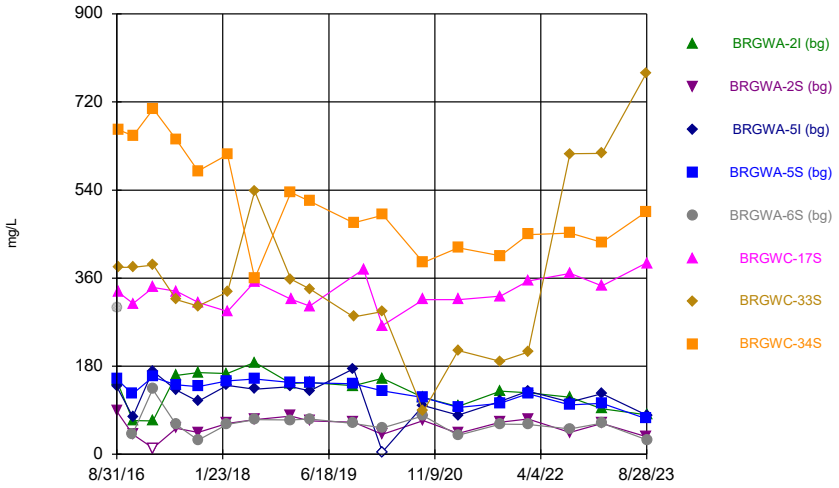
Time Series



Constituent: Thallium Analysis Run 10/23/2023 10:48 AM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.13 Software licensed to . UG
Hollow symbols indicate censored values.

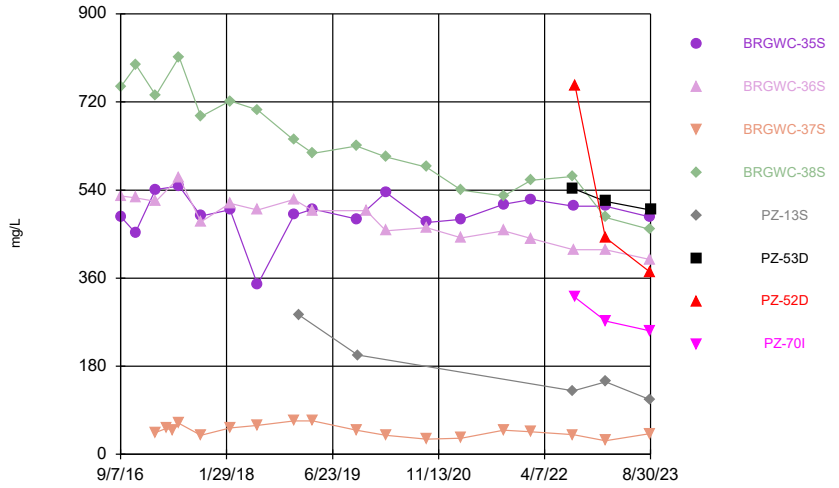
Time Series



Constituent: Total Dissolved Solids Analysis Run 10/23/2023 10:48 AM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.13 Software licensed to . UG

Time Series



Constituent: Total Dissolved Solids Analysis Run 10/23/2023 10:48 AM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Time Series

Constituent: Antimony (mg/L) Analysis Run 10/23/2023 10:51 AM View: Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-17S	BRGWC-33S	BRGWC-34S
8/31/2016	0.0009 (J)	<0.003	<0.003	<0.003				
9/1/2016					<0.003			
9/7/2016						<0.003	<0.003	
9/8/2016								<0.003
11/15/2016				<0.003	<0.003			
11/16/2016	<0.003	<0.003	<0.003					
11/17/2016						<0.003	<0.003	<0.003
2/20/2017			<0.003	<0.003	<0.003			
2/21/2017	<0.003	<0.003						
2/22/2017						<0.003	<0.003	<0.003
6/12/2017	<0.003		<0.003	<0.003	<0.003			
6/13/2017		0.0011 (J)						
6/14/2017							<0.003	<0.003
6/15/2017						0.0009 (J)		
9/26/2017	<0.003	<0.003	<0.003	<0.003	<0.003			
9/27/2017							<0.003	<0.003
9/28/2017						<0.003		
2/13/2018	<0.003	<0.003	<0.003	<0.003	<0.003			
2/15/2018						<0.003	<0.003	<0.003
6/26/2018	<0.003	<0.003	<0.003	<0.003	<0.003			
6/27/2018						<0.003	<0.003	<0.003
12/18/2018	<0.003	<0.003	<0.003	0.00087 (J)	<0.003		<0.003	<0.003
12/19/2018						<0.003		
8/27/2019	<0.003	<0.003	<0.003	<0.003	<0.003		<0.003	
8/28/2019						<0.003	<0.003	<0.003
10/15/2019	0.00047 (J)	<0.003	<0.003	<0.003	<0.003			
10/16/2019							<0.003	<0.003
12/3/2019						<0.003		
3/3/2020	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003		
3/5/2020							<0.003	<0.003
8/18/2020	0.00054 (J)	0.00042 (J)	<0.003	0.0016 (J)	<0.003			
8/19/2020						<0.003	<0.003	<0.003
9/15/2020	<0.003	<0.003	<0.003	<0.003	<0.003			
9/16/2020						<0.003	<0.003	<0.003
3/1/2021	<0.003				<0.003			
3/2/2021		<0.003	<0.003	<0.003				
3/3/2021							<0.003	<0.003
3/4/2021						<0.003		
9/21/2021			<0.003	<0.003				
9/22/2021	<0.003	<0.003			<0.003	<0.003	<0.003	<0.003
2/1/2022	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
8/23/2022	<0.003	<0.003	<0.003	<0.003	<0.003		<0.003	
8/24/2022						<0.003		<0.003
1/24/2023	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
8/31/2023	<0.003	<0.003	<0.003	<0.003	<0.003		<0.003	<0.003
9/6/2023						<0.003		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 10/23/2023 10:51 AM View: Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-13S	PZ-53D	PZ-52D	PZ-70I
9/7/2016	<0.003	<0.003		<0.003				
11/17/2016	<0.003							
11/18/2016		0.0016 (J)						
11/21/2016				0.0009 (J)				
2/22/2017	<0.003							
2/23/2017		<0.003	<0.003	<0.003				
4/17/2017			0.0004 (J)					
5/15/2017			<0.003					
6/15/2017	<0.003	0.0006 (J)	0.0006 (J)	0.0007 (J)				
9/28/2017	<0.003	<0.003	<0.003	<0.003				
2/15/2018	<0.003	<0.003	<0.003	<0.003				
6/27/2018	<0.003							
6/28/2018		<0.003	<0.003	<0.003				
12/19/2018	<0.003	<0.003	<0.003					
12/20/2018				<0.003				
1/15/2019					<0.003			
8/28/2019	<0.003	0.00035 (J)	<0.003					
8/29/2019				<0.003				
10/16/2019	<0.003		<0.003	<0.003				
10/22/2019					<0.003			
12/3/2019		0.00049 (J)						
3/5/2020	<0.003	<0.003	<0.003	<0.003				
8/19/2020	<0.003	<0.003	<0.003	<0.003				
9/16/2020	<0.003	<0.003	<0.003					
9/17/2020				<0.003				
3/3/2021		<0.003	<0.003					
3/4/2021	<0.003			<0.003				
9/22/2021		<0.003						
9/23/2021	<0.003		<0.003	<0.003				
2/1/2022	<0.003	<0.003		<0.003				
2/2/2022			<0.003					
8/23/2022			<0.003	<0.003	<0.003	<0.003		
8/24/2022	<0.003	<0.003						
9/1/2022								<0.003
1/24/2023	<0.003							
1/25/2023		<0.003	<0.003	<0.003		<0.003	<0.003	
1/26/2023					<0.003			<0.003
8/31/2023			<0.003		<0.003			
9/6/2023	<0.003	<0.003		<0.003		<0.003	<0.003	<0.003

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/23/2023 10:51 AM View: Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-17S	BRGWC-33S	BRGWC-34S
8/31/2016	<0.005	<0.005	<0.005	<0.005				
9/1/2016					<0.005			
9/7/2016						<0.005	<0.005	
9/8/2016								<0.005
11/15/2016				<0.005	<0.005			
11/16/2016	<0.005	<0.005	<0.005					
11/17/2016						<0.005	<0.005	<0.005
2/20/2017			<0.005	<0.005	<0.005			
2/21/2017	<0.005	<0.005						
2/22/2017						<0.005	<0.005	<0.005
6/12/2017	0.0007 (J)		0.0007 (J)	0.0006 (J)	<0.005			
6/13/2017		<0.005						
6/14/2017							0.0006 (J)	<0.005
6/15/2017						0.0006 (J)		
9/26/2017	0.001 (J)	<0.005	0.0009 (J)	0.0007 (J)	0.0007 (J)			
9/27/2017							<0.005	<0.005
9/28/2017						<0.005		
2/13/2018	<0.005	<0.005	<0.005	<0.005	<0.005			
2/15/2018						<0.005	<0.005	<0.005
6/26/2018	0.00062 (J)	<0.005	<0.005	<0.005	<0.005			
6/27/2018						<0.005	<0.005	<0.005
12/18/2018	<0.005	<0.005 (X)	<0.005 (X)	<0.005 (X)	<0.005 (X)		<0.005 (X)	<0.005
12/19/2018						<0.005		
8/27/2019	<0.005	<0.005	<0.005	<0.005	<0.005		<0.005	
8/28/2019						0.00073 (J)	<0.005	<0.005
10/15/2019	0.0008 (J)	0.00063 (J)	0.00058 (J)	0.00039 (J)	<0.005			
10/16/2019							0.00056 (J)	<0.005
12/3/2019						0.00058 (J)		
3/3/2020	0.0027 (J)	0.00098 (J)	0.0024 (J)	0.0027 (J)	0.0018 (J)	0.0033 (J)		
3/5/2020							<0.005	<0.005
8/18/2020	<0.005	<0.005	<0.005	<0.005	<0.005			
8/19/2020						<0.005	<0.005	<0.005
9/15/2020	<0.005	<0.005	<0.005	<0.005	<0.005			
9/16/2020						<0.005	<0.005	<0.005
3/1/2021	<0.005				<0.005			
3/2/2021		<0.005	<0.005	<0.005				
3/3/2021							<0.005	<0.005
3/4/2021						<0.005		
9/21/2021			<0.005	<0.005				
9/22/2021	<0.005	<0.005			<0.005	<0.005	<0.005	<0.005
2/1/2022	0.0012 (J)	<0.005	0.0013 (J)	0.0012 (J)	<0.005	<0.005	<0.005	<0.005
8/23/2022	<0.005	<0.005	<0.005	<0.005	<0.005		0.00262 (J)	
8/24/2022						<0.005		<0.005
1/24/2023	<0.005	<0.005	<0.005	<0.005	0.0021 (J)	<0.005	0.00201 (J)	<0.005
8/31/2023	<0.005	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005
9/6/2023						<0.005		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/23/2023 10:51 AM View: Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-13S	PZ-53D	PZ-52D	PZ-70I
9/7/2016	<0.005	<0.005		0.0026 (J)				
11/17/2016	<0.005							
11/18/2016		<0.005						
11/21/2016				0.0034 (J)				
2/22/2017	<0.005							
2/23/2017		<0.005	<0.005	0.003 (J)				
4/17/2017			<0.005					
5/15/2017			<0.005					
6/15/2017	0.0006 (J)	0.0007 (J)	<0.005	0.005 (J)				
9/28/2017	<0.005	<0.005	<0.005	0.0046 (J)				
2/15/2018	<0.005	<0.005	<0.005	0.0016 (J)				
6/27/2018	<0.005							
6/28/2018		<0.005 (X)	<0.005 (X)	<0.005 (X)				
12/19/2018	<0.005	<0.005	<0.005					
12/20/2018				0.00098 (J)				
1/15/2019					<0.005			
8/28/2019	0.00044 (J)	0.00045 (J)	0.00038 (J)					
8/29/2019				0.0013 (J)				
10/16/2019	0.0004 (J)		0.00078 (J)	0.0024 (J)				
10/22/2019					<0.005			
12/3/2019		0.001 (J)						
3/5/2020	<0.005	<0.005	0.00044 (J)	0.0011 (J)				
8/19/2020	<0.005	<0.005	<0.005	0.0021 (J)				
9/16/2020	<0.005	<0.005	<0.005					
9/17/2020				0.0015 (J)				
3/3/2021		<0.005	<0.005					
3/4/2021	<0.005			0.0029 (J)				
9/22/2021		<0.005						
9/23/2021	<0.005		<0.005	0.002 (J)				
2/1/2022	<0.005	<0.005		<0.005				
2/2/2022			<0.005					
8/23/2022			<0.005	0.00337 (J)	<0.005	<0.005		
8/24/2022	<0.005	<0.005						
9/1/2022								<0.005
1/24/2023	<0.005							
1/25/2023		<0.005	0.003 (J)	0.00486 (J)		<0.005	0.00368 (J)	
1/26/2023					0.00388 (J)			0.00366 (J)
8/31/2023			<0.005		<0.005			
9/6/2023	<0.005	<0.005		<0.005		<0.005	<0.005	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Barium (mg/L) Analysis Run 10/23/2023 10:51 AM View: Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-17S	BRGWC-33S	BRGWC-34S
8/31/2016	0.0239	0.0099 (J)	0.0273	0.0495				
9/1/2016					0.0142			
9/7/2016						0.0377	0.0214	
9/8/2016								0.0415
11/15/2016				0.0512	0.0126			
11/16/2016	0.0147	0.0102	0.0365					
11/17/2016						0.0405	0.0211	0.04
2/20/2017			0.0336	0.0586	0.0142			
2/21/2017	0.0109	0.0094 (J)						
2/22/2017						0.0392	0.0243	0.0415
6/12/2017	0.0094 (J)		0.0322	0.0567	0.0134			
6/13/2017		0.0094 (J)						
6/14/2017							0.0218	0.0341
6/15/2017						0.0364		
9/26/2017	0.0156	0.0096 (J)	0.0364	0.0586	0.0133			
9/27/2017							0.0219	0.0347
9/28/2017						0.0408		
2/13/2018	0.0134	0.0102	0.054	0.054	0.0145			
2/15/2018						0.0396	0.0248	0.0346
6/26/2018	0.014	0.0093 (J)	0.032	0.063	0.014			
6/27/2018						0.041	0.023	0.028
12/18/2018	0.0076 (J)	0.01	0.038	0.045	0.013		0.023	0.029
12/19/2018						0.038		
8/27/2019	0.012	0.0095 (J)	0.028	0.056	0.013		0.02	
8/28/2019						0.044	0.02	0.026
10/15/2019	0.013	0.0091 (J)	0.032	0.049	0.013			
10/16/2019							0.019	0.022
12/3/2019						0.043		
3/3/2020	0.017	0.011	0.028	0.051	0.019	0.036		
3/5/2020							0.022	0.025
8/18/2020	0.01 (J)	0.01	0.022	0.04	0.014			
8/19/2020						0.047	0.02	0.024
9/15/2020	0.0083 (J)	0.0094 (J)	0.022	0.038	0.013			
9/16/2020						0.044	0.019	0.023
3/1/2021	0.0074				0.016			
3/2/2021		0.0094	0.023	0.037				
3/3/2021							0.02	0.024
3/4/2021						0.039		
9/21/2021			0.025	0.038				
9/22/2021	0.0075	0.0097			0.014	0.043	0.019	0.021
2/1/2022	0.0066	0.01	0.028	0.04	0.014	0.045	0.023	0.024
8/23/2022	0.00954	0.012	0.0241	0.0379	0.014		0.0409	
8/24/2022						0.0512		0.0249
1/24/2023	0.00453	0.0118	0.0303	0.0394	0.0132	0.0422	0.0368	0.0232
8/31/2023	0.0068	0.0135	0.0245	0.0352	0.0143		0.0357	0.0268
9/6/2023						0.0445		

Time Series

Constituent: Barium (mg/L) Analysis Run 10/23/2023 10:51 AM View: Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-13S	PZ-53D	PZ-52D	PZ-70I
9/7/2016	0.101	0.0674		0.044				
11/17/2016	0.0808							
11/18/2016		0.0546						
11/21/2016				0.0428 (J)				
2/22/2017	0.0701							
2/23/2017		0.0489	0.0229	0.0338				
4/17/2017			0.0227					
5/15/2017			0.0227					
6/15/2017	0.0518	0.0415	0.0218	0.0239				
9/28/2017	0.047	0.0397	0.0222	0.0247				
2/15/2018	0.0485	0.038	0.0243	0.0215				
6/27/2018	0.046							
6/28/2018		0.035	0.023	0.018				
12/19/2018	0.04	0.035	0.024					
12/20/2018				0.017				
1/15/2019					0.14			
8/28/2019	0.039	0.034	0.027					
8/29/2019				0.016				
10/16/2019	0.037		0.024	0.015				
10/22/2019					0.077			
12/3/2019		0.031						
3/5/2020	0.039	0.033	0.025	0.016				
8/19/2020	0.04	0.037	0.026	0.016				
9/16/2020	0.033	0.03	0.024					
9/17/2020				0.014				
3/3/2021		0.031	0.024					
3/4/2021	0.034			0.015				
9/22/2021		0.028						
9/23/2021	0.036		0.027	0.014				
2/1/2022	0.033	0.029		0.015				
2/2/2022			0.025					
8/23/2022			0.026	0.0141	0.0562	0.0547		
8/24/2022	0.0339	0.0296						
9/1/2022								0.0444
1/24/2023	0.0291							
1/25/2023		0.0278	0.0247	0.018		0.0536	0.0171	
1/26/2023					0.0525			0.025
8/31/2023			0.0266		0.0683			
9/6/2023	0.0286	0.0243		0.0134		0.0485	0.0163	0.0196

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/23/2023 10:51 AM View: Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-17S	BRGWC-33S	BRGWC-34S
8/31/2016	<0.0005	<0.0005	<0.0005	<0.0005				
9/1/2016					<0.0005			
9/7/2016						<0.0005	0.0019 (J)	
9/8/2016								0.0001 (J)
11/15/2016				<0.0005	<0.0005			
11/16/2016	<0.0005	<0.0005	<0.0005					
11/17/2016						<0.0005	0.002 (J)	0.0001 (J)
2/20/2017			<0.0005	<0.0005	<0.0005			
2/21/2017	<0.0005	<0.0005						
2/22/2017						<0.0005	0.0022 (J)	0.0002 (J)
6/12/2017	<0.0005		<0.0005	<0.0005	<0.0005			
6/13/2017		<0.0005						
6/14/2017							0.0019 (J)	<0.0005
6/15/2017						<0.0005		
9/26/2017	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005			
9/27/2017							0.0017 (J)	0.0001 (J)
9/28/2017						<0.0005		
2/13/2018	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005			
2/15/2018						<0.0005	<0.003	<0.0005
6/26/2018	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005			
6/27/2018						<0.0005	0.002 (J)	0.00013 (J)
12/18/2018	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		0.0021 (J)	0.00012 (J)
12/19/2018						<0.0005		
8/27/2019	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		0.0019 (J)	
8/28/2019						<0.0005	0.0019 (J)	0.00014 (J)
10/15/2019	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005			
10/16/2019							0.0018 (J)	0.00014 (J)
10/17/2019						<0.0005		
12/3/2019						<0.0005		
3/3/2020	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		
3/5/2020							0.0018 (J)	0.00015 (J)
8/18/2020	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005			
8/19/2020						<0.0005	0.0014 (J)	0.00015 (J)
9/15/2020	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005			
9/16/2020						<0.0005	0.0015 (J)	0.00014 (J)
3/1/2021	<0.0005				<0.0005			
3/2/2021		<0.0005	<0.0005	<0.0005				
3/3/2021							0.0013	0.00015 (J)
3/4/2021						<0.0005		
9/21/2021			<0.0005	<0.0005				
9/22/2021	<0.0005	<0.0005			<0.0005	<0.0005	0.0012	0.00015 (J)
2/1/2022	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0013	0.00015 (J)
8/23/2022	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		0.00241	
8/24/2022						<0.0005		<0.0005
1/24/2023	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.00235	<0.0005
8/31/2023	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		0.0019	<0.0005
9/6/2023						<0.0005		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/23/2023 10:51 AM View: Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-13S	PZ-53D	PZ-52D	PZ-70I
9/7/2016	9E-05 (J)	<0.0005		0.0079				
9/23/2016				0.0096 (R)				
11/17/2016	0.0001 (J)							
11/18/2016		0.0001 (J)						
11/21/2016				0.0092				
2/22/2017	0.0001 (J)							
2/23/2017		0.0001 (J)	<0.0005	0.01				
4/17/2017			<0.0005					
5/15/2017			<0.0005					
6/15/2017	0.0001 (J)	9E-05 (J)	<0.0005	0.0104				
9/28/2017	0.0001 (J)	0.0001 (J)	<0.0005	0.0098				
2/15/2018	<0.0005	<0.0005	<0.0005	0.011 (J)				
6/27/2018	0.00015 (J)							
6/28/2018		8.1E-05 (J)	<0.0005	0.0085				
12/19/2018	<0.0005 (X)	<0.0005 (X)	<0.0005					
12/20/2018				0.0092				
1/15/2019					0.0005 (J)			
8/28/2019	0.00016 (J)	0.00011 (J)	<0.0005					
8/29/2019				0.0088				
10/16/2019	0.00015 (J)		<0.0005	0.0079				
10/17/2019		<0.0005						
10/22/2019					0.0004 (J)			
12/3/2019		9.7E-05 (J)						
3/5/2020	0.00015 (J)	9.2E-05 (J)	<0.0005	0.0082				
8/19/2020	0.00015 (J)	0.00011 (J)	<0.0005	0.0079				
9/16/2020	0.00014 (J)	8E-05 (J)	<0.0005					
9/17/2020				0.0073				
3/3/2021		7.9E-05 (J)	<0.0005					
3/4/2021	0.00012 (J)			0.0077				
9/22/2021		8.4E-05 (J)						
9/23/2021	0.00016 (J)		<0.0005	0.0071				
2/1/2022	0.00015 (J)	8.7E-05 (J)		0.0072				
2/2/2022			<0.0005					
8/23/2022			<0.0005	0.00854	0.000331 (J)	<0.0005		
8/24/2022	0.00021 (J)	<0.0005						
9/1/2022								<0.0005
1/24/2023	<0.0005							
1/25/2023		<0.0005	<0.0005	0.0078		<0.0005	<0.0005	
1/26/2023					0.000422 (J)			0.000217 (J)
8/31/2023			<0.0005		0.000259 (J)			
9/6/2023	0.0002 (J)	<0.0005				<0.0005		
9/7/2023				0.0068			<0.0005	0.000325 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 10/23/2023 10:51 AM View: Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-17S	BRGWC-33S	BRGWC-34S
8/31/2016	0.0072 (J)	<0.015	<0.015	<0.015				
9/1/2016					<0.015			
9/7/2016						0.0449 (J)	1.15	
9/8/2016								1.89
11/15/2016				0.0085 (J)	0.0123 (J)			
11/16/2016	0.0117 (J)	0.0109 (J)	0.0187 (J)					
11/17/2016						0.0067 (J)	1.08	2.17
2/20/2017			0.0066 (J)	0.0093 (J)	0.0157 (J)			
2/21/2017	0.0088 (J)	<0.015						
2/22/2017						<0.04	1.44	2.09
6/12/2017	0.0133 (J)		<0.015	<0.015	<0.015			
6/13/2017		<0.015						
6/14/2017							1.16	2.45
6/15/2017						<0.04		
9/26/2017	0.0093 (J)	<0.015	<0.015	<0.015	<0.015			
9/27/2017							1.04	2.4
9/28/2017						<0.04		
2/13/2018	0.0141 (J)	<0.015	<0.015	<0.015	<0.015			
2/15/2018						<0.04	1.22	2.55
6/26/2018	0.012 (J)	<0.015	0.0042 (J)	0.0056 (J)	0.0041 (J)			
6/27/2018						0.0088 (J+X)	0.96 (J+X)	2.2 (J+X)
12/18/2018	0.0086 (J)	<0.015	<0.015	0.0062 (J)	<0.015		1.2	2.2
12/19/2018						0.0045 (J)		
3/19/2019	0.00565 (JD)	<0.015	<0.015	<0.015	<0.015	<0.04		
3/20/2019							1.3	2.3
10/15/2019	0.0067 (J)	<0.015	<0.015	0.006 (J)	0.01 (J)			
10/16/2019							1.1	2.3
10/17/2019						<0.04		
12/3/2019						0.0063 (J)		
3/3/2020	0.0082 (J)	<0.015	<0.015	<0.015	<0.015	0.0075 (J)		
3/5/2020							1.5	2.1
9/15/2020	<0.015	<0.015	<0.015	<0.015	<0.015			
9/16/2020						0.0066 (J)	1.1	2.2
3/1/2021	<0.015				<0.015			
3/2/2021		<0.015	0.0053 (J)	0.0071 (J)				
3/3/2021							1.1	2.1
3/4/2021						<0.04		
9/21/2021			<0.015	<0.015				
9/22/2021	<0.015	<0.015			<0.015	0.02 (J)	1.1	2.2
2/1/2022	<0.015	<0.015	<0.015	<0.015	<0.015	0.013 (J)	1.1	2.2
8/23/2022	0.00592 (J)	0.00532 (J)	<0.015	0.00538 (J)	<0.015		0.975	
8/24/2022						0.0273		2.45
1/24/2023	<0.015	<0.015	<0.015	<0.015	<0.015	0.0326	1.19	2.21
8/31/2023	0.00649 (J)	0.00738 (J)	0.0073 (J)	0.00764 (J)	0.00611 (J)			
9/1/2023							0.946	1.9
9/6/2023						0.0601		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 10/23/2023 10:51 AM View: Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-13S	PZ-53D	PZ-52D	PZ-70I
9/7/2016	1.06	0.725		1.73				
9/26/2016					<0.015			
11/17/2016	0.967							
11/18/2016		0.831						
11/21/2016				2.02				
2/22/2017	1.35							
2/23/2017		0.949	<0.015	1.77				
4/17/2017			<0.015					
5/15/2017			<0.015					
6/15/2017	1.49	0.961	<0.015	1.78				
9/28/2017	1.27	0.948	<0.015	1.45				
2/15/2018	1.58	1.11	<0.015	2.09				
6/27/2018	1.7 (J+X)							
6/28/2018		0.89	<0.015 (X)	1.5				
12/19/2018	1.8	1.1	<0.015					
12/20/2018				1.7				
1/15/2019					<0.015			
3/19/2019		1						
3/20/2019	1.7		0.004 (J)	1.5				
10/16/2019	2.2		0.0055 (J)	1.5				
10/17/2019		1.1						
10/22/2019					0.0098 (J)			
12/3/2019		1						
3/5/2020	1.9	1.1	0.0076 (J)	1.6				
9/16/2020	1.9	0.99	0.0062 (J)					
9/17/2020				1.4				
3/3/2021		1	<0.015					
3/4/2021	1.9			1.5				
9/22/2021		1.1						
9/23/2021	2		<0.015	1.4				
2/1/2022	2.1	1		1.6				
2/2/2022			0.032 (J)					
8/23/2022			<0.015	1.67	<0.015	1.04		
8/24/2022	2.23	1.1						
9/1/2022							0.0403	1.2
1/24/2023	2.23							
1/25/2023		1.18	<0.015	1.63		1.11	0.0362	
1/26/2023					0.0104 (J)			1.04
8/31/2023			0.00802 (J)		0.00855 (J)			
9/6/2023						1.06		
9/7/2023	2.36	1.04		1.37			0.0668	1.01

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/23/2023 10:51 AM View: Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-17S	BRGWC-33S	BRGWC-34S
8/31/2016	<0.001	<0.001	<0.001	<0.001				
9/1/2016					<0.001			
9/7/2016						<0.001	0.0005 (J)	
9/8/2016								<0.001
11/15/2016				<0.001	<0.001			
11/16/2016	<0.001	<0.001	<0.001					
11/17/2016						<0.001	0.0005 (J)	0.0009 (J)
2/20/2017			<0.001	<0.001	<0.001			
2/21/2017	<0.001	<0.001						
2/22/2017						<0.001	0.0006 (J)	0.0005 (J)
6/12/2017	<0.001		<0.001	<0.001	<0.001			
6/13/2017		<0.001						
6/14/2017							0.0004 (J)	0.0004 (J)
6/15/2017						<0.001		
9/26/2017	<0.001	<0.001	<0.001	<0.001	<0.001			
9/27/2017							0.0004 (J)	0.0007 (J)
9/28/2017						<0.001		
2/13/2018	<0.001	<0.001	<0.001	<0.001	<0.001			
2/15/2018						<0.001	<0.001	<0.001
6/26/2018	<0.001	<0.001	<0.001	<0.001	<0.001			
6/27/2018						<0.001	0.00038 (J)	0.00017 (J)
12/18/2018	<0.001	<0.001	<0.001	<0.001	<0.001		0.00046 (J)	0.00023 (J)
12/19/2018						<0.001		
8/27/2019	<0.001	<0.001	<0.001	<0.001	<0.001		0.00032 (J)	
8/28/2019						<0.001	0.00032 (J)	0.00025 (J)
10/15/2019	<0.001	<0.001	<0.001	<0.001	<0.001			
10/16/2019							0.00039 (J)	0.0004 (J)
10/17/2019						<0.001		
12/3/2019						<0.001		
3/3/2020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		
3/5/2020							0.00038 (J)	0.00018 (J)
8/18/2020	<0.001	<0.001	<0.001	<0.001	<0.001			
8/19/2020						<0.001	0.00029 (J)	0.00018 (J)
9/15/2020	<0.001	<0.001	<0.001	<0.001	<0.001			
9/16/2020						<0.001	0.00032 (J)	0.00017 (J)
3/1/2021	<0.001				<0.001			
3/2/2021		<0.001	<0.001	<0.001				
3/3/2021							0.00022 (J)	0.00015 (J)
3/4/2021						<0.001		
9/21/2021			<0.001	<0.001				
9/22/2021	<0.001	<0.001			<0.001	<0.001	0.00019 (J)	0.00033 (J)
2/1/2022	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.00023 (J)	0.00012 (J)
8/23/2022	<0.001	<0.001	<0.001	<0.001	<0.001		0.000509 (J)	
8/24/2022						<0.001		0.000517 (J)
1/24/2023	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.000482 (J)	<0.001
8/31/2023	<0.001	<0.001	<0.001	<0.001	<0.001		0.000533 (J)	<0.001
9/6/2023						<0.001		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/23/2023 10:51 AM View: Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-13S	PZ-53D	PZ-52D	PZ-70I
9/7/2016	<0.001	8E-05 (J)		0.0004 (J)				
11/17/2016	<0.001							
11/18/2016		<0.001						
11/21/2016				0.0005 (J)				
2/22/2017	<0.001							
2/23/2017		0.0001 (J)	<0.001	0.0007 (J)				
4/17/2017			<0.001					
5/15/2017			<0.001					
6/15/2017	<0.001	<0.001	<0.001	0.0006 (J)				
9/28/2017	<0.001	<0.001	<0.001	0.0007 (J)				
2/15/2018	<0.001	<0.001	<0.001	0.00069 (J)				
6/27/2018	<0.001							
6/28/2018		<0.001	<0.001	0.00056 (J)				
12/19/2018	<0.001	<0.001 (X)	<0.001					
12/20/2018				<0.001 (X)				
1/15/2019					0.00011 (J)			
8/28/2019	<0.001	<0.001	<0.001					
8/29/2019				0.00053 (J)				
10/16/2019	<0.001		<0.001	0.00057 (J)				
10/17/2019		<0.001						
10/22/2019					<0.001			
12/3/2019		<0.001						
3/5/2020	<0.001	<0.001	<0.001	0.00059 (J)				
8/19/2020	<0.001	<0.001	<0.001	0.00056 (J)				
9/16/2020	<0.001	<0.001	<0.001					
9/17/2020				0.0005 (J)				
3/3/2021		<0.001	<0.001					
3/4/2021	<0.001			0.00042 (J)				
9/22/2021		<0.001						
9/23/2021	<0.001		<0.001	0.00048 (J)				
2/1/2022	<0.001	<0.001		0.00058				
2/2/2022			<0.001					
8/23/2022			<0.001	0.000459 (J)	<0.001	<0.001		
8/24/2022	<0.001	<0.001						
9/1/2022								<0.001
1/24/2023	<0.001							
1/25/2023		<0.001	<0.001	0.00043 (J)		<0.001	<0.001	
1/26/2023					<0.001			<0.001
8/31/2023			<0.001		<0.001			
9/6/2023	<0.001	<0.001		0.00041 (J)		<0.001	<0.001	<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Calcium (mg/L) Analysis Run 10/23/2023 10:51 AM View: Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-17S	BRGWC-33S	BRGWC-34S
8/31/2016	12.6	4.09	13.5	19.6				
9/1/2016					3.3			
9/7/2016						26.3	53.4	
9/8/2016								97.3
11/15/2016				21.7	3.44			
11/16/2016	12.1	4.25	14.9					
11/17/2016						31.8	41.3	97.6
2/20/2017			13.9	21.1	3.52			
2/21/2017	11.4	4.02						
2/22/2017						33.5	53.1	106
6/12/2017	9.34		13.7	21.5	3.11			
6/13/2017		3.84						
6/14/2017							47.1	98
6/15/2017						29		
9/26/2017	14.3	3.31	14.4	24	3.15			
9/27/2017							49.5	95.8
9/28/2017						34.1		
2/13/2018	<25	3.94	<25	<25	3.65			
2/15/2018						33.8	50.9	100
6/26/2018	16 (J)	3.6	13.5 (J)	23.5 (J)	3.3			
6/27/2018						34.1	55.1	90.1
12/18/2018	14.5 (J)	3.8	16.4 (J)	19.8 (J)	3.5		52.7	85.1
12/19/2018						33.1		
3/19/2019	14.3 (JD)	3.9	12.3 (J)	21.4 (J)	3.6	31.6		
3/20/2019							51.4	82
10/15/2019	15.1	3.7	14.4	20	3.5			
10/16/2019							46.5	78.2
12/3/2019						37.7		
3/3/2020	20	4	14.9	23.2	5	29.7		
3/5/2020							48.1	89.6
9/15/2020	14.1	3.9	12.7	16.8	3.7			
9/16/2020						37.9	37.9	77.7
3/1/2021	15.4				4.2			
3/2/2021		4	13.2	16.8				
3/3/2021							37.5	88.6
3/4/2021						41.2		
9/21/2021			14.1	19.1				
9/22/2021	15.9	4.3			4.1	36.4	28.9	76.9
2/1/2022	14.4	4.4	14.5	19.1	4.2	41.5	34.3	81.7
8/23/2022	13.9	4.65	14.3	18.2	3.97		119	
8/24/2022						43.6		75
1/24/2023	14.2	4.86	15.8	19.4	3.9	41.3	116	80
8/31/2023	12.6	5.02	14.3	14.9	3.79			
9/1/2023							135	83.4
9/7/2023						47.9		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Calcium (mg/L) Analysis Run 10/23/2023 10:51 AM View: Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-13S	PZ-53D	PZ-52D	PZ-70I
9/7/2016	54.1	50.6		45.9				
11/17/2016	62.6							
11/18/2016		53.9						
11/21/2016				46.4				
2/22/2017	64.6							
2/23/2017		51	3.26	43.5				
4/17/2017			3.23					
5/15/2017			2.97 (B-01)					
6/15/2017	61.3	53.8	3.15	45.3				
9/28/2017	60.8	51.8	3.26	45.1				
2/15/2018	56.6	50.1	3.39	45.3				
6/27/2018	66.2							
6/28/2018		51	3.1	45.9				
12/19/2018	64.4	57.1	3.6					
12/20/2018				41.8				
1/15/2019					23.5 (J)			
3/19/2019		49.5						
3/20/2019	61.8		3.3	38.2				
10/16/2019	61.2		3.4	38.4				
10/22/2019					14.8			
12/3/2019		47.8						
3/5/2020	69.9	51.7	3.7	39.8				
9/16/2020	61.8	45.9	3.2					
9/17/2020				33.1				
3/3/2021		53	3.6					
3/4/2021	71.8			41				
9/22/2021		53.7						
9/23/2021	70.5		3.7	36.8				
2/1/2022	73.8	49.7		37.8				
2/2/2022			3.7					
8/23/2022			3.7	37.1	9.69	76.4		
8/24/2022	68.5	48.1						
9/1/2022							69	42.6
1/24/2023	67.5							
1/25/2023		48.2	3.65	32.8		78.5	46.3	
1/26/2023					16.8			33.4
8/31/2023			3.47		8.74			
9/6/2023		43.4				74.4		
9/7/2023	71.4			28.7			46.7	31.4

Time Series

Constituent: Chloride (mg/L) Analysis Run 10/23/2023 10:51 AM View: Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-17S	BRGWC-33S	BRGWC-34S
8/31/2016	2.3	2	4.4	3.6				
9/1/2016					2.5			
9/7/2016						3.7	5.3	
9/8/2016								7.2
11/15/2016				4	2.3			
11/16/2016	2	1.8	4.4					
11/17/2016						4.05 (D)	5.45 (D)	7.8 (D)
2/20/2017			4.8	3.9	2.4			
2/21/2017	2	1.8						
2/22/2017						3.6	0.12 (J)	7.1
6/12/2017	2.1		4.2	3.8	2.2			
6/13/2017		1.7						
6/14/2017							4.5	7.3
6/15/2017						3.7		
9/26/2017	2	1.8	4.4	4.1	2.3			
9/27/2017							5.4	7.6
9/28/2017						4.1		
2/13/2018	2.1	1.7	4.7	4.1	2.3			
2/15/2018						5.3	6.3	7.2
6/26/2018	2.4	2.2	4.5	4.1	2.6			
6/27/2018						4.2	4.5	7.1
12/18/2018	1.8	1.9	4.5	3.8	2.3		6.1	7.1
12/19/2018						4.9 (J-X)		
3/19/2019	2.45 (D)	2	4.5	4.2	2.6	5		
3/20/2019							6.2	6.9
10/15/2019	2.2	1.9	4.2	3.7	2.4			
10/16/2019							5.4	7.3
12/3/2019						4.8		
3/3/2020	1.9	1.9	3.9	3.6	2.9	3.8		
3/5/2020							4.8	6.4
9/15/2020	1.9	1.7	3.7	3.7	2.3			
9/16/2020						4.2	4.1	6.6
3/1/2021	1.8				2.1			
3/2/2021		1.7	3.8	3.7				
3/3/2021							3.9	6.4
3/4/2021						4.6		
9/21/2021			3.2	3.2				
9/22/2021	1.7	1.5			2.1	4.6	2.7	5.6
2/1/2022	1.8	1.6	3.5	3.4	2.1	4.9	13.1	5.9
8/23/2022	2.02	2.18	3.64	3.59	2.39		30.3	
8/24/2022						5		6.17
1/24/2023	2.09	2.16	3.93	3.56	2.3	6.31	29	7.5
8/23/2023	1.9	2.14	3.53	3.37	2.34			
8/24/2023						5.18	32.7	13.2

Time Series

Constituent: Chloride (mg/L) Analysis Run 10/23/2023 10:51 AM View: Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-13S	PZ-53D	PZ-52D	PZ-70I
9/7/2016	5.8	3.1		5.8				
11/17/2016	6.1 (D)							
11/18/2016		3.95 (D)						
11/21/2016				5.05 (D)				
2/22/2017	5.6							
2/23/2017		3.2	2.1	4.1				
4/17/2017			1.8					
5/15/2017			1.8					
6/15/2017	5.8	4	1.9	4.8				
9/28/2017	6.2	4.6	1.9	6.7				
2/15/2018	6.2	5.4	2.3	8				
6/27/2018	5.9							
6/28/2018		9 (J-X)	2.1 (J-X)	5.5 (J-X)				
12/19/2018	6.2 (J-X)	6.2 (J-X)	1.9 (J-X)					
12/20/2018				8 (J-X)				
1/15/2019					2.4			
3/19/2019		7.1						
3/20/2019	6.6		2.3	6.6				
10/16/2019	6.6		2.3	6.4				
10/22/2019					2.1			
12/3/2019		7.7						
3/5/2020	5.8	7.6	1.8	5.8				
9/16/2020	6	7.9	1.8					
9/17/2020				6.1				
3/3/2021		8.1	1.9					
3/4/2021	5.8			5.6				
9/22/2021		7.1						
9/23/2021	6.1		1.9	6				
2/1/2022	6	7.6		5.8				
2/2/2022			1.8					
8/23/2022			1.97	6.42	4.2	4.94		
8/24/2022	6.53	7.96						
9/1/2022							6.24	10.8
1/24/2023	6.46							
1/25/2023		7.93	1.92	6.53		4.66		
1/26/2023					3.36		12.3	5.37
8/23/2023			1.89		2.73			
8/24/2023	6.21	8.26		6.44			6.9	5.75
8/25/2023						4.43		

Time Series

Constituent: Chromium (mg/L) Analysis Run 10/23/2023 10:51 AM View: Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-17S	BRGWC-33S	BRGWC-34S
8/31/2016	0.001 (J)	0.0034 (J)	0.0058 (J)	0.0028 (J)				
9/1/2016					0.0147			
9/7/2016						0.01 (J)	<0.01	
9/8/2016								<0.01
11/15/2016				0.003 (J)	0.0154 (B)			
11/16/2016	<0.01	0.0029 (J)	0.0051 (J)					
11/17/2016						0.0185	<0.01	<0.01
2/20/2017			0.0049 (J)	0.0047 (J)	0.014			
2/21/2017	<0.01	0.0036 (J)						
2/22/2017						0.0122	<0.01	<0.01
6/12/2017	0.0005 (J)		0.0052 (J)	0.0041 (J)	0.016			
6/13/2017		0.0038 (J)						
6/14/2017							<0.01	<0.01
6/15/2017						0.0117		
9/26/2017	0.0005 (J)	0.0045 (J)	0.0039 (J)	0.0037 (J)	0.0144			
9/27/2017							<0.01	<0.01
9/28/2017						0.0114		
2/13/2018	<0.01	<0.01	<0.01	<0.01	0.0144			
2/15/2018						0.011	<0.01	<0.01
6/26/2018	<0.01	0.008 (J)	0.0053 (J)	0.0043 (J)	0.015			
6/27/2018						0.0098 (J)	<0.01	<0.01
12/18/2018	<0.01	0.012	0.0032 (J)	0.0054 (J)	0.015		<0.01	<0.01
12/19/2018						0.0095 (J)		
8/27/2019	0.0004 (J)	0.0083 (J)	0.0055 (J)	0.0043 (J)	0.015		<0.01	
8/28/2019						0.013	<0.01	<0.01
10/15/2019	<0.01	0.0083 (J)	0.0047 (J)	0.0055 (J)	0.014			
10/16/2019							0.00049 (J)	<0.01
12/3/2019						0.011		
3/3/2020	0.00047 (J)	0.0098 (J)	0.0069 (J)	0.0057 (J)	0.011	0.0081 (J)		
3/5/2020							<0.01	<0.01
8/18/2020	0.00096 (J)	0.0085 (J)	0.0069 (J)	0.005 (J)	0.015			
8/19/2020						0.012	<0.01	<0.01
9/15/2020	<0.01	0.0082 (J)	0.0069 (J)	0.0048 (J)	0.014			
9/16/2020						0.012	<0.01	<0.01
3/1/2021	<0.01				0.011			
3/2/2021		0.0074	0.0064	0.0044 (J)				
3/3/2021							<0.01	<0.01
3/4/2021						0.01		
9/21/2021			0.0064	0.0044 (J)				
9/22/2021	<0.01	0.0091			0.014	0.0091	<0.01	<0.01
2/1/2022	0.0013 (J)	0.0092	0.0066	0.0052	0.015	0.013	<0.01	<0.01
8/23/2022	<0.01	0.00908 (J)	0.00647 (J)	0.00435 (J)	0.0143		<0.01	
8/24/2022						0.0127		<0.01
1/24/2023	<0.01	0.0095 (J)	0.00513 (J)	0.00572 (J)	0.0139	0.00886 (J)	<0.01	<0.01
8/31/2023	<0.01	0.00921 (J)	0.00701 (J)	0.00472 (J)	0.0132		<0.01	<0.01
9/6/2023						0.0115		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 10/23/2023 10:51 AM View: Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-13S	PZ-53D	PZ-52D	PZ-70I
9/7/2016	0.0019 (J)	0.0073 (J)		0.0014 (J)				
11/17/2016	0.0024 (J)							
11/18/2016		0.008 (J)						
11/21/2016				0.003 (J)				
2/22/2017	0.004 (J)							
2/23/2017		0.0086 (J)	0.001 (J)	0.0028 (J)				
4/17/2017			0.0018 (J)					
5/15/2017			0.0014 (J)					
6/15/2017	0.0033 (J)	0.0082 (J)	0.0013 (J)	0.0038 (J)				
9/28/2017	0.0052 (J)	0.0083 (J)	0.0014 (J)	0.0037 (J)				
2/15/2018	<0.01	0.0086 (J)	<0.01	0.0044 (J)				
6/27/2018	0.0062 (J)							
6/28/2018		0.0076 (J)	<0.01	0.0041 (J)				
12/19/2018	0.0073 (J)	0.0085 (J)	<0.01					
12/20/2018				0.0041 (J)				
1/15/2019					0.025			
8/28/2019	0.0071 (J)	0.0078 (J)	0.0017 (J)					
8/29/2019				0.0044 (J)				
10/16/2019	0.0064 (J)		0.0014 (J)	0.0038 (J)				
10/22/2019					0.02			
12/3/2019		0.007 (J)						
3/5/2020	0.0076 (J)	0.0087 (J)	0.0016 (J)	0.0038 (J)				
8/19/2020	0.0073 (J)	0.0094 (J)	0.0017 (J)	0.0043 (J)				
9/16/2020	0.0058 (J)	0.0064 (J)	0.0018 (J)					
9/17/2020				0.0042 (J)				
3/3/2021		0.0067	0.0014 (J)					
3/4/2021	0.0053			0.004 (J)				
9/22/2021		0.0065						
9/23/2021	0.0065		0.0016 (J)	0.004 (J)				
2/1/2022	0.0056	0.0068		0.0035 (J)				
2/2/2022			0.0015 (J)					
8/23/2022			<0.01	0.00398 (J)	0.0128	<0.01		
8/24/2022	0.00752 (J)	0.00713 (J)						
9/1/2022								<0.01
1/24/2023	0.00524 (J)							
1/25/2023		0.00682 (J)	<0.01	0.00362 (J)		<0.01	<0.01	
1/26/2023					0.0153			<0.01
8/31/2023			<0.01		0.0111			
9/6/2023	0.00592 (J)	0.00649 (J)		0.00338 (J)		<0.01	<0.01	<0.01

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/23/2023 10:51 AM View: Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-17S	BRGWC-33S	BRGWC-34S
8/31/2016	0.0016 (J)	0.0034 (J)	0.0013 (J)	<0.001				
9/1/2016					<0.001			
9/7/2016						<0.001	0.0612	
9/8/2016								0.0029 (J)
11/15/2016				<0.001	<0.001			
11/16/2016	0.0006 (J)	0.003 (J)	<0.01 (o)					
11/17/2016						<0.001	0.0551	0.0028 (J)
2/20/2017			0.0012 (J)	0.0009 (J)	<0.001			
2/21/2017	<0.005	0.0028 (J)						
2/22/2017						<0.001	0.0567	0.0041 (J)
6/12/2017	<0.005		0.0011 (J)	0.0006 (J)	0.0003 (J)			
6/13/2017		0.0025 (J)						
6/14/2017							0.0557	0.0036 (J)
6/15/2017						<0.001		
9/26/2017	<0.005	0.002 (J)	0.0016 (J)	0.0005 (J)	0.0003 (J)			
9/27/2017							0.049	0.0028 (J)
9/28/2017						<0.001		
2/13/2018	<0.005	<0.005	<0.01 (o)	<0.001	<0.001			
2/15/2018						<0.001	0.0536	<0.01
6/26/2018	<0.005	0.0019 (J)	0.0009 (J)	0.00052 (J)	<0.001			
6/27/2018						<0.001	0.054	0.0041 (J)
12/18/2018	<0.005	0.0032 (J)	0.00062 (J)	<0.001	<0.001		0.049	0.0032 (J)
12/19/2018						<0.001		
8/27/2019	<0.005	0.0012 (J)	0.00068 (J)	0.00042 (J)	<0.001		0.045	
8/28/2019						<0.001	0.045	0.0037 (J)
10/15/2019	<0.005	0.00097 (J)	0.00083 (J)	<0.001	<0.001			
10/16/2019							0.042	0.0043 (J)
10/17/2019						<0.001		
12/3/2019						<0.001		
3/3/2020	<0.005	0.0015 (J)	0.00043 (J)	<0.001	0.0011 (J)	<0.001		
3/5/2020							0.037	0.0031 (J)
8/18/2020	<0.005	0.0014 (J)	0.00048 (J)	<0.001	0.00061 (J)			
8/19/2020						<0.001	0.036	0.0041 (J)
9/15/2020	<0.005	0.001 (J)	0.0005 (J)	<0.001	<0.001			
9/16/2020						<0.001	0.034	0.0042 (J)
3/1/2021	<0.005				<0.001			
3/2/2021		0.001 (J)	0.00053 (J)	<0.001				
3/3/2021							0.028	0.0046 (J)
3/4/2021						<0.001		
9/21/2021			0.00071 (J)	<0.001				
9/22/2021	0.0015 (J)	<0.005			0.00078 (J)	<0.001	0.024	0.0075
2/1/2022	0.00079 (J)	0.0011 (J)	0.0007 (J)	<0.001	<0.001	<0.001	0.027	0.0044 (J)
8/23/2022	0.000767 (J)	0.000844 (J)	0.000553 (J)	<0.001	<0.001		0.0639	
8/24/2022						<0.001		0.00438
1/24/2023	0.00154	0.000829 (J)	0.000677 (J)	<0.001	<0.001	<0.001	0.0582	0.00351
8/31/2023	0.000707 (J)	0.000707 (J)	0.000474 (J)	0.000327 (J)	<0.001		0.0659	0.00384
9/6/2023						<0.001		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/23/2023 10:51 AM View: Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-13S	PZ-53D	PZ-52D	PZ-70I
9/7/2016	0.0023 (J)	<0.001		0.236				
11/17/2016	0.0012 (J)							
11/18/2016		<0.001						
11/21/2016				0.298				
2/22/2017	0.0008 (J)							
2/23/2017		<0.001	<0.001	0.277				
4/17/2017			<0.001					
5/15/2017			<0.001					
6/15/2017	0.0004 (J)	<0.001	<0.001	0.262				
9/28/2017	0.0003 (J)	<0.001	<0.001	0.279				
2/15/2018	<0.001	<0.001	<0.001	0.279				
6/27/2018	<0.001							
6/28/2018		<0.001	<0.001	0.23				
12/19/2018	<0.001	<0.001	<0.001					
12/20/2018				0.25				
1/15/2019					<0.001			
8/28/2019	<0.001	<0.001	<0.001					
8/29/2019				0.21				
10/16/2019	<0.001		<0.001	0.21				
10/17/2019		<0.001						
10/22/2019					0.00037 (J)			
12/3/2019		<0.001						
3/5/2020	<0.001	<0.001	<0.001	0.22				
8/19/2020	<0.001	<0.001	<0.001	0.22				
9/16/2020	<0.001	<0.001	<0.001					
9/17/2020				0.2				
3/3/2021		<0.001	<0.001					
3/4/2021	<0.001			0.2				
9/22/2021		<0.001						
9/23/2021	<0.001		<0.001	0.17				
2/1/2022	<0.001	<0.001		0.18				
2/2/2022			<0.001					
8/23/2022			<0.001	0.173	<0.001	<0.001		
8/24/2022	<0.001	<0.001						
9/1/2022							0.0015	0.0056
1/24/2023	<0.001							
1/25/2023		<0.001	<0.001	0.158		<0.001	0.00249	
1/26/2023					<0.001			0.000682 (J)
8/31/2023			<0.001		<0.001			
9/6/2023	<0.001	<0.001		0.139		<0.001	0.000307 (J)	0.000784 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/23/2023 10:51 AM View: Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-17S	BRGWC-33S	BRGWC-34S
8/31/2016	0.351 (U)	1 (U)	0.62 (U)	0.603 (U)				
9/1/2016					1.33			
9/7/2016						1.18	0.541 (U)	
9/8/2016								0.998 (U)
11/15/2016				0.645 (U)	0.412 (U)			
11/16/2016	0.824 (U)	0.43 (U)	0.493 (U)					
11/17/2016						0.145 (U)	1.02 (U)	0.613
2/20/2017			0.534 (U)	1.36	0.633 (U)			
2/21/2017	1.01 (U)	0.96 (U)						
2/22/2017						0.0213 (U)	0.482 (U)	1.01 (U)
6/12/2017	0.532 (U)		0.254 (U)	0.566 (U)	0.112 (U)			
6/13/2017		0.645 (U)						
6/14/2017							0.723 (U)	0.801 (U)
6/15/2017						0.41 (U)		
9/26/2017	0.845 (U)	0.299 (U)	0.62 (U)	0.762 (U)	0.167 (U)			
9/27/2017							1.5	1.44
9/28/2017						0.496 (U)		
2/13/2018	0.176 (U)	1.01 (U)	0.0914 (U)	0.349 (U)	0.347 (U)			
2/15/2018						0.672 (U)	1.14 (U)	0.668 (U)
6/26/2018	1.02 (U)	1.26 (J+X)	1.11 (U)	0.614 (U)	0.903 (U)			
6/27/2018						0.692 (U)	1.3 (U)	1.06 (U)
12/18/2018	0.487 (U)	0.44 (U)	0.42 (U)	0.445 (U)	0.353 (U)		1.64 (UX)	1.22
12/19/2018						0.325 (U)		
8/27/2019	1.11	1.47	1.19	1.44	0.65 (U)		1.38	
8/28/2019						0.24 (U)		0.811 (U)
10/15/2019	1.02 (U)	0.807 (U)	0.714 (U)	0.467 (U)	0.402 (U)			
10/16/2019							1.16 (U)	0.561 (U)
12/18/2019						1.16 (U)		
3/3/2020	1.18 (U)	0.818 (U)	0.996 (U)	1.5	0.397 (U)	0.756 (U)		
3/5/2020							0.683 (U)	0.792 (U)
8/18/2020	0.0861 (U)	1.22 (U)	0.53 (U)	0.581 (U)	0.453 (U)			
8/19/2020						0.985 (U)	1.14 (U)	1.21 (U)
9/15/2020	0.0583 (U)	0.579 (U)	0.215 (U)	0.55 (U)	0.474 (U)			
9/16/2020						0.478 (U)	0.195 (U)	0.72 (U)
3/1/2021	0.127 (U)				0.215 (U)			
3/2/2021		0.342 (U)	0.409 (U)	0.362 (U)				
3/3/2021							0.708 (U)	1.12
3/4/2021						0.38 (U)		
9/21/2021			0.182 (U)	0.86 (U)				
9/22/2021	0.349 (U)	1.33 (U)			0.943 (U)	0.734 (U)	0.382 (U)	0.91 (U)
2/1/2022	0.233 (U)	0.251 (U)	1.23	0.23 (U)	0.349 (U)	0.503 (U)	0.583 (U)	0.535 (U)
8/23/2022	1.7	0.531	2.3	0.735	0.203		1.94	
8/24/2022						0.152		1.86
1/24/2023	2.05 (U)	1.35 (U)	0.811 (U)	0.402 (U)	1.55 (U)	0.728 (U)	3.31 (U)	2.14 (U)
9/20/2023						1.92 (U)		
9/22/2023	0.857 (U)	0.592 (U)	1.36	1.31 (U)	1.89 (U)		0.521 (U)	1.06 (U)

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/23/2023 10:51 AM View: Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-13S	PZ-53D	PZ-52D	PZ-70I
9/7/2016	0.189 (U)	0.638 (U)		0.816 (U)				
11/17/2016	0.729 (U)							
11/18/2016		1.22 (U)						
11/21/2016				2.94				
2/22/2017	0.293 (U)							
2/23/2017		0.554 (U)	0.567 (U)	1.92				
4/17/2017			0.335 (U)					
5/15/2017			0.261 (U)					
6/15/2017	1.09	0.77 (U)	0.188 (U)	3.6				
9/28/2017	1.02 (U)	1.07 (U)	0.627 (U)	3.3				
2/15/2018	0.742 (U)	0.751 (U)	0.869 (U)	2.31 (J+X)				
6/27/2018	0.739 (U)							
6/28/2018		0.392 (U)	0.336 (U)	1.75 (UX)				
12/19/2018	0.465 (U)	0.693 (U)	0.454 (U)					
12/20/2018				2.8 (J+X)				
1/15/2019					<0.983			
8/28/2019	0.995 (U)	0.866 (U)	0.809 (U)					
8/29/2019				3.68				
10/16/2019	1.69		0.815 (U)	2.66				
10/22/2019					0.631 (U)			
12/18/2019		1.91						
3/5/2020	0.858 (U)	1.3	0.791 (U)	2.21				
8/19/2020	0.162 (U)	1.4	0.582 (U)	3.17				
9/16/2020	1.25 (U)	1.17 (U)	0.844 (U)					
9/17/2020				2.92				
3/3/2021		0.307 (U)	1.12					
3/4/2021	0.461 (U)			1.99				
9/22/2021		0.808 (U)						
9/23/2021	0.394 (U)		0.078 (U)	1.4				
2/1/2022	0.672 (U)	1.61 (U)		7.64				
2/2/2022			0.654 (U)					
8/23/2022			2.37	3.12	1.83	3.04		
8/24/2022	3.1	1.38						
9/1/2022								1.57
1/24/2023	3.34							
1/25/2023		4.86	1.67 (U)	3.79		2.1 (U)		
1/26/2023					4.77			1.81 (U)
2/2/2023							5.39	
9/20/2023	3.33	3.87		5.98				4.35
9/22/2023			0.578 (U)		0.823 (U)			
9/26/2023						3.67	1.14 (U)	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 10/23/2023 10:51 AM View: Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-17S	BRGWC-33S	BRGWC-34S
8/31/2016	0.11 (J)	0.05 (J)	0.07 (J)	0.19 (J)				
9/1/2016					0.06 (J)			
9/7/2016						0.22 (J)	0.19 (J)	
9/8/2016								0.17 (J)
11/15/2016				0.13 (J)	0.06 (J)			
11/16/2016	0.08 (J)	0.07 (J)	0.07 (J)					
11/17/2016						0.12 (J)	0.12 (J)	0.06 (J)
2/20/2017			0.06 (J)	0.08 (J)	0.04 (J)			
2/21/2017	0.14 (J)	0.05 (J)						
2/22/2017						0.11 (J)	0.21 (J)	0.17 (J)
6/12/2017	0.16 (J)		0.008 (J)	0.07 (J)	0.06 (J)			
6/13/2017		0.04 (J)						
6/14/2017							0.18 (J)	0.1 (J)
6/15/2017						0.05 (J)		
9/26/2017	0.14 (J)	<0.1	<0.1	0.04 (J)	<0.1			
9/27/2017							0.42	0.4
9/28/2017						0.05 (J)		
2/13/2018	<0.1	<0.1	<0.1	<0.1	<0.1			
2/15/2018						<0.3	0.42	<0.3
6/26/2018	0.085 (J)	0.048 (J)	0.045 (J)	0.072 (J)	0.041 (J)			
6/27/2018						0.093 (J)	0.32	0.21 (J)
12/18/2018	0.085 (J)	<0.1	<0.1	<0.1	<0.1		0.28 (J)	0.12 (J)
12/19/2018						0.16 (J)		
3/19/2019	0.0655 (JD)	0.037 (J)	<0.1	0.06 (J)	0.03 (J)	0.1 (J)		
3/20/2019							0.14 (J)	0.074 (J)
8/27/2019	<0.1	<0.1	<0.1	<0.1	<0.1		0.11 (J)	
8/28/2019						0.085 (J)	0.11 (J)	0.057 (J)
10/15/2019	<0.1	<0.1	<0.1	0.045 (J)	<0.1			
10/16/2019							0.17 (J)	0.13 (J)
12/3/2019						0.2 (J)		
3/3/2020	0.066 (J)	0.05 (J)	<0.1	0.057 (J)	0.09 (J)	0.093 (J)		
3/5/2020							0.088 (J)	0.072 (J)
8/18/2020	<0.1	<0.1	<0.1	<0.1	<0.1			
8/19/2020						0.1	0.11	0.074 (J)
9/15/2020	<0.1	<0.1	<0.1	0.051 (J)	<0.1			
9/16/2020						0.1	0.085 (J)	0.077 (J)
3/1/2021	<0.1				<0.1			
3/2/2021		<0.1	<0.1	<0.1				
3/3/2021							0.069 (J)	0.071 (J)
3/4/2021						0.096 (J)		
9/21/2021			<0.1	0.056 (J)				
9/22/2021	<0.1	<0.1			<0.1	0.1	0.068 (J)	0.1
2/1/2022	<0.1	<0.1	<0.1	<0.1	<0.1	0.079 (J)	0.053 (J)	0.06 (J)
8/23/2022	<0.1	<0.1	<0.1	<0.1	<0.1		0.187	
8/24/2022						0.274		0.14
1/24/2023	<0.1	<0.1	0.149	0.158	0.12	0.216	0.193	0.122
8/23/2023	0.267	0.229	0.289	0.277	0.0787 (J)		0.123	
8/24/2023						0.484		0.0816 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 10/23/2023 10:51 AM View: Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-13S	PZ-53D	PZ-52D	PZ-70I
9/7/2016	0.34	0.18 (J)		0.66				
11/17/2016	0.14 (J)							
11/18/2016		0.03 (J)						
11/21/2016				0.9 (D)				
2/22/2017	0.09 (J)							
2/23/2017		0.07 (J)	0.1 (J)	0.75				
4/17/2017			0.08 (J)					
5/15/2017			0.02 (J)					
6/15/2017	0.03 (J)	0.01 (J)	0.03 (J)	0.77				
9/28/2017	<0.1	<0.1	<0.1	0.8				
2/15/2018	<0.1	<0.1	<0.1	0.82				
6/27/2018	0.22 (J)							
6/28/2018		0.51 (J+X)	<0.1	1.5 (J+X)				
12/19/2018	0.11 (J)	<0.1	0.094 (J)					
12/20/2018				0.68				
1/15/2019					0.06 (J)			
3/19/2019		<0.1						
3/20/2019	0.088 (J)		0.062 (J)	0.95				
8/28/2019	0.056 (J)	<0.1	<0.1					
8/29/2019				0.9				
10/16/2019	0.08 (J)		0.059 (J)	0.61				
10/22/2019					<0.1			
12/3/2019		0.15 (J)						
3/5/2020	0.067 (J)	<0.1	0.05 (J)	0.92				
8/19/2020	0.06 (J)	0.051 (J)	0.055 (J)	0.95				
9/16/2020	0.062 (J)	<0.1	<0.1					
9/17/2020				0.68				
3/3/2021		<0.1	<0.1					
3/4/2021	0.076 (J)			0.83				
9/22/2021		0.054 (J)						
9/23/2021	0.073 (J)		<0.1	0.85				
2/1/2022	0.055 (J)	<0.1		0.95				
2/2/2022			<0.1					
8/23/2022			0.105	0.609	0.128	0.164		
8/24/2022	<0.1	0.194						
9/1/2022							0.14	1.43
1/24/2023	0.239							
1/25/2023		0.183	0.114	0.708		0.282		
1/26/2023					<0.1		1.93	<0.2
8/23/2023			0.0445 (J)		<0.1			
8/24/2023	0.347			0.748			1.94	
8/25/2023		0.301				0.334		0.229

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 10/23/2023 10:51 AM View: Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-17S	BRGWC-33S	BRGWC-34S
8/31/2016	<0.002	<0.002	<0.002	<0.002				
9/1/2016					0.0001 (J)			
9/7/2016						<0.002	0.0002 (J)	
9/8/2016								<0.002
11/15/2016				<0.002	<0.002			
11/16/2016	<0.002	<0.002	<0.002					
11/17/2016						0.0001 (J)	0.0002 (J)	0.0001 (J)
2/20/2017			<0.002	0.0002 (J)	<0.002			
2/21/2017	<0.002	<0.002						
2/22/2017						<0.002	0.0001 (J)	0.0003 (J)
6/12/2017	8E-05 (J)		<0.002	0.0001 (J)	8E-05 (J)			
6/13/2017		<0.002						
6/14/2017							9E-05 (J)	<0.002
6/15/2017						<0.002		
9/26/2017	7E-05 (J)	7E-05 (J)	<0.002	0.0001 (J)	<0.002			
9/27/2017							7E-05 (J)	9E-05 (J)
9/28/2017						<0.002		
2/13/2018	<0.002	<0.002	<0.002	<0.002	<0.002			
2/15/2018						<0.002	<0.002	<0.002
6/26/2018	<0.002	<0.002	<0.002	<0.002	<0.002			
6/27/2018						<0.002	<0.002	<0.002
12/18/2018	<0.002	<0.002	<0.002	<0.002	<0.002		<0.002	<0.002
12/19/2018						<0.002		
8/27/2019	<0.002	5.8E-05 (J)	<0.002	0.00036 (J)	<0.002		0.00013 (J)	
8/28/2019						<0.002	0.00013 (J)	<0.002
10/15/2019	<0.002	<0.002	<0.002	7.9E-05 (J)	<0.002			
10/16/2019							8.8E-05 (J)	<0.002
12/3/2019						<0.002		
3/3/2020	<0.002	<0.002	<0.002	7.9E-05 (J)	7.3E-05 (J)	<0.002		
3/5/2020							8.7E-05 (J)	<0.002
8/18/2020	<0.002	<0.002	<0.002	0.0001 (J)	<0.002			
8/19/2020						<0.002	6E-05 (J)	<0.002
9/15/2020	<0.002	<0.002	0.0013 (J)	4.3E-05 (J)	<0.002			
9/16/2020						5.4E-05 (J)	6.3E-05 (J)	<0.002
3/1/2021	<0.002				<0.002			
3/2/2021		<0.002	3.7E-05 (J)	<0.002				
3/3/2021							5.8E-05 (J)	<0.002
3/4/2021						<0.002		
9/21/2021			<0.002	<0.002				
9/22/2021	<0.002	<0.002			<0.002	<0.002	<0.002	<0.002
2/1/2022	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
8/23/2022	<0.002	<0.002	<0.002	<0.002	<0.002		<0.002	
8/24/2022						<0.002		<0.002
1/24/2023	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
8/31/2023	<0.002	<0.002	<0.002	<0.002	<0.002		<0.002	<0.002
9/6/2023						<0.002		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 10/23/2023 10:51 AM View: Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-13S	PZ-53D	PZ-52D	PZ-70I
9/7/2016	0.0001 (J)	<0.002		0.0004 (J)				
11/17/2016	0.0002 (J)							
11/18/2016		<0.002						
11/21/2016				0.0005 (J)				
2/22/2017	0.0001 (J)							
2/23/2017		<0.002	<0.002	0.0005 (J)				
4/17/2017			0.0001 (J)					
5/15/2017			<0.002					
6/15/2017	<0.002	<0.002	<0.002	0.0004 (J)				
9/28/2017	<0.002	<0.002	0.0001 (J)	0.0004 (J)				
2/15/2018	<0.002	<0.002	<0.002	0.00047 (J)				
6/27/2018	<0.002							
6/28/2018		<0.002	<0.002	0.00036 (J)				
12/19/2018	<0.002	<0.002	<0.002					
12/20/2018				0.00039 (J)				
1/15/2019					<0.002			
8/28/2019	<0.002	<0.002	<0.002					
8/29/2019				0.00035 (J)				
10/16/2019	<0.002		<0.002	0.00035 (J)				
10/22/2019					0.00035 (J)			
12/3/2019		<0.002						
3/5/2020	<0.002	<0.002	<0.002	0.00041 (J)				
8/19/2020	<0.002	4.7E-05 (J)	<0.002	0.00031 (J)				
9/16/2020	0.00012 (J)	<0.002	<0.002					
9/17/2020				0.00032 (J)				
3/3/2021		<0.002	<0.002					
3/4/2021	<0.002			0.00034 (J)				
9/22/2021		<0.002						
9/23/2021	<0.002		<0.002	<0.002				
2/1/2022	<0.002	<0.002		<0.002				
2/2/2022			<0.002					
8/23/2022			<0.002	<0.002	<0.002	<0.002		
8/24/2022	<0.002	<0.002						
9/1/2022								<0.002
1/24/2023	<0.002							
1/25/2023		<0.002	<0.002	<0.002		<0.002	<0.002	
1/26/2023					<0.002			<0.002
8/31/2023			<0.002		<0.002			
9/6/2023	<0.002	<0.002		<0.002		<0.002	<0.002	<0.002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 10/23/2023 10:51 AM View: Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-17S	BRGWC-33S	BRGWC-34S
8/31/2016	0.0268 (J)	<0.01	<0.01	<0.01				
9/1/2016					0.003 (J)			
9/7/2016						<0.01	0.0092 (J)	
9/8/2016								<0.01
11/15/2016				<0.01	0.0033 (J)			
11/16/2016	0.0201 (J)	<0.01	0.0033 (J)					
11/17/2016						<0.01	0.0097 (J)	<0.01
2/20/2017			<0.01	<0.01	0.0025 (J)			
2/21/2017	0.0128 (J)	<0.01						
2/22/2017						<0.01	0.0106 (J)	<0.01
6/12/2017	0.0245 (J)		0.0019 (J)	<0.01	0.0027 (J)			
6/13/2017		<0.01						
6/14/2017							0.0097 (J)	<0.01
6/15/2017						<0.01		
9/26/2017	0.0549	<0.01	0.0022 (J)	<0.01	0.0023 (J)			
9/27/2017							0.0099 (J)	<0.01
9/28/2017						<0.01		
2/13/2018	0.0595	<0.01	0.0041 (J)	<0.01	0.0027 (J)			
2/15/2018						<0.01	0.0106 (J)	<0.01
6/26/2018	0.089	<0.01	0.0025 (J)	<0.01	0.0029 (J)			
6/27/2018						<0.01	0.01 (J)	<0.01
12/18/2018	0.024 (J)	<0.01	0.0032 (J)	<0.01	0.0026 (J)		0.011 (J)	<0.01
12/19/2018						<0.01		
8/27/2019	0.035	<0.01	0.0019 (J)	<0.01	0.0028 (J)		0.01 (J)	
8/28/2019						0.00097 (J)	0.01 (J)	0.0009 (J)
10/15/2019	0.028 (J)	<0.01	0.002 (J)	<0.01	0.0024 (J)			
10/16/2019							0.0098 (J)	0.00078 (J)
12/3/2019						0.001 (J)		
3/3/2020	0.055	<0.01	0.0013 (J)	<0.01	0.0026 (J)	<0.01		
3/5/2020							0.011 (J)	0.00089 (J)
8/18/2020	0.054	<0.01	0.00095 (J)	<0.01	0.0026 (J)			
8/19/2020						0.001 (J)	0.009 (J)	0.00082 (J)
9/15/2020	0.033	<0.01	0.001 (J)	<0.01	0.0027 (J)			
9/16/2020						0.00096 (J)	0.0089 (J)	<0.01
3/1/2021	0.027 (J)				0.0036 (J)			
3/2/2021		<0.01	0.00081 (J)	<0.01				
3/3/2021							0.0085 (J)	0.00096 (J)
3/4/2021						0.00086 (J)		
9/21/2021			0.0012 (J)	<0.01				
9/22/2021	0.021 (J)	<0.01			0.0035 (J)	0.0011 (J)	0.008 (J)	<0.01
2/1/2022	0.023 (J)	<0.01	0.0011 (J)	<0.01	0.0029 (J)	0.00096 (J)	0.0083 (J)	0.00085 (J)
8/23/2022	0.0262	<0.01	<0.01	<0.01	0.00314 (J)		0.0109	
8/24/2022						<0.01		<0.01
1/24/2023	0.00919 (J)	<0.01	<0.01	<0.01	0.00341 (J)	<0.01	0.0115	<0.01
8/31/2023	0.0209	<0.01	<0.01	<0.01	<0.01		0.00967 (J)	<0.01
9/6/2023						<0.01		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 10/23/2023 10:51 AM View: Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-13S	PZ-53D	PZ-52D	PZ-70I
9/7/2016	0.0021 (J)	0.0024 (J)		0.0193 (J)				
11/17/2016	0.0022 (J)							
11/18/2016		0.0026 (J)						
11/21/2016				0.0223 (J)				
2/22/2017	0.0023 (J)							
2/23/2017		0.0026 (J)	<0.01	0.0229 (J)				
4/17/2017			<0.01					
5/15/2017			<0.01					
6/15/2017	0.0023 (J)	0.0026 (J)	<0.01	0.0227 (J)				
9/28/2017	0.0021 (J)	0.0025 (J)	<0.01	0.023 (J)				
2/15/2018	0.0021 (J)	<0.01	<0.01	0.0254 (J)				
6/27/2018	0.0021 (J)							
6/28/2018		0.0022 (J)	<0.01	0.021 (J)				
12/19/2018	0.0021 (J)	0.0026 (J)	<0.01					
12/20/2018				0.022 (J)				
1/15/2019					0.0017 (J)			
8/28/2019	0.0021 (J)	0.0025 (J)	<0.01					
8/29/2019				0.021 (J)				
10/16/2019	0.0022 (J)		<0.01	0.02 (J)				
10/22/2019					0.001 (J)			
12/3/2019		0.0024 (J)						
3/5/2020	0.0021 (J)	0.0025 (J)	<0.01	0.021 (J)				
8/19/2020	0.0021 (J)	0.0024 (J)	<0.01	0.021 (J)				
9/16/2020	0.002 (J)	0.0022 (J)	<0.01					
9/17/2020				0.02 (J)				
3/3/2021		0.0024 (J)	<0.01					
3/4/2021	0.0021 (J)			0.021 (J)				
9/22/2021		0.0026 (J)						
9/23/2021	0.0022 (J)		<0.01	0.019 (J)				
2/1/2022	0.0021 (J)	0.0023 (J)		0.02 (J)				
2/2/2022			<0.01					
8/23/2022			<0.01	0.0214	<0.01	0.0171		
8/24/2022	<0.01	<0.01						
9/1/2022								0.00615 (J)
1/24/2023	<0.01							
1/25/2023		<0.01	<0.01	0.0256		0.0207	0.0165	
1/26/2023					<0.01			0.00381 (J)
8/31/2023			<0.01		<0.01			
9/6/2023	<0.01	<0.01				0.0185		
9/7/2023				0.0195			0.0182	0.00385 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 10/23/2023 10:51 AM View: Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-17S	BRGWC-33S	BRGWC-34S
8/31/2016	<0.0002	<0.0002	<0.0002	<0.0002				
9/1/2016					<0.0002			
9/7/2016						<0.0002	<0.0002	
9/8/2016								<0.0002
11/15/2016				<0.0002	<0.0002			
11/16/2016	<0.0002	<0.0002	<0.0002					
11/17/2016						<0.0002	<0.0002	<0.0002
2/20/2017			<0.0002	8E-05 (J)	<0.0002			
2/21/2017	<0.0002	<0.0002						
2/22/2017						<0.0002	<0.0002	<0.0002
6/12/2017	4E-05 (J)		<0.0002	<0.0002	<0.0002			
6/13/2017		<0.0002						
6/14/2017							7E-05 (J)	7E-05 (J)
6/15/2017						6E-05 (J)		
9/26/2017	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002			
9/27/2017							4E-05 (J)	4E-05 (J)
9/28/2017						<0.0002		
2/13/2018	0.00021	0.00019 (J)	<0.0002	0.00013 (J)	<0.0002			
2/15/2018						<0.0002	<0.0002	<0.0002
6/26/2018	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002			
6/27/2018						<0.0002	<0.0002	<0.0002
12/18/2018	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002
12/19/2018						<0.0002		
8/27/2019	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002	
8/28/2019						<0.0002	<0.0002	<0.0002
8/18/2020	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002			
8/19/2020						8.4E-05 (J)	<0.0002	0.00012 (J)
9/15/2020	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002			
9/16/2020						<0.0002	<0.0002	<0.0002
3/1/2021	<0.0002				<0.0002			
3/2/2021		<0.0002	<0.0002	<0.0002				
3/3/2021							<0.0002	<0.0002
3/4/2021						<0.0002		
9/21/2021			0.0001 (J)	0.0001 (J)				
9/22/2021	0.0001 (J)	0.0001 (J)			0.0001 (J)	0.0001 (J)	0.00012 (J)	0.00015 (J)
2/1/2022	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
8/23/2022	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002	
8/24/2022						<0.0002		<0.0002
1/24/2023	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
8/25/2023	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002
8/28/2023						<0.0002		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 10/23/2023 10:51 AM View: Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-13S	PZ-53D	PZ-52D	PZ-70I
9/7/2016	<0.0002	<0.0002		7E-05 (J)				
11/17/2016	<0.0002							
11/18/2016		<0.0002						
11/21/2016				0.00012 (J)				
2/22/2017	<0.0002							
2/23/2017		<0.0002	<0.0002	7E-05 (J)				
4/17/2017			<0.0002					
5/15/2017			<0.0002					
6/15/2017	7E-05 (J)	7E-05 (J)	6E-05 (J)	0.00016 (J)				
9/28/2017	<0.0002	<0.0002	<0.0002	0.00011 (J)				
2/15/2018	<0.0002	<0.0002	<0.0002	0.00015 (J)				
6/27/2018	<0.0002							
6/28/2018		<0.0002	<0.0002	<0.0002 (X)				
12/19/2018	<0.0002	<0.0002	<0.0002					
12/20/2018				0.00017 (J)				
1/15/2019					<0.0002			
8/28/2019	<0.0002	<0.0002	<0.0002					
8/29/2019				0.00018 (J)				
8/19/2020	0.00013 (J)	0.00013 (J)	0.00014 (J)	0.00018 (J)				
9/16/2020	<0.0002	<0.0002	<0.0002					
9/17/2020				0.00011 (J)				
3/3/2021		<0.0002	<0.0002					
3/4/2021	<0.0002			8.5E-05 (J)				
9/22/2021		0.0001 (J)						
9/23/2021	0.00011 (J)		0.00011 (J)	0.00022				
2/1/2022	<0.0002	<0.0002		<0.0002				
2/2/2022			<0.0002					
8/23/2022			<0.0002	0.000117 (J)	<0.0002	<0.0002		
8/24/2022	<0.0002	<0.0002						
9/1/2022								<0.0002
1/24/2023	<0.0002							
1/25/2023		<0.0002	<0.0002	<0.0002		<0.0002	<0.0002	
1/26/2023					<0.0002			<0.0002
8/25/2023			<0.0002		<0.0002			
8/28/2023	<0.0002	<0.0002		<0.0002			<0.0002	0.00322
8/29/2023						<0.0002		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/23/2023 10:51 AM View: Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-17S	BRGWC-33S	BRGWC-34S
8/31/2016	0.0021 (J)	<0.001	0.004 (J)	<0.001				
9/1/2016					<0.001			
9/7/2016						<0.001	<0.001	
9/8/2016								<0.001
11/15/2016				<0.001	<0.001			
11/16/2016	<0.01	<0.001	0.0038 (J)					
11/17/2016						<0.001	<0.001	<0.001
2/20/2017			0.0055 (J)	<0.001	<0.001			
2/21/2017	0.0021 (J)	<0.001						
2/22/2017						<0.001	<0.001	<0.001
6/12/2017	0.0021 (J)		0.005 (J)	<0.001	<0.001			
6/13/2017		<0.001						
6/14/2017							<0.001	<0.001
6/15/2017						<0.001		
9/26/2017	0.0011 (J)	<0.001	0.0053 (J)	<0.001	<0.001			
9/27/2017							<0.001	<0.001
9/28/2017						<0.001		
2/13/2018	0.0019 (J)	<0.001	0.008 (J)	<0.001	<0.001			
2/15/2018						<0.001	<0.001	<0.001
6/26/2018	<0.01	<0.001	0.0041 (J)	<0.001	<0.001			
6/27/2018						<0.001	<0.001	<0.001
12/18/2018	<0.01	<0.001	0.0048 (J)	<0.001	<0.001		<0.001	<0.001
12/19/2018						<0.001		
8/27/2019	<0.01	<0.001	0.0028 (J)	<0.001	<0.001		<0.001	
8/28/2019						<0.001	<0.001	<0.001
10/15/2019	<0.01	<0.001	0.0035 (J)	<0.001	<0.001			
10/16/2019							<0.001	<0.001
12/3/2019						<0.001		
3/3/2020	<0.01	<0.001	0.0023 (J)	<0.001	<0.001	<0.001		
3/5/2020							<0.001	<0.001
8/18/2020	0.0011 (J)	<0.001	0.0015 (J)	<0.001	<0.001			
8/19/2020						<0.001	<0.001	<0.001
9/15/2020	0.0007 (J)	<0.001	0.0015 (J)	<0.001	<0.001			
9/16/2020						<0.001	<0.001	<0.001
3/1/2021	<0.01				<0.001			
3/2/2021		<0.001	0.0015 (J)	<0.001				
3/3/2021							<0.001	<0.001
3/4/2021						<0.001		
9/21/2021			0.002 (J)	<0.001				
9/22/2021	0.0012 (J)	<0.001			<0.001	<0.001	<0.001	<0.001
2/1/2022	0.0013 (J)	<0.001	0.002 (J)	<0.001	<0.001	<0.001	<0.001	<0.001
8/23/2022	0.0024	<0.001	0.00151	<0.001	<0.001		<0.001	
8/24/2022						<0.001		<0.001
1/24/2023	0.000601 (J)	<0.001	0.00192	<0.001	<0.001	<0.001	<0.001	<0.001
8/31/2023	0.00169	<0.001	0.000953 (J)	<0.001	<0.001		<0.001	<0.001
9/6/2023						<0.001		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/23/2023 10:51 AM View: Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-13S	PZ-53D	PZ-52D	PZ-70I
9/7/2016	<0.001	<0.001		<0.001				
11/17/2016	<0.001							
11/18/2016		<0.001						
11/21/2016				<0.001				
2/22/2017	<0.001							
2/23/2017		<0.001	<0.001	<0.001				
4/17/2017			<0.001					
5/15/2017			<0.001					
6/15/2017	<0.001	<0.001	<0.001	<0.001				
9/28/2017	<0.001	<0.001	<0.001	<0.001				
2/15/2018	<0.001	<0.001	<0.001	<0.001				
6/27/2018	<0.001							
6/28/2018		<0.001	<0.001	<0.001				
12/19/2018	<0.001	<0.001	<0.001					
12/20/2018				<0.001				
1/15/2019					<0.001			
8/28/2019	<0.001	<0.001	<0.001					
8/29/2019				<0.001				
10/16/2019	<0.001		<0.001	<0.001				
10/22/2019					<0.001			
12/3/2019		<0.001						
3/5/2020	<0.001	<0.001	<0.001	<0.001				
8/19/2020	<0.001	<0.001	<0.001	<0.001				
9/16/2020	<0.001	<0.001	<0.001					
9/17/2020				<0.001				
3/3/2021		<0.001	<0.001					
3/4/2021	<0.001			<0.001				
9/22/2021		<0.001						
9/23/2021	<0.001		<0.001	<0.001				
2/1/2022	<0.001	<0.001		<0.001				
2/2/2022			<0.001					
8/23/2022			<0.001	<0.001	<0.001	0.00265		
8/24/2022	<0.001	<0.001						
9/1/2022								0.00142
1/24/2023	<0.001							
1/25/2023		<0.001	<0.001	<0.001		0.00234	0.0222	
1/26/2023					<0.001			<0.001
8/31/2023			<0.001		<0.001			
9/6/2023	<0.001	<0.001		<0.001		0.00211	0.0154	<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: pH, Field (S.U.) Analysis Run 10/23/2023 10:51 AM View: Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-17S	BRGWC-33S	BRGWC-34S
8/31/2016	7.16	6.2	6.53	6.59				
9/1/2016					6.49			
9/7/2016						6.36	4.92	
9/8/2016								5.84
11/15/2016				6.67	6.59			
11/16/2016	6.96	6.12	6.4					
11/17/2016						6.28	4.82	5.81
2/20/2017			6.44	6.65	6.61			
2/21/2017	7.15	6.24						
2/22/2017						6.4	4.86	5.85
6/12/2017	7.31		6.4	6.64				
6/13/2017		6.19						
6/14/2017							4.86	5.87
9/26/2017	7.02	6.15	6.31	6.58	6.47			
9/27/2017							4.78	5.74
9/28/2017						6.35		
2/13/2018	7.44	6.18	6.62	6.72	6.54			
2/15/2018						6.35	4.84	5.93
6/26/2018	6.93	6.05	6.29	6.43	6.23			
6/27/2018						6.35	4.73	5.68
12/18/2018	6.76	5.92	6.57	6.7	6.71		4.84	5.97
12/19/2018						6.56		
3/19/2019	6.87	6.18	6.45	6.63	6.18	6.43		
3/20/2019							4.77	5.84
8/27/2019	6.79	6.09	6.37	6.49	6.35		4.78	
8/28/2019						6.25	5.52	5.8
10/15/2019	6.57	6.06	6.77	7.01	6.36			
10/16/2019							4.78	5.85
10/17/2019						6.3		
3/3/2020	6.71	6.1	6.29	6.49	6.59	6.34		
3/5/2020							4.82	5.89
8/18/2020	6.59	6.06	6.29	6.41	6.33			
8/19/2020						6.24	4.78	5.78
9/15/2020	6.64	6.01	6.27	6.25	6.43			
9/16/2020						6.26	4.78	5.81
3/1/2021	6.66				6.7			
3/2/2021		6.2	6.47	6.42				
3/3/2021							4.83	5.88
3/4/2021						6.45		
9/21/2021			6.32	6.36				
9/22/2021	6.78	6.06			6.48	6.22	4.81	5.93
2/1/2022	6.83	5.95	6.38	6.39	6.54	6.39	4.82	5.87
8/23/2022	6.67	5.95	6.24	6.36	6.51		4.67	
8/24/2022						6.62		5.75
1/24/2023	6.7	5.26	6.42	6.47	6.54	6.37	4.79	5.93
8/22/2023	6.91	5.97	6.36	6.09	6.27		4.58	5.72
8/23/2023						6.16		

Time Series

Constituent: pH, Field (S.U.) Analysis Run 10/23/2023 10:51 AM View: Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-13S	PZ-53D	PZ-52D	PZ-70I
9/7/2016	6.1	5.59		5.43				
9/23/2016				5.46				
9/26/2016					5.68			
11/17/2016	6.04							
11/18/2016		5.51						
11/21/2016				4.84				
2/22/2017	6.08							
2/23/2017		5.65	5.57	4.73				
9/28/2017	6.03	5.62	5.76	4.37				
2/15/2018	6.02	5.66	5.95	4.3				
6/27/2018	6.01							
6/28/2018		5.57	5.78	4.16				
12/19/2018	6.22	5.76	6.07					
12/20/2018				4.21				
1/15/2019					5.52			
3/19/2019		5.72						
3/20/2019	6.06		5.93	4.34				
8/28/2019	5.95	5.52	5.8					
8/29/2019				4.01				
10/16/2019	6.03		5.81	4.21				
10/17/2019		5.61						
10/22/2019					5.49			
3/5/2020	6.04	5.39	5.53	4.01				
8/19/2020	5.97	5.53	5.66	4.12				
9/16/2020	5.96	5.58	5.84					
9/17/2020				4.17				
3/3/2021		5.86	5.87					
3/4/2021	6.14			4.19				
9/22/2021		5.53						
9/23/2021	6.08		5.85	4.05				
2/1/2022	6.09	5.65		4.06				
2/2/2022			5.8					
8/23/2022			5.82	3.97	5.46	7.18		
8/24/2022	6.05	5.59						
1/24/2023	6.08							
1/25/2023		5.64	5.84	4.75		7.1	7.14	
1/26/2023					5.56		7.14	5.6
8/22/2023			5.42		5.37			
8/23/2023	5.9	5.26		3.91			6.99	5.36
8/24/2023						6.54		

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/23/2023 10:51 AM View: Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-17S	BRGWC-33S	BRGWC-34S
8/31/2016	<0.005	<0.005	<0.005	<0.005				
9/1/2016					<0.005			
9/7/2016						0.0024 (J)	0.0032 (J)	
9/8/2016								<0.005
11/15/2016				<0.005	<0.005			
11/16/2016	<0.005	<0.005	<0.005					
11/17/2016						0.0028 (J)	0.0028 (J)	<0.005
2/20/2017			<0.005	<0.005	<0.005			
2/21/2017	<0.005	<0.005						
2/22/2017						0.0018 (J)	0.0018 (J)	<0.005
6/12/2017	<0.005		<0.005	<0.005	<0.005			
6/13/2017		<0.005						
6/14/2017							0.004 (J)	<0.005
6/15/2017						0.0024 (J)		
9/26/2017	<0.005	<0.005	<0.005	<0.005	<0.005			
9/27/2017							0.0036 (J)	<0.005
9/28/2017						<0.005		
2/13/2018	<0.005	<0.005	<0.005	<0.005	<0.005			
2/15/2018						<0.005	<0.005	<0.005
6/26/2018	<0.005	<0.005	<0.005	<0.005	<0.005			
6/27/2018						0.002 (J)	0.0017 (J)	<0.005
12/18/2018	<0.005	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005
12/19/2018						0.0014 (J)		
8/27/2019	<0.005	<0.005	<0.005	<0.005	<0.005		<0.005	
8/28/2019						0.003 (J)	<0.005	<0.005
10/15/2019	<0.005	<0.005	<0.005	<0.005	<0.005			
10/16/2019							0.0028 (J)	<0.005
12/3/2019						0.0041 (J)		
3/3/2020	<0.005	<0.005	<0.005	<0.005	<0.005	0.0019 (J)		
3/5/2020							<0.005	<0.005
8/18/2020	<0.005	<0.005	<0.005	<0.005	<0.005			
8/19/2020						0.003 (J)	<0.005	<0.005
9/15/2020	<0.005	<0.005	<0.005	<0.005	<0.005			
9/16/2020						<0.005	0.0028 (J)	<0.005
3/1/2021	<0.005				<0.005			
3/2/2021		<0.005	<0.005	<0.005				
3/3/2021							<0.005	<0.005
3/4/2021						<0.005		
9/21/2021			<0.005	<0.005				
9/22/2021	<0.005	<0.005			<0.005	0.0015 (J)	<0.005	<0.005
2/1/2022	<0.005	<0.005	<0.005	<0.005	<0.005	0.0021 (J)	<0.005	<0.005
8/23/2022	<0.005	<0.005	<0.005	<0.005	<0.005		0.0061	
8/24/2022						0.00208 (J)		<0.005
1/24/2023	<0.005	<0.005	<0.005	<0.005	<0.005	0.00178 (J)	0.0049 (J)	<0.005
8/31/2023	<0.005	<0.005	<0.005	<0.005	<0.005		0.00572	<0.005
9/6/2023						0.00214 (J)		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/23/2023 10:51 AM View: Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-13S	PZ-53D	PZ-52D	PZ-70I
9/7/2016	<0.005	0.0079 (J)		0.0311				
11/17/2016	<0.005							
11/18/2016		0.0082 (J)						
11/21/2016				0.0409				
2/22/2017	<0.005							
2/23/2017		0.0061 (J)	<0.005	0.0354				
4/17/2017			<0.005					
5/15/2017			<0.005					
6/15/2017	<0.005	0.0046 (J)	<0.005	0.0511				
9/28/2017	<0.005	0.0042 (J)	<0.005	0.0484				
2/15/2018	<0.005	0.0045 (J)	<0.005	0.0435				
6/27/2018	<0.005							
6/28/2018		0.0033 (J)	<0.005	0.037				
12/19/2018	<0.005	0.0042 (J)	<0.005					
12/20/2018				0.037				
1/15/2019					0.0033 (J)			
8/28/2019	<0.005	0.0041 (J)	<0.005					
8/29/2019				0.036				
10/16/2019	<0.005		<0.005	0.033				
10/22/2019					0.0033 (J)			
12/3/2019		0.0035 (J)						
3/5/2020	<0.005	0.0034 (J)	<0.005	0.032				
8/19/2020	<0.005	0.002 (J)	<0.005	0.041				
9/16/2020	<0.005	0.0031 (J)	<0.005					
9/17/2020				0.029				
3/3/2021		0.0024 (J)	<0.005					
3/4/2021	<0.005			0.039				
9/22/2021		0.0032 (J)						
9/23/2021	<0.005		<0.005	0.031				
2/1/2022	<0.005	0.0025 (J)		0.029				
2/2/2022			<0.005					
8/23/2022			<0.005	0.0296	0.00157 (J)	<0.005		
8/24/2022	<0.005	0.00246 (J)						
9/1/2022								0.00625
1/24/2023	<0.005							
1/25/2023		0.00237 (J)	<0.005	0.0279		<0.005	<0.005	
1/26/2023					0.00215 (J)			0.00921
8/31/2023			<0.005		<0.005			
9/6/2023	<0.005	0.00173 (J)		0.0186		<0.005	<0.005	0.00829

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Sulfate (mg/L) Analysis Run 10/23/2023 10:51 AM View: Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-17S	BRGWC-33S	BRGWC-34S
8/31/2016	7.5	0.38 (J)	2.7	0.81 (J)				
9/1/2016					0.6 (J)			
9/7/2016						97	260	
9/8/2016								420
11/15/2016				<1 (J)	0.68 (J)			
11/16/2016	6.6	<1 (J)	3.4					
11/17/2016						120 (D)	235 (D)	445 (D)
2/20/2017			3.9 (B-01)	1 (B-01)	0.98 (J)			
2/21/2017	6.1	1.5						
2/22/2017						120	210	410
6/12/2017	5		3.7	0.94 (J)	0.54 (J)			
6/13/2017		0.67 (J)						
6/14/2017							200	410
6/15/2017						130		
9/26/2017	5.4	0.62 (J)	4.1	0.92 (J)	0.53 (J)			
9/27/2017							200	360
9/28/2017						120		
2/13/2018	4.7 (J)	<1	6.6	<1	<1			
2/15/2018						109	197	335
6/26/2018	6.2	0.69 (J)	3.5	0.91 (J)	0.54 (J)			
6/27/2018						118	200	296
12/18/2018	5.9	0.72 (J)	4.3	0.68 (J)	0.39 (J)		222	345
12/19/2018						125		
3/19/2019	6 (D)	0.78 (J)	3	0.74 (J)	0.68 (J)	126		
3/20/2019							204	329
10/15/2019	5.2	0.47 (J)	3.8	0.68 (J)	0.48 (J)			
10/16/2019							226	325
12/3/2019						180		
3/3/2020	7.1	0.93 (J)	2.8	0.71 (J)	2.5	95.4		
3/5/2020							173	287
9/15/2020	5.9	<1	1.7	<1	<1			
9/16/2020						151	154	283
3/1/2021	4.7				0.74 (J)			
3/2/2021		<1	2.2	<1				
3/3/2021							133	277
3/4/2021						122		
9/21/2021			2.3	<1				
9/22/2021	5.2	<1			<1	123	94.6	232
2/1/2022	5.4	<1	2	<1	<1	139	99.7	243
8/23/2022	5.66	0.452	2.21	0.521	0.479		385	
8/24/2022						157		268
1/24/2023	3.58	0.465	3.34	0.66	0.484	153	375	267
8/23/2023	6.85	0.526	1.83	0.54	0.467			
8/24/2023							466	299
8/25/2023						180		

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Time Series

Constituent: Sulfate (mg/L) Analysis Run 10/23/2023 10:51 AM View: Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-13S	PZ-53D	PZ-52D	PZ-70I
9/7/2016	260	300		440				
11/17/2016	285 (D)							
11/18/2016		245 (D)						
11/21/2016				490 (D)				
2/22/2017	270							
2/23/2017		330	0.55 (J)	470				
4/17/2017			0.44 (J)					
5/15/2017			0.45 (J)					
6/15/2017	280	310	0.46 (J)	490				
9/28/2017	240	290	0.49 (J)	470				
2/15/2018	266	292	1.9 (o)	432				
6/27/2018	278							
6/28/2018		284	0.24 (J)	453				
12/19/2018	287	319	0.4 (J)					
12/20/2018				463				
1/15/2019					152			
3/19/2019		307						
3/20/2019	268		<1 (X)	405				
10/16/2019	277		0.29 (J)	432				
10/22/2019					93.2			
12/3/2019		256						
3/5/2020	269	262	<1	370				
9/16/2020	270	256	<1					
9/17/2020				356				
3/3/2021		252	<1					
3/4/2021	251			325				
9/22/2021		234						
9/23/2021	258		<1	318				
2/1/2022	256	195		287				
2/2/2022			<1					
8/23/2022			0.307 (J)	389	51	348		
8/24/2022	279	224						
9/1/2022							340	172
1/24/2023	334							
1/25/2023		237	0.325 (J)	291		285		
1/26/2023					75.3		142	147
8/23/2023			0.355 (J)					
8/24/2023					46.2			
8/25/2023	269	223		274			112	139
8/26/2023						293		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 10/23/2023 10:51 AM View: Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-17S	BRGWC-33S	BRGWC-34S
8/31/2016	<0.002	<0.002	<0.002	<0.002				
9/1/2016					<0.002			
9/7/2016						<0.002	0.0002 (J)	
9/8/2016								<0.002
11/15/2016				<0.002	<0.002			
11/16/2016	<0.002	<0.002	<0.002					
11/17/2016						<0.002	0.0002 (J)	<0.002
2/20/2017			<0.002	<0.002	<0.002			
2/21/2017	<0.002	<0.002						
2/22/2017						<0.002	0.0002 (J)	<0.002
6/12/2017	<0.002		<0.002	<0.002	<0.002			
6/13/2017		<0.002						
6/14/2017							0.0002 (J)	<0.002
6/15/2017						<0.002		
9/26/2017	<0.002	<0.002	<0.002	<0.002	<0.002			
9/27/2017							0.0002 (J)	<0.002
9/28/2017						<0.002		
2/13/2018	<0.002	<0.002	<0.002	<0.002	<0.002			
2/15/2018						<0.002	0.00024 (J)	<0.002
6/26/2018	<0.002	<0.002	<0.002	<0.002	<0.002			
6/27/2018						<0.002	0.00022 (J)	<0.002
12/18/2018	<0.002	<0.002	<0.002	<0.002	<0.002		0.00022 (J)	<0.002
12/19/2018						<0.002		
8/27/2019	<0.002	<0.002	<0.002	<0.002	<0.002		0.00016 (J)	
8/28/2019						<0.002	0.00016 (J)	<0.002
10/15/2019	<0.002	<0.002	<0.002	<0.002	<0.002			
10/16/2019							0.00019 (J)	<0.002
12/3/2019						6.6E-05 (J)		
3/3/2020	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002		
3/5/2020							0.0002 (J)	<0.002
8/18/2020	<0.002	<0.002	<0.002	<0.002	<0.002			
8/19/2020						<0.002	0.00018 (J)	<0.002
9/15/2020	<0.002	<0.002	<0.002	<0.002	<0.002			
9/16/2020						<0.002	0.00018 (J)	<0.002
3/1/2021	<0.002				<0.002			
3/2/2021		<0.002	<0.002	<0.002				
3/3/2021							0.00018 (J)	<0.002
3/4/2021						<0.002		
9/21/2021			<0.002	<0.002				
9/22/2021	<0.002	<0.002			<0.002	<0.002	<0.002	<0.002
2/1/2022	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
8/23/2022	<0.002	<0.002	<0.002	<0.002	<0.002		<0.002	
8/24/2022						<0.002		<0.002
1/24/2023	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
8/31/2023	<0.002	<0.002	<0.002	<0.002	<0.002		<0.002	<0.002
9/6/2023						<0.002		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 10/23/2023 10:51 AM View: Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-13S	PZ-53D	PZ-52D	PZ-70I
9/7/2016	<0.002	<0.002		<0.002				
11/17/2016	<0.002							
11/18/2016		<0.002						
11/21/2016				0.0004 (J)				
2/22/2017	<0.002							
2/23/2017		<0.002	<0.002	0.0003 (J)				
4/17/2017			<0.002					
5/15/2017			<0.002					
6/15/2017	<0.002	<0.002	<0.002	0.0003 (J)				
9/28/2017	<0.002	<0.002	<0.002	0.0003 (J)				
2/15/2018	<0.002	<0.002	<0.002	0.00026 (J)				
6/27/2018	<0.002							
6/28/2018		<0.002	<0.002	0.00018 (J)				
12/19/2018	<0.002	<0.002	<0.002					
12/20/2018				<0.002 (X)				
1/15/2019					<0.002			
8/28/2019	<0.002	<0.002	<0.002					
8/29/2019				0.00021 (J)				
10/16/2019	<0.002		<0.002	0.0002 (J)				
10/22/2019					<0.002			
12/3/2019		<0.002						
3/5/2020	<0.002	<0.002	<0.002	0.0002 (J)				
8/19/2020	<0.002	<0.002	<0.002	0.00019 (J)				
9/16/2020	<0.002	<0.002	<0.002					
9/17/2020				0.00017 (J)				
3/3/2021		<0.002	<0.002					
3/4/2021	<0.002			<0.002				
9/22/2021		<0.002						
9/23/2021	<0.002		<0.002	0.00022 (J)				
2/1/2022	<0.002	<0.002		<0.002				
2/2/2022			<0.002					
8/23/2022			<0.002	<0.002	<0.002	<0.002		
8/24/2022	<0.002	<0.002						
9/1/2022								<0.002
1/24/2023	<0.002							
1/25/2023		<0.002	<0.002	<0.002		<0.002	<0.002	
1/26/2023					<0.002			<0.002
8/31/2023			<0.002		<0.002			
9/6/2023	<0.002	<0.002		<0.002		<0.002	<0.002	<0.002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 10/23/2023 10:51 AM View: Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-17S	BRGWC-33S	BRGWC-34S
8/31/2016	151	88	138	154				
9/1/2016					299 (o)			
9/7/2016						331	382	
9/8/2016								663
11/15/2016				123	41			
11/16/2016	69	41	77					
11/17/2016						308	382	651
2/20/2017			170	158	133			
2/21/2017	68	<25						
2/22/2017						341	387	706
6/12/2017	161		132	142	61			
6/13/2017		53						
6/14/2017							316	643
6/15/2017						333		
9/26/2017	167	45	108	138	29			
9/27/2017							303	579
9/28/2017						310		
2/13/2018	165	63	141	150	61			
2/15/2018						292	332	612
6/26/2018	188	71	133	154	71			
6/27/2018						353 (X)	538 (X)	359 (X)
12/18/2018	145 (X)	78 (X)	138 (X)	147	70 (X)		358	535
12/19/2018						317		
3/19/2019	146.5 (D)	68	130	146	72	303		
3/20/2019							338	517
10/15/2019	140	66	175	144	63			
10/16/2019							281	473
12/3/2019						378		
3/3/2020	155	41	<10	130	54	263		
3/5/2020							292	489
9/15/2020	116	69	100	116	79			
9/16/2020						316	88	392
3/1/2021	98				39			
3/2/2021		43	80	96				
3/3/2021							212	422
3/4/2021						316		
9/21/2021			108	104				
9/22/2021	129	66			62	323	190	406
2/1/2022	126	72	129	124	61	354	209	449
8/23/2022	117	45	107	101	52		614	
8/24/2022						370		452
1/24/2023	93	63	124	104	64	344	615	433
8/25/2023		36		73			778	495
8/28/2023	81		80		30	391		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 10/23/2023 10:51 AM View: Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-13S	PZ-53D	PZ-52D	PZ-70I
9/7/2016	486	528		750				
11/17/2016	453							
11/18/2016		524						
11/21/2016				795				
2/22/2017	541							
2/23/2017		517	45	733				
4/17/2017			53					
5/15/2017			48					
6/15/2017	548	566	63	812				
9/28/2017	487	475	39	690				
2/15/2018	500	513	54	722				
6/27/2018	347 (X)							
6/28/2018		499	59 (X)	704				
12/19/2018	489	521	68					
12/20/2018				642				
1/15/2019					284			
3/19/2019		498						
3/20/2019	501		68 (X)	615				
10/16/2019	481		49	630				
10/22/2019					203			
12/3/2019		498						
3/5/2020	535	457	39	608				
9/16/2020	474	463	31					
9/17/2020				587				
3/3/2021		442	33					
3/4/2021	480			540				
9/22/2021		457						
9/23/2021	511		49	528				
2/1/2022	521	441		560				
2/2/2022			46					
8/23/2022			40	568	130	543		
8/24/2022	507	418						
9/1/2022							754	321
1/24/2023	507							
1/25/2023		418	28	484		517	443	
1/26/2023					148			272
8/25/2023			42		112			
8/29/2023	485	398		459			372	252
8/30/2023						499		

FIGURE B.

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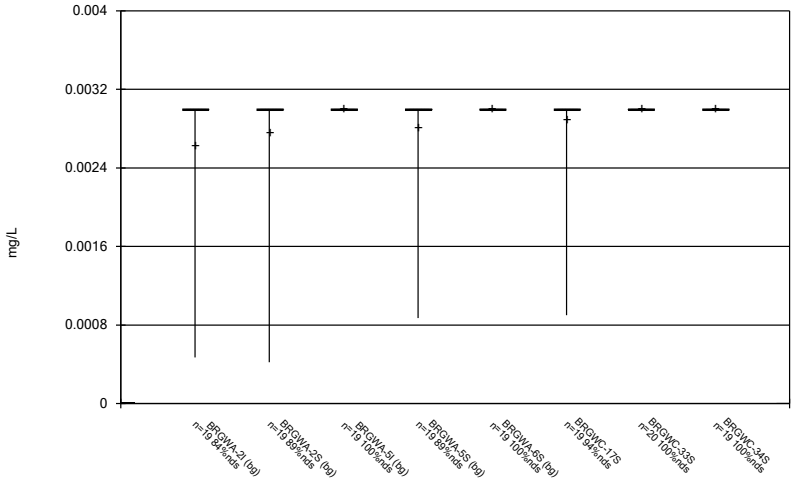
Box & Whiskers Plot



Constituent: Antimony Analysis Run 10/23/2023 10:56 AM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

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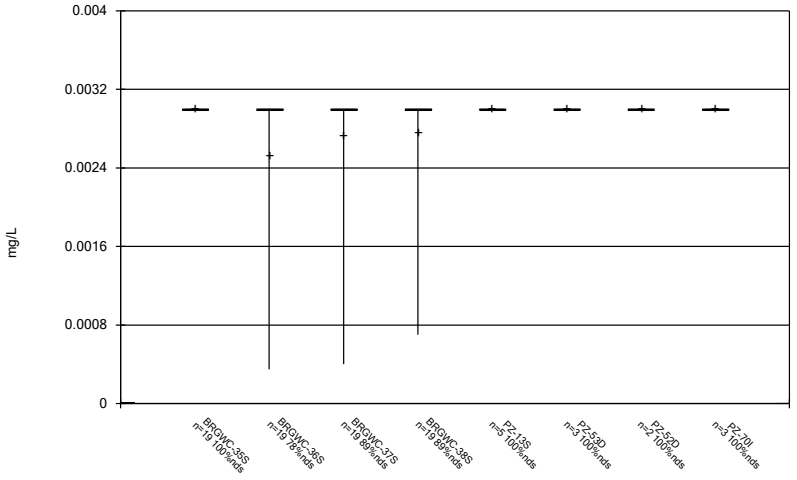
Box & Whiskers Plot



Constituent: Antimony Analysis Run 10/23/2023 10:56 AM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

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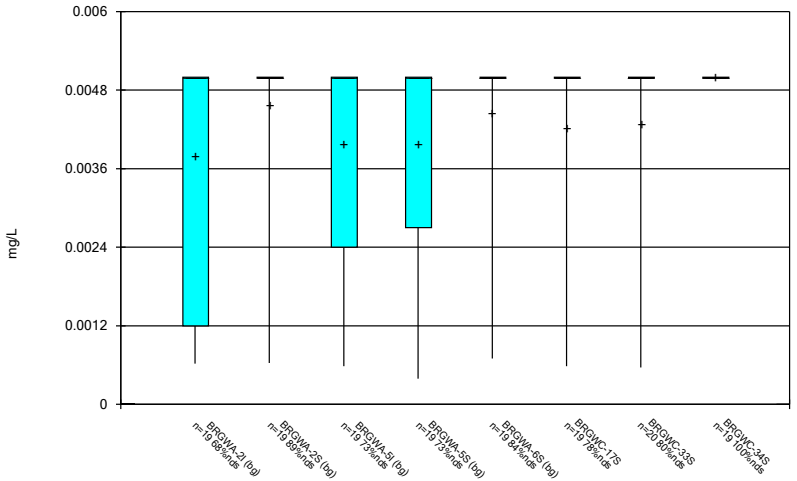
Box & Whiskers Plot



Constituent: Arsenic Analysis Run 10/23/2023 10:56 AM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

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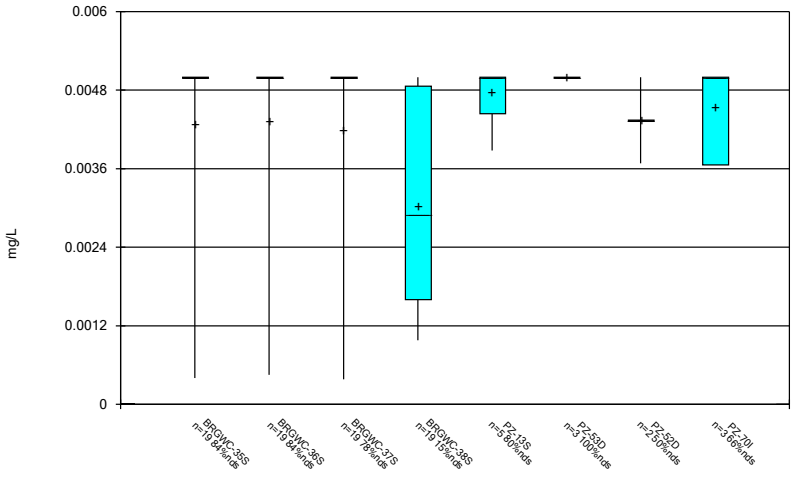
Box & Whiskers Plot



Constituent: Arsenic Analysis Run 10/23/2023 10:56 AM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

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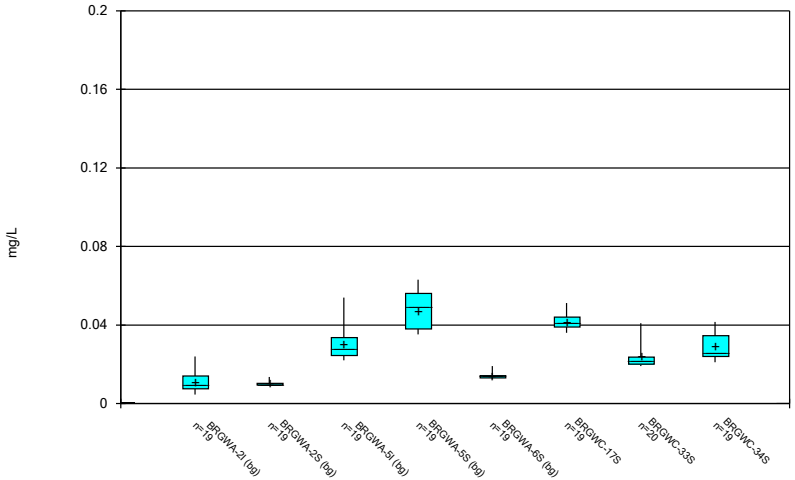
Box & Whiskers Plot



Constituent: Barium Analysis Run 10/23/2023 10:56 AM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

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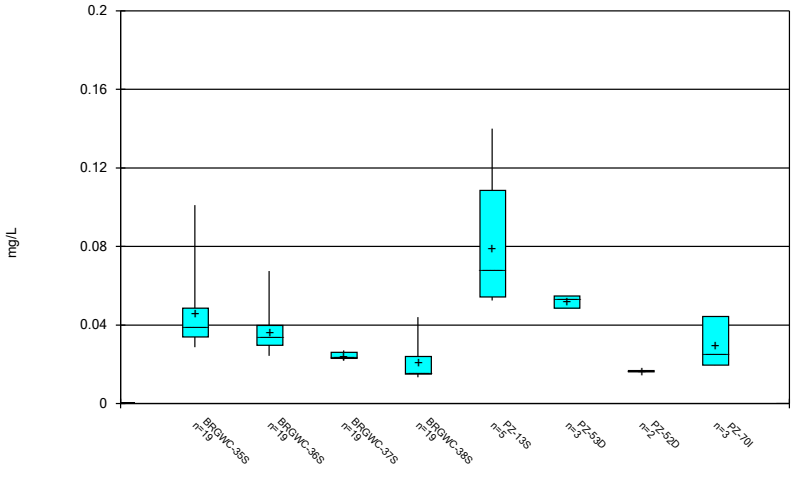
Box & Whiskers Plot



Constituent: Barium Analysis Run 10/23/2023 10:56 AM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

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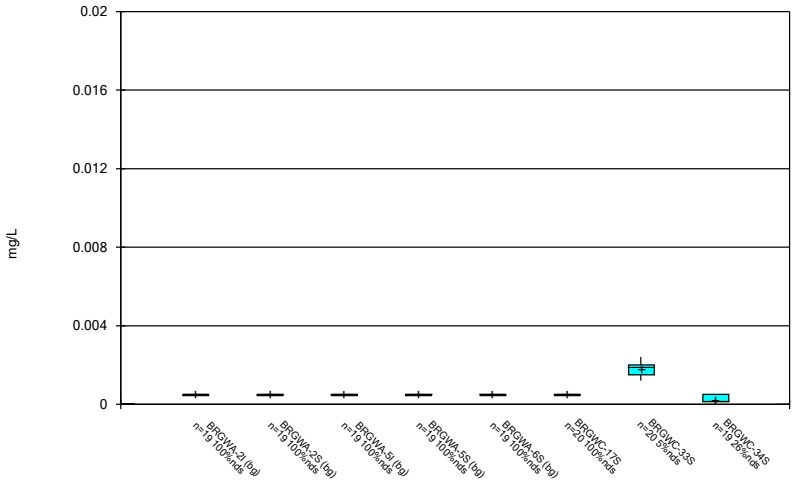

Constituent: Beryllium Analysis Run 10/23/2023 10:56 AM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

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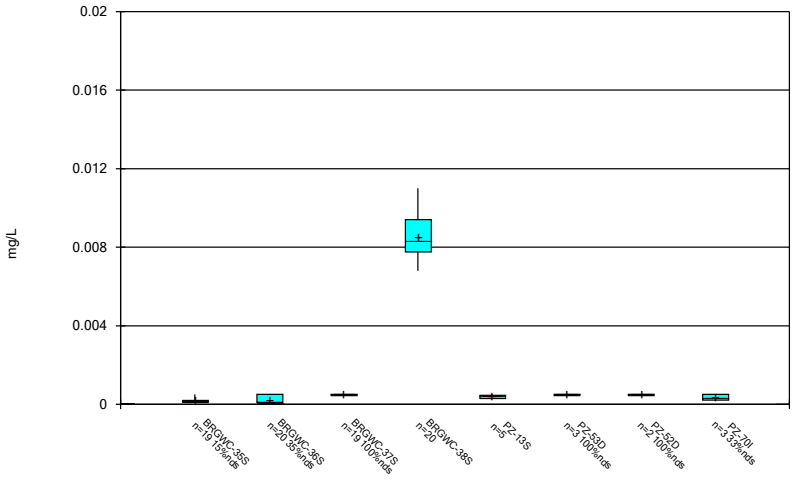
Box & Whiskers Plot



Constituent: Beryllium Analysis Run 10/23/2023 10:56 AM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

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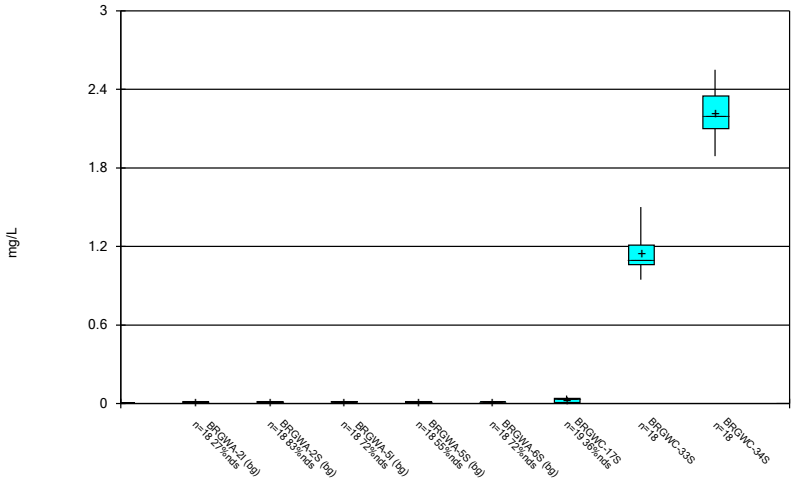

Constituent: Boron Analysis Run 10/23/2023 10:56 AM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

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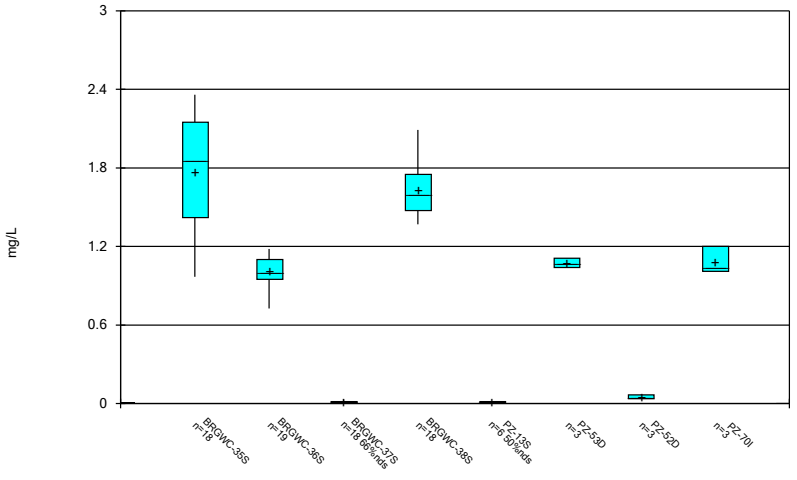
Box & Whiskers Plot



Constituent: Boron Analysis Run 10/23/2023 10:56 AM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

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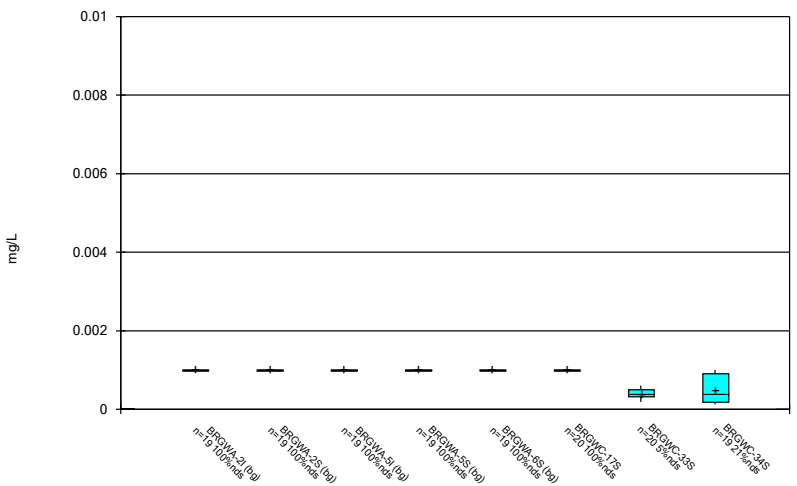

Constituent: Cadmium Analysis Run 10/23/2023 10:56 AM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

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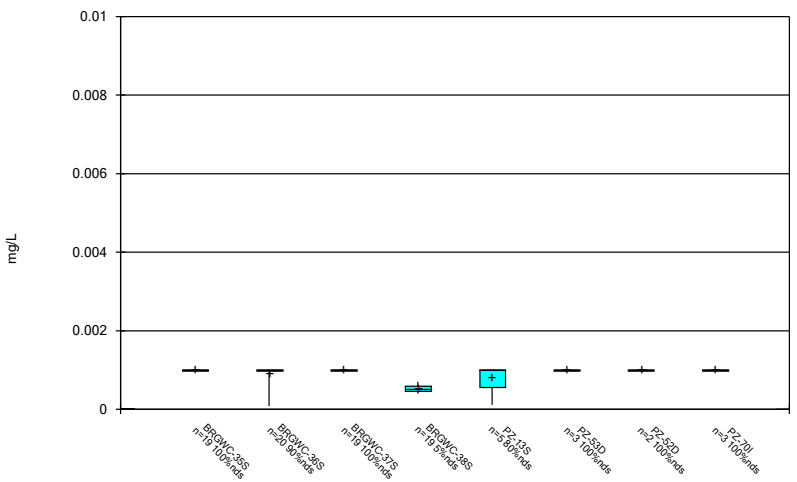
Box & Whiskers Plot



Constituent: Cadmium Analysis Run 10/23/2023 10:56 AM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

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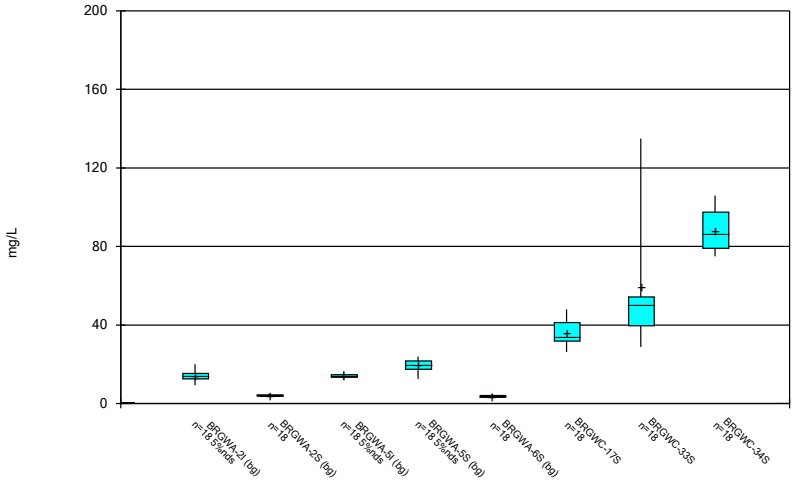
Box & Whiskers Plot



Constituent: Calcium Analysis Run 10/23/2023 10:56 AM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

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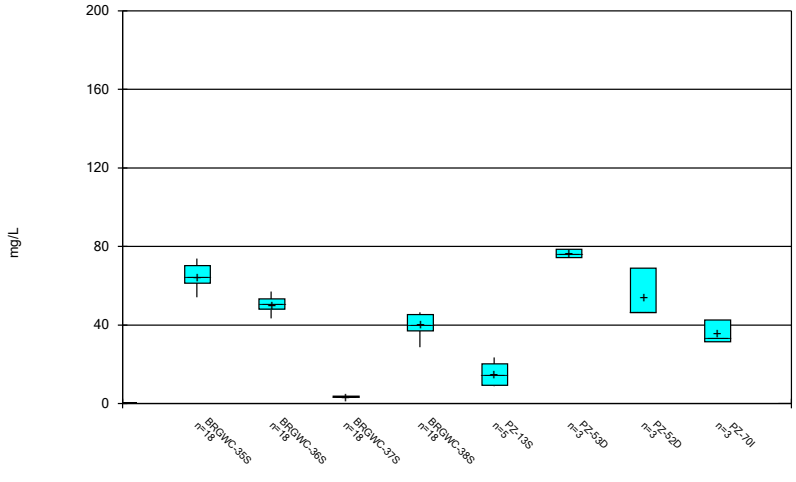

Constituent: Calcium Analysis Run 10/23/2023 10:56 AM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

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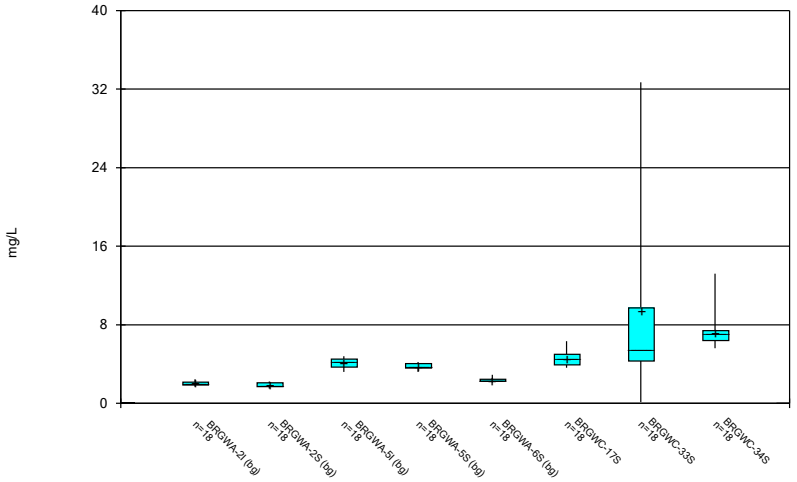

Constituent: Chloride Analysis Run 10/23/2023 10:56 AM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

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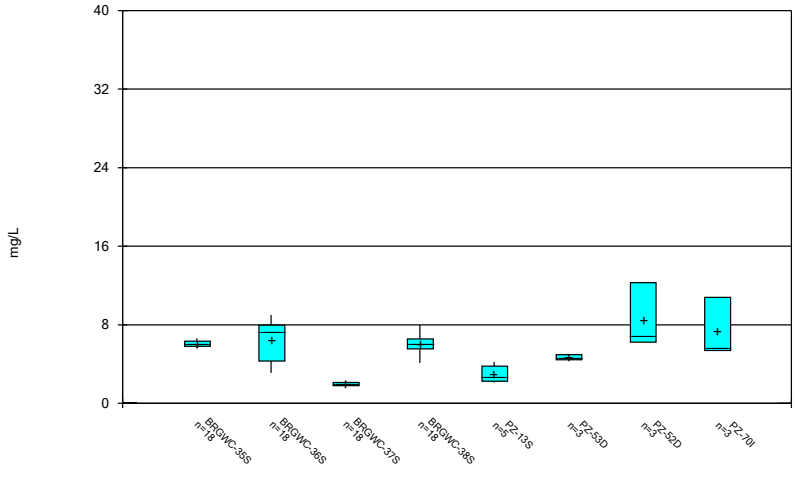
Box & Whiskers Plot



Constituent: Chloride Analysis Run 10/23/2023 10:56 AM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

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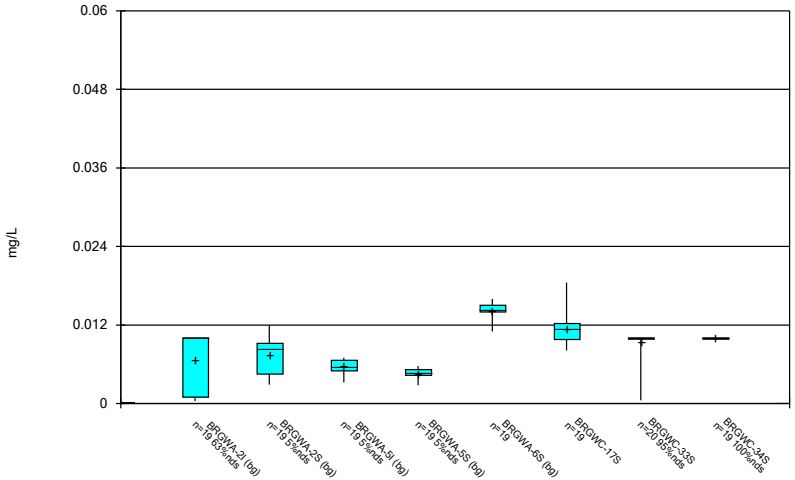
Box & Whiskers Plot



Constituent: Chromium Analysis Run 10/23/2023 10:56 AM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

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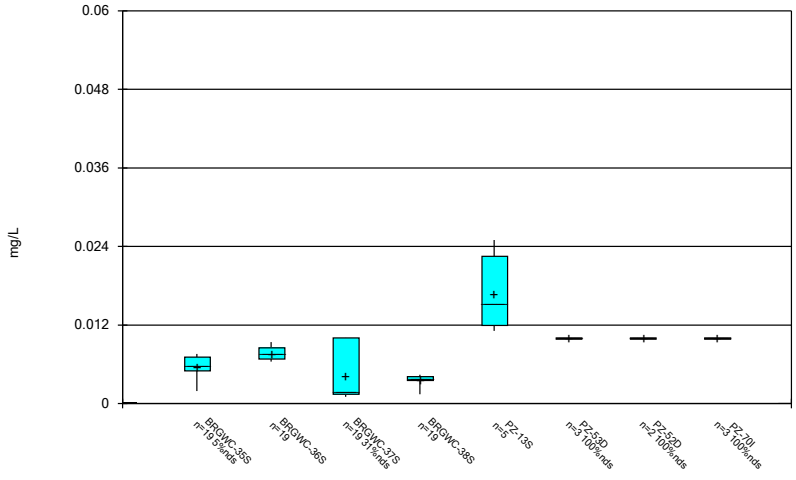
Box & Whiskers Plot



Constituent: Chromium Analysis Run 10/23/2023 10:56 AM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

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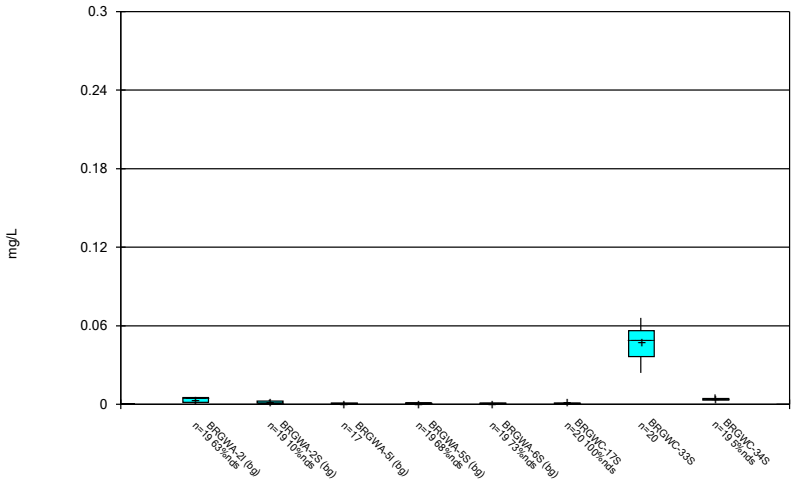
Box & Whiskers Plot



Constituent: Cobalt Analysis Run 10/23/2023 10:56 AM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

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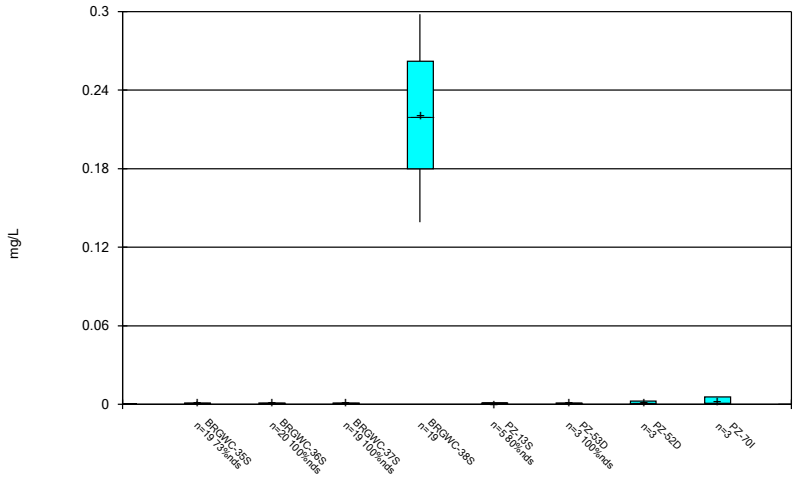
Box & Whiskers Plot



Constituent: Cobalt Analysis Run 10/23/2023 10:56 AM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

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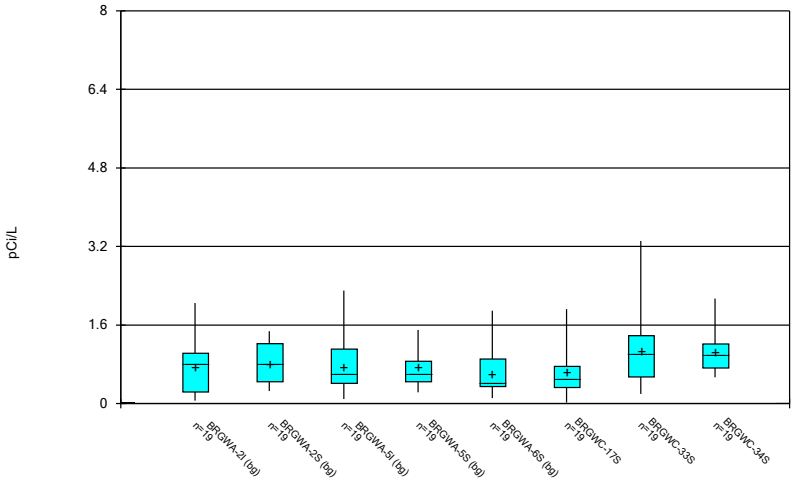
Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 10/23/2023 10:56 AM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

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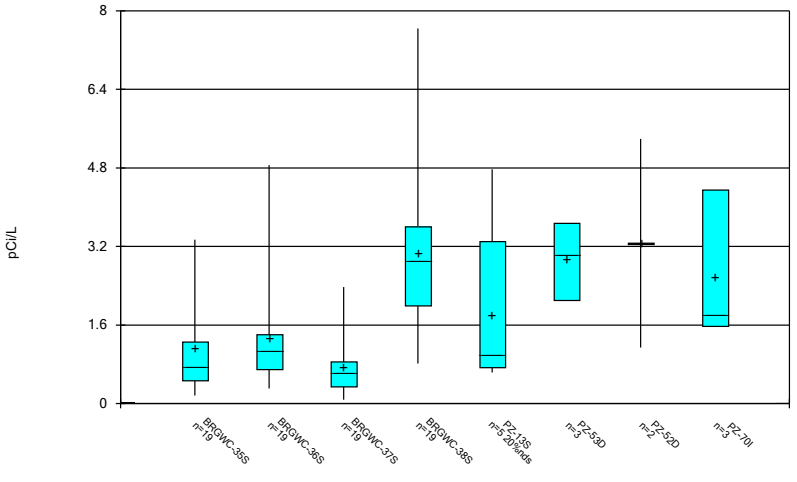
Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 10/23/2023 10:56 AM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

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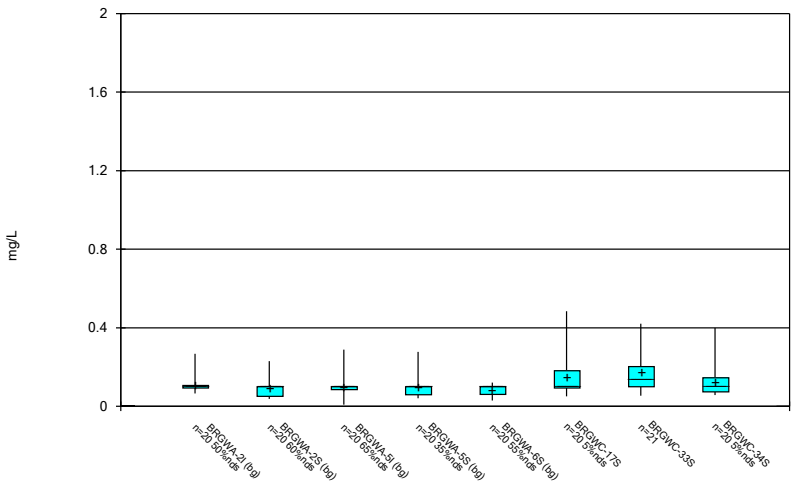
Box & Whiskers Plot



Constituent: Fluoride Analysis Run 10/23/2023 10:56 AM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

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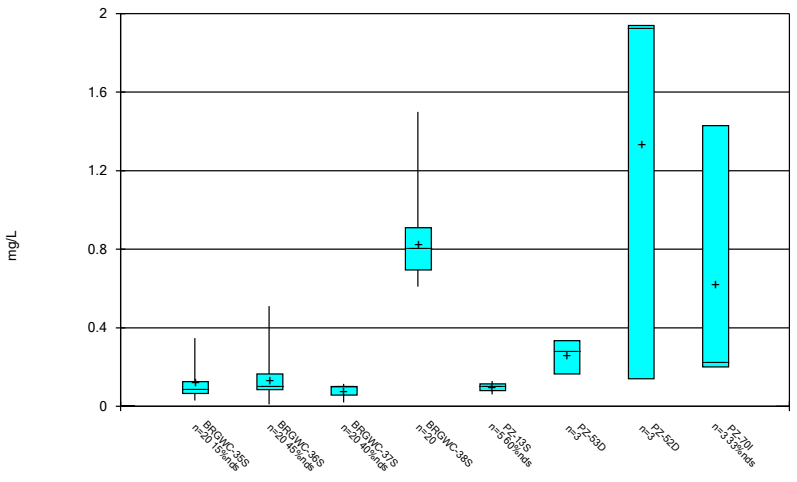
Box & Whiskers Plot



Constituent: Fluoride Analysis Run 10/23/2023 10:56 AM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

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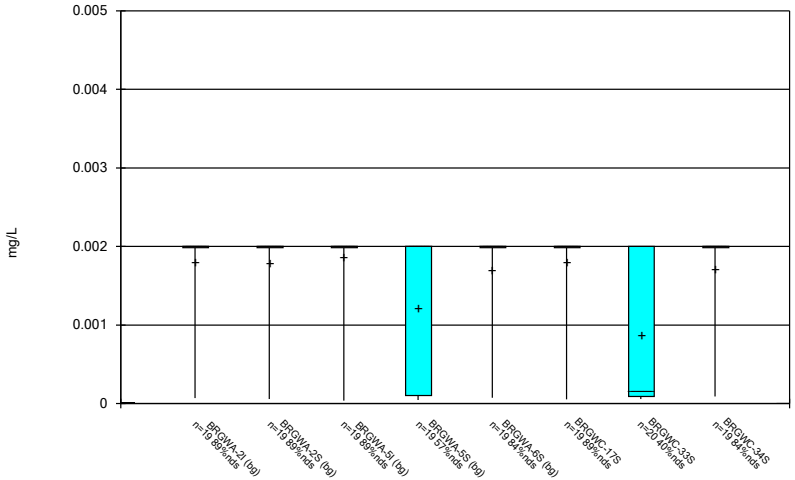
Box & Whiskers Plot



Constituent: Lead Analysis Run 10/23/2023 10:56 AM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

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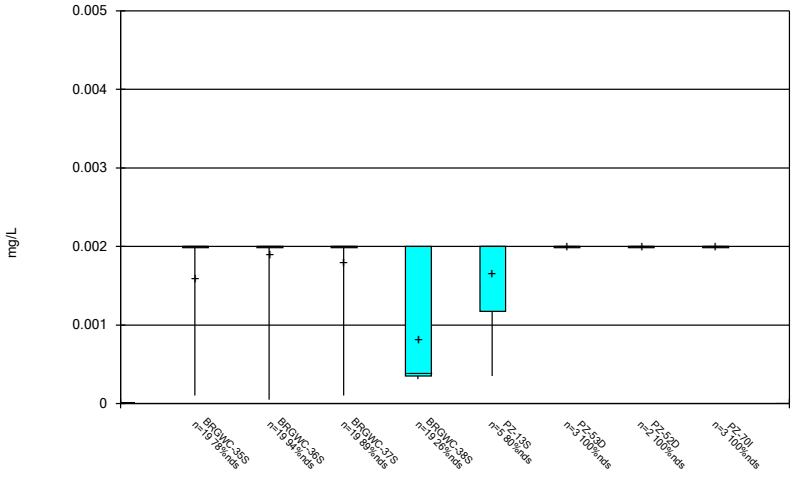
Box & Whiskers Plot



Constituent: Lead Analysis Run 10/23/2023 10:56 AM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

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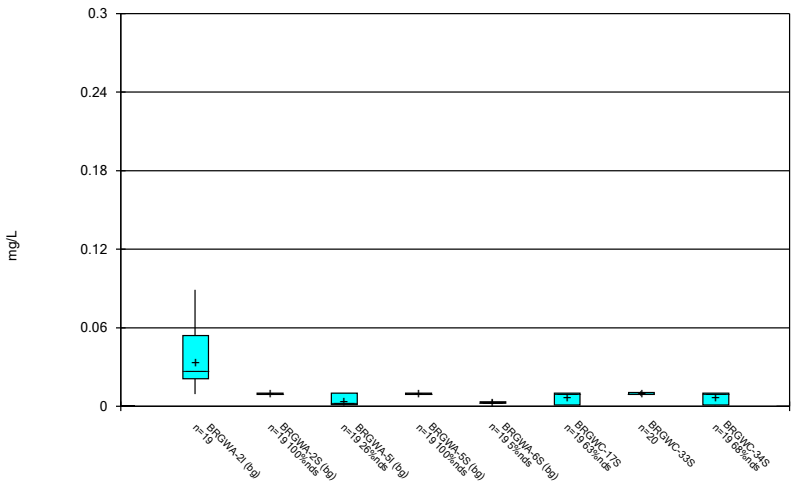
Box & Whiskers Plot



Constituent: Lithium Analysis Run 10/23/2023 10:56 AM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

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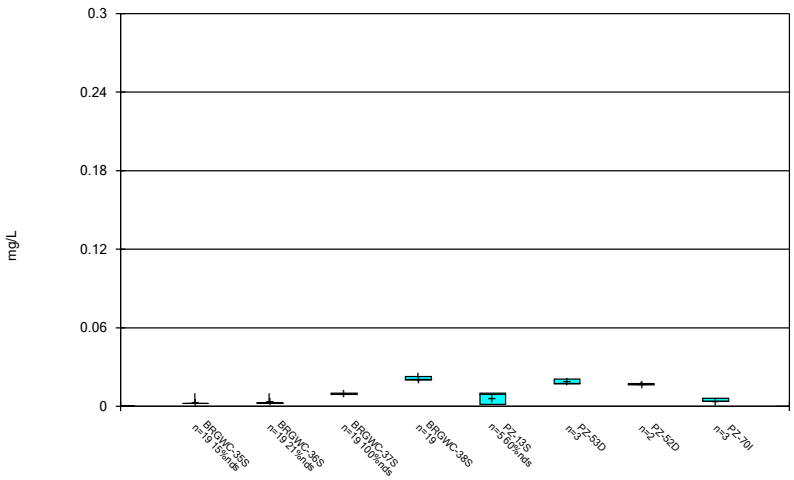
Box & Whiskers Plot



Constituent: Lithium Analysis Run 10/23/2023 10:56 AM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

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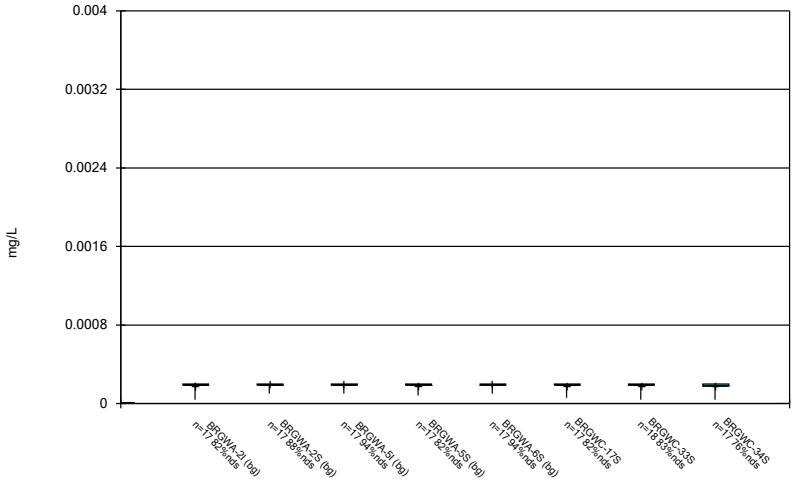

Constituent: Mercury Analysis Run 10/23/2023 10:56 AM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

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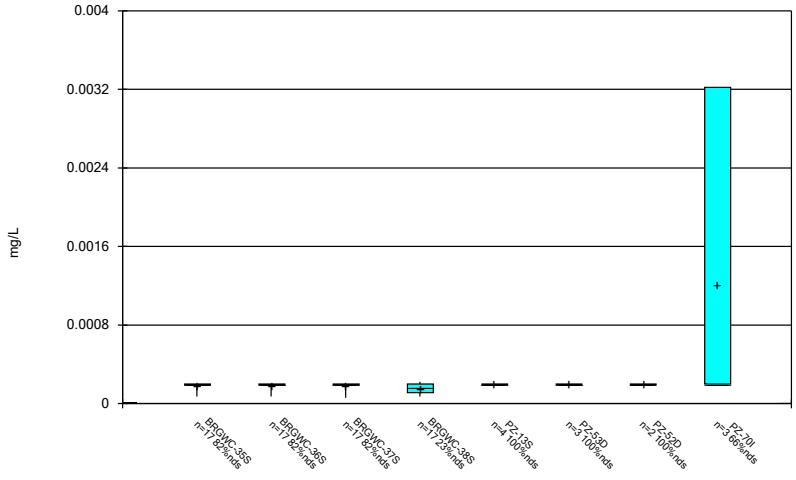
Box & Whiskers Plot



Constituent: Mercury Analysis Run 10/23/2023 10:56 AM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

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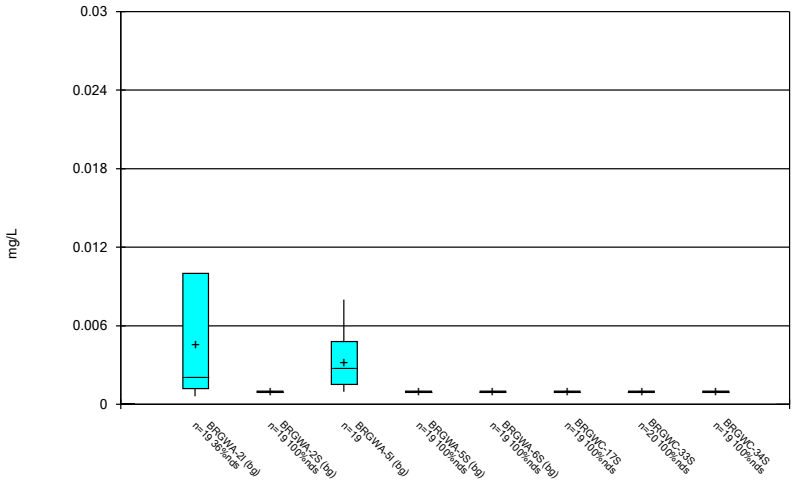
Box & Whiskers Plot



Constituent: Molybdenum Analysis Run 10/23/2023 10:56 AM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

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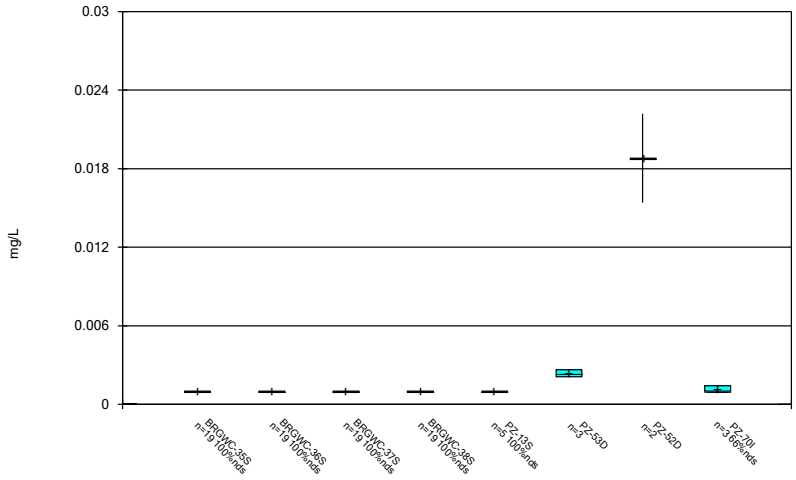
Box & Whiskers Plot



Constituent: Molybdenum Analysis Run 10/23/2023 10:56 AM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

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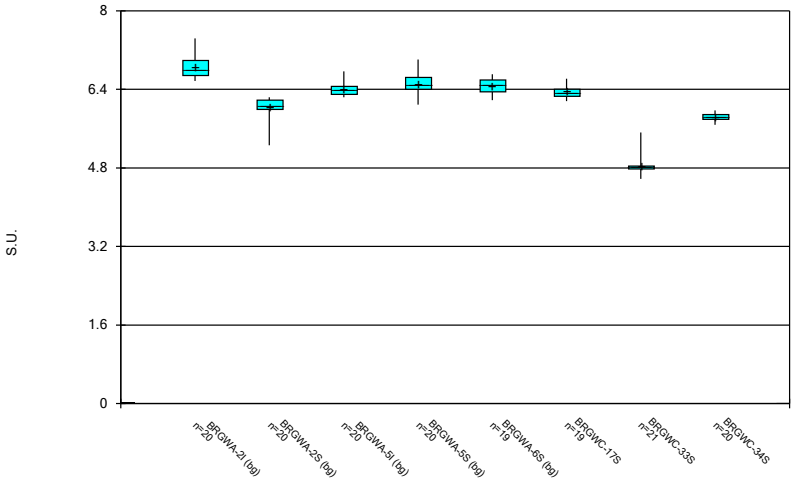
Box & Whiskers Plot



Constituent: pH, Field Analysis Run 10/23/2023 10:56 AM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

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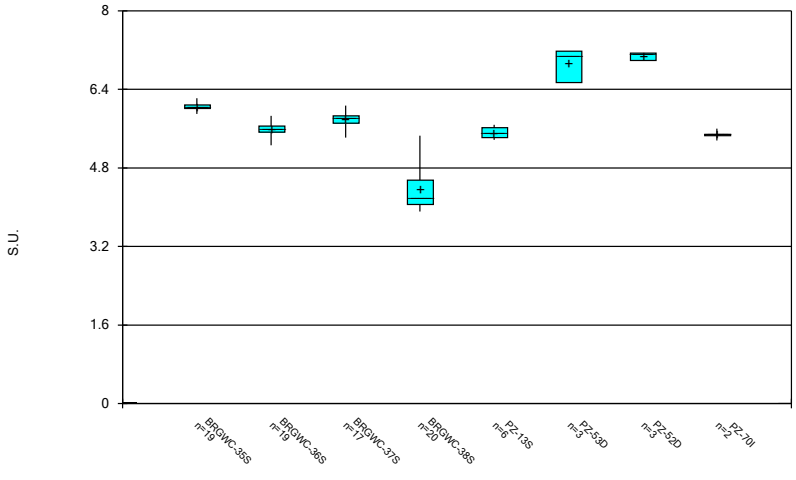

Constituent: pH, Field Analysis Run 10/23/2023 10:56 AM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

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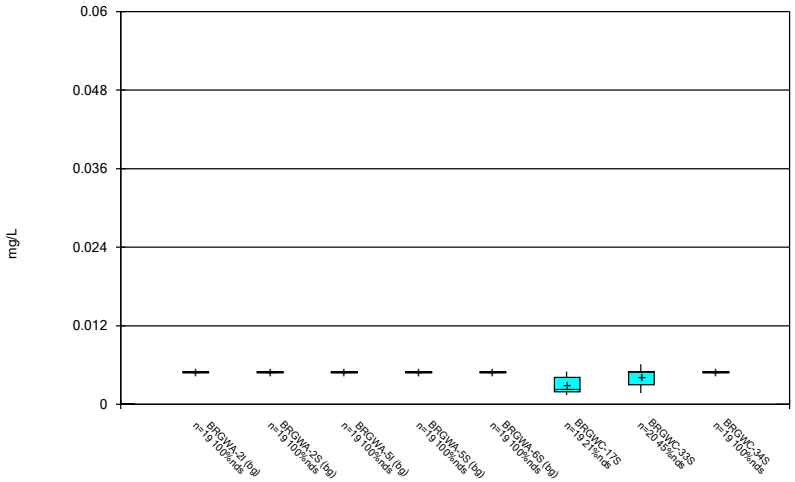
Box & Whiskers Plot



Constituent: Selenium Analysis Run 10/23/2023 10:56 AM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

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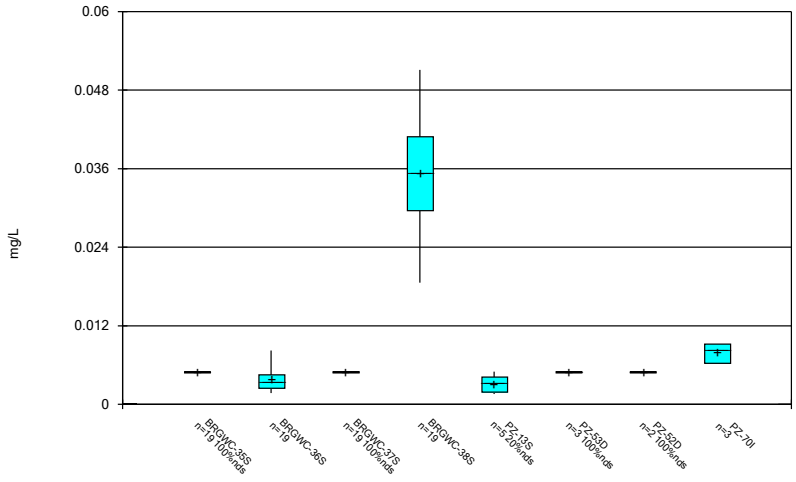
Box & Whiskers Plot



Constituent: Selenium Analysis Run 10/23/2023 10:56 AM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

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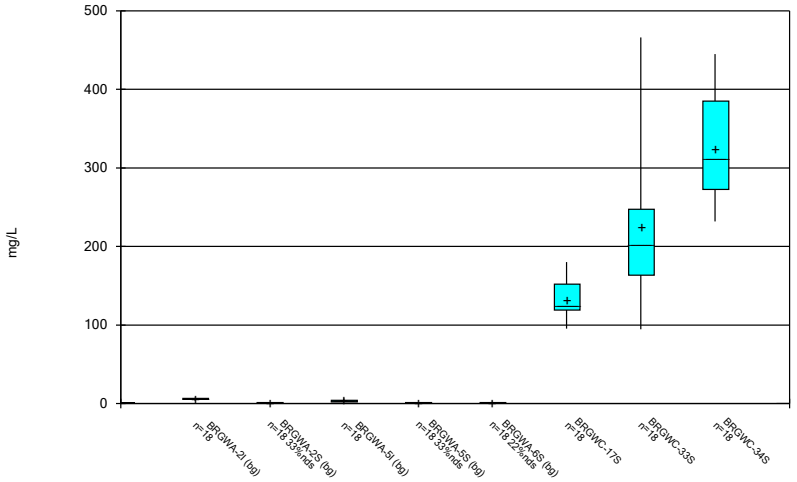

Constituent: Sulfate Analysis Run 10/23/2023 10:56 AM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

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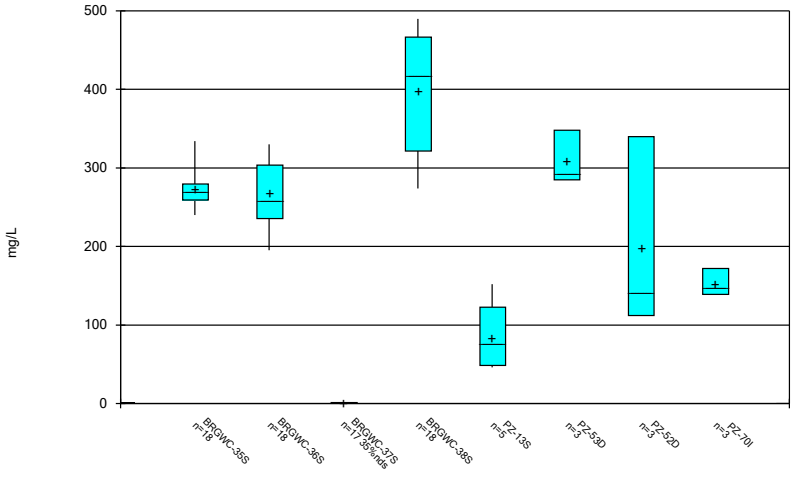
Box & Whiskers Plot



Constituent: Sulfate Analysis Run 10/23/2023 10:56 AM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

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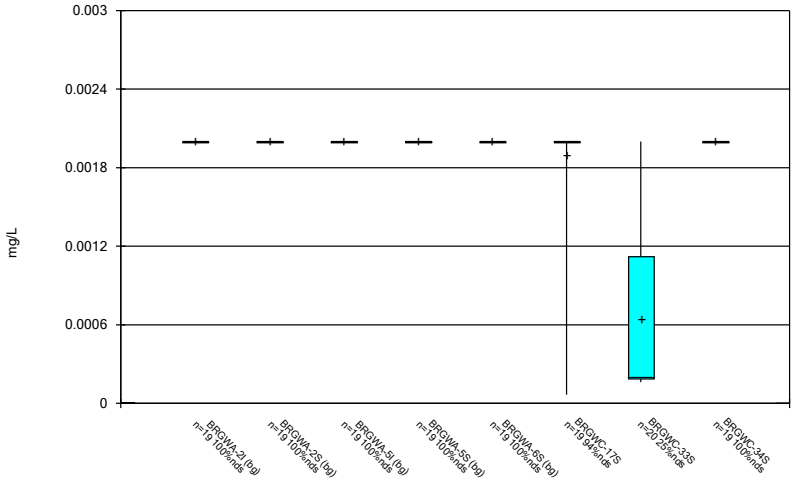
Box & Whiskers Plot



Constituent: Thallium Analysis Run 10/23/2023 10:56 AM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

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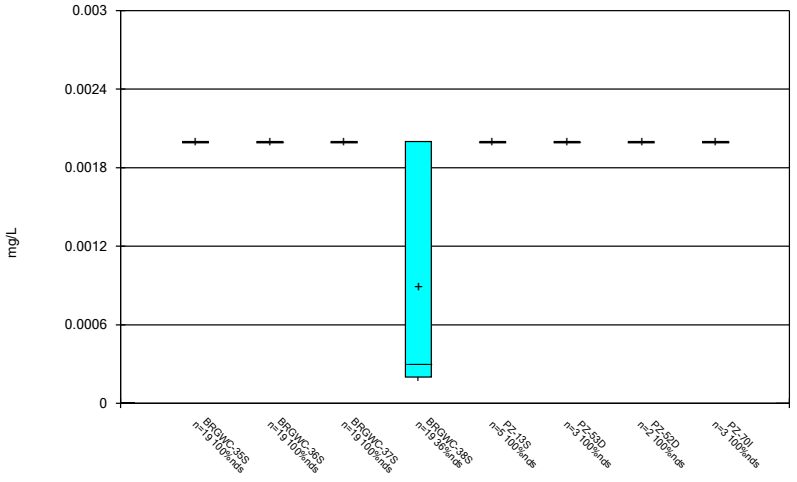
Box & Whiskers Plot



Constituent: Thallium Analysis Run 10/23/2023 10:57 AM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

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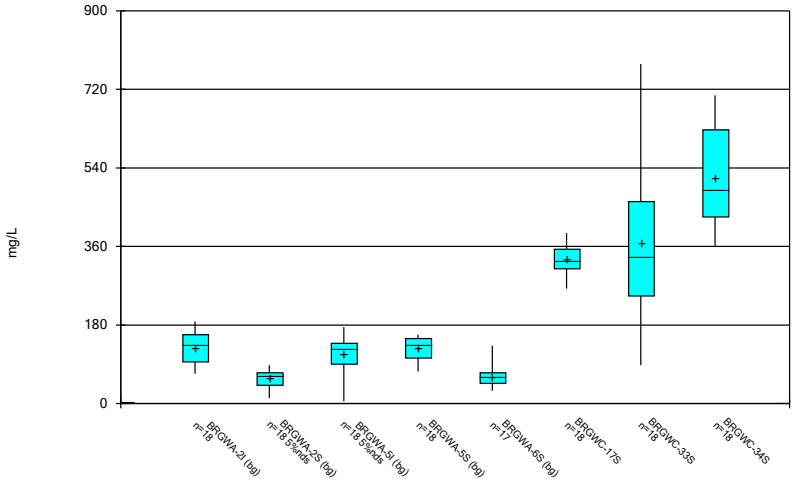
Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 10/23/2023 10:57 AM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

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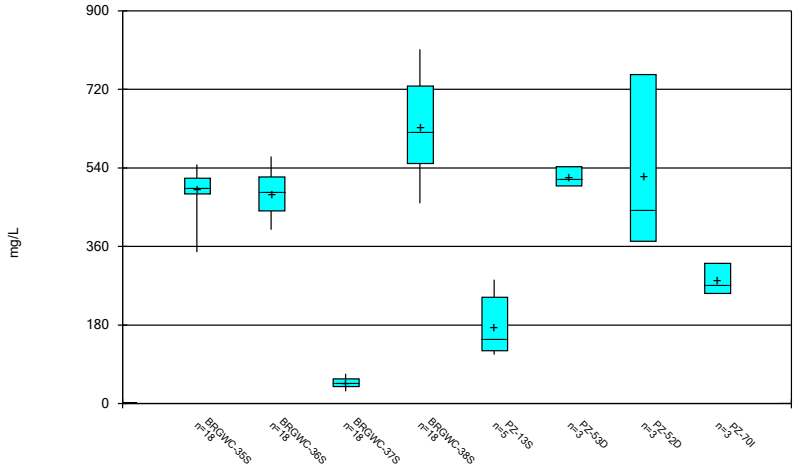
Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 10/23/2023 10:57 AM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

FIGURE C.

Outlier Summary

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 10/23/2023, 11:03 AM

	BRGWA-5I Cobalt (mg/L)	BRGWC-37S Sulfate (mg/L)	BRGWA-6S Total Dissolved Solids (mg/L)
9/1/2016			299 (o)
11/16/2016	<0.01 (o)		
2/13/2018	<0.01 (o)		
2/15/2018		1.9 (o)	

FIGURE D.

Interwell Prediction Limits - Significant Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 10/23/2023, 11:11 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	BRGWC-17S	0.0187	n/a	9/6/2023	0.0601	Yes	90	n/a	n/a	62.22	n/a	n/a	0.0002371	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-33S	0.0187	n/a	9/1/2023	0.946	Yes	90	n/a	n/a	62.22	n/a	n/a	0.0002371	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-34S	0.0187	n/a	9/1/2023	1.9	Yes	90	n/a	n/a	62.22	n/a	n/a	0.0002371	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-35S	0.0187	n/a	9/7/2023	2.36	Yes	90	n/a	n/a	62.22	n/a	n/a	0.0002371	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-36S	0.0187	n/a	9/7/2023	1.04	Yes	90	n/a	n/a	62.22	n/a	n/a	0.0002371	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-38S	0.0187	n/a	9/7/2023	1.37	Yes	90	n/a	n/a	62.22	n/a	n/a	0.0002371	NP Inter (NDs) 1 of 2
Calcium (mg/L)	BRGWC-17S	24	n/a	9/7/2023	47.9	Yes	90	n/a	n/a	3.333	n/a	n/a	0.0002371	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-33S	24	n/a	9/1/2023	135	Yes	90	n/a	n/a	3.333	n/a	n/a	0.0002371	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-34S	24	n/a	9/1/2023	83.4	Yes	90	n/a	n/a	3.333	n/a	n/a	0.0002371	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-35S	24	n/a	9/7/2023	71.4	Yes	90	n/a	n/a	3.333	n/a	n/a	0.0002371	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-36S	24	n/a	9/6/2023	43.4	Yes	90	n/a	n/a	3.333	n/a	n/a	0.0002371	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-38S	24	n/a	9/7/2023	28.7	Yes	90	n/a	n/a	3.333	n/a	n/a	0.0002371	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-17S	4.8	n/a	8/24/2023	5.18	Yes	90	n/a	n/a	0	n/a	n/a	0.0002371	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-33S	4.8	n/a	8/24/2023	32.7	Yes	90	n/a	n/a	0	n/a	n/a	0.0002371	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-34S	4.8	n/a	8/24/2023	13.2	Yes	90	n/a	n/a	0	n/a	n/a	0.0002371	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-35S	4.8	n/a	8/24/2023	6.21	Yes	90	n/a	n/a	0	n/a	n/a	0.0002371	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-36S	4.8	n/a	8/24/2023	8.26	Yes	90	n/a	n/a	0	n/a	n/a	0.0002371	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-38S	4.8	n/a	8/24/2023	6.44	Yes	90	n/a	n/a	0	n/a	n/a	0.0002371	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-17S	0.289	n/a	8/24/2023	0.484	Yes	100	n/a	n/a	53	n/a	n/a	0.0001929	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	BRGWC-35S	0.289	n/a	8/24/2023	0.347	Yes	100	n/a	n/a	53	n/a	n/a	0.0001929	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	BRGWC-36S	0.289	n/a	8/25/2023	0.301	Yes	100	n/a	n/a	53	n/a	n/a	0.0001929	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	BRGWC-38S	0.289	n/a	8/24/2023	0.748	Yes	100	n/a	n/a	53	n/a	n/a	0.0001929	NP Inter (NDs) 1 of 2
pH, Field (S.U.)	BRGWC-33S	7.44	5.26	8/22/2023	4.58	Yes	99	n/a	n/a	0	n/a	n/a	0.0003947	NP Inter (normality) 1 of 2
pH, Field (S.U.)	BRGWC-38S	7.44	5.26	8/23/2023	3.91	Yes	99	n/a	n/a	0	n/a	n/a	0.0003947	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-17S	7.5	n/a	8/25/2023	180	Yes	90	n/a	n/a	17.78	n/a	n/a	0.0002371	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-33S	7.5	n/a	8/24/2023	466	Yes	90	n/a	n/a	17.78	n/a	n/a	0.0002371	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-34S	7.5	n/a	8/24/2023	299	Yes	90	n/a	n/a	17.78	n/a	n/a	0.0002371	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-35S	7.5	n/a	8/25/2023	269	Yes	90	n/a	n/a	17.78	n/a	n/a	0.0002371	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-36S	7.5	n/a	8/25/2023	223	Yes	90	n/a	n/a	17.78	n/a	n/a	0.0002371	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-38S	7.5	n/a	8/25/2023	274	Yes	90	n/a	n/a	17.78	n/a	n/a	0.0002371	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-17S	180	n/a	8/28/2023	391	Yes	89	98.31	43.33	2.247	None	No	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-33S	180	n/a	8/25/2023	778	Yes	89	98.31	43.33	2.247	None	No	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-34S	180	n/a	8/25/2023	495	Yes	89	98.31	43.33	2.247	None	No	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-35S	180	n/a	8/29/2023	485	Yes	89	98.31	43.33	2.247	None	No	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-36S	180	n/a	8/29/2023	398	Yes	89	98.31	43.33	2.247	None	No	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-38S	180	n/a	8/29/2023	459	Yes	89	98.31	43.33	2.247	None	No	0.001075	Param Inter 1 of 2

Interwell Prediction Limits - All Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 10/23/2023, 11:11 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	**BRGWC-17S**	**0.0187**	**n/a**	**9/6/2023**	**0.0601**	**Yes**	**90**	**n/a**	**n/a**	**62.22**	**n/a**	**n/a**	**0.0002371**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**BRGWC-33S**	**0.0187**	**n/a**	**9/1/2023**	**0.946**	**Yes**	**90**	**n/a**	**n/a**	**62.22**	**n/a**	**n/a**	**0.0002371**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**BRGWC-34S**	**0.0187**	**n/a**	**9/1/2023**	**1.9**	**Yes**	**90**	**n/a**	**n/a**	**62.22**	**n/a**	**n/a**	**0.0002371**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**BRGWC-35S**	**0.0187**	**n/a**	**9/7/2023**	**2.36**	**Yes**	**90**	**n/a**	**n/a**	**62.22**	**n/a**	**n/a**	**0.0002371**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**BRGWC-36S**	**0.0187**	**n/a**	**9/7/2023**	**1.04**	**Yes**	**90**	**n/a**	**n/a**	**62.22**	**n/a**	**n/a**	**0.0002371**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	BRGWC-37S	0.0187	n/a	8/31/2023	0.00802J	No	90	n/a	n/a	62.22	n/a	n/a	0.0002371	NP Inter (NDs) 1 of 2
Boron (mg/L)	**BRGWC-38S**	**0.0187**	**n/a**	**9/7/2023**	**1.37**	**Yes**	**90**	**n/a**	**n/a**	**62.22**	**n/a**	**n/a**	**0.0002371**	**NP Inter (NDs) 1 of 2**
Calcium (mg/L)	**BRGWC-17S**	**24**	**n/a**	**9/7/2023**	**47.9**	**Yes**	**90**	**n/a**	**n/a**	**3.333**	**n/a**	**n/a**	**0.0002371**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**BRGWC-33S**	**24**	**n/a**	**9/1/2023**	**135**	**Yes**	**90**	**n/a**	**n/a**	**3.333**	**n/a**	**n/a**	**0.0002371**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**BRGWC-34S**	**24**	**n/a**	**9/1/2023**	**83.4**	**Yes**	**90**	**n/a**	**n/a**	**3.333**	**n/a**	**n/a**	**0.0002371**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**BRGWC-35S**	**24**	**n/a**	**9/7/2023**	**71.4**	**Yes**	**90**	**n/a**	**n/a**	**3.333**	**n/a**	**n/a**	**0.0002371**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**BRGWC-36S**	**24**	**n/a**	**9/6/2023**	**43.4**	**Yes**	**90**	**n/a**	**n/a**	**3.333**	**n/a**	**n/a**	**0.0002371**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	BRGWC-37S	24	n/a	8/31/2023	3.47	No	90	n/a	n/a	3.333	n/a	n/a	0.0002371	NP Inter (normality) 1 of 2
Calcium (mg/L)	**BRGWC-38S**	**24**	**n/a**	**9/7/2023**	**28.7**	**Yes**	**90**	**n/a**	**n/a**	**3.333**	**n/a**	**n/a**	**0.0002371**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**BRGWC-17S**	**4.8**	**n/a**	**8/24/2023**	**5.18**	**Yes**	**90**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0002371**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**BRGWC-33S**	**4.8**	**n/a**	**8/24/2023**	**32.7**	**Yes**	**90**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0002371**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**BRGWC-34S**	**4.8**	**n/a**	**8/24/2023**	**13.2**	**Yes**	**90**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0002371**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**BRGWC-35S**	**4.8**	**n/a**	**8/24/2023**	**6.21**	**Yes**	**90**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0002371**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**BRGWC-36S**	**4.8**	**n/a**	**8/24/2023**	**8.26**	**Yes**	**90**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0002371**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	BRGWC-37S	4.8	n/a	8/23/2023	1.89	No	90	n/a	n/a	0	n/a	n/a	0.0002371	NP Inter (normality) 1 of 2
Chloride (mg/L)	**BRGWC-38S**	**4.8**	**n/a**	**8/24/2023**	**6.44**	**Yes**	**90**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0002371**	**NP Inter (normality) 1 of 2**
Fluoride (mg/L)	**BRGWC-17S**	**0.289**	**n/a**	**8/24/2023**	**0.484**	**Yes**	**100**	**n/a**	**n/a**	**53**	**n/a**	**n/a**	**0.0001929**	**NP Inter (NDs) 1 of 2**
Fluoride (mg/L)	BRGWC-33S	0.289	n/a	8/23/2023	0.123	No	100	n/a	n/a	53	n/a	n/a	0.0001929	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	BRGWC-34S	0.289	n/a	8/24/2023	0.0816J	No	100	n/a	n/a	53	n/a	n/a	0.0001929	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	**BRGWC-35S**	**0.289**	**n/a**	**8/24/2023**	**0.347**	**Yes**	**100**	**n/a**	**n/a**	**53**	**n/a**	**n/a**	**0.0001929**	**NP Inter (NDs) 1 of 2**
Fluoride (mg/L)	**BRGWC-36S**	**0.289**	**n/a**	**8/25/2023**	**0.301**	**Yes**	**100**	**n/a**	**n/a**	**53**	**n/a**	**n/a**	**0.0001929**	**NP Inter (NDs) 1 of 2**
Fluoride (mg/L)	BRGWC-37S	0.289	n/a	8/23/2023	0.0445J	No	100	n/a	n/a	53	n/a	n/a	0.0001929	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	**BRGWC-38S**	**0.289**	**n/a**	**8/24/2023**	**0.748**	**Yes**	**100**	**n/a**	**n/a**	**53**	**n/a**	**n/a**	**0.0001929**	**NP Inter (NDs) 1 of 2**
pH, Field (S.U.)	BRGWC-17S	7.44	5.26	8/23/2023	6.16	No	99	n/a	n/a	0	n/a	n/a	0.0003947	NP Inter (normality) 1 of 2
pH, Field (S.U.)	**BRGWC-33S**	**7.44**	**5.26**	**8/22/2023**	**4.58**	**Yes**	**99**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0003947**	**NP Inter (normality) 1 of 2**
pH, Field (S.U.)	BRGWC-34S	7.44	5.26	8/22/2023	5.72	No	99	n/a	n/a	0	n/a	n/a	0.0003947	NP Inter (normality) 1 of 2
pH, Field (S.U.)	BRGWC-35S	7.44	5.26	8/23/2023	5.9	No	99	n/a	n/a	0	n/a	n/a	0.0003947	NP Inter (normality) 1 of 2
pH, Field (S.U.)	BRGWC-36S	7.44	5.26	8/23/2023	5.26	No	99	n/a	n/a	0	n/a	n/a	0.0003947	NP Inter (normality) 1 of 2
pH, Field (S.U.)	BRGWC-37S	7.44	5.26	8/22/2023	5.42	No	99	n/a	n/a	0	n/a	n/a	0.0003947	NP Inter (normality) 1 of 2
pH, Field (S.U.)	**BRGWC-38S**	**7.44**	**5.26**	**8/23/2023**	**3.91**	**Yes**	**99**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0003947**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**BRGWC-17S**	**7.5**	**n/a**	**8/25/2023**	**180**	**Yes**	**90**	**n/a**	**n/a**	**17.78**	**n/a**	**n/a**	**0.0002371**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**BRGWC-33S**	**7.5**	**n/a**	**8/24/2023**	**466**	**Yes**	**90**	**n/a**	**n/a**	**17.78**	**n/a**	**n/a**	**0.0002371**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**BRGWC-34S**	**7.5**	**n/a**	**8/24/2023**	**299**	**Yes**	**90**	**n/a**	**n/a**	**17.78**	**n/a**	**n/a**	**0.0002371**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**BRGWC-35S**	**7.5**	**n/a**	**8/25/2023**	**269**	**Yes**	**90**	**n/a**	**n/a**	**17.78**	**n/a**	**n/a**	**0.0002371**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**BRGWC-36S**	**7.5**	**n/a**	**8/25/2023**	**223**	**Yes**	**90**	**n/a**	**n/a**	**17.78**	**n/a**	**n/a**	**0.0002371**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	BRGWC-37S	7.5	n/a	8/23/2023	0.355J	No	90	n/a	n/a	17.78	n/a	n/a	0.0002371	NP Inter (normality) 1 of 2
Sulfate (mg/L)	**BRGWC-38S**	**7.5**	**n/a**	**8/25/2023**	**274**	**Yes**	**90**	**n/a**	**n/a**	**17.78**	**n/a**	**n/a**	**0.0002371**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids (mg/L)	**BRGWC-17S**	**180**	**n/a**	**8/28/2023**	**391**	**Yes**	**89**	**98.31**	**43.33**	**2.247**	**None**	**No**	**0.001075**	**Param Inter 1 of 2**
Total Dissolved Solids (mg/L)	**BRGWC-33S**	**180**	**n/a**	**8/25/2023**	**778**	**Yes**	**89**	**98.31**	**43.33**	**2.247**	**None**	**No**	**0.001075**	**Param Inter 1 of 2**
Total Dissolved Solids (mg/L)	**BRGWC-34S**	**180**	**n/a**	**8/25/2023**	**495**	**Yes**	**89**	**98.31**	**43.33**	**2.247**	**None**	**No**	**0.001075**	**Param Inter 1 of 2**
Total Dissolved Solids (mg/L)	**BRGWC-35S**	**180**	**n/a**	**8/29/2023**	**485**	**Yes**	**89**	**98.31**	**43.33**	**2.247**	**None**	**No**	**0.001075**	**Param Inter 1 of 2**
Total Dissolved Solids (mg/L)	**BRGWC-36S**	**180**	**n/a**	**8/29/2023**	**398**	**Yes**	**89**	**98.31**	**43.33**	**2.247**	**None**	**No**	**0.001075**	**Param Inter 1 of 2**
Total Dissolved Solids (mg/L)	BRGWC-37S	180	n/a	8/25/2023	42	No	89	98.31	43.33	2.247	None	No	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	**BRGWC-38S**	**180**	**n/a**	**8/29/2023**	**459**	**Yes**	**89**	**98.31**	**43.33**	**2.247**	**None**	**No**	**0.001075**	**Param Inter 1 of 2**

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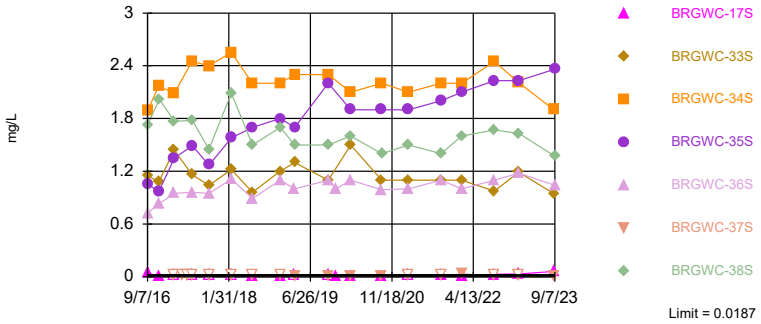
Hollow symbols indicate censored values.

Exceeds Limit: BRGWC-17S, BRGWC-33S, BRGWC-34S, BRGWC-35S, BRGWC-36S, BRGWC-38S

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 90 background values. 62.22% NDs. Annual per-constituent alpha = 0.003314. Individual comparison alpha = 0.0002371 (1 of 2). Comparing 7 points to limit.

Constituent: Boron Analysis Run 10/23/2023 11:07 AM View: Pond E - Appendix III
Plant Branch Client: Southern Company Data: Plant Branch AP

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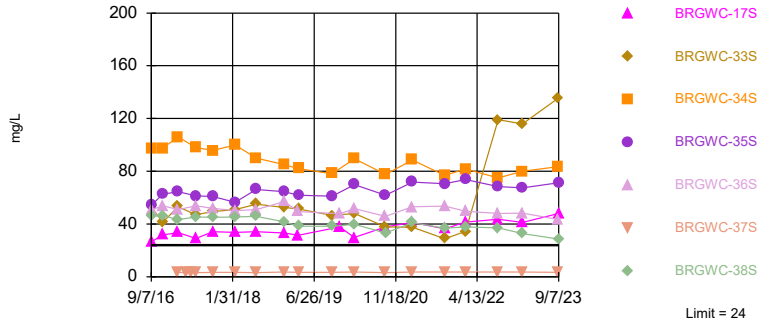
Exceeds Limit: BRGWC-17S, BRGWC-33S, BRGWC-34S, BRGWC-35S, BRGWC-36S, BRGWC-38S

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 90 background values. 3.333% NDs. Annual per-constituent alpha = 0.003314. Individual comparison alpha = 0.0002371 (1 of 2). Comparing 7 points to limit.

Constituent: Calcium Analysis Run 10/23/2023 11:07 AM View: Pond E - Appendix III
Plant Branch Client: Southern Company Data: Plant Branch AP

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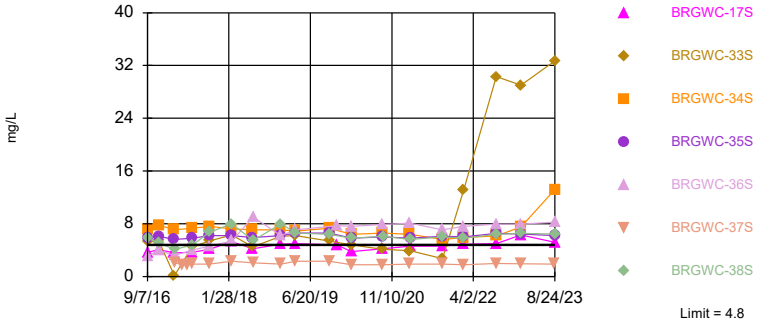
Exceeds Limit: BRGWC-17S, BRGWC-33S, BRGWC-34S, BRGWC-35S, BRGWC-36S, BRGWC-38S

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 90 background values. Annual per-constituent alpha = 0.003314. Individual comparison alpha = 0.0002371 (1 of 2). Comparing 7 points to limit.

Constituent: Chloride Analysis Run 10/23/2023 11:07 AM View: Pond E - Appendix III
Plant Branch Client: Southern Company Data: Plant Branch AP

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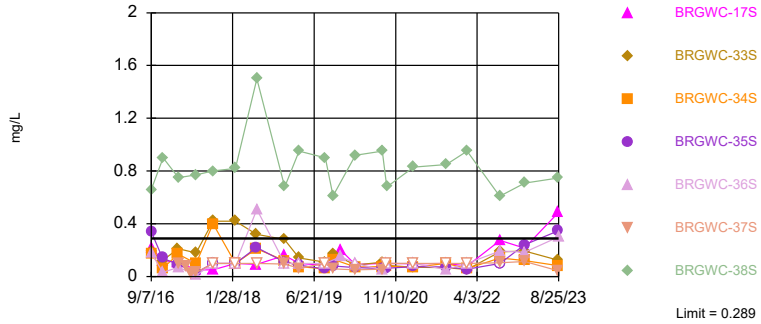
Hollow symbols indicate censored values.

Exceeds Limit: BRGWC-17S, BRGWC-35S, BRGWC-36S, BRGWC-38S

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 100 background values. 53% NDs. Annual per-constituent alpha = 0.002698. Individual comparison alpha = 0.0001929 (1 of 2). Comparing 7 points to limit.

Constituent: Fluoride Analysis Run 10/23/2023 11:07 AM View: Pond E - Appendix III
Plant Branch Client: Southern Company Data: Plant Branch AP

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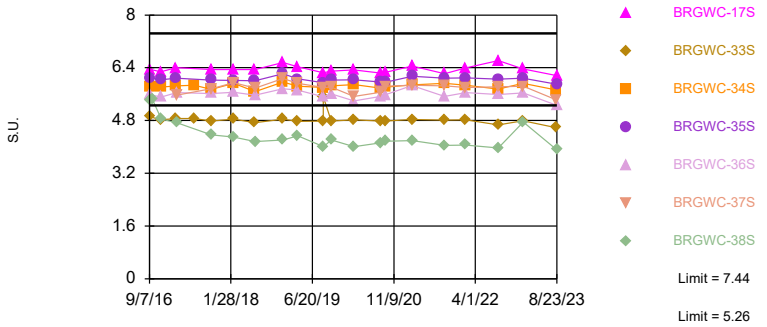
Exceeds Limits: BRGWC-33S, BRGWC-38S

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 99 background values. Annual per-constituent alpha = 0.005519. Individual comparison alpha = 0.0003947 (1 of 2). Comparing 7 points to limit.

Constituent: pH, Field Analysis Run 10/23/2023 11:07 AM View: Pond E - Appendix III

Plant Branch Client: Southern Company Data: Plant Branch AP

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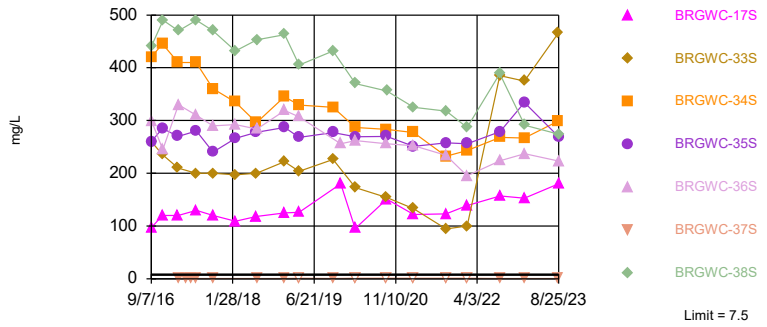
Hollow symbols indicate censored values.

Exceeds Limit: BRGWC-17S, BRGWC-33S, BRGWC-34S, BRGWC-35S, BRGWC-36S, BRGWC-38S

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 90 background values. 17.78% NDs. Annual per-constituent alpha = 0.003314. Individual comparison alpha = 0.0002371 (1 of 2). Comparing 7 points to limit.

Constituent: Sulfate Analysis Run 10/23/2023 11:07 AM View: Pond E - Appendix III

Plant Branch Client: Southern Company Data: Plant Branch AP

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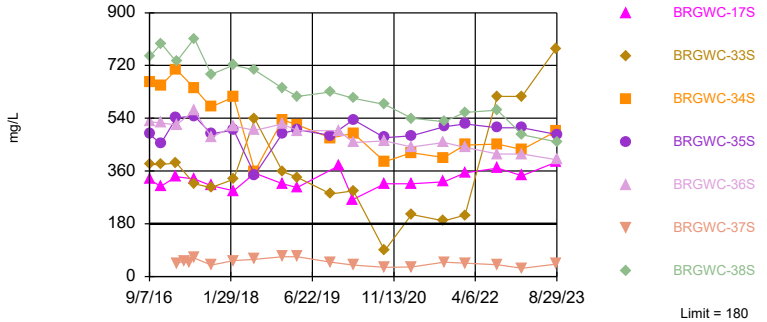
Exceeds Limit: BRGWC-17S, BRGWC-33S, BRGWC-34S, BRGWC-35S, BRGWC-36S, BRGWC-38S

Prediction Limit

Interwell Parametric



Background Data Summary: Mean=98.31, Std. Dev.=43.33, n=89, 2.247% NDs. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9724, critical = 0.961. Kappa = 1.886 (c=7, w=7, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.001075. Comparing 7 points to limit.

Constituent: Total Dissolved Solids Analysis Run 10/23/2023 11:07 AM View: Pond E - Appendix III

Plant Branch Client: Southern Company Data: Plant Branch AP

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 10/23/2023 11:11 AM View: Pond E - Appendix III

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5S (bg)	BRGWA-5I (bg)	BRGWA-6S (bg)	BRGWC-33S	BRGWC-38S	BRGWC-17S	BRGWC-36S
8/31/2016	0.0072 (J)	<0.015	<0.015	<0.015					
9/1/2016					<0.015				
9/7/2016						1.15	1.73	0.0449 (J)	0.725
9/8/2016									
11/15/2016			0.0085 (J)		0.0123 (J)				
11/16/2016	0.0117 (J)	0.0109 (J)		0.0187 (J)					
11/17/2016						1.08		0.0067 (J)	
11/18/2016									0.831
11/21/2016							2.02		
2/20/2017			0.0093 (J)	0.0066 (J)	0.0157 (J)				
2/21/2017	0.0088 (J)	<0.015							
2/22/2017						1.44		<0.015	
2/23/2017							1.77		0.949
4/17/2017									
5/15/2017									
6/12/2017	0.0133 (J)		<0.015	<0.015	<0.015				
6/13/2017		<0.015							
6/14/2017						1.16			
6/15/2017							1.78	<0.015	0.961
9/26/2017	0.0093 (J)	<0.015	<0.015	<0.015	<0.015				
9/27/2017						1.04			
9/28/2017							1.45	<0.015	0.948
2/13/2018	0.0141 (J)	<0.015	<0.015	<0.015	<0.015				
2/15/2018						1.22	2.09	<0.015	1.11
6/26/2018	0.012 (J)	<0.015	0.0056 (J)	0.0042 (J)	0.0041 (J)				
6/27/2018						0.96 (J+X)		0.0088 (J+X)	
6/28/2018							1.5		0.89
12/18/2018	0.0086 (J)	<0.015	0.0062 (J)	<0.015	<0.015	1.2			
12/19/2018								0.0045 (J)	1.1
12/20/2018							1.7		
3/19/2019	0.00565 (JD)	<0.015	<0.015	<0.015	<0.015			<0.015	1
3/20/2019						1.3	1.5		
10/15/2019	0.0067 (J)	<0.015	0.006 (J)	<0.015	0.01 (J)				
10/16/2019						1.1	1.5		
10/17/2019								<0.015	1.1
12/3/2019								0.0063 (J)	1
3/3/2020	0.0082 (J)	<0.015	<0.015	<0.015	<0.015			0.0075 (J)	
3/5/2020						1.5	1.6		1.1
9/15/2020	<0.015	<0.015	<0.015	<0.015	<0.015				
9/16/2020						1.1		0.0066 (J)	0.99
9/17/2020							1.4		
3/1/2021	<0.015				<0.015				
3/2/2021		<0.015	0.0071 (J)	0.0053 (J)					
3/3/2021						1.1			1
3/4/2021							1.5	<0.015	
9/21/2021			<0.015	<0.015					
9/22/2021	<0.015	<0.015			<0.015	1.1		0.02 (J)	1.1
9/23/2021							1.4		
2/1/2022	<0.015	<0.015	<0.015	<0.015	<0.015	1.1	1.6	0.013 (J)	1
2/2/2022									
8/23/2022	0.00592 (J)	0.00532 (J)	0.00538 (J)	<0.015	<0.015	0.975	1.67		
8/24/2022								0.0273	1.1

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 10/23/2023 11:11 AM View: Pond E - Appendix III

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5S (bg)	BRGWA-5I (bg)	BRGWA-6S (bg)	BRGWC-33S	BRGWC-38S	BRGWC-17S	BRGWC-36S
1/24/2023	<0.015	<0.015	<0.015	<0.015	<0.015	1.19		0.0326	
1/25/2023							1.63		1.18
8/31/2023	0.00649 (J)	0.00738 (J)	0.00764 (J)	0.0073 (J)	0.00611 (J)				
9/1/2023						0.946			
9/6/2023								0.0601	
9/7/2023							1.37		1.04

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 10/23/2023 11:11 AM View: Pond E - Appendix III

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-35S	BRGWC-34S	BRGWC-37S
8/31/2016			
9/1/2016			
9/7/2016	1.06		
9/8/2016		1.89	
11/15/2016			
11/16/2016			
11/17/2016	0.967	2.17	
11/18/2016			
11/21/2016			
2/20/2017			
2/21/2017			
2/22/2017	1.35	2.09	
2/23/2017			<0.015
4/17/2017			<0.015
5/15/2017			<0.015
6/12/2017			
6/13/2017			
6/14/2017		2.45	
6/15/2017	1.49		<0.015
9/26/2017			
9/27/2017		2.4	
9/28/2017	1.27		<0.015
2/13/2018			
2/15/2018	1.58	2.55	<0.015
6/26/2018			
6/27/2018	1.7 (J+X)	2.2 (J+X)	
6/28/2018			<0.015 (X)
12/18/2018		2.2	
12/19/2018	1.8		<0.015
12/20/2018			
3/19/2019			
3/20/2019	1.7	2.3	0.004 (J)
10/15/2019			
10/16/2019	2.2	2.3	0.0055 (J)
10/17/2019			
12/3/2019			
3/3/2020			
3/5/2020	1.9	2.1	0.0076 (J)
9/15/2020			
9/16/2020	1.9	2.2	0.0062 (J)
9/17/2020			
3/1/2021			
3/2/2021			
3/3/2021		2.1	<0.015
3/4/2021	1.9		
9/21/2021			
9/22/2021		2.2	
9/23/2021	2		<0.015
2/1/2022	2.1	2.2	
2/2/2022			0.032 (J)
8/23/2022			<0.015
8/24/2022	2.23	2.45	

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 10/23/2023 11:11 AM View: Pond E - Appendix III

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-35S	BRGWC-34S	BRGWC-37S
1/24/2023	2.23	2.21	
1/25/2023			<0.015
8/31/2023			0.00802 (J)
9/1/2023		1.9	
9/6/2023			
9/7/2023	2.36		

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 10/23/2023 11:11 AM View: Pond E - Appendix III

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-5S (bg)	BRGWA-5I (bg)	BRGWA-2S (bg)	BRGWA-6S (bg)	BRGWC-17S	BRGWC-35S	BRGWC-38S	BRGWC-36S
8/31/2016	12.6	19.6	13.5	4.09					
9/1/2016					3.3				
9/7/2016						26.3	54.1	45.9	50.6
9/8/2016									
11/15/2016		21.7			3.44				
11/16/2016	12.1		14.9	4.25					
11/17/2016						31.8	62.6		
11/18/2016									53.9
11/21/2016								46.4	
2/20/2017		21.1	13.9		3.52				
2/21/2017	11.4			4.02					
2/22/2017						33.5	64.6		
2/23/2017								43.5	51
4/17/2017									
5/15/2017									
6/12/2017	9.34	21.5	13.7		3.11				
6/13/2017				3.84					
6/14/2017									
6/15/2017						29	61.3	45.3	53.8
9/26/2017	14.3	24	14.4	3.31	3.15				
9/27/2017									
9/28/2017						34.1	60.8	45.1	51.8
2/13/2018	<25	<25	<25	3.94	3.65				
2/15/2018						33.8	56.6	45.3	50.1
6/26/2018	16 (J)	23.5 (J)	13.5 (J)	3.6	3.3				
6/27/2018						34.1	66.2		
6/28/2018								45.9	51
12/18/2018	14.5 (J)	19.8 (J)	16.4 (J)	3.8	3.5				
12/19/2018						33.1	64.4		57.1
12/20/2018								41.8	
3/19/2019	14.3 (JD)	21.4 (J)	12.3 (J)	3.9	3.6	31.6			49.5
3/20/2019							61.8	38.2	
10/15/2019	15.1	20	14.4	3.7	3.5				
10/16/2019							61.2	38.4	
12/3/2019						37.7			47.8
3/3/2020	20	23.2	14.9	4	5	29.7			
3/5/2020							69.9	39.8	51.7
9/15/2020	14.1	16.8	12.7	3.9	3.7				
9/16/2020						37.9	61.8		45.9
9/17/2020								33.1	
3/1/2021	15.4				4.2				
3/2/2021		16.8	13.2	4					
3/3/2021									53
3/4/2021						41.2	71.8	41	
9/21/2021		19.1	14.1						
9/22/2021	15.9			4.3	4.1	36.4			53.7
9/23/2021							70.5	36.8	
2/1/2022	14.4	19.1	14.5	4.4	4.2	41.5	73.8	37.8	49.7
2/2/2022									
8/23/2022	13.9	18.2	14.3	4.65	3.97			37.1	
8/24/2022						43.6	68.5		48.1
1/24/2023	14.2	19.4	15.8	4.86	3.9	41.3	67.5		

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 10/23/2023 11:11 AM View: Pond E - Appendix III

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-5S (bg)	BRGWA-5I (bg)	BRGWA-2S (bg)	BRGWA-6S (bg)	BRGWC-17S	BRGWC-35S	BRGWC-38S	BRGWC-36S
1/25/2023								32.8	48.2
8/31/2023	12.6	14.9	14.3	5.02	3.79				
9/1/2023									
9/6/2023									43.4
9/7/2023						47.9	71.4	28.7	

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 10/23/2023 11:11 AM View: Pond E - Appendix III

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-33S	BRGWC-34S	BRGWC-37S
8/31/2016			
9/1/2016			
9/7/2016	53.4		
9/8/2016		97.3	
11/15/2016			
11/16/2016			
11/17/2016	41.3	97.6	
11/18/2016			
11/21/2016			
2/20/2017			
2/21/2017			
2/22/2017	53.1	106	
2/23/2017			3.26
4/17/2017			3.23
5/15/2017			2.97 (B-01)
6/12/2017			
6/13/2017			
6/14/2017	47.1	98	
6/15/2017			3.15
9/26/2017			
9/27/2017	49.5	95.8	
9/28/2017			3.26
2/13/2018			
2/15/2018	50.9	100	3.39
6/26/2018			
6/27/2018	55.1	90.1	
6/28/2018			3.1
12/18/2018	52.7	85.1	
12/19/2018			3.6
12/20/2018			
3/19/2019			
3/20/2019	51.4	82	3.3
10/15/2019			
10/16/2019	46.5	78.2	3.4
12/3/2019			
3/3/2020			
3/5/2020	48.1	89.6	3.7
9/15/2020			
9/16/2020	37.9	77.7	3.2
9/17/2020			
3/1/2021			
3/2/2021			
3/3/2021	37.5	88.6	3.6
3/4/2021			
9/21/2021			
9/22/2021	28.9	76.9	
9/23/2021			3.7
2/1/2022	34.3	81.7	
2/2/2022			3.7
8/23/2022	119		3.7
8/24/2022		75	
1/24/2023	116	80	

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 10/23/2023 11:11 AM View: Pond E - Appendix III

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-33S	BRGWC-34S	BRGWC-37S
1/25/2023			3.65
8/31/2023			3.47
9/1/2023	135	83.4	
9/6/2023			
9/7/2023			

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 10/23/2023 11:11 AM View: Pond E - Appendix III

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-5S (bg)	BRGWA-5I (bg)	BRGWA-2S (bg)	BRGWA-6S (bg)	BRGWC-33S	BRGWC-36S	BRGWC-17S	BRGWC-38S
8/31/2016	2.3	3.6	4.4	2					
9/1/2016					2.5				
9/7/2016						5.3	3.1	3.7	5.8
9/8/2016									
11/15/2016		4			2.3				
11/16/2016	2		4.4	1.8					
11/17/2016						5.45 (D)		4.05 (D)	
11/18/2016							3.95 (D)		
11/21/2016									5.05 (D)
2/20/2017		3.9	4.8		2.4				
2/21/2017	2			1.8					
2/22/2017						0.12 (J)		3.6	
2/23/2017							3.2		4.1
4/17/2017									
5/15/2017									
6/12/2017	2.1	3.8	4.2		2.2				
6/13/2017				1.7					
6/14/2017						4.5			
6/15/2017							4	3.7	4.8
9/26/2017	2	4.1	4.4	1.8	2.3				
9/27/2017						5.4			
9/28/2017							4.6	4.1	6.7
2/13/2018	2.1	4.1	4.7	1.7	2.3				
2/15/2018						6.3	5.4	5.3	8
6/26/2018	2.4	4.1	4.5	2.2	2.6				
6/27/2018						4.5		4.2	
6/28/2018							9 (J-X)		5.5 (J-X)
12/18/2018	1.8	3.8	4.5	1.9	2.3	6.1			
12/19/2018							6.2 (J-X)	4.9 (J-X)	
12/20/2018									8 (J-X)
3/19/2019	2.45 (D)	4.2	4.5	2	2.6		7.1	5	
3/20/2019						6.2			6.6
10/15/2019	2.2	3.7	4.2	1.9	2.4				
10/16/2019						5.4			6.4
12/3/2019							7.7	4.8	
3/3/2020	1.9	3.6	3.9	1.9	2.9			3.8	
3/5/2020						4.8	7.6		5.8
9/15/2020	1.9	3.7	3.7	1.7	2.3				
9/16/2020						4.1	7.9	4.2	
9/17/2020									6.1
3/1/2021	1.8				2.1				
3/2/2021		3.7	3.8	1.7					
3/3/2021						3.9	8.1		
3/4/2021								4.6	5.6
9/21/2021		3.2	3.2						
9/22/2021	1.7			1.5	2.1	2.7	7.1	4.6	
9/23/2021									6
2/1/2022	1.8	3.4	3.5	1.6	2.1	13.1	7.6	4.9	5.8
2/2/2022									
8/23/2022	2.02	3.59	3.64	2.18	2.39	30.3			6.42
8/24/2022							7.96	5	
1/24/2023	2.09	3.56	3.93	2.16	2.3	29		6.31	

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 10/23/2023 11:11 AM View: Pond E - Appendix III

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-5S (bg)	BRGWA-5I (bg)	BRGWA-2S (bg)	BRGWA-6S (bg)	BRGWC-33S	BRGWC-36S	BRGWC-17S	BRGWC-38S
1/25/2023							7.93		6.53
8/23/2023	1.9	3.37	3.53	2.14	2.34				
8/24/2023						32.7	8.26	5.18	6.44

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 10/23/2023 11:11 AM View: Pond E - Appendix III

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-35S	BRGWC-34S	BRGWC-37S
8/31/2016			
9/1/2016			
9/7/2016	5.8		
9/8/2016		7.2	
11/15/2016			
11/16/2016			
11/17/2016	6.1 (D)	7.8 (D)	
11/18/2016			
11/21/2016			
2/20/2017			
2/21/2017			
2/22/2017	5.6	7.1	
2/23/2017			2.1
4/17/2017			1.8
5/15/2017			1.8
6/12/2017			
6/13/2017			
6/14/2017		7.3	
6/15/2017	5.8		1.9
9/26/2017			
9/27/2017		7.6	
9/28/2017	6.2		1.9
2/13/2018			
2/15/2018	6.2	7.2	2.3
6/26/2018			
6/27/2018	5.9	7.1	
6/28/2018			2.1 (J-X)
12/18/2018		7.1	
12/19/2018	6.2 (J-X)		1.9 (J-X)
12/20/2018			
3/19/2019			
3/20/2019	6.6	6.9	2.3
10/15/2019			
10/16/2019	6.6	7.3	2.3
12/3/2019			
3/3/2020			
3/5/2020	5.8	6.4	1.8
9/15/2020			
9/16/2020	6	6.6	1.8
9/17/2020			
3/1/2021			
3/2/2021			
3/3/2021		6.4	1.9
3/4/2021	5.8		
9/21/2021			
9/22/2021		5.6	
9/23/2021	6.1		1.9
2/1/2022	6	5.9	
2/2/2022			1.8
8/23/2022			1.97
8/24/2022	6.53	6.17	
1/24/2023	6.46	7.5	

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 10/23/2023 11:11 AM View: Pond E - Appendix III

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-35S	BRGWC-34S	BRGWC-37S
1/25/2023			1.92
8/23/2023			1.89
8/24/2023	6.21	13.2	

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 10/23/2023 11:11 AM View: Pond E - Appendix III

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-5S (bg)	BRGWA-5I (bg)	BRGWA-2S (bg)	BRGWA-6S (bg)	BRGWC-38S	BRGWC-36S	BRGWC-35S	BRGWC-17S
8/31/2016	0.11 (J)	0.19 (J)	0.07 (J)	0.05 (J)					
9/1/2016					0.06 (J)				
9/7/2016						0.66	0.18 (J)	0.34	0.22 (J)
9/8/2016									
11/15/2016		0.13 (J)			0.06 (J)				
11/16/2016	0.08 (J)		0.07 (J)	0.07 (J)					
11/17/2016								0.14 (J)	0.12 (J)
11/18/2016							0.03 (J)		
11/21/2016						0.9 (D)			
2/20/2017		0.08 (J)	0.06 (J)		0.04 (J)				
2/21/2017	0.14 (J)			0.05 (J)					
2/22/2017								0.09 (J)	0.11 (J)
2/23/2017						0.75	0.07 (J)		
4/17/2017									
5/15/2017									
6/12/2017	0.16 (J)	0.07 (J)	0.008 (J)		0.06 (J)				
6/13/2017				0.04 (J)					
6/14/2017									
6/15/2017						0.77	0.01 (J)	0.03 (J)	0.05 (J)
9/26/2017	0.14 (J)	0.04 (J)	<0.1	<0.1	<0.1				
9/27/2017									
9/28/2017						0.8	<0.1	<0.1	0.05 (J)
2/13/2018	<0.1	<0.1	<0.1	<0.1	<0.1				
2/15/2018						0.82	<0.1	<0.1	<0.1
6/26/2018	0.085 (J)	0.072 (J)	0.045 (J)	0.048 (J)	0.041 (J)				
6/27/2018								0.22 (J)	0.093 (J)
6/28/2018						1.5 (J+X)	0.51 (J+X)		
12/18/2018	0.085 (J)	<0.1	<0.1	<0.1	<0.1				
12/19/2018							<0.1	0.11 (J)	0.16 (J)
12/20/2018						0.68			
3/19/2019	0.0655 (JD)	0.06 (J)	<0.1	0.037 (J)	0.03 (J)		<0.1		0.1 (J)
3/20/2019						0.95		0.088 (J)	
8/27/2019	<0.1	<0.1	<0.1	<0.1	<0.1				
8/28/2019							<0.1	0.056 (J)	0.085 (J)
8/29/2019						0.9			
10/15/2019	<0.1	0.045 (J)	<0.1	<0.1	<0.1				
10/16/2019						0.61		0.08 (J)	
12/3/2019							0.15 (J)		0.2 (J)
3/3/2020	0.066 (J)	0.057 (J)	<0.1	0.05 (J)	0.09 (J)				0.093 (J)
3/5/2020						0.92	<0.1	0.067 (J)	
8/18/2020	<0.1	<0.1	<0.1	<0.1	<0.1				
8/19/2020						0.95	0.051 (J)	0.06 (J)	0.1
9/15/2020	<0.1	0.051 (J)	<0.1	<0.1	<0.1				
9/16/2020							<0.1	0.062 (J)	0.1
9/17/2020						0.68			
3/1/2021	<0.1				<0.1				
3/2/2021		<0.1	<0.1	<0.1					
3/3/2021							<0.1		
3/4/2021						0.83		0.076 (J)	0.096 (J)
9/21/2021		0.056 (J)	<0.1						
9/22/2021	<0.1			<0.1	<0.1		0.054 (J)		0.1
9/23/2021						0.85		0.073 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 10/23/2023 11:11 AM View: Pond E - Appendix III

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-5S (bg)	BRGWA-5I (bg)	BRGWA-2S (bg)	BRGWA-6S (bg)	BRGWC-38S	BRGWC-36S	BRGWC-35S	BRGWC-17S
2/1/2022	<0.1	<0.1	<0.1	<0.1	<0.1	0.95	<0.1	0.055 (J)	0.079 (J)
2/2/2022									
8/23/2022	<0.1	<0.1	<0.1	<0.1	<0.1	0.609			
8/24/2022							0.194	<0.1	0.274
1/24/2023	<0.1	0.158	0.149	<0.1	0.12			0.239	0.216
1/25/2023						0.708	0.183		
8/23/2023	0.267	0.277	0.289	0.229	0.0787 (J)				
8/24/2023						0.748		0.347	0.484
8/25/2023							0.301		

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 10/23/2023 11:11 AM View: Pond E - Appendix III

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-33S	BRGWC-34S	BRGWC-37S
8/31/2016			
9/1/2016			
9/7/2016	0.19 (J)		
9/8/2016		0.17 (J)	
11/15/2016			
11/16/2016			
11/17/2016	0.12 (J)	0.06 (J)	
11/18/2016			
11/21/2016			
2/20/2017			
2/21/2017			
2/22/2017	0.21 (J)	0.17 (J)	
2/23/2017			0.1 (J)
4/17/2017			0.08 (J)
5/15/2017			0.02 (J)
6/12/2017			
6/13/2017			
6/14/2017	0.18 (J)	0.1 (J)	
6/15/2017			0.03 (J)
9/26/2017			
9/27/2017	0.42	0.4	
9/28/2017			<0.1
2/13/2018			
2/15/2018	0.42	<0.1	<0.1
6/26/2018			
6/27/2018	0.32	0.21 (J)	
6/28/2018			<0.1
12/18/2018	0.28 (J)	0.12 (J)	
12/19/2018			0.094 (J)
12/20/2018			
3/19/2019			
3/20/2019	0.14 (J)	0.074 (J)	0.062 (J)
8/27/2019	0.11 (J)		
8/28/2019	0.11 (J)	0.057 (J)	<0.1
8/29/2019			
10/15/2019			
10/16/2019	0.17 (J)	0.13 (J)	0.059 (J)
12/3/2019			
3/3/2020			
3/5/2020	0.088 (J)	0.072 (J)	0.05 (J)
8/18/2020			
8/19/2020	0.11	0.074 (J)	0.055 (J)
9/15/2020			
9/16/2020	0.085 (J)	0.077 (J)	<0.1
9/17/2020			
3/1/2021			
3/2/2021			
3/3/2021	0.069 (J)	0.071 (J)	<0.1
3/4/2021			
9/21/2021			
9/22/2021	0.068 (J)	0.1	
9/23/2021			<0.1

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 10/23/2023 11:11 AM View: Pond E - Appendix III

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-33S	BRGWC-34S	BRGWC-37S
2/1/2022	0.053 (J)	0.06 (J)	
2/2/2022			<0.1
8/23/2022	0.187		0.105
8/24/2022		0.14	
1/24/2023	0.193	0.122	
1/25/2023			0.114
8/23/2023	0.123		0.0445 (J)
8/24/2023		0.0816 (J)	
8/25/2023			

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: pH, Field (S.U.) Analysis Run 10/23/2023 11:11 AM View: Pond E - Appendix III

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-5S (bg)	BRGWA-5I (bg)	BRGWA-2S (bg)	BRGWA-6S (bg)	BRGWC-33S	BRGWC-38S	BRGWC-36S	BRGWC-17S
8/31/2016	7.16	6.59	6.53	6.2					
9/1/2016					6.49				
9/7/2016						4.92	5.43	5.59	6.36
9/8/2016									
9/23/2016							5.46		
11/15/2016		6.67			6.59				
11/16/2016	6.96		6.4	6.12					
11/17/2016						4.82			6.28
11/18/2016								5.51	
11/21/2016							4.84		
2/20/2017		6.65	6.44		6.61				
2/21/2017	7.15			6.24					
2/22/2017						4.86			6.4
2/23/2017							4.73	5.65	
6/12/2017	7.31	6.64	6.4						
6/13/2017				6.19					
6/14/2017						4.86			
9/26/2017	7.02	6.58	6.31	6.15	6.47				
9/27/2017						4.78			
9/28/2017							4.37	5.62	6.35
2/13/2018	7.44	6.72	6.62	6.18	6.54				
2/15/2018						4.84	4.3	5.66	6.35
6/26/2018	6.93	6.43	6.29	6.05	6.23				
6/27/2018						4.73			6.35
6/28/2018							4.16	5.57	
12/18/2018	6.76	6.7	6.57	5.92	6.71	4.84			
12/19/2018								5.76	6.56
12/20/2018							4.21		
3/19/2019	6.87	6.63	6.45	6.18	6.18			5.72	6.43
3/20/2019						4.77	4.34		
8/27/2019	6.79	6.49	6.37	6.09	6.35	4.78			
8/28/2019						5.52		5.52	6.25
8/29/2019							4.01		
10/15/2019	6.57	7.01	6.77	6.06	6.36				
10/16/2019						4.78	4.21		
10/17/2019								5.61	6.3
3/3/2020	6.71	6.49	6.29	6.1	6.59				6.34
3/5/2020						4.82	4.01	5.39	
8/18/2020	6.59	6.41	6.29	6.06	6.33				
8/19/2020						4.78	4.12	5.53	6.24
9/15/2020	6.64	6.25	6.27	6.01	6.43				
9/16/2020						4.78		5.58	6.26
9/17/2020							4.17		
3/1/2021	6.66				6.7				
3/2/2021		6.42	6.47	6.2					
3/3/2021						4.83		5.86	
3/4/2021							4.19		6.45
9/21/2021		6.36	6.32						
9/22/2021	6.78			6.06	6.48	4.81		5.53	6.22
9/23/2021							4.05		
2/1/2022	6.83	6.39	6.38	5.95	6.54	4.82	4.06	5.65	6.39
2/2/2022									

Prediction Limit

Constituent: pH, Field (S.U.) Analysis Run 10/23/2023 11:11 AM View: Pond E - Appendix III
Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-5S (bg)	BRGWA-5I (bg)	BRGWA-2S (bg)	BRGWA-6S (bg)	BRGWC-33S	BRGWC-38S	BRGWC-36S	BRGWC-17S
8/23/2022	6.67	6.36	6.24	5.95	6.51	4.67	3.97		
8/24/2022								5.59	6.62
1/24/2023	6.7	6.47	6.42	5.26	6.54	4.79			6.37
1/25/2023							4.75	5.64	
8/22/2023	6.91	6.09	6.36	5.97	6.27	4.58			
8/23/2023							3.91	5.26	6.16

Prediction Limit

Constituent: pH, Field (S.U.) Analysis Run 10/23/2023 11:11 AM View: Pond E - Appendix III

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-35S	BRGWC-34S	BRGWC-37S
8/31/2016			
9/1/2016			
9/7/2016	6.1		
9/8/2016		5.84	
9/23/2016			
11/15/2016			
11/16/2016			
11/17/2016	6.04	5.81	
11/18/2016			
11/21/2016			
2/20/2017			
2/21/2017			
2/22/2017	6.08	5.85	
2/23/2017			5.57
6/12/2017			
6/13/2017			
6/14/2017		5.87	
9/26/2017			
9/27/2017		5.74	
9/28/2017	6.03		5.76
2/13/2018			
2/15/2018	6.02	5.93	5.95
6/26/2018			
6/27/2018	6.01	5.68	
6/28/2018			5.78
12/18/2018		5.97	
12/19/2018	6.22		6.07
12/20/2018			
3/19/2019			
3/20/2019	6.06	5.84	5.93
8/27/2019			
8/28/2019	5.95	5.8	5.8
8/29/2019			
10/15/2019			
10/16/2019	6.03	5.85	5.81
10/17/2019			
3/3/2020			
3/5/2020	6.04	5.89	5.53
8/18/2020			
8/19/2020	5.97	5.78	5.66
9/15/2020			
9/16/2020	5.96	5.81	5.84
9/17/2020			
3/1/2021			
3/2/2021			
3/3/2021		5.88	5.87
3/4/2021	6.14		
9/21/2021			
9/22/2021		5.93	
9/23/2021	6.08		5.85
2/1/2022	6.09	5.87	
2/2/2022			5.8

Prediction Limit

Constituent: pH, Field (S.U.) Analysis Run 10/23/2023 11:11 AM View: Pond E - Appendix III

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-35S	BRGWC-34S	BRGWC-37S
8/23/2022			5.82
8/24/2022	6.05	5.75	
1/24/2023	6.08	5.93	
1/25/2023			5.84
8/22/2023		5.72	5.42
8/23/2023	5.9		

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 10/23/2023 11:11 AM View: Pond E - Appendix III

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-5S (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-6S (bg)	BRGWC-17S	BRGWC-35S	BRGWC-36S	BRGWC-38S
8/31/2016	7.5	0.81 (J)	0.38 (J)	2.7					
9/1/2016					0.6 (J)				
9/7/2016						97	260	300	440
9/8/2016									
11/15/2016		<1 (J)			0.68 (J)				
11/16/2016	6.6		<1 (J)	3.4					
11/17/2016						120 (D)	285 (D)		
11/18/2016								245 (D)	
11/21/2016									490 (D)
2/20/2017		1 (B-01)		3.9 (B-01)	0.98 (J)				
2/21/2017	6.1		1.5						
2/22/2017						120	270		
2/23/2017								330	470
4/17/2017									
5/15/2017									
6/12/2017	5	0.94 (J)		3.7	0.54 (J)				
6/13/2017			0.67 (J)						
6/14/2017									
6/15/2017						130	280	310	490
9/26/2017	5.4	0.92 (J)	0.62 (J)	4.1	0.53 (J)				
9/27/2017									
9/28/2017						120	240	290	470
2/13/2018	4.7 (J)	<1	<1	6.6	<1				
2/15/2018						109	266	292	432
6/26/2018	6.2	0.91 (J)	0.69 (J)	3.5	0.54 (J)				
6/27/2018						118	278		
6/28/2018								284	453
12/18/2018	5.9	0.68 (J)	0.72 (J)	4.3	0.39 (J)				
12/19/2018						125	287	319	
12/20/2018									463
3/19/2019	6 (D)	0.74 (J)	0.78 (J)	3	0.68 (J)	126		307	
3/20/2019							268		405
10/15/2019	5.2	0.68 (J)	0.47 (J)	3.8	0.48 (J)				
10/16/2019							277		432
12/3/2019						180		256	
3/3/2020	7.1	0.71 (J)	0.93 (J)	2.8	2.5	95.4			
3/5/2020							269	262	370
9/15/2020	5.9	<1	<1	1.7	<1				
9/16/2020						151	270	256	
9/17/2020									356
3/1/2021	4.7				0.74 (J)				
3/2/2021		<1	<1	2.2					
3/3/2021								252	
3/4/2021						122	251		325
9/21/2021		<1		2.3					
9/22/2021	5.2		<1		<1	123		234	
9/23/2021							258		318
2/1/2022	5.4	<1	<1	2	<1	139	256	195	287
2/2/2022									
8/23/2022	5.66	0.521	0.452	2.21	0.479				389
8/24/2022						157	279	224	
1/24/2023	3.58	0.66	0.465	3.34	0.484	153	334		

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 10/23/2023 11:11 AM View: Pond E - Appendix III

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-5S (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-6S (bg)	BRGWC-17S	BRGWC-35S	BRGWC-36S	BRGWC-38S
1/25/2023								237	291
8/23/2023	6.85	0.54	0.526	1.83	0.467				
8/24/2023									
8/25/2023						180	269	223	274

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 10/23/2023 11:11 AM View: Pond E - Appendix III

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-33S	BRGWC-34S	BRGWC-37S
8/31/2016			
9/1/2016			
9/7/2016	260		
9/8/2016		420	
11/15/2016			
11/16/2016			
11/17/2016	235 (D)	445 (D)	
11/18/2016			
11/21/2016			
2/20/2017			
2/21/2017			
2/22/2017	210	410	
2/23/2017			0.55 (J)
4/17/2017			0.44 (J)
5/15/2017			0.45 (J)
6/12/2017			
6/13/2017			
6/14/2017	200	410	
6/15/2017			0.46 (J)
9/26/2017			
9/27/2017	200	360	
9/28/2017			0.49 (J)
2/13/2018			
2/15/2018	197	335	1.9 (o)
6/26/2018			
6/27/2018	200	296	
6/28/2018			0.24 (J)
12/18/2018	222	345	
12/19/2018			0.4 (J)
12/20/2018			
3/19/2019			
3/20/2019	204	329	<1 (X)
10/15/2019			
10/16/2019	226	325	0.29 (J)
12/3/2019			
3/3/2020			
3/5/2020	173	287	<1
9/15/2020			
9/16/2020	154	283	<1
9/17/2020			
3/1/2021			
3/2/2021			
3/3/2021	133	277	<1
3/4/2021			
9/21/2021			
9/22/2021	94.6	232	
9/23/2021			<1
2/1/2022	99.7	243	
2/2/2022			<1
8/23/2022	385		0.307 (J)
8/24/2022		268	
1/24/2023	375	267	

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 10/23/2023 11:11 AM View: Pond E - Appendix III

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-33S	BRGWC-34S	BRGWC-37S
1/25/2023			0.325 (J)
8/23/2023			0.355 (J)
8/24/2023	466	299	
8/25/2023			

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 10/23/2023 11:11 AM View: Pond E - Appendix III

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-5S (bg)	BRGWA-5I (bg)	BRGWA-2S (bg)	BRGWC-38S	BRGWC-36S	BRGWC-35S	BRGWC-17S	BRGWC-33S
8/31/2016	151	154	138	88					
9/1/2016									
9/7/2016					750	528	486	331	382
9/8/2016									
11/15/2016		123							
11/16/2016	69		77	41					
11/17/2016							453	308	382
11/18/2016						524			
11/21/2016					795				
2/20/2017		158	170						
2/21/2017	68			<10					
2/22/2017							541	341	387
2/23/2017					733	517			
4/17/2017									
5/15/2017									
6/12/2017	161	142	132						
6/13/2017				53					
6/14/2017									316
6/15/2017					812	566	548	333	
9/26/2017	167	138	108	45					
9/27/2017									303
9/28/2017					690	475	487	310	
2/13/2018	165	150	141	63					
2/15/2018					722	513	500	292	332
6/26/2018	188	154	133	71					
6/27/2018							347 (X)	353 (X)	538 (X)
6/28/2018					704	499			
12/18/2018	145 (X)	147	138 (X)	78 (X)					358
12/19/2018						521	489	317	
12/20/2018					642				
3/19/2019	146.5 (D)	146	130	68		498		303	
3/20/2019					615		501		338
10/15/2019	140	144	175	66					
10/16/2019					630		481		281
12/3/2019						498		378	
3/3/2020	155	130	<10	41				263	
3/5/2020					608	457	535		292
9/15/2020	116	116	100	69					
9/16/2020						463	474	316	88
9/17/2020					587				
3/1/2021	98								
3/2/2021		96	80	43					
3/3/2021						442			212
3/4/2021					540		480	316	
9/21/2021		104	108						
9/22/2021	129			66		457		323	190
9/23/2021					528		511		
2/1/2022	126	124	129	72	560	441	521	354	209
2/2/2022									
8/23/2022	117	101	107	45	568				614
8/24/2022						418	507	370	
1/24/2023	93	104	124	63			507	344	615

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 10/23/2023 11:11 AM View: Pond E - Appendix III

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-5S (bg)	BRGWA-5I (bg)	BRGWA-2S (bg)	BRGWC-38S	BRGWC-36S	BRGWC-35S	BRGWC-17S	BRGWC-33S
1/25/2023					484	418			
8/25/2023		73		36					778
8/28/2023	81		80					391	
8/29/2023					459	398	485		

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 10/23/2023 11:11 AM View: Pond E - Appendix III

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-34S	BRGWA-6S (bg)	BRGWC-37S
8/31/2016			
9/1/2016		299 (o)	
9/7/2016			
9/8/2016	663		
11/15/2016		41	
11/16/2016			
11/17/2016	651		
11/18/2016			
11/21/2016			
2/20/2017		133	
2/21/2017			
2/22/2017	706		
2/23/2017			45
4/17/2017			53
5/15/2017			48
6/12/2017		61	
6/13/2017			
6/14/2017	643		
6/15/2017			63
9/26/2017		29	
9/27/2017	579		
9/28/2017			39
2/13/2018		61	
2/15/2018	612		54
6/26/2018		71	
6/27/2018	359 (X)		
6/28/2018			59 (X)
12/18/2018	535	70 (X)	
12/19/2018			68
12/20/2018			
3/19/2019		72	
3/20/2019	517		68 (X)
10/15/2019		63	
10/16/2019	473		49
12/3/2019			
3/3/2020		54	
3/5/2020	489		39
9/15/2020		79	
9/16/2020	392		31
9/17/2020			
3/1/2021		39	
3/2/2021			
3/3/2021	422		33
3/4/2021			
9/21/2021			
9/22/2021	406	62	
9/23/2021			49
2/1/2022	449	61	
2/2/2022			46
8/23/2022		52	40
8/24/2022	452		
1/24/2023	433	64	

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 10/23/2023 11:11 AM View: Pond E - Appendix III

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-34S	BRGWA-6S (bg)	BRGWC-37S
1/25/2023			28
8/25/2023	495		42
8/28/2023		30	
8/29/2023			

FIGURE E.

Appendix III Trend Tests - Significant Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 10/23/2023, 11:19 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Boron (mg/L)	**BRGWC-35S**	**0.1599**	**130**	**68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**BRGWC-36S**	**0.02911**	**79**	**74**	**Yes**	**19**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**BRGWA-6S (bg)**	**0.1264**	**80**	**68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**BRGWC-17S**	**2.068**	**100**	**68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**BRGWC-34S**	**-3.241**	**-93**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**BRGWC-35S**	**1.905**	**76**	**68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**BRGWC-38S**	**-1.949**	**-109**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**BRGWA-5I (bg)**	**-0.1548**	**-84**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**BRGWA-5S (bg)**	**-0.07449**	**-75**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**BRGWC-17S**	**0.2106**	**82**	**68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**BRGWC-36S**	**0.6997**	**105**	**68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Fluoride (mg/L)	**BRGWA-5I (bg)**	**0.006424**	**91**	**81**	**Yes**	**20**	**65**	**n/a**	**0.01**	**NP**
pH, Field (S.U.)	**BRGWA-2I (bg)**	**-0.07157**	**-82**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
pH, Field (S.U.)	**BRGWA-2S (bg)**	**-0.03999**	**-100**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
pH, Field (S.U.)	**BRGWA-5S (bg)**	**-0.05423**	**-104**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
pH, Field (S.U.)	**BRGWC-38S**	**-0.105**	**-112**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**BRGWC-17S**	**6.447**	**75**	**68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**BRGWC-34S**	**-26.58**	**-116**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**BRGWC-36S**	**-13**	**-94**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**BRGWC-38S**	**-31.94**	**-116**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**BRGWA-5S (bg)**	**-8.69**	**-93**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**BRGWC-34S**	**-37.39**	**-83**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**BRGWC-36S**	**-18.58**	**-124**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**BRGWC-38S**	**-43.42**	**-129**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**

Appendix III Trend Tests - All Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 10/23/2023, 11:19 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Boron (mg/L)	BRGWA-2I (bg)	0.0001886	17	68	No	18	27.78	n/a	0.01	NP
Boron (mg/L)	BRGWA-2S (bg)	0	-16	-68	No	18	83.33	n/a	0.01	NP
Boron (mg/L)	BRGWA-5I (bg)	0	-15	-68	No	18	72.22	n/a	0.01	NP
Boron (mg/L)	BRGWA-5S (bg)	0	-8	-68	No	18	55.56	n/a	0.01	NP
Boron (mg/L)	BRGWA-6S (bg)	0	-11	-68	No	18	72.22	n/a	0.01	NP
Boron (mg/L)	BRGWC-17S	0	-10	-74	No	19	36.84	n/a	0.01	NP
Boron (mg/L)	BRGWC-33S	-0.01403	-29	-68	No	18	0	n/a	0.01	NP
Boron (mg/L)	BRGWC-34S	0	2	68	No	18	0	n/a	0.01	NP
Boron (mg/L)	**BRGWC-35S**	**0.1599**	**130**	**68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**BRGWC-36S**	**0.02911**	**79**	**74**	**Yes**	**19**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	BRGWC-38S	-0.03883	-55	-68	No	18	0	n/a	0.01	NP
Calcium (mg/L)	BRGWA-2I (bg)	0.3318	33	68	No	18	5.556	n/a	0.01	NP
Calcium (mg/L)	BRGWA-2S (bg)	0.149	63	68	No	18	0	n/a	0.01	NP
Calcium (mg/L)	BRGWA-5I (bg)	0.103	21	68	No	18	5.556	n/a	0.01	NP
Calcium (mg/L)	BRGWA-5S (bg)	-0.5359	-55	-68	No	18	5.556	n/a	0.01	NP
Calcium (mg/L)	**BRGWA-6S (bg)**	**0.1264**	**80**	**68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**BRGWC-17S**	**2.068**	**100**	**68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	BRGWC-33S	-0.5742	-7	-68	No	18	0	n/a	0.01	NP
Calcium (mg/L)	**BRGWC-34S**	**-3.241**	**-93**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**BRGWC-35S**	**1.905**	**76**	**68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	BRGWC-36S	-0.754	-56	-68	No	18	0	n/a	0.01	NP
Calcium (mg/L)	**BRGWC-38S**	**-1.949**	**-109**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	BRGWA-2I (bg)	-0.03364	-41	-68	No	18	0	n/a	0.01	NP
Chloride (mg/L)	BRGWA-2S (bg)	0	2	68	No	18	0	n/a	0.01	NP
Chloride (mg/L)	**BRGWA-5I (bg)**	**-0.1548**	**-84**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**BRGWA-5S (bg)**	**-0.07449**	**-75**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	BRGWA-6S (bg)	-0.001816	-21	-68	No	18	0	n/a	0.01	NP
Chloride (mg/L)	**BRGWC-17S**	**0.2106**	**82**	**68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	BRGWC-33S	0.9635	39	68	No	18	0	n/a	0.01	NP
Chloride (mg/L)	BRGWC-34S	-0.2147	-51	-68	No	18	0	n/a	0.01	NP
Chloride (mg/L)	BRGWC-35S	0.05887	45	68	No	18	0	n/a	0.01	NP
Chloride (mg/L)	**BRGWC-36S**	**0.6997**	**105**	**68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	BRGWC-38S	0.1287	31	68	No	18	0	n/a	0.01	NP
Fluoride (mg/L)	BRGWA-2I (bg)	0	3	81	No	20	50	n/a	0.01	NP
Fluoride (mg/L)	BRGWA-2S (bg)	0.005022	75	81	No	20	60	n/a	0.01	NP
Fluoride (mg/L)	**BRGWA-5I (bg)**	**0.006424**	**91**	**81**	**Yes**	**20**	**65**	**n/a**	**0.01**	**NP**
Fluoride (mg/L)	BRGWA-5S (bg)	0	15	81	No	20	35	n/a	0.01	NP
Fluoride (mg/L)	BRGWA-6S (bg)	0.003384	66	81	No	20	55	n/a	0.01	NP
Fluoride (mg/L)	BRGWC-17S	0.006949	26	81	No	20	5	n/a	0.01	NP
Fluoride (mg/L)	BRGWC-35S	-0.005237	-23	-81	No	20	15	n/a	0.01	NP
Fluoride (mg/L)	BRGWC-36S	0.006762	48	81	No	20	45	n/a	0.01	NP
Fluoride (mg/L)	BRGWC-38S	0	1	81	No	20	0	n/a	0.01	NP
pH, Field (S.U.)	**BRGWA-2I (bg)**	**-0.07157**	**-82**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
pH, Field (S.U.)	**BRGWA-2S (bg)**	**-0.03999**	**-100**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
pH, Field (S.U.)	BRGWA-5I (bg)	-0.01794	-48	-81	No	20	0	n/a	0.01	NP
pH, Field (S.U.)	**BRGWA-5S (bg)**	**-0.05423**	**-104**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
pH, Field (S.U.)	BRGWA-6S (bg)	-0.006594	-9	-74	No	19	0	n/a	0.01	NP
pH, Field (S.U.)	BRGWC-33S	-0.01321	-69	-87	No	21	0	n/a	0.01	NP
pH, Field (S.U.)	**BRGWC-38S**	**-0.105**	**-112**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	BRGWA-2I (bg)	-0.1349	-35	-68	No	18	0	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-2S (bg)	0	-4	-68	No	18	33.33	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-5I (bg)	-0.2786	-63	-68	No	18	0	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-5S (bg)	-0.0299	-41	-68	No	18	33.33	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-6S (bg)	-0.00337	-11	-68	No	18	22.22	n/a	0.01	NP
Sulfate (mg/L)	**BRGWC-17S**	**6.447**	**75**	**68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**

Appendix III Trend Tests - All Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 10/23/2023, 11:19 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Sulfate (mg/L)	BRGWC-33S	-11.07	-20	-68	No	18	0	n/a	0.01	NP
Sulfate (mg/L)	**BRGWC-34S**	**-26.58**	**-116**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	BRGWC-35S	-0.1537	-3	-68	No	18	0	n/a	0.01	NP
Sulfate (mg/L)	**BRGWC-36S**	**-13**	**-94**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**BRGWC-38S**	**-31.94**	**-116**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	BRGWA-2I (bg)	-8.462	-53	-68	No	18	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWA-2S (bg)	-0.5826	-5	-68	No	18	5.556	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWA-5I (bg)	-4.727	-44	-68	No	18	5.556	n/a	0.01	NP
Total Dissolved Solids (mg/L)	**BRGWA-5S (bg)**	**-8.69**	**-93**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	BRGWA-6S (bg)	-1.676	-17	-63	No	17	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-17S	5.817	44	68	No	18	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-33S	-14.96	-14	-68	No	18	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	**BRGWC-34S**	**-37.39**	**-83**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	BRGWC-35S	1.416	10	68	No	18	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	**BRGWC-36S**	**-18.58**	**-124**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**BRGWC-38S**	**-43.42**	**-129**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**

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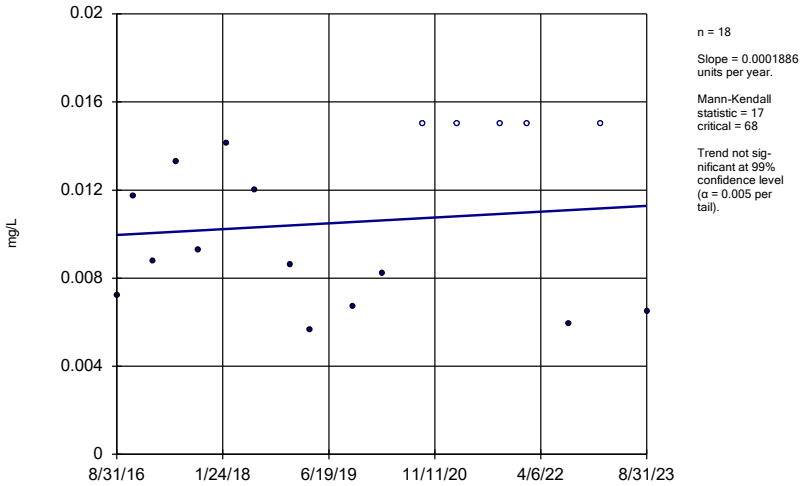
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-2I (bg)



n = 18

Slope = 0.0001886 units per year.

Mann-Kendall statistic = 17
critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/23/2023 11:14 AM View: Pond E - Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

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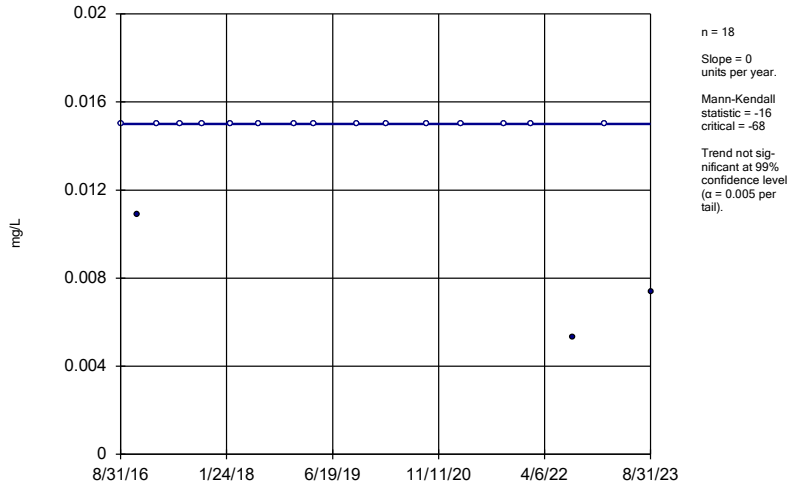
Sen's Slope Estimator

BRGWA-2S (bg)



n = 18

Slope = 0 units per year.

Mann-Kendall statistic = -16
critical = -68

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/23/2023 11:14 AM View: Pond E - Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

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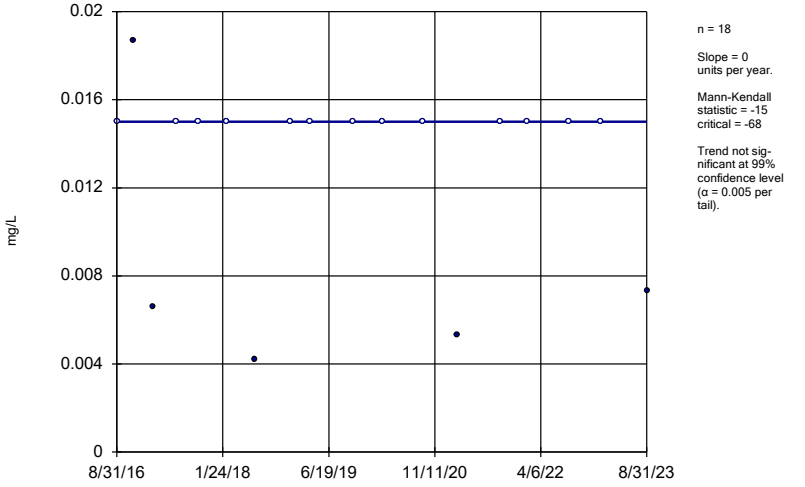
Sen's Slope Estimator

BRGWA-5I (bg)



n = 18

Slope = 0 units per year.

Mann-Kendall statistic = -15
critical = -68

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/23/2023 11:14 AM View: Pond E - Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

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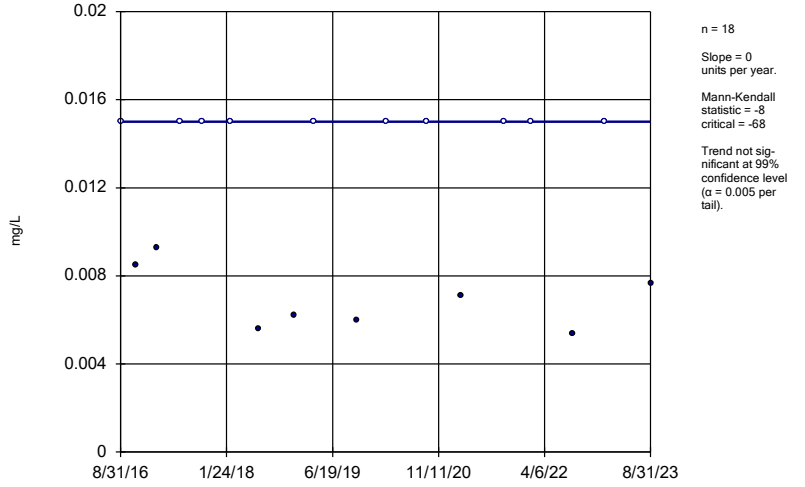
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-5S (bg)



n = 18

Slope = 0 units per year.

Mann-Kendall statistic = -8
critical = -68

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/23/2023 11:14 AM View: Pond E - Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

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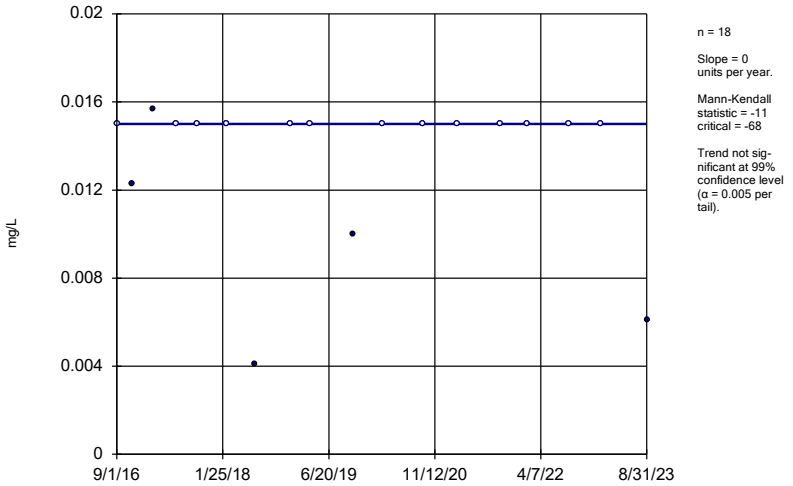
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-6S (bg)



n = 18

Slope = 0 units per year.

Mann-Kendall statistic = -11
critical = -68

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/23/2023 11:14 AM View: Pond E - Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

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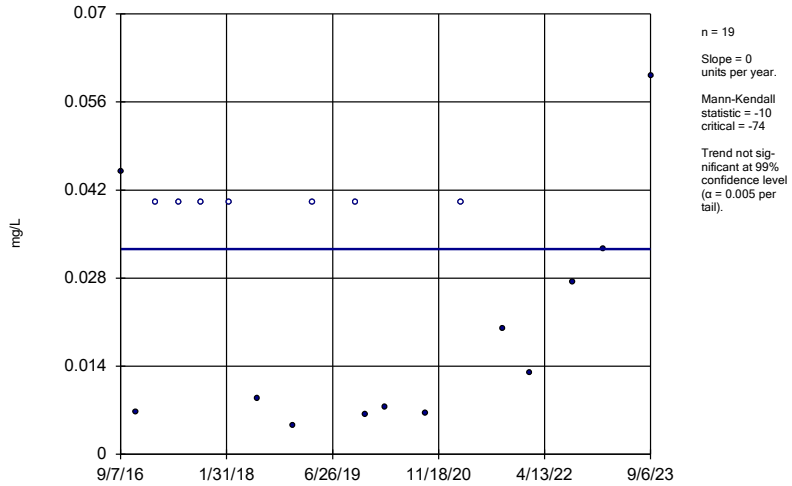
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWC-17S



n = 19

Slope = 0 units per year.

Mann-Kendall statistic = -10
critical = -74

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/23/2023 11:14 AM View: Pond E - Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

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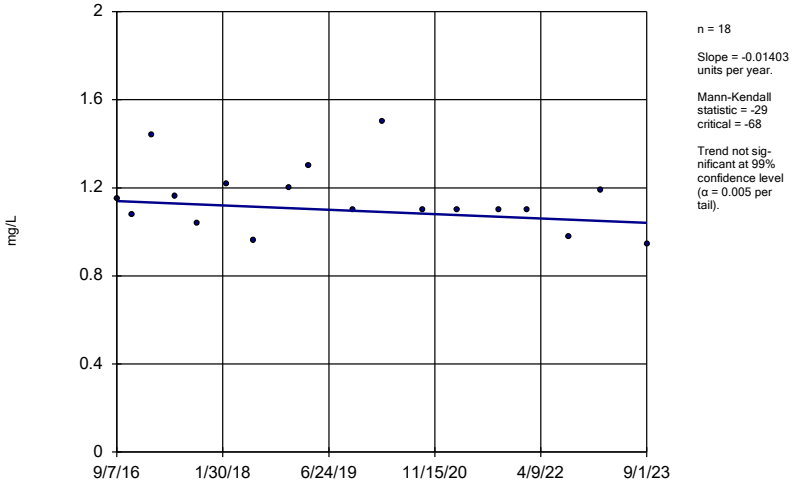
Sen's Slope Estimator

BRGWC-33S



n = 18

Slope = -0.01403 units per year.

Mann-Kendall statistic = -29
critical = -68

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/23/2023 11:14 AM View: Pond E - Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

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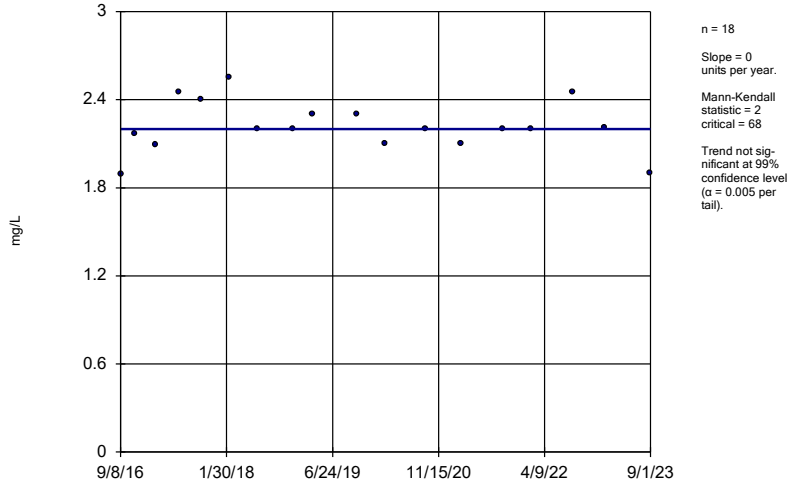
Sen's Slope Estimator

BRGWC-34S



n = 18

Slope = 0 units per year.

Mann-Kendall statistic = 2
critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/23/2023 11:14 AM View: Pond E - Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

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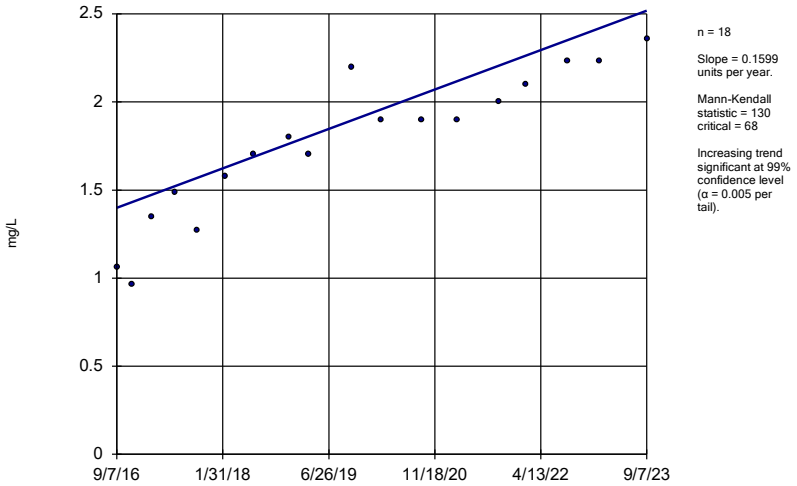
Sen's Slope Estimator

BRGWC-35S



n = 18

Slope = 0.1599 units per year.

Mann-Kendall statistic = 130 critical = 68

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/23/2023 11:14 AM View: Pond E - Trend Tests

Plant Branch Client: Southern Company Data: Plant Branch AP

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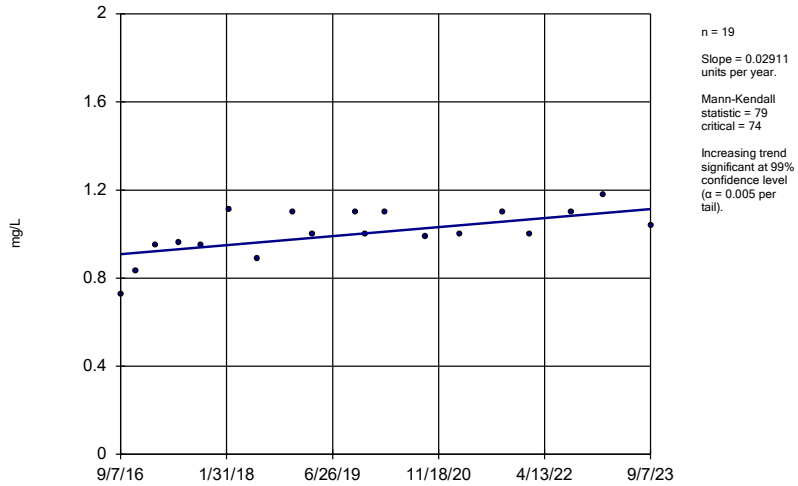
Sen's Slope Estimator

BRGWC-36S



n = 19

Slope = 0.02911 units per year.

Mann-Kendall statistic = 79 critical = 74

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/23/2023 11:14 AM View: Pond E - Trend Tests

Plant Branch Client: Southern Company Data: Plant Branch AP

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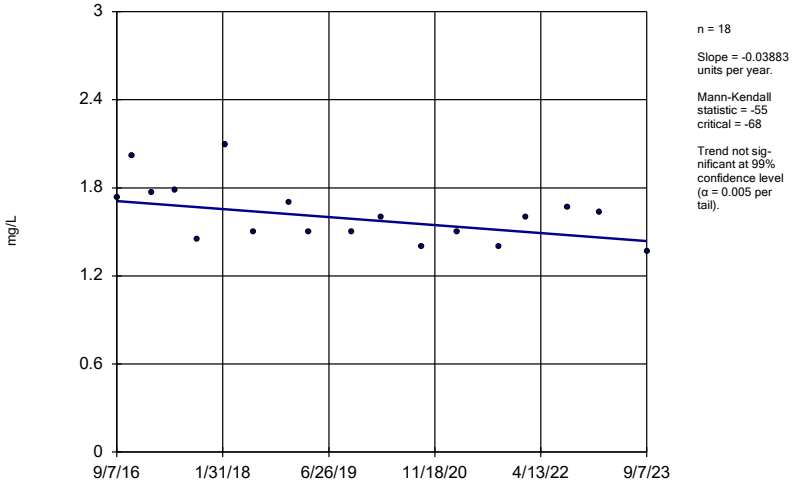
Sen's Slope Estimator

BRGWC-38S



n = 18

Slope = -0.03883 units per year.

Mann-Kendall statistic = -55 critical = -68

Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/23/2023 11:14 AM View: Pond E - Trend Tests

Plant Branch Client: Southern Company Data: Plant Branch AP

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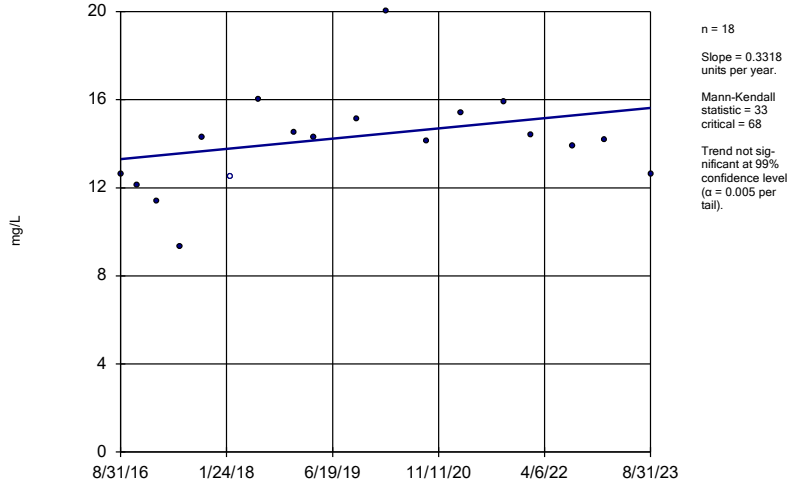
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-2I (bg)



n = 18

Slope = 0.3318 units per year.

Mann-Kendall statistic = 33 critical = 68

Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 10/23/2023 11:14 AM View: Pond E - Trend Tests

Plant Branch Client: Southern Company Data: Plant Branch AP

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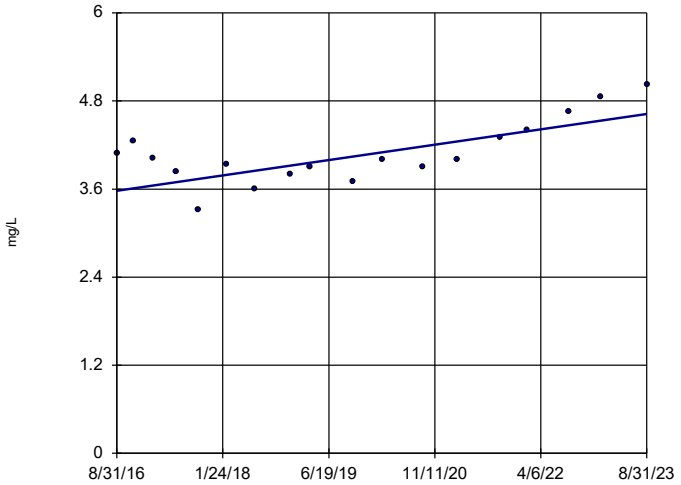
Sen's Slope Estimator

BRGWA-2S (bg)



n = 18

Slope = 0.149 units per year.

Mann-Kendall statistic = 63 critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 10/23/2023 11:14 AM View: Pond E - Trend Tests

Plant Branch Client: Southern Company Data: Plant Branch AP

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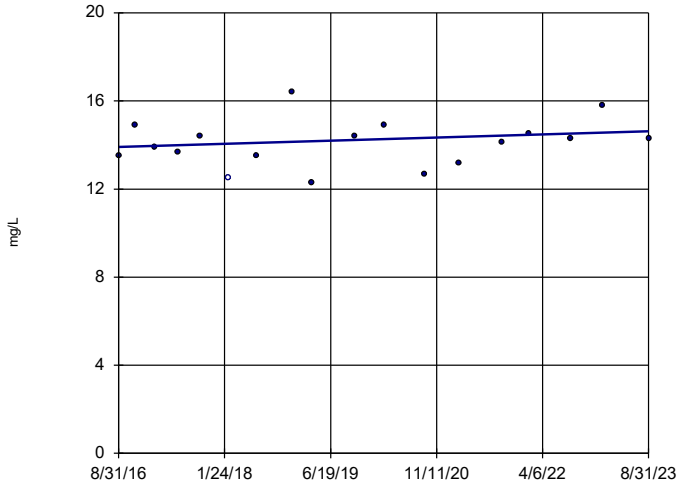
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-5I (bg)



n = 18

Slope = 0.103 units per year.

Mann-Kendall statistic = 21 critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 10/23/2023 11:14 AM View: Pond E - Trend Tests

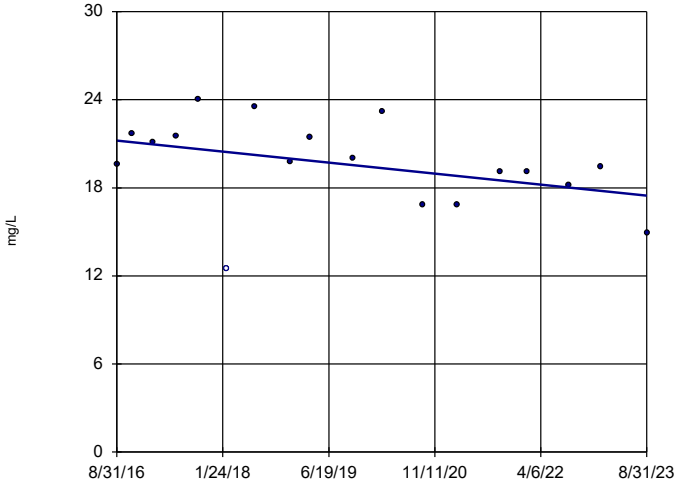
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.13 Software licensed to . UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-5S (bg)



n = 18

Slope = -0.5359 units per year.

Mann-Kendall statistic = -55 critical = -68

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 10/23/2023 11:14 AM View: Pond E - Trend Tests

Plant Branch Client: Southern Company Data: Plant Branch AP

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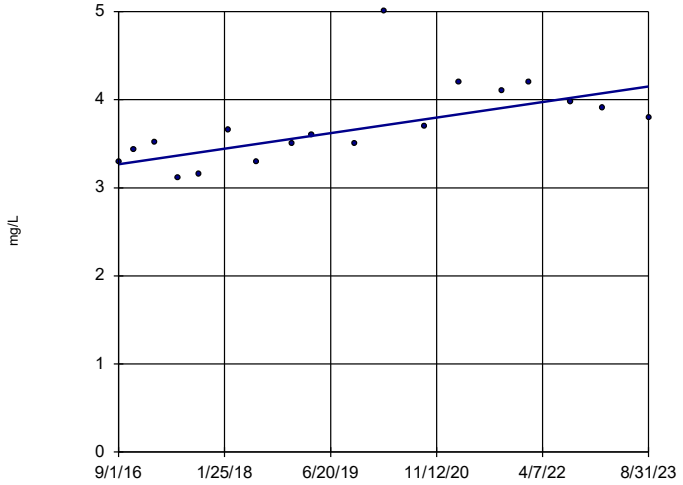
Sen's Slope Estimator

BRGWA-6S (bg)



n = 18

Slope = 0.1264 units per year.

Mann-Kendall statistic = 80 critical = 68

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 10/23/2023 11:14 AM View: Pond E - Trend Tests

Plant Branch Client: Southern Company Data: Plant Branch AP

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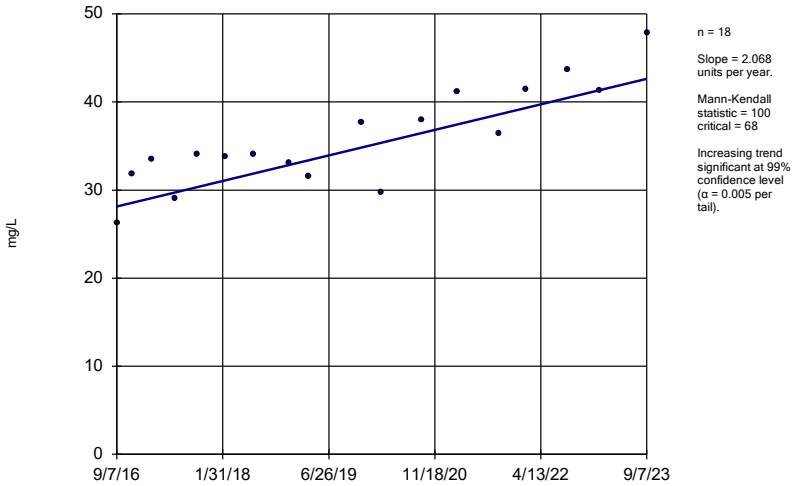
Sen's Slope Estimator

BRGWC-17S



n = 18

Slope = 2.068 units per year.

Mann-Kendall statistic = 100 critical = 68

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 10/23/2023 11:14 AM View: Pond E - Trend Tests

Plant Branch Client: Southern Company Data: Plant Branch AP

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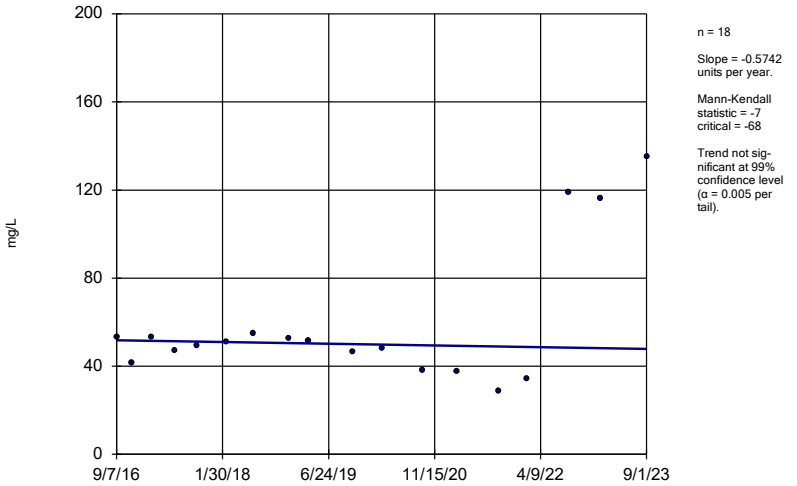
Sen's Slope Estimator

BRGWC-33S



n = 18

Slope = -0.5742 units per year.

Mann-Kendall statistic = -7 critical = -68

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 10/23/2023 11:14 AM View: Pond E - Trend Tests

Plant Branch Client: Southern Company Data: Plant Branch AP

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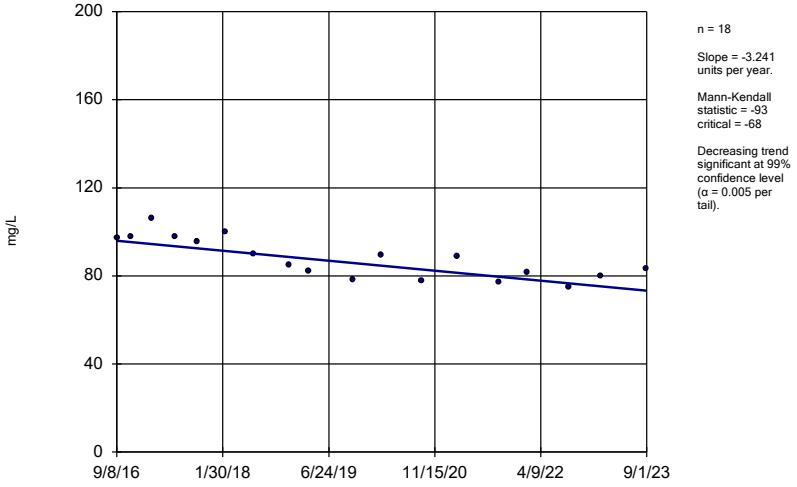
Sen's Slope Estimator

BRGWC-34S



n = 18

Slope = -3.241 units per year.

Mann-Kendall statistic = -93 critical = -68

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 10/23/2023 11:14 AM View: Pond E - Trend Tests

Plant Branch Client: Southern Company Data: Plant Branch AP

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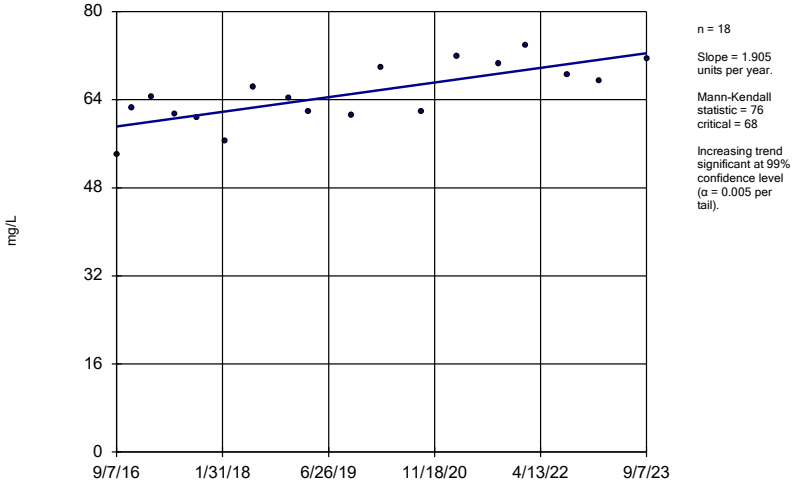
Sen's Slope Estimator

BRGWC-35S



n = 18

Slope = 1.905 units per year.

Mann-Kendall statistic = 76 critical = 68

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 10/23/2023 11:14 AM View: Pond E - Trend Tests

Plant Branch Client: Southern Company Data: Plant Branch AP

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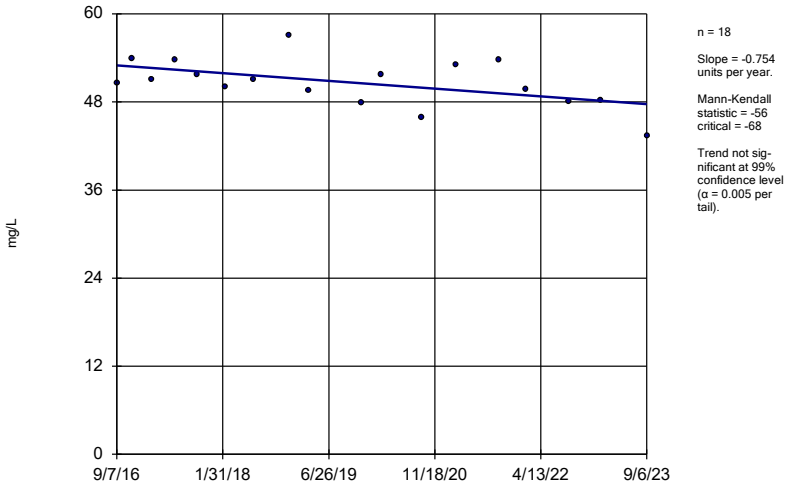
Sen's Slope Estimator

BRGWC-36S



n = 18

Slope = -0.754 units per year.

Mann-Kendall statistic = -56
critical = -68

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 10/23/2023 11:14 AM View: Pond E - Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

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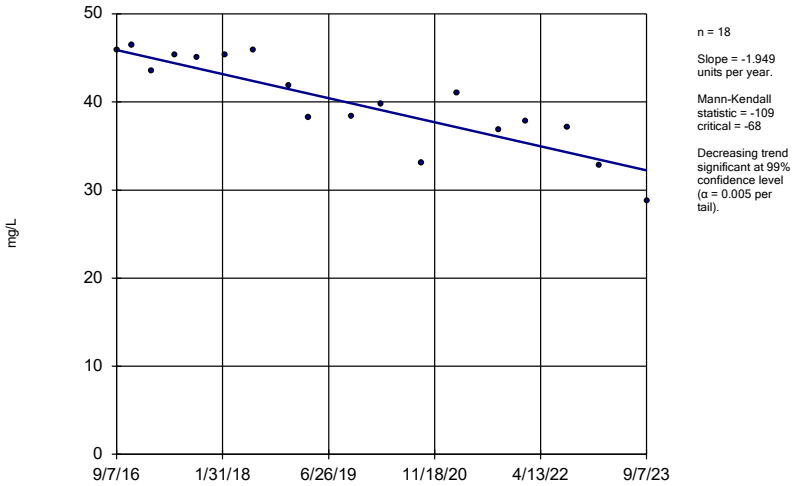
Sen's Slope Estimator

BRGWC-38S



n = 18

Slope = -1.949 units per year.

Mann-Kendall statistic = -109
critical = -68

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 10/23/2023 11:14 AM View: Pond E - Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

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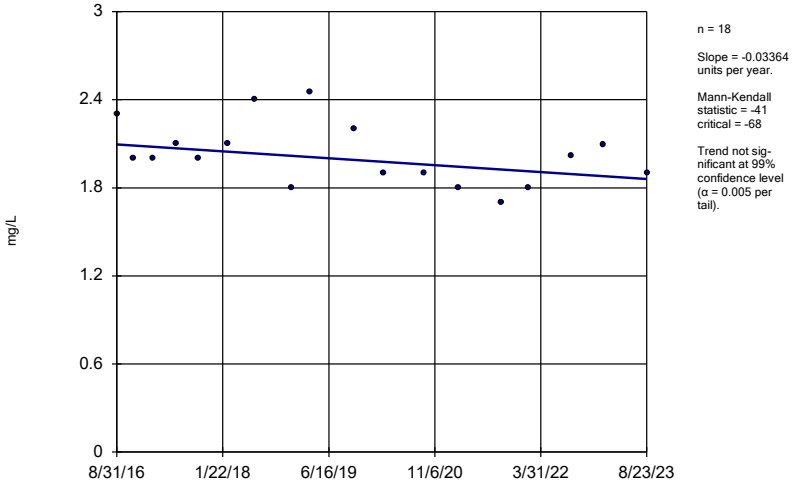
Sen's Slope Estimator

BRGWA-2I (bg)



n = 18

Slope = -0.03364 units per year.

Mann-Kendall statistic = -41
critical = -68

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 10/23/2023 11:15 AM View: Pond E - Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

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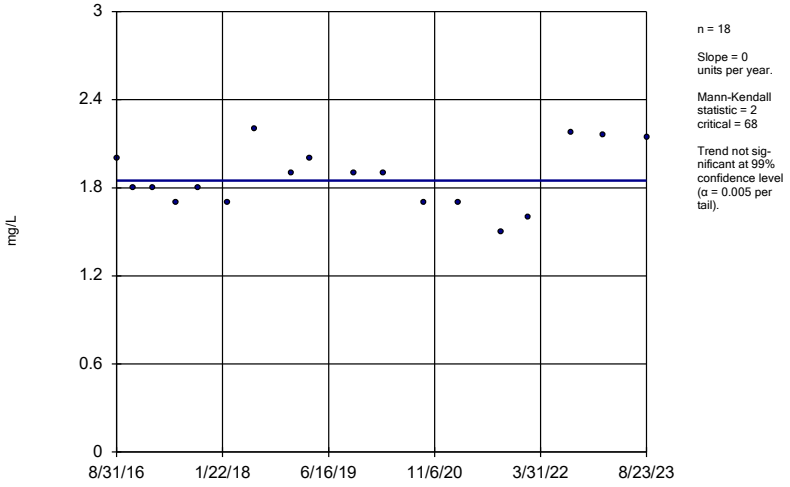
Sen's Slope Estimator

BRGWA-2S (bg)



n = 18

Slope = 0 units per year.

Mann-Kendall statistic = 2
critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 10/23/2023 11:15 AM View: Pond E - Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

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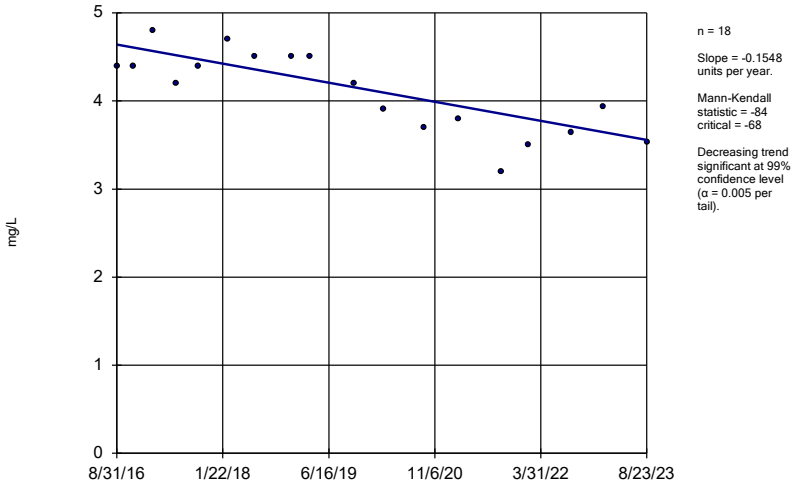
Sen's Slope Estimator

BRGWA-5I (bg)



n = 18

Slope = -0.1548 units per year.

Mann-Kendall statistic = -84
critical = -68

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 10/23/2023 11:15 AM View: Pond E - Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

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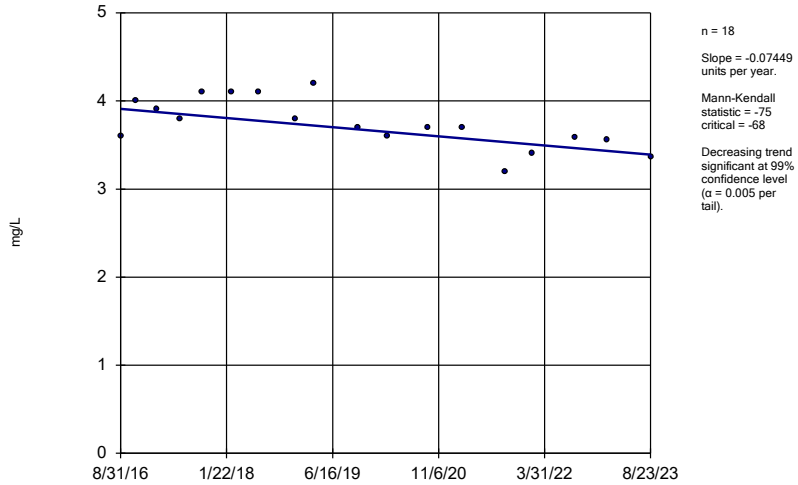
Sen's Slope Estimator

BRGWA-5S (bg)



n = 18

Slope = -0.07449 units per year.

Mann-Kendall statistic = -75
critical = -68

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 10/23/2023 11:15 AM View: Pond E - Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

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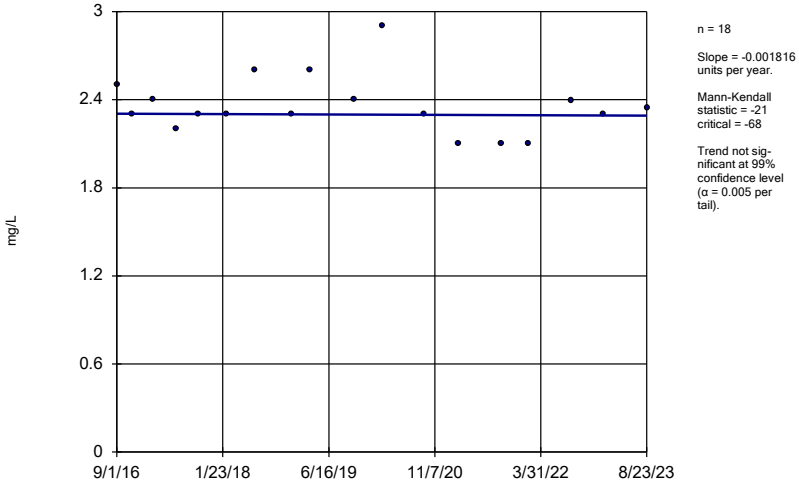
Sen's Slope Estimator

BRGWA-6S (bg)



n = 18

Slope = -0.001816 units per year.

Mann-Kendall statistic = -21
critical = -68

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 10/23/2023 11:15 AM View: Pond E - Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

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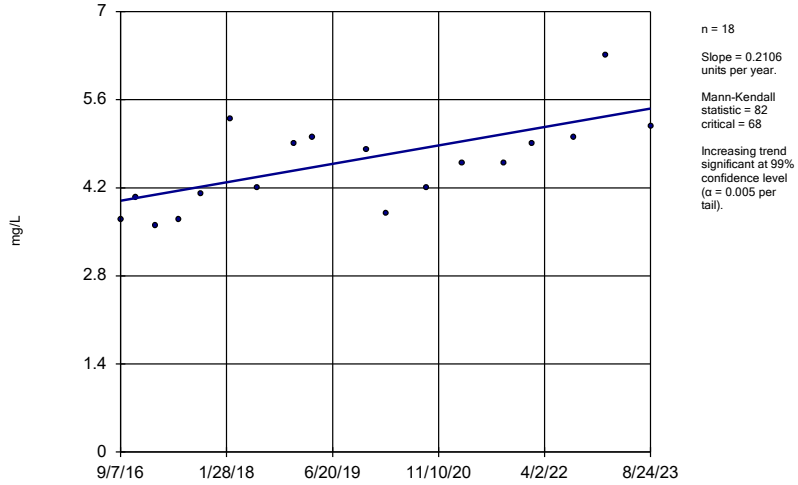
Sen's Slope Estimator

BRGWC-17S



n = 18

Slope = 0.2106 units per year.

Mann-Kendall statistic = 82
critical = 68

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 10/23/2023 11:15 AM View: Pond E - Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

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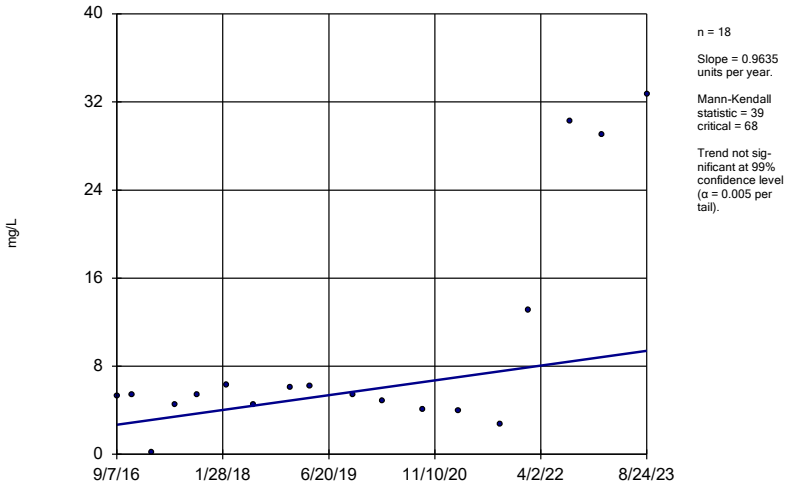
Sen's Slope Estimator

BRGWC-33S



n = 18

Slope = 0.9635 units per year.

Mann-Kendall statistic = 39 critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 10/23/2023 11:15 AM View: Pond E - Trend Tests

Plant Branch Client: Southern Company Data: Plant Branch AP

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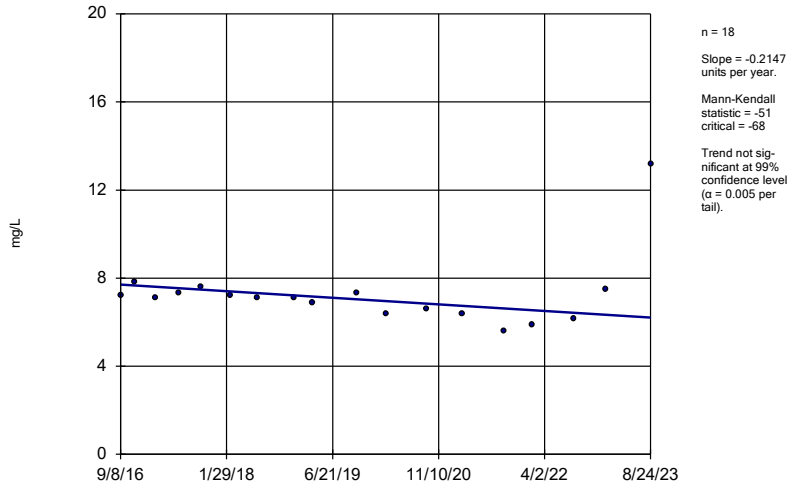
Sen's Slope Estimator

BRGWC-34S



n = 18

Slope = -0.2147 units per year.

Mann-Kendall statistic = -51 critical = -68

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 10/23/2023 11:15 AM View: Pond E - Trend Tests

Plant Branch Client: Southern Company Data: Plant Branch AP

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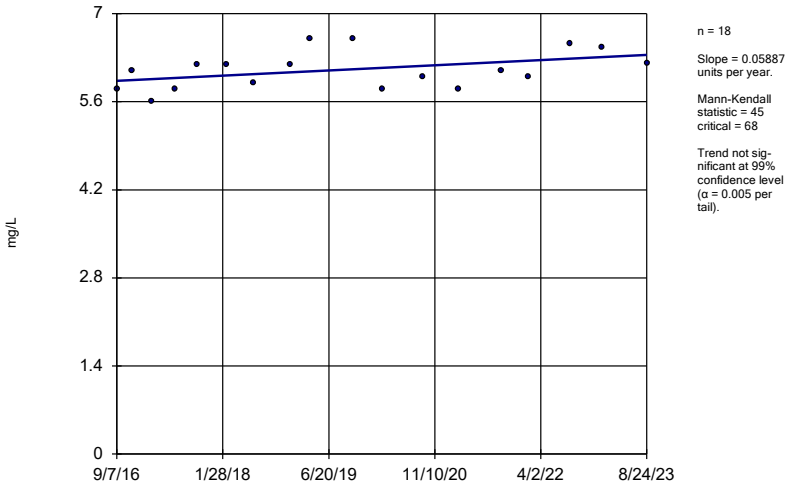
Sen's Slope Estimator

BRGWC-35S



n = 18

Slope = 0.05887 units per year.

Mann-Kendall statistic = 45 critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 10/23/2023 11:15 AM View: Pond E - Trend Tests

Plant Branch Client: Southern Company Data: Plant Branch AP

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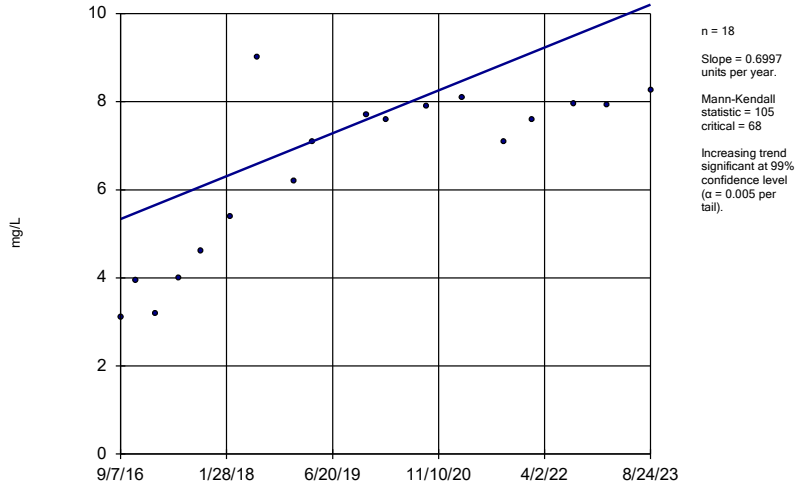
Sen's Slope Estimator

BRGWC-36S



n = 18

Slope = 0.6997 units per year.

Mann-Kendall statistic = 105 critical = 68

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 10/23/2023 11:15 AM View: Pond E - Trend Tests

Plant Branch Client: Southern Company Data: Plant Branch AP

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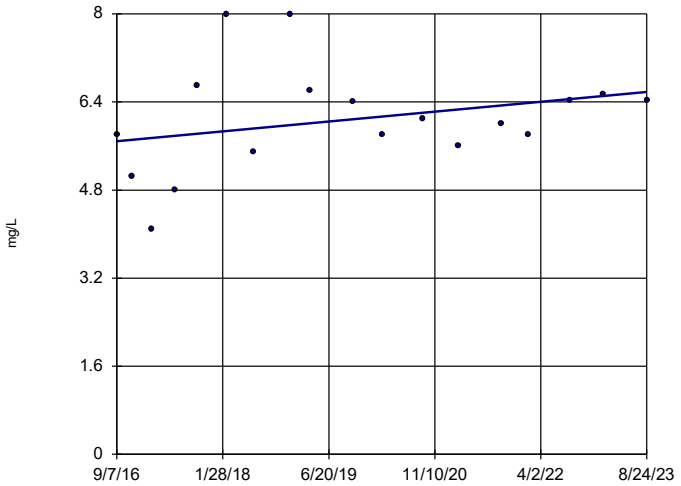
Sen's Slope Estimator

BRGWC-38S



n = 18

Slope = 0.1287 units per year.

Mann-Kendall statistic = 31
critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 10/23/2023 11:15 AM View: Pond E - Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

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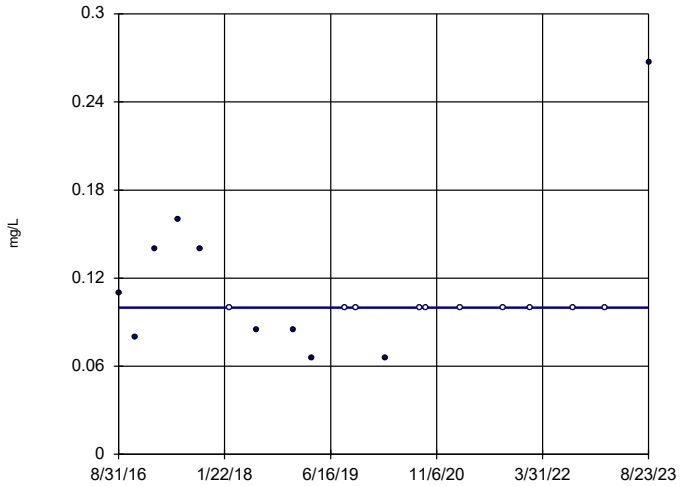
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-2I (bg)



n = 20

Slope = 0 units per year.

Mann-Kendall statistic = 3
critical = 81

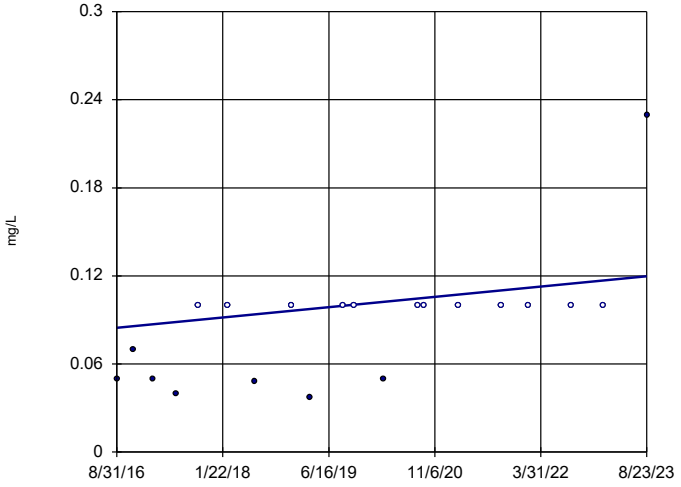
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride Analysis Run 10/23/2023 11:15 AM View: Pond E - Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.13 Software licensed to . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-2S (bg)



n = 20

Slope = 0.005022 units per year.

Mann-Kendall statistic = 75
critical = 81

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride Analysis Run 10/23/2023 11:15 AM View: Pond E - Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

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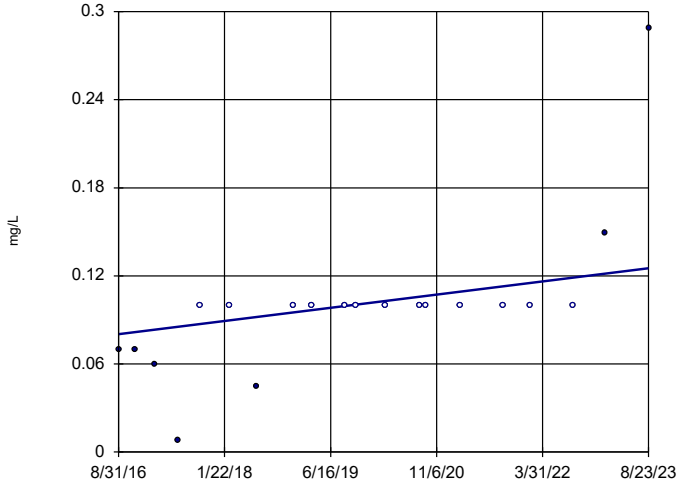
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-5I (bg)



n = 20

Slope = 0.006424 units per year.

Mann-Kendall statistic = 91
critical = 81

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride Analysis Run 10/23/2023 11:15 AM View: Pond E - Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

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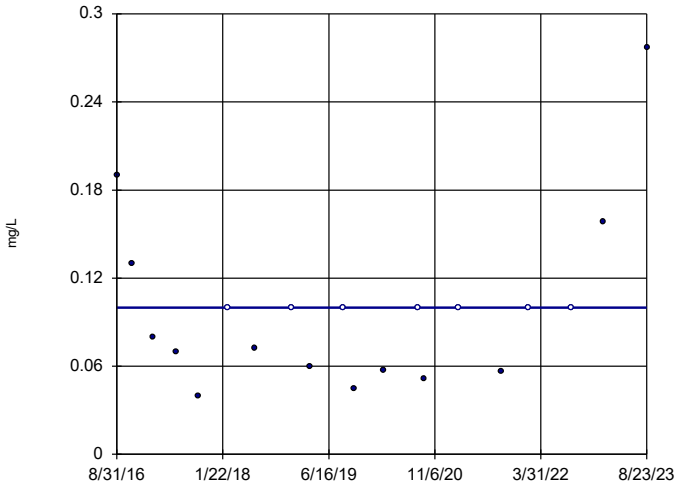
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-5S (bg)



n = 20

Slope = 0 units per year.

Mann-Kendall statistic = 15
critical = 81

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride Analysis Run 10/23/2023 11:15 AM View: Pond E - Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

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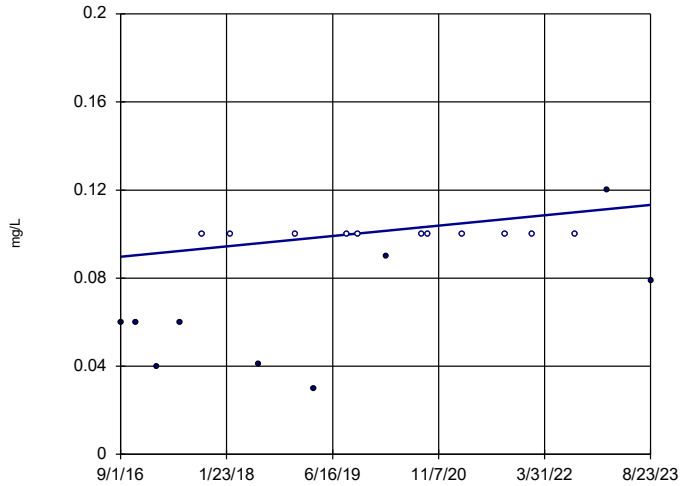
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-6S (bg)



n = 20

Slope = 0.003384 units per year.

Mann-Kendall statistic = 66
critical = 81

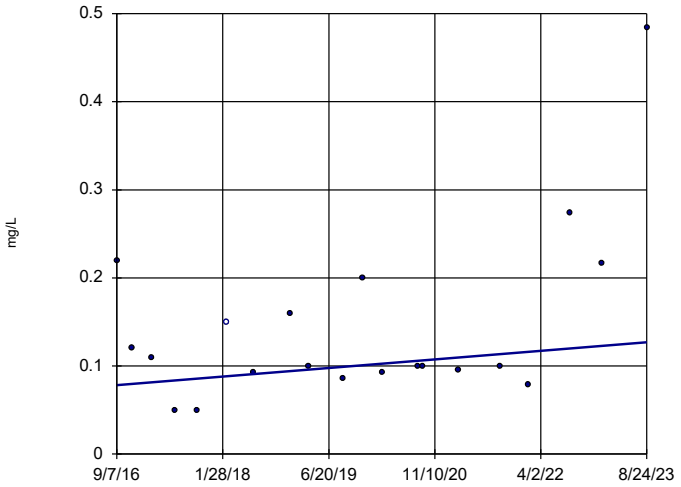
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride Analysis Run 10/23/2023 11:15 AM View: Pond E - Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.13 Software licensed to . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWC-17S



n = 20

Slope = 0.006949 units per year.

Mann-Kendall statistic = 26
critical = 81

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride Analysis Run 10/23/2023 11:15 AM View: Pond E - Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

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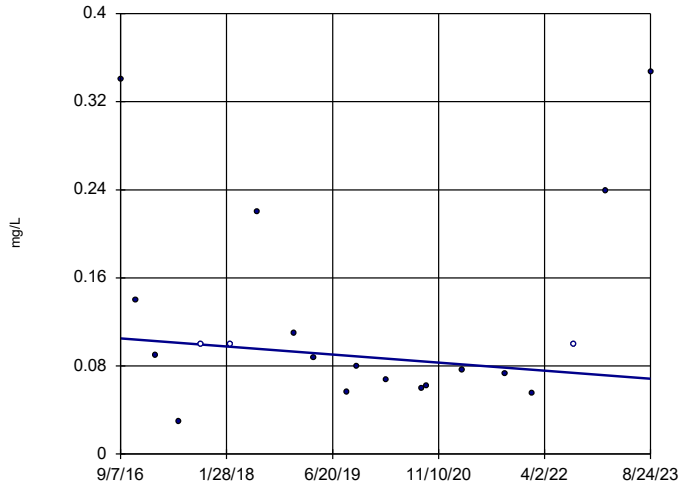
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWC-35S



n = 20

Slope = -0.005237 units per year.

Mann-Kendall statistic = -23
critical = -81

Trend not significant at 99% confidence level (α = 0.005 per tail).

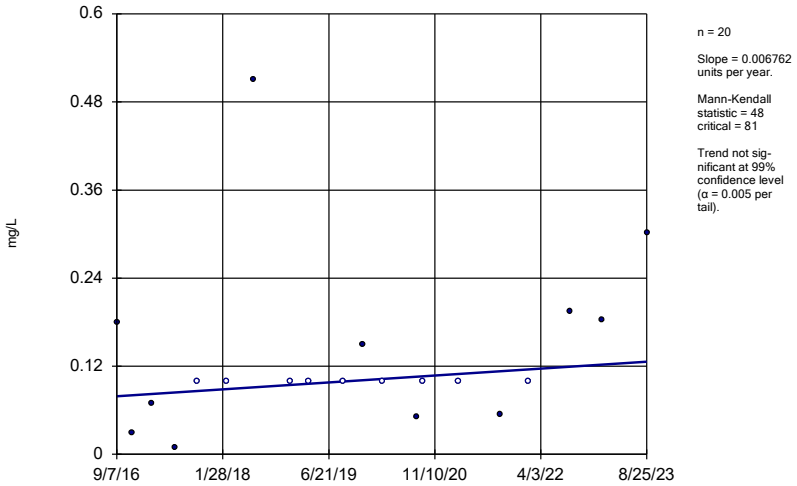
Constituent: Fluoride Analysis Run 10/23/2023 11:15 AM View: Pond E - Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.13 Software licensed to . UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWC-36S



n = 20

Slope = 0.006762 units per year.

Mann-Kendall statistic = 48
critical = 81

Trend not significant at 99% confidence level (α = 0.005 per tail).

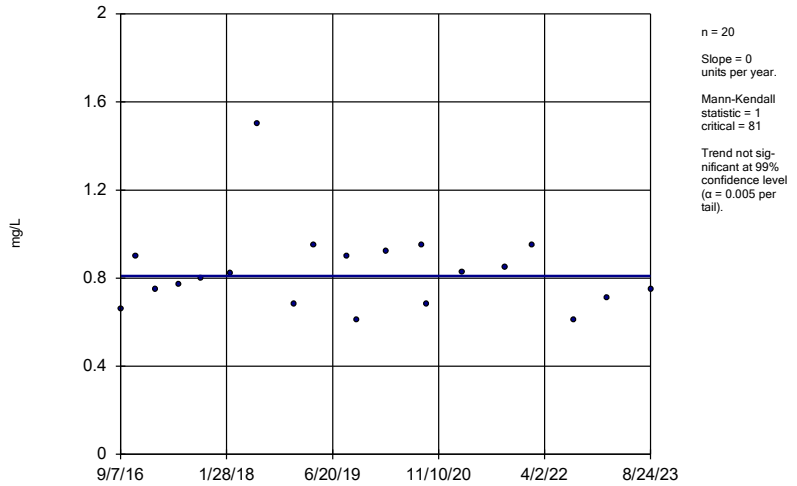
Constituent: Fluoride Analysis Run 10/23/2023 11:15 AM View: Pond E - Trend Tests

Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.13 Software licensed to . UG

Sen's Slope Estimator

BRGWC-38S



n = 20

Slope = 0 units per year.

Mann-Kendall statistic = 1
critical = 81

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride Analysis Run 10/23/2023 11:15 AM View: Pond E - Trend Tests

Plant Branch Client: Southern Company Data: Plant Branch AP

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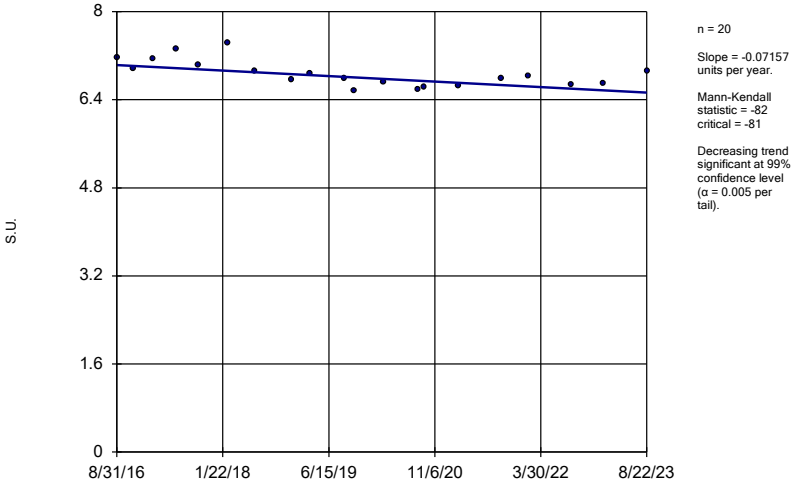
Sen's Slope Estimator

BRGWA-2I (bg)



n = 20

Slope = -0.07157 units per year.

Mann-Kendall statistic = -82
critical = -81

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 10/23/2023 11:15 AM View: Pond E - Trend Tests

Plant Branch Client: Southern Company Data: Plant Branch AP

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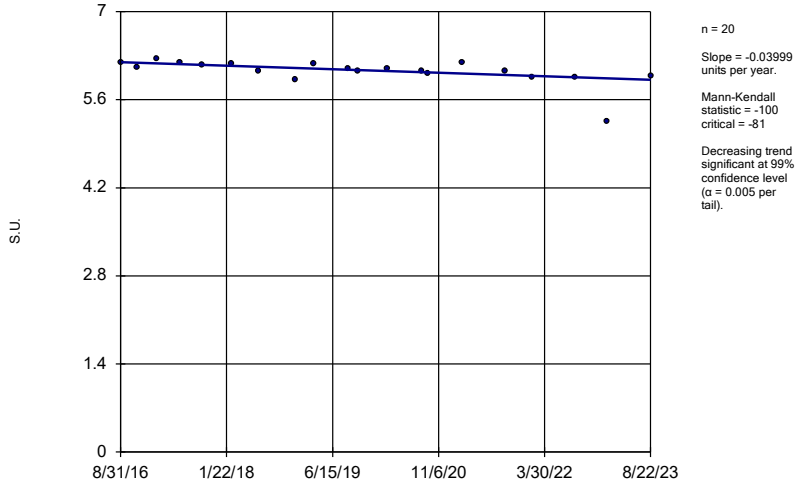
Sen's Slope Estimator

BRGWA-2S (bg)



n = 20

Slope = -0.03999 units per year.

Mann-Kendall statistic = -100
critical = -81

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

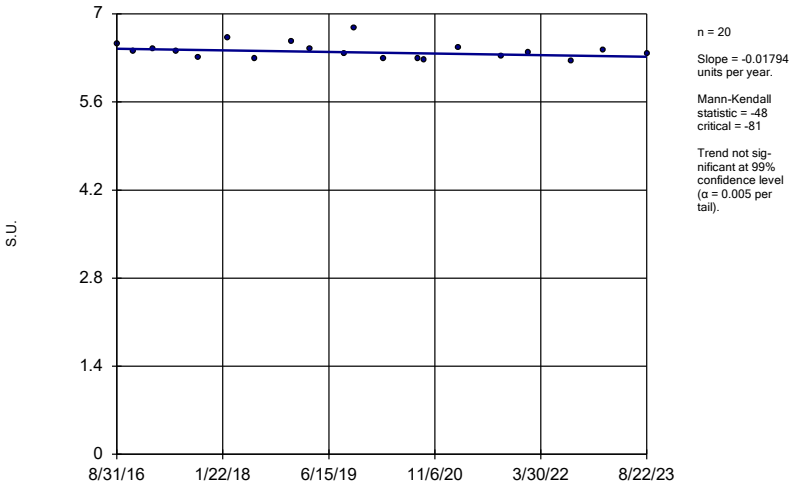
Constituent: pH, Field Analysis Run 10/23/2023 11:15 AM View: Pond E - Trend Tests

Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.13 Software licensed to . UG

Sen's Slope Estimator

BRGWA-5I (bg)



n = 20

Slope = -0.01794 units per year.

Mann-Kendall statistic = -48
critical = -81

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 10/23/2023 11:15 AM View: Pond E - Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

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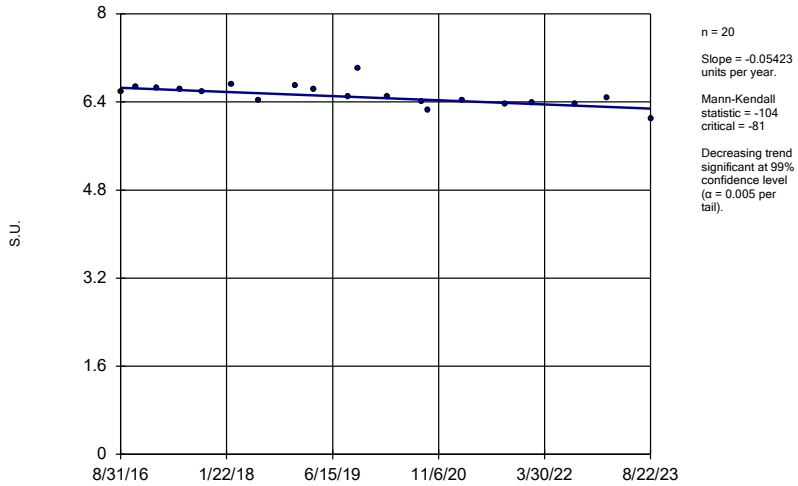
Sen's Slope Estimator

BRGWA-5S (bg)



n = 20

Slope = -0.05423 units per year.

Mann-Kendall statistic = -104
critical = -81

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 10/23/2023 11:15 AM View: Pond E - Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

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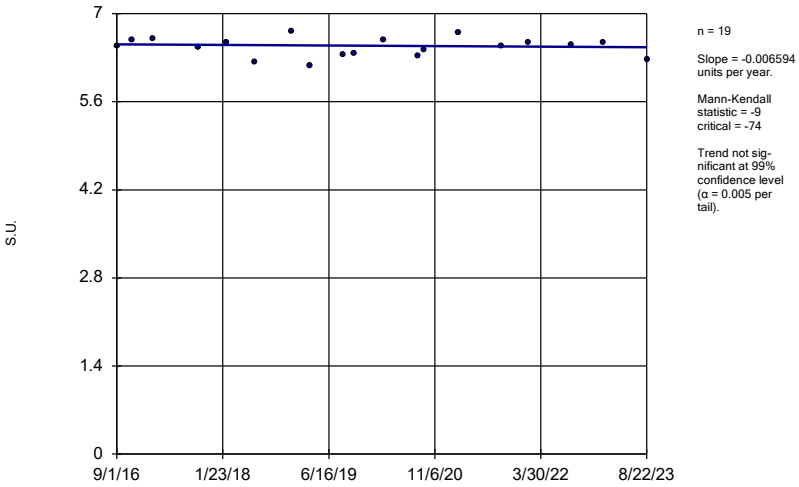
Sen's Slope Estimator

BRGWA-6S (bg)



n = 19

Slope = -0.006594 units per year.

Mann-Kendall statistic = -9
critical = -74

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 10/23/2023 11:15 AM View: Pond E - Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

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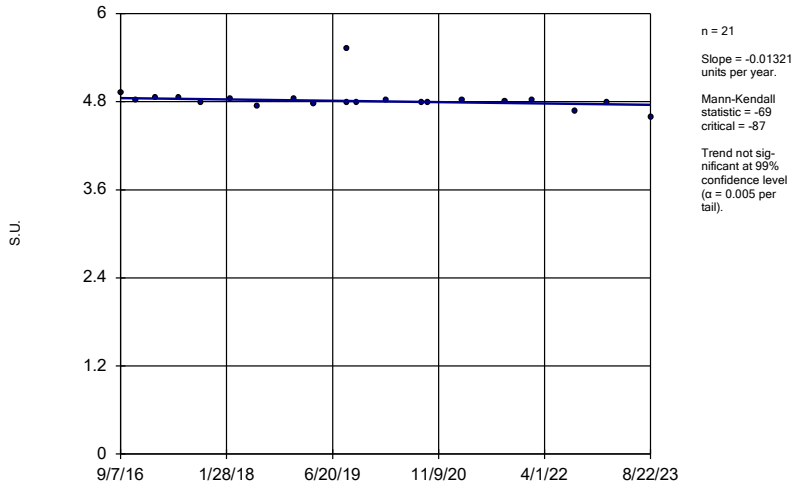
Sen's Slope Estimator

BRGWC-33S



n = 21

Slope = -0.01321 units per year.

Mann-Kendall statistic = -69
critical = -87

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 10/23/2023 11:15 AM View: Pond E - Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

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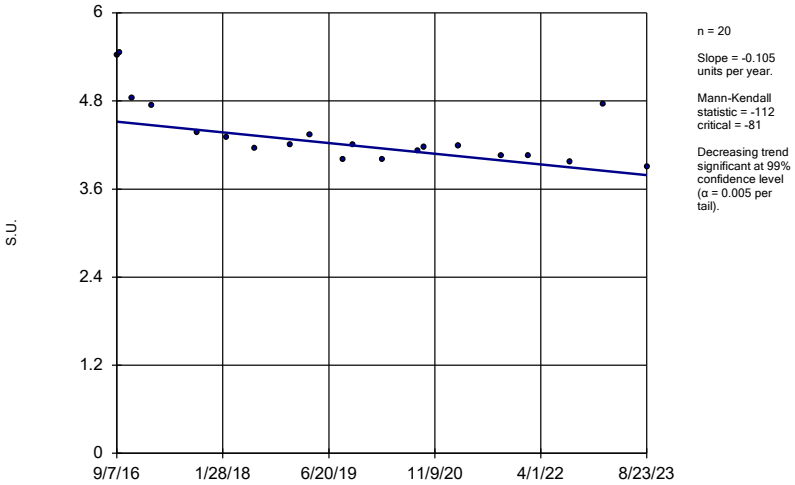
Sen's Slope Estimator

BRGWC-38S



n = 20

Slope = -0.105 units per year.

Mann-Kendall statistic = -112 critical = -81

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 10/23/2023 11:15 AM View: Pond E - Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

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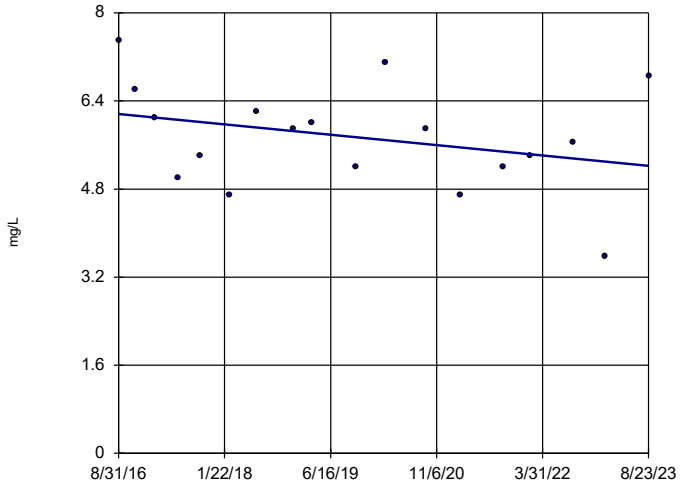
Sen's Slope Estimator

BRGWA-2I (bg)



n = 18

Slope = -0.1349 units per year.

Mann-Kendall statistic = -35 critical = -68

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/23/2023 11:15 AM View: Pond E - Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

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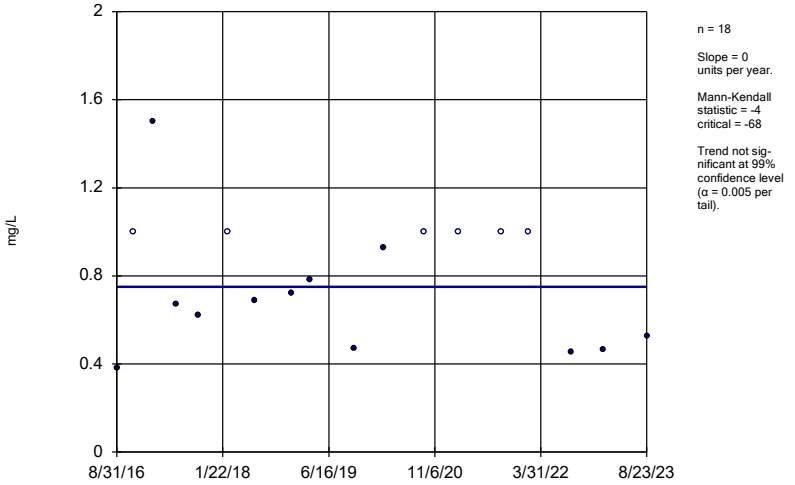
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-2S (bg)



n = 18

Slope = 0 units per year.

Mann-Kendall statistic = -4 critical = -68

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/23/2023 11:15 AM View: Pond E - Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

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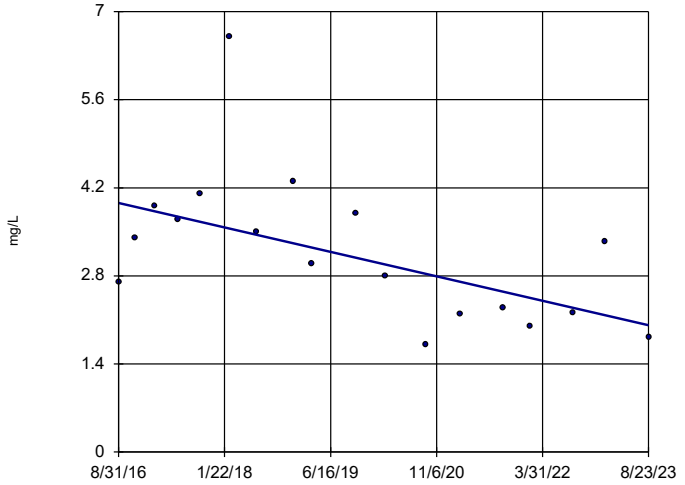
Sen's Slope Estimator

BRGWA-5I (bg)



n = 18

Slope = -0.2786 units per year.

Mann-Kendall statistic = -63 critical = -68

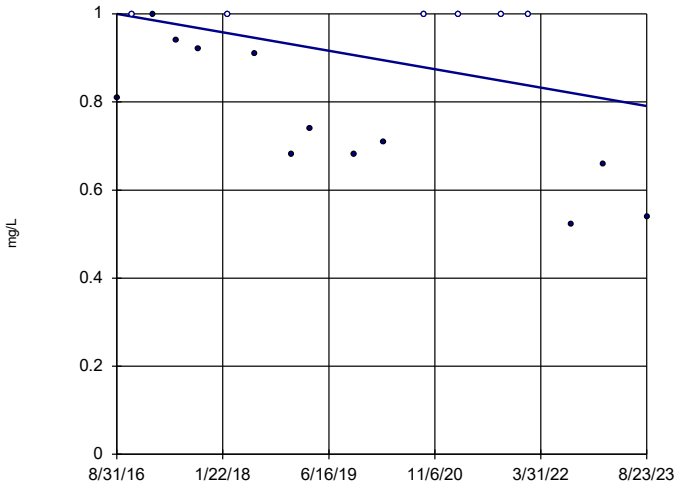
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/23/2023 11:15 AM View: Pond E - Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.13 Software licensed to . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-5S (bg)



n = 18

Slope = -0.0299 units per year.

Mann-Kendall statistic = -41
critical = -68

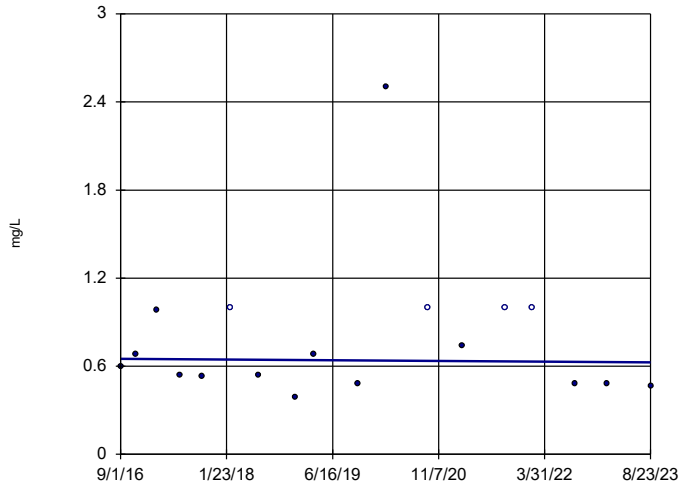
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/23/2023 11:15 AM View: Pond E - Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.13 Software licensed to . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-6S (bg)



n = 18

Slope = -0.00337 units per year.

Mann-Kendall statistic = -11
critical = -68

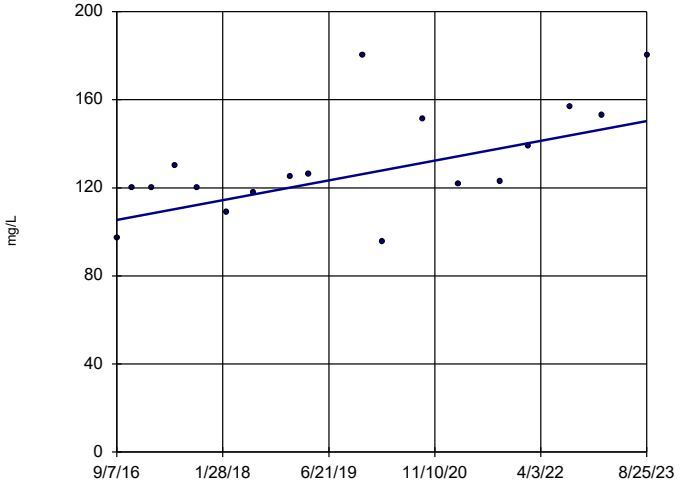
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/23/2023 11:15 AM View: Pond E - Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.13 Software licensed to . UG

Sen's Slope Estimator

BRGWC-17S



n = 18

Slope = 6.447 units per year.

Mann-Kendall statistic = 75
critical = 68

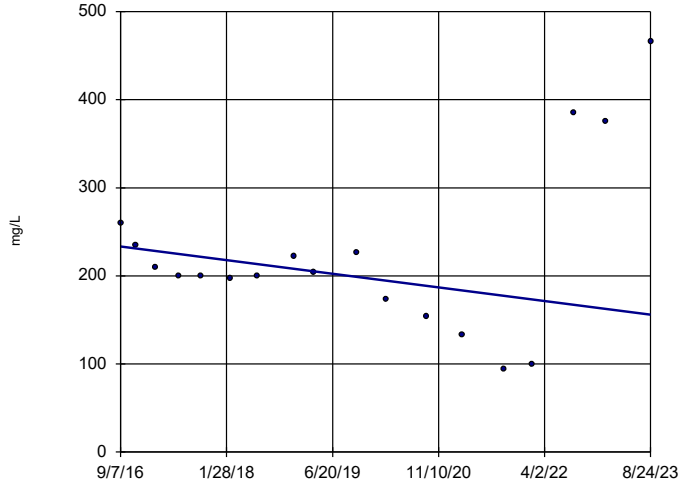
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/23/2023 11:15 AM View: Pond E - Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.13 Software licensed to . UG

Sen's Slope Estimator

BRGWC-33S



n = 18

Slope = -11.07 units per year.

Mann-Kendall statistic = -20
critical = -68

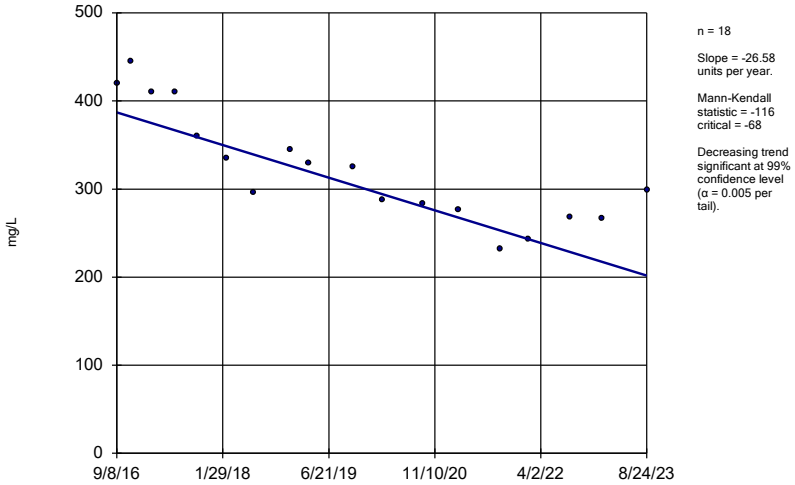
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/23/2023 11:15 AM View: Pond E - Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.13 Software licensed to . UG

Sen's Slope Estimator

BRGWC-34S



n = 18

Slope = -26.58 units per year.

Mann-Kendall statistic = -116
critical = -68

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/23/2023 11:15 AM View: Pond E - Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

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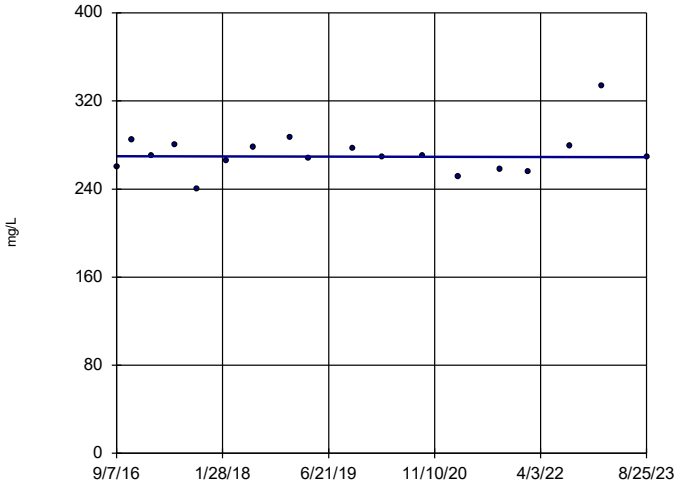
Sen's Slope Estimator

BRGWC-35S



n = 18

Slope = -0.1537 units per year.

Mann-Kendall statistic = -3
critical = -68

Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/23/2023 11:15 AM View: Pond E - Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

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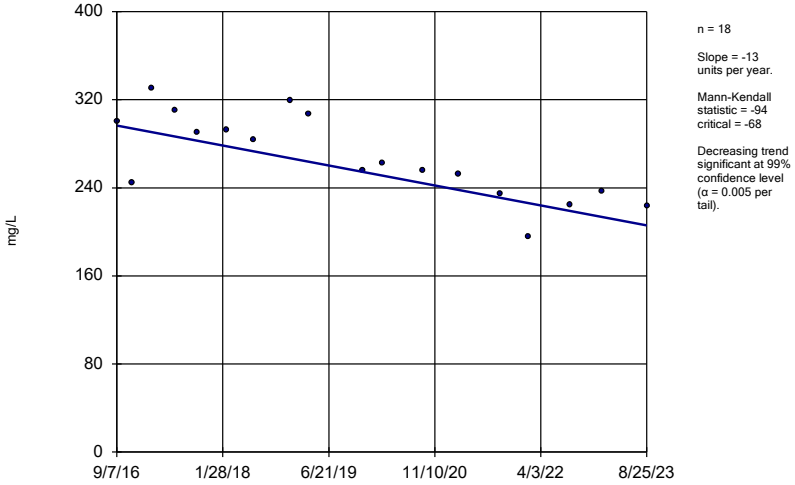
Sen's Slope Estimator

BRGWC-36S



n = 18

Slope = -13 units per year.

Mann-Kendall statistic = -94
critical = -68

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/23/2023 11:15 AM View: Pond E - Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

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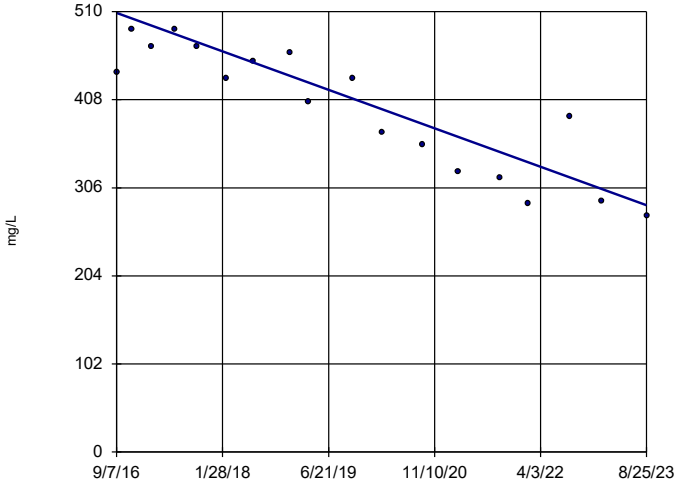
Sen's Slope Estimator

BRGWC-38S



n = 18

Slope = -31.94 units per year.

Mann-Kendall statistic = -116
critical = -68

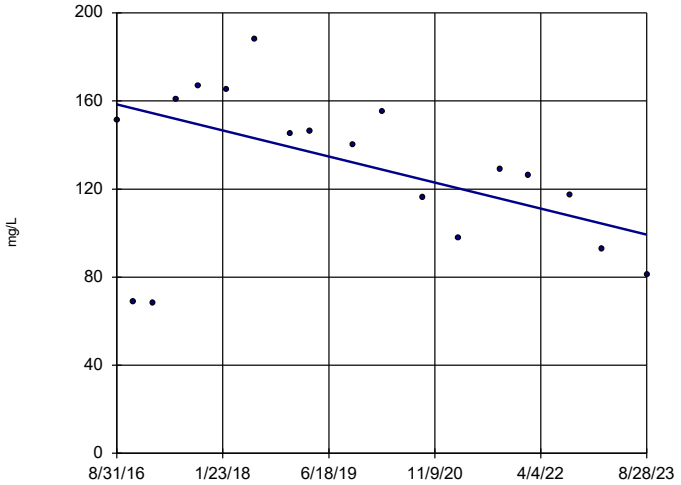
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/23/2023 11:15 AM View: Pond E - Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.13 Software licensed to . UG

Sen's Slope Estimator

BRGWA-2I (bg)



n = 18

Slope = -8.462 units per year.

Mann-Kendall statistic = -53 critical = -68

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 10/23/2023 11:15 AM View: Pond E - Trend Tests

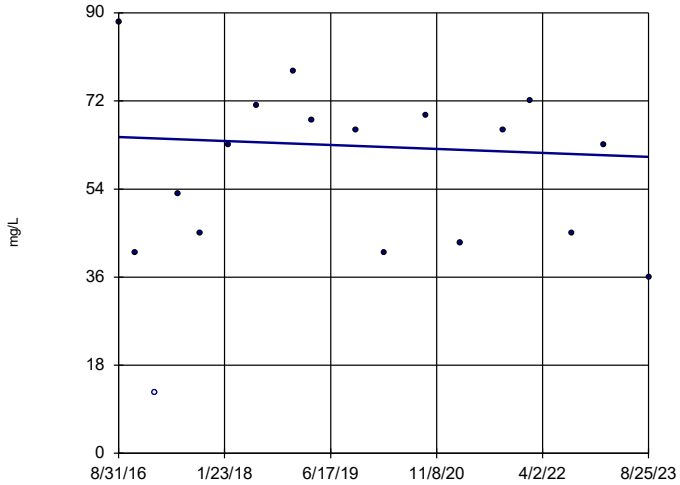
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.13 Software licensed to . UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-2S (bg)



n = 18

Slope = -0.5826 units per year.

Mann-Kendall statistic = -5 critical = -68

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 10/23/2023 11:15 AM View: Pond E - Trend Tests

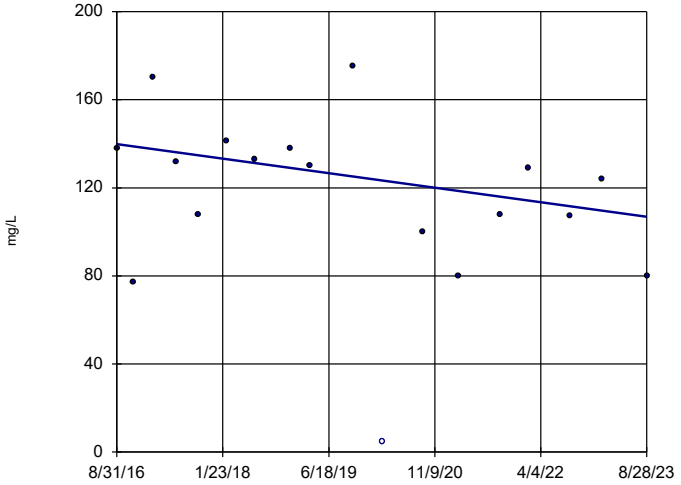
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.13 Software licensed to . UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-5I (bg)



n = 18

Slope = -4.727 units per year.

Mann-Kendall statistic = -44 critical = -68

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 10/23/2023 11:15 AM View: Pond E - Trend Tests

Plant Branch Client: Southern Company Data: Plant Branch AP

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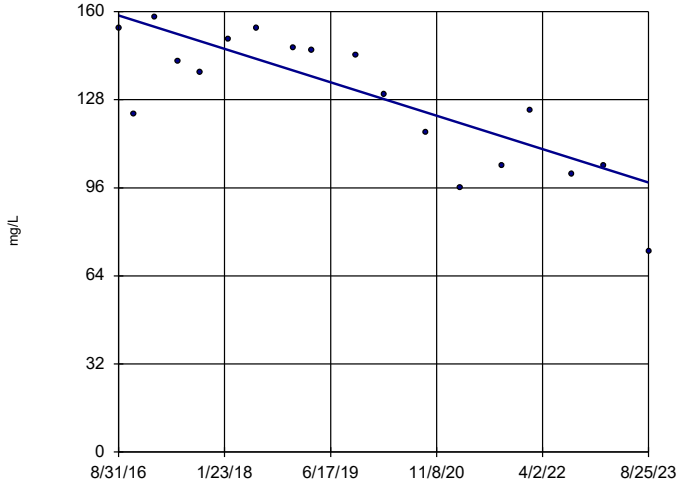
Sen's Slope Estimator

BRGWA-5S (bg)



n = 18

Slope = -8.69 units per year.

Mann-Kendall statistic = -93 critical = -68

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 10/23/2023 11:15 AM View: Pond E - Trend Tests

Plant Branch Client: Southern Company Data: Plant Branch AP

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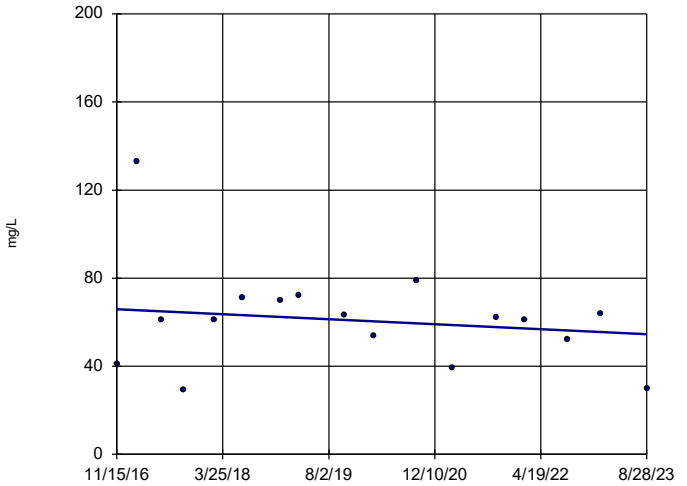
Sen's Slope Estimator

BRGWA-6S (bg)



n = 17

Slope = -1.676 units per year.

Mann-Kendall statistic = -17
critical = -63

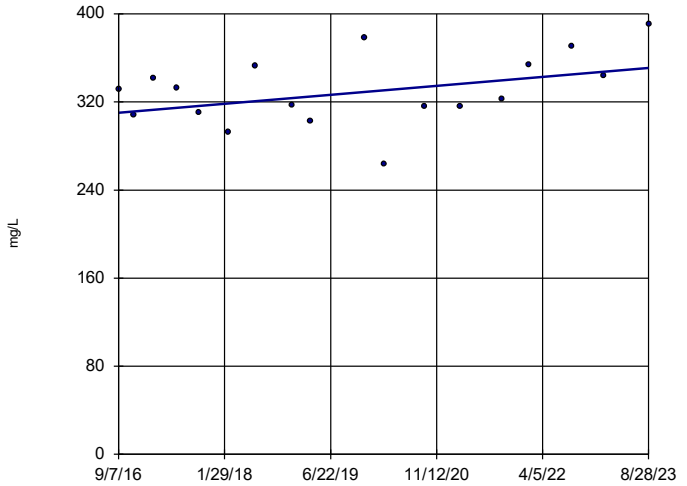
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 10/23/2023 11:15 AM View: Pond E - Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.13 Software licensed to . UG

Sen's Slope Estimator

BRGWC-17S



n = 18

Slope = 5.817 units per year.

Mann-Kendall statistic = 44
critical = 68

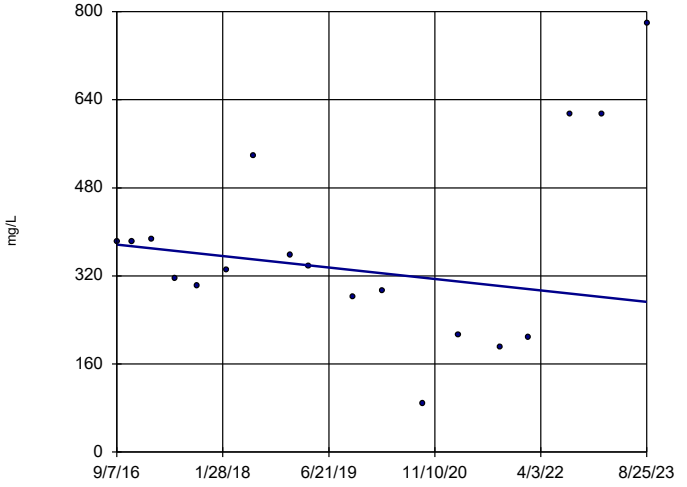
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 10/23/2023 11:15 AM View: Pond E - Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.13 Software licensed to . UG

Sen's Slope Estimator

BRGWC-33S



n = 18

Slope = -14.96 units per year.

Mann-Kendall statistic = -14
critical = -68

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 10/23/2023 11:15 AM View: Pond E - Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

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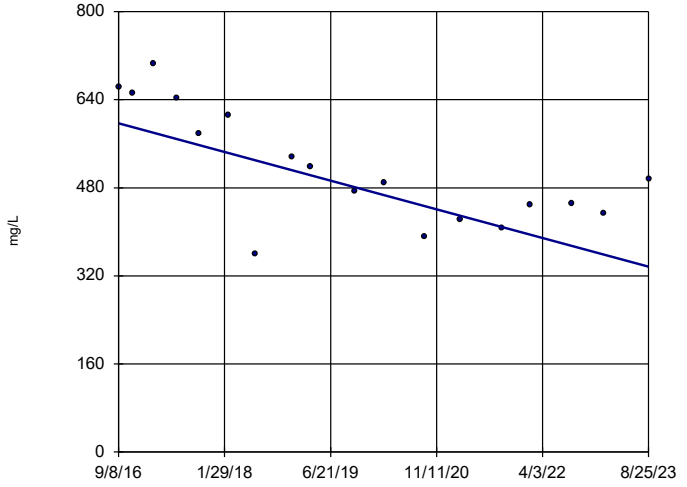
Sen's Slope Estimator

BRGWC-34S



n = 18

Slope = -37.39 units per year.

Mann-Kendall statistic = -83
critical = -68

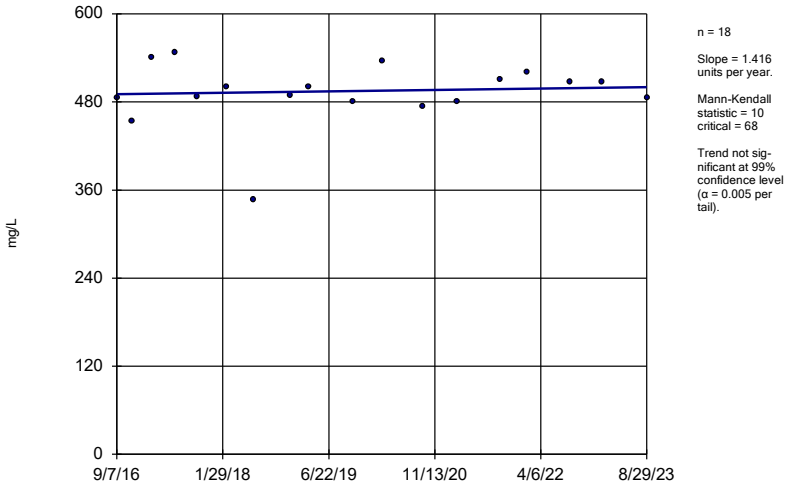
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 10/23/2023 11:15 AM View: Pond E - Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.13 Software licensed to . UG

Sen's Slope Estimator

BRGWC-35S



n = 18

Slope = 1.416 units per year.

Mann-Kendall statistic = 10
critical = 68

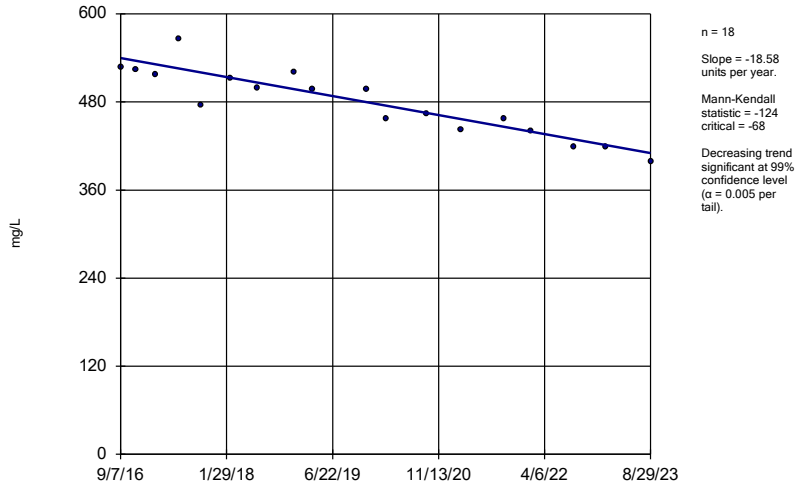
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 10/23/2023 11:15 AM View: Pond E - Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.13 Software licensed to . UG

Sen's Slope Estimator

BRGWC-36S



n = 18

Slope = -18.58 units per year.

Mann-Kendall statistic = -124
critical = -68

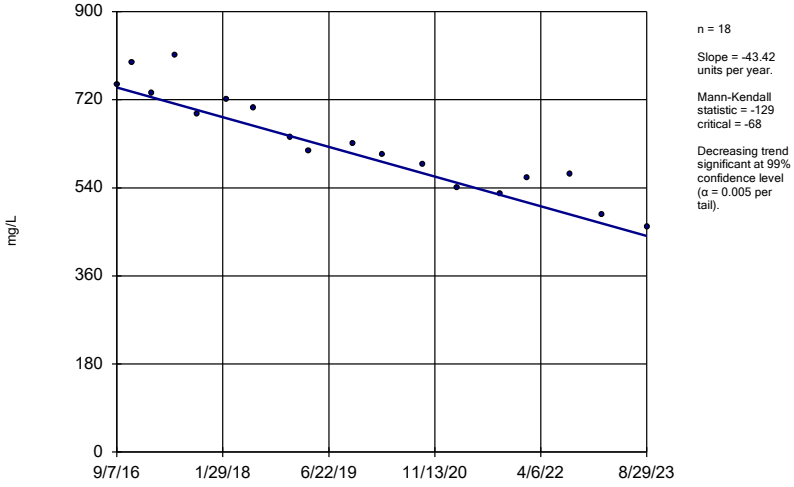
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 10/23/2023 11:15 AM View: Pond E - Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.13 Software licensed to . UG

Sen's Slope Estimator

BRGWC-38S



n = 18

Slope = -43.42 units per year.

Mann-Kendall statistic = -129
critical = -68

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 10/23/2023 11:15 AM View: Pond E - Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

FIGURE F.

Upper Tolerance Limits Summary Table

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 10/16/2023, 6:01 PM

Constituent	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Antimony (mg/L)	0.003	n/a	n/a	n/a	n/a	95	92.63	n/a	0.007651	NP Inter(NDs)
Arsenic (mg/L)	0.005	n/a	n/a	n/a	n/a	95	77.89	n/a	0.007651	NP Inter(NDs)
Barium (mg/L)	0.063	n/a	n/a	n/a	n/a	95	0	n/a	0.007651	NP Inter(normality)
Beryllium (mg/L)	0.0005	n/a	n/a	n/a	n/a	95	100	n/a	0.007651	NP Inter(NDs)
Cadmium (mg/L)	0.001	n/a	n/a	n/a	n/a	95	100	n/a	0.007651	NP Inter(NDs)
Chromium (mg/L)	0.016	n/a	n/a	n/a	n/a	95	15.79	n/a	0.007651	NP Inter(normality)
Cobalt (mg/L)	0.0034	n/a	n/a	n/a	n/a	93	44.09	n/a	0.008478	NP Inter(normality)
Combined Radium 226 + 228 (pCi/L)	1.792	n/a	n/a	n/a	n/a	95	0	sqrt(x)	0.05	Inter
Fluoride (mg/L)	0.289	n/a	n/a	n/a	n/a	100	53	n/a	0.005921	NP Inter(NDs)
Lead (mg/L)	0.002	n/a	n/a	n/a	n/a	95	82.11	n/a	0.007651	NP Inter(NDs)
Lithium (mg/L)	0.089	n/a	n/a	n/a	n/a	95	46.32	n/a	0.007651	NP Inter(normality)
Mercury (mg/L)	0.00021	n/a	n/a	n/a	n/a	85	88.24	n/a	0.01278	NP Inter(NDs)
Molybdenum (mg/L)	0.008	n/a	n/a	n/a	n/a	95	67.37	n/a	0.007651	NP Inter(NDs)
Selenium (mg/L)	0.005	n/a	n/a	n/a	n/a	95	100	n/a	0.007651	NP Inter(NDs)
Thallium (mg/L)	0.002	n/a	n/a	n/a	n/a	95	100	n/a	0.007651	NP Inter(NDs)

FIGURE G.

PLANT BRANCH POND E GWPS				
Constituent Name	**MCL**	**CCR-Rule Specified**	**Background Limit**	**GWPS**
Antimony, Total (mg/L)	0.006		0.003	0.006
Arsenic, Total (mg/L)	0.01		0.005	0.01
Barium, Total (mg/L)	2		0.063	2
Beryllium, Total (mg/L)	0.004		0.0005	0.004
Cadmium, Total (mg/L)	0.005		0.001	0.005
Chromium, Total (mg/L)	0.1		0.016	0.1
Cobalt, Total (mg/L)	n/a	0.006	0.0034	0.006
Combined Radium, Total (pCi/L)	5		1.79	5
Fluoride, Total (mg/L)	4		0.29	4
Lead, Total (mg/L)	n/a	0.015	0.002	0.015
Lithium, Total (mg/L)	n/a	0.04	0.089	0.089
Mercury, Total (mg/L)	0.002		0.00021	0.002
Molybdenum, Total (mg/L)	n/a	0.1	0.008	0.1
Selenium, Total (mg/L)	0.05		0.005	0.05
Thallium, Total (mg/L)	0.002		0.002	0.002

**Highlighted cells indicate Background is higher than MCLs*

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residuals*

**GWPS = Groundwater Protection Standard*

FIGURE H.

Confidence Intervals Summary Table - Significant Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 10/17/2023, 3:31 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Beryllium (mg/L)	**BRGWC-38S**	**0.00921**	**0.007874**	**0.004**	**Yes**	**20**	**0.001177**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	**BRGWC-33S**	**0.05417**	**0.03986**	**0.006**	**Yes**	**20**	**0.01261**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	**BRGWC-38S**	**0.2471**	**0.194**	**0.006**	**Yes**	**19**	**0.04535**	**0**	**None**	**No**	**0.01**	**Param.**

Confidence Intervals Summary Table - All Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 10/17/2023, 3:31 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	BRGWC-17S	0.003	0.0009	0.006	No	19	0.0004818	94.74	None	No	0.01	NP (NDs)
Antimony (mg/L)	BRGWC-36S	0.003	0.0016	0.006	No	19	0.0009666	78.95	None	No	0.01	NP (NDs)
Antimony (mg/L)	BRGWC-37S	0.003	0.0006	0.006	No	19	0.000789	89.47	None	No	0.01	NP (NDs)
Antimony (mg/L)	BRGWC-38S	0.003	0.0009	0.006	No	19	0.0006945	89.47	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-17S	0.005	0.0033	0.01	No	19	0.001642	78.95	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-33S	0.005	0.00262	0.01	No	20	0.001515	80	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-35S	0.005	0.0006	0.01	No	19	0.001694	84.21	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-36S	0.005	0.001	0.01	No	19	0.001607	84.21	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-37S	0.005	0.003	0.01	No	19	0.001691	78.95	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-38S	0.003082	0.001775	0.01	No	19	0.00148	15.79	Kaplan-Meier	sqrt(x)	0.01	Param.
Arsenic (mg/L)	PZ-13S	0.005	0.00388	0.01	No	5	0.0005009	80	Kaplan-Meier	No	0.031	NP (NDs)
Barium (mg/L)	BRGWC-17S	0.04392	0.03945	2	No	19	0.003817	0	None	No	0.01	Param.
Barium (mg/L)	BRGWC-33S	0.0243	0.02	2	No	20	0.006312	0	None	No	0.01	NP (normality)
Barium (mg/L)	BRGWC-34S	0.0347	0.0232	2	No	19	0.006782	0	None	No	0.01	NP (normality)
Barium (mg/L)	BRGWC-35S	0.0518	0.0339	2	No	19	0.01889	0	None	No	0.01	NP (normality)
Barium (mg/L)	BRGWC-36S	0.04103	0.03052	2	No	19	0.01054	0	None	ln(x)	0.01	Param.
Barium (mg/L)	BRGWC-37S	0.0253	0.02342	2	No	19	0.001607	0	None	No	0.01	Param.
Barium (mg/L)	BRGWC-38S	0.0247	0.0141	2	No	19	0.009453	0	None	No	0.01	NP (normality)
Barium (mg/L)	PZ-13S	0.1394	0.03177	2	No	5	0.03557	0	None	sqrt(x)	0.01	Param.
Beryllium (mg/L)	BRGWC-33S	0.001999	0.001607	0.004	No	20	0.0003452	5	None	No	0.01	Param.
Beryllium (mg/L)	BRGWC-34S	0.0005	0.00012	0.004	No	19	0.0001657	26.32	None	No	0.01	NP (normality)
Beryllium (mg/L)	BRGWC-35S	0.00021	0.0001	0.004	No	19	0.000139	15.79	None	No	0.01	NP (normality)
Beryllium (mg/L)	BRGWC-36S	0.0005	0.000087	0.004	No	20	0.0001993	35	None	No	0.01	NP (normality)
Beryllium (mg/L)	**BRGWC-38S**	**0.00921**	**0.007874**	**0.004**	**Yes**	**20**	**0.001177**	**0**	**None**	**No**	**0.01**	**Param.**
Beryllium (mg/L)	PZ-13S	0.0005359	0.0002289	0.004	No	5	0.00009162	0	None	No	0.01	Param.
Cadmium (mg/L)	BRGWC-33S	0.000461	0.0003314	0.005	No	20	0.0001141	5	None	No	0.01	Param.
Cadmium (mg/L)	BRGWC-34S	0.0009	0.00017	0.005	No	19	0.0003391	21.05	None	No	0.01	NP (normality)
Cadmium (mg/L)	BRGWC-36S	0.001	0.0001	0.005	No	20	0.0002801	90	None	No	0.01	NP (NDs)
Cadmium (mg/L)	BRGWC-38S	0.0005911	0.0004804	0.005	No	19	0.00009452	5.263	None	No	0.01	Param.
Cadmium (mg/L)	PZ-13S	0.001	0.00011	0.005	No	5	0.000398	80	None	No	0.031	NP (NDs)
Chromium (mg/L)	BRGWC-17S	0.01253	0.01002	0.1	No	19	0.002256	0	None	sqrt(x)	0.01	Param.
Chromium (mg/L)	BRGWC-33S	0.01	0.00049	0.1	No	20	0.002127	95	None	No	0.01	NP (NDs)
Chromium (mg/L)	BRGWC-35S	0.006534	0.004579	0.1	No	19	0.001669	5.263	None	No	0.01	Param.
Chromium (mg/L)	BRGWC-36S	0.008156	0.00709	0.1	No	19	0.0009102	0	None	No	0.01	Param.
Chromium (mg/L)	BRGWC-37S	0.01	0.0014	0.1	No	19	0.00406	31.58	None	No	0.01	NP (normality)
Chromium (mg/L)	BRGWC-38S	0.00408	0.003489	0.1	No	19	0.0007046	0	None	x^3	0.01	Param.
Chromium (mg/L)	PZ-13S	0.02633	0.007353	0.1	No	5	0.005662	0	None	No	0.01	Param.
Cobalt (mg/L)	**BRGWC-33S**	**0.05417**	**0.03986**	**0.006**	**Yes**	**20**	**0.01261**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	BRGWC-34S	0.00447	0.003398	0.006	No	19	0.001057	5.263	None	ln(x)	0.01	Param.
Cobalt (mg/L)	BRGWC-35S	0.0012	0.0008	0.006	No	19	0.0003815	73.68	None	No	0.01	NP (NDs)
Cobalt (mg/L)	**BRGWC-38S**	**0.2471**	**0.194**	**0.006**	**Yes**	**19**	**0.04535**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	PZ-13S	0.001	0.00037	0.006	No	5	0.0002817	80	None	No	0.031	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	BRGWC-17S	0.8945	0.3662	5	No	19	0.4511	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-33S	1.379	0.6385	5	No	19	0.7172	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-34S	1.232	0.7771	5	No	19	0.4221	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-35S	1.448	0.5121	5	No	19	1.018	0	None	x^(1/3)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-36S	1.572	0.7046	5	No	19	1.154	0	None	ln(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-37S	0.9584	0.4076	5	No	19	0.5369	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-38S	3.781	2.111	5	No	19	1.568	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-13S	4.383	0.1171	5	No	5	1.718	20	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride (mg/L)	BRGWC-17S	0.177	0.09001	4	No	20	0.0998	5	None	x^(1/3)	0.01	Param.
Fluoride (mg/L)	BRGWC-33S	0.2171	0.1117	4	No	21	0.1065	0	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	BRGWC-34S	0.1485	0.08037	4	No	20	0.07849	5	None	x^(1/3)	0.01	Param.
Fluoride (mg/L)	BRGWC-35S	0.1511	0.07005	4	No	20	0.09165	15	None	x^(1/3)	0.01	Param.
Fluoride (mg/L)	BRGWC-36S	0.1575	0.0486	4	No	20	0.1104	45	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride (mg/L)	BRGWC-37S	0.1	0.055	4	No	20	0.0283	40	None	No	0.01	NP (normality)
Fluoride (mg/L)	BRGWC-38S	0.9199	0.7223	4	No	20	0.1939	0	None	x^(1/3)	0.01	Param.
Fluoride (mg/L)	PZ-13S	0.128	0.06	4	No	5	0.02427	60	None	No	0.031	NP (NDs)
Lead (mg/L)	BRGWC-17S	0.002	0.0001	0.015	No	19	0.0006064	89.47	None	No	0.01	NP (NDs)
Lead (mg/L)	BRGWC-33S	0.002	0.000087	0.015	No	20	0.0009526	40	None	No	0.01	NP (normality)
Lead (mg/L)	BRGWC-34S	0.002	0.0003	0.015	No	19	0.0006892	84.21	None	No	0.01	NP (NDs)
Lead (mg/L)	BRGWC-35S	0.002	0.0002	0.015	No	19	0.0007835	78.95	None	No	0.01	NP (NDs)
Lead (mg/L)	BRGWC-36S	0.002	0.000047	0.015	No	19	0.000448	94.74	None	No	0.01	NP (NDs)
Lead (mg/L)	BRGWC-37S	0.002	0.0001	0.015	No	19	0.0005991	89.47	None	No	0.01	NP (NDs)
Lead (mg/L)	BRGWC-38S	0.002	0.00035	0.015	No	19	0.000729	26.32	None	No	0.01	NP (normality)
Lead (mg/L)	PZ-13S	0.002	0.00035	0.015	No	5	0.0007379	80	None	No	0.031	NP (NDs)
Lithium (mg/L)	BRGWC-17S	0.01	0.00097	0.089	No	19	0.004471	63.16	None	No	0.01	NP (NDs)
Lithium (mg/L)	BRGWC-33S	0.01036	0.00927	0.089	No	20	0.0009573	0	None	No	0.01	Param.

Confidence Intervals Summary Table - All Results

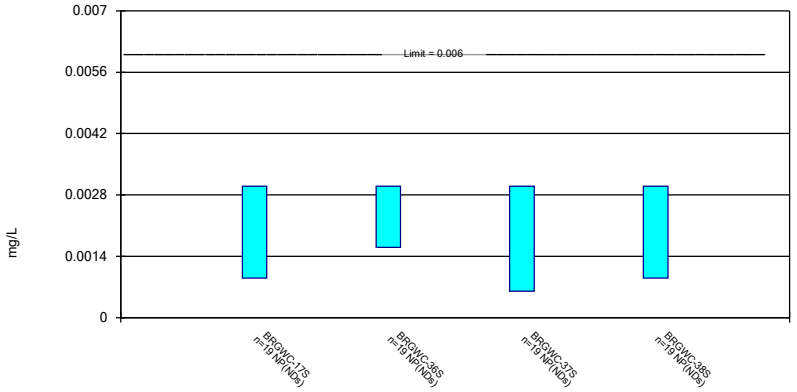
Plant Branch Client: Southern Company Data: Plant Branch AP Printed 10/17/2023, 3:31 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lithium (mg/L)	BRGWC-34S	0.01	0.00089	0.089	No	19	0.004362	68.42	None	No	0.01	NP (NDs)
Lithium (mg/L)	BRGWC-35S	0.0023	0.0021	0.089	No	19	0.002946	15.79	None	No	0.01	NP (normality)
Lithium (mg/L)	BRGWC-36S	0.01	0.0024	0.089	No	19	0.003163	21.05	None	No	0.01	NP (normality)
Lithium (mg/L)	BRGWC-38S	0.02256	0.0204	0.089	No	19	0.001851	0	None	No	0.01	Param.
Lithium (mg/L)	PZ-13S	0.01	0.001	0.089	No	5	0.004744	60	None	No	0.031	NP (NDs)
Mercury (mg/L)	BRGWC-17S	0.0002	0.0001	0.002	No	17	0.00004717	82.35	None	No	0.01	NP (NDs)
Mercury (mg/L)	BRGWC-33S	0.0002	0.00012	0.002	No	18	0.00004929	83.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	BRGWC-34S	0.0002	0.00015	0.002	No	17	0.00005064	76.47	None	No	0.01	NP (NDs)
Mercury (mg/L)	BRGWC-35S	0.0002	0.00013	0.002	No	17	0.00003949	82.35	None	No	0.01	NP (NDs)
Mercury (mg/L)	BRGWC-36S	0.0002	0.00013	0.002	No	17	0.0000407	82.35	None	No	0.01	NP (NDs)
Mercury (mg/L)	BRGWC-37S	0.0002	0.00014	0.002	No	17	0.00004058	82.35	None	No	0.01	NP (NDs)
Mercury (mg/L)	BRGWC-38S	0.0001524	0.00009621	0.002	No	17	0.00004963	23.53	Kaplan-Meier	No	0.01	Param.
Selenium (mg/L)	BRGWC-17S	0.002466	0.001797	0.05	No	19	0.00129	21.05	Kaplan-Meier	ln(x)	0.01	Param.
Selenium (mg/L)	BRGWC-33S	0.004385	0.002576	0.05	No	20	0.001287	45	Kaplan-Meier	x^2	0.01	Param.
Selenium (mg/L)	BRGWC-36S	0.00474	0.002801	0.05	No	19	0.001814	0	None	sqrt(x)	0.01	Param.
Selenium (mg/L)	BRGWC-38S	0.0398	0.03077	0.05	No	19	0.007711	0	None	No	0.01	Param.
Selenium (mg/L)	PZ-13S	0.003346	0.001094	0.05	No	5	0.001316	20	Kaplan-Meier	No	0.01	Param.
Thallium (mg/L)	BRGWC-17S	0.002	0.000066	0.002	No	19	0.0004437	94.74	None	No	0.01	NP (NDs)
Thallium (mg/L)	BRGWC-33S	0.00024	0.00018	0.002	No	20	0.000802	25	None	No	0.01	NP (normality)
Thallium (mg/L)	BRGWC-38S	0.002	0.0002	0.002	No	19	0.0008718	36.84	None	No	0.01	NP (normality)

Sanitas™ v.10.0.13 . UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

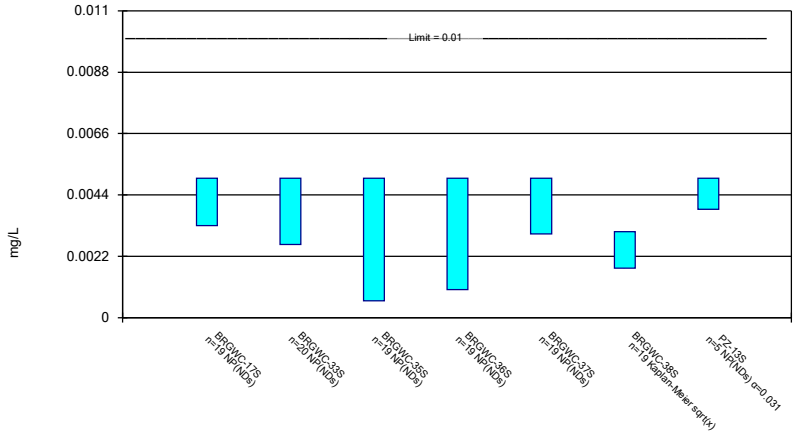


Constituent: Antimony Analysis Run 10/16/2023 6:08 PM View: Appendix IV - Confidence Intervals - E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

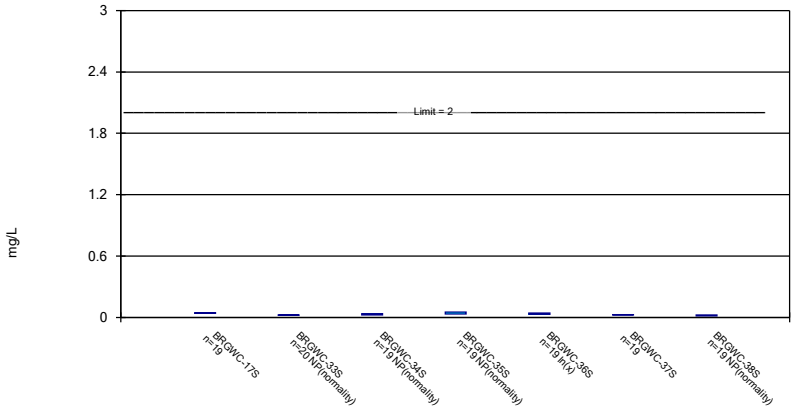


Constituent: Arsenic Analysis Run 10/16/2023 6:08 PM View: Appendix IV - Confidence Intervals - E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

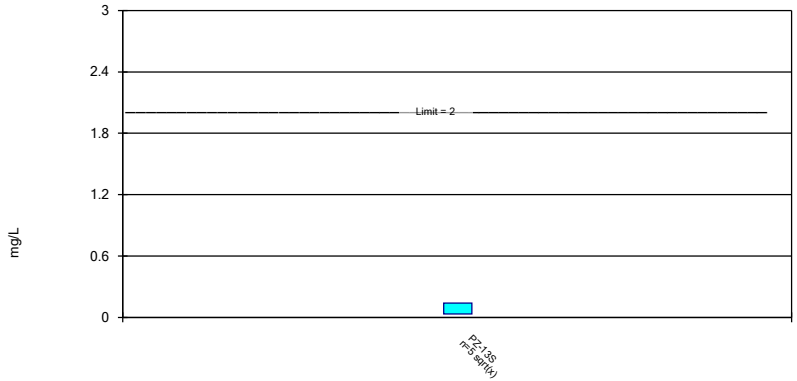


Constituent: Barium Analysis Run 10/16/2023 6:08 PM View: Appendix IV - Confidence Intervals - E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

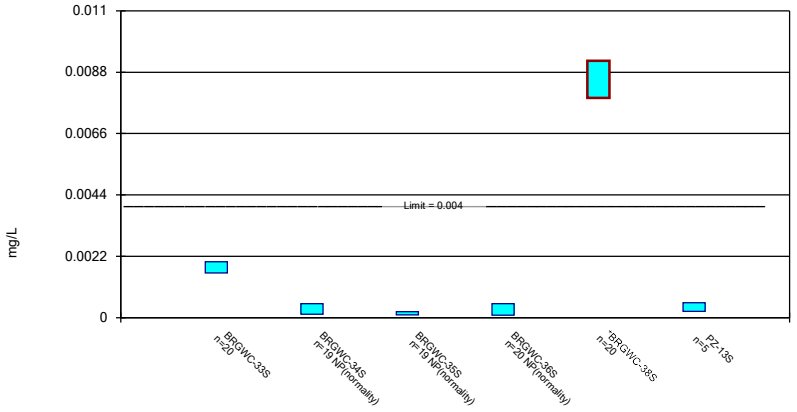


Constituent: Barium Analysis Run 10/16/2023 6:08 PM View: Appendix IV - Confidence Intervals - E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

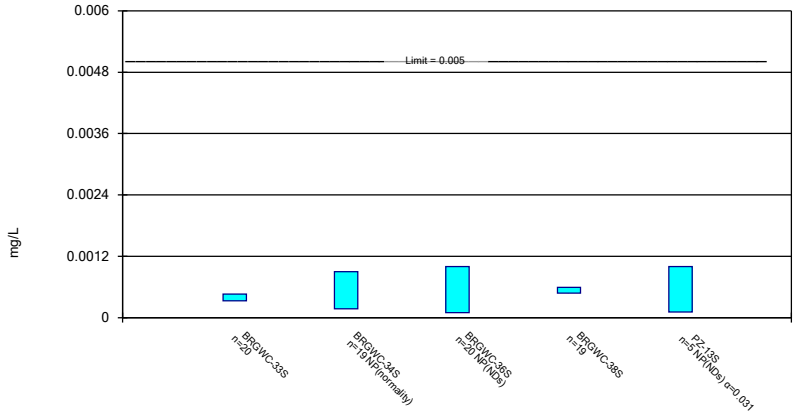


Constituent: Beryllium Analysis Run 10/16/2023 6:08 PM View: Appendix IV - Confidence Intervals - E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

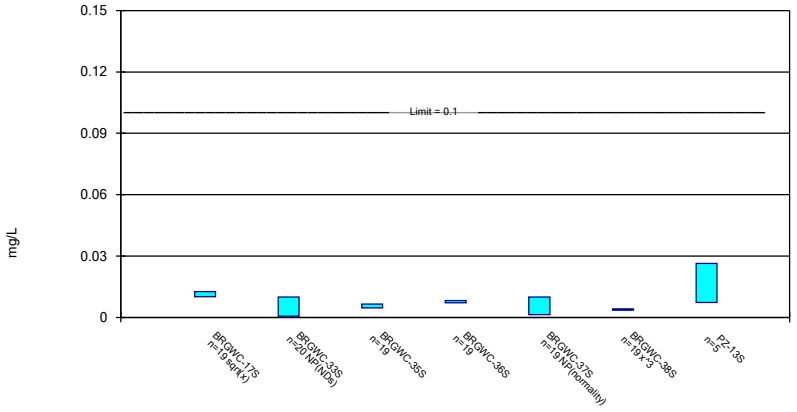


Constituent: Cadmium Analysis Run 10/16/2023 6:08 PM View: Appendix IV - Confidence Intervals - E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

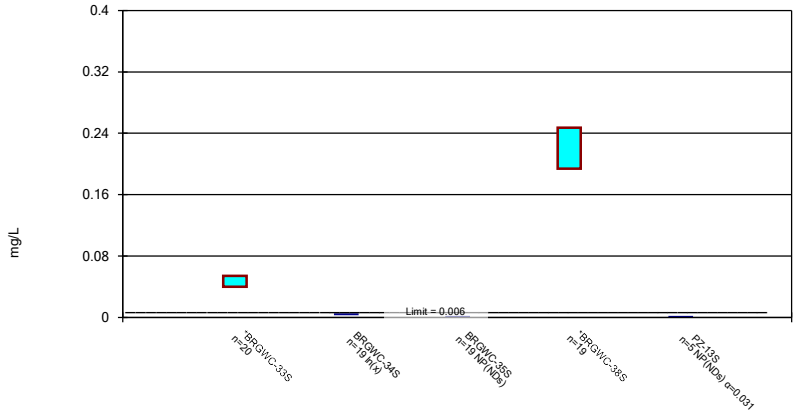


Constituent: Chromium Analysis Run 10/16/2023 6:08 PM View: Appendix IV - Confidence Intervals - E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

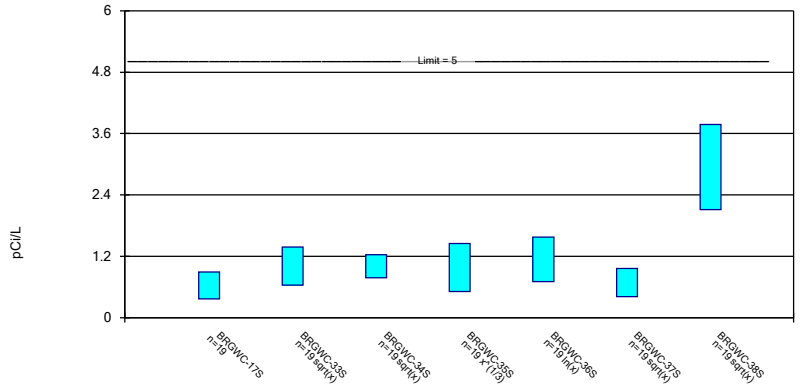


Constituent: Cobalt Analysis Run 10/16/2023 6:08 PM View: Appendix IV - Confidence Intervals - E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

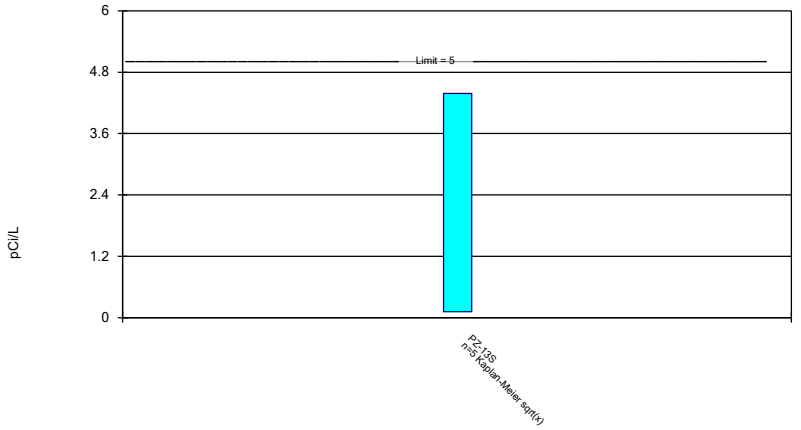


Constituent: Combined Radium 226 + 228 Analysis Run 10/16/2023 6:08 PM View: Appendix IV - Confide
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

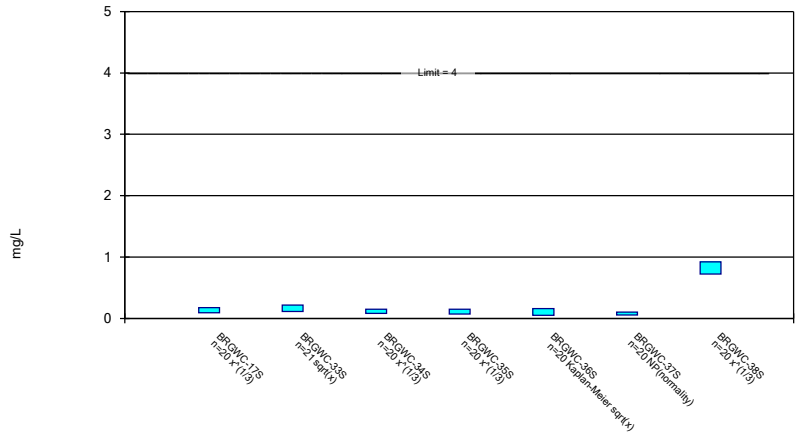


Constituent: Combined Radium 226 + 228 Analysis Run 10/16/2023 6:08 PM View: Appendix IV - Confide
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

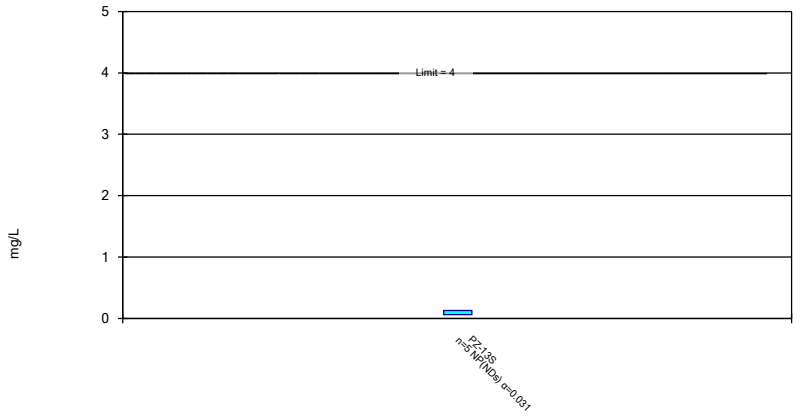


Constituent: Fluoride Analysis Run 10/16/2023 6:08 PM View: Appendix IV - Confidence Intervals - E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.

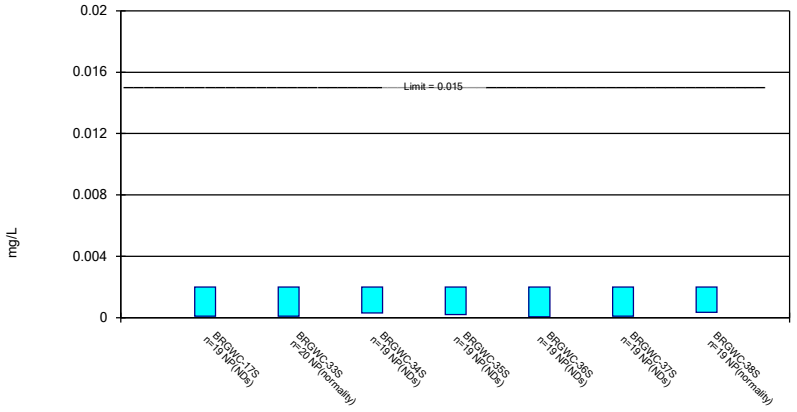


Constituent: Fluoride Analysis Run 10/16/2023 6:08 PM View: Appendix IV - Confidence Intervals - E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

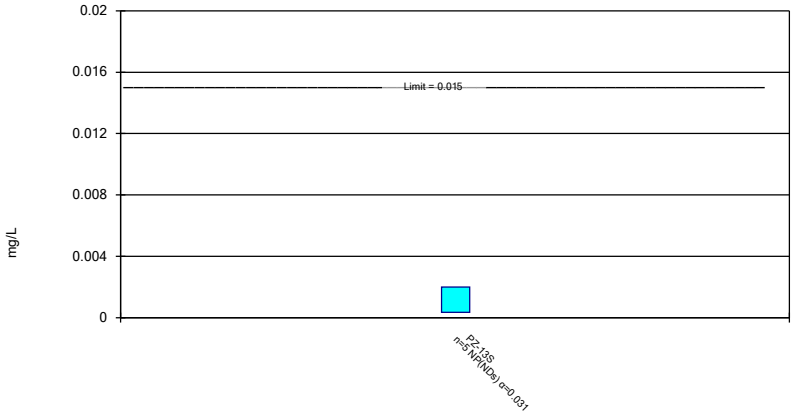


Constituent: Lead Analysis Run 10/16/2023 6:08 PM View: Appendix IV - Confidence Intervals - E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.

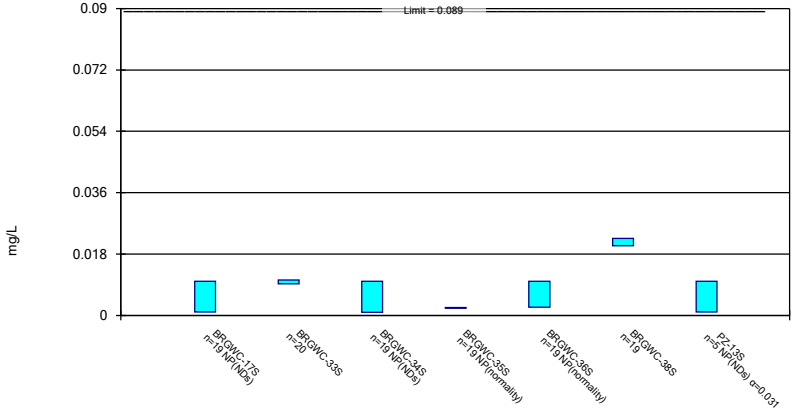


Constituent: Lead Analysis Run 10/16/2023 6:08 PM View: Appendix IV - Confidence Intervals - E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

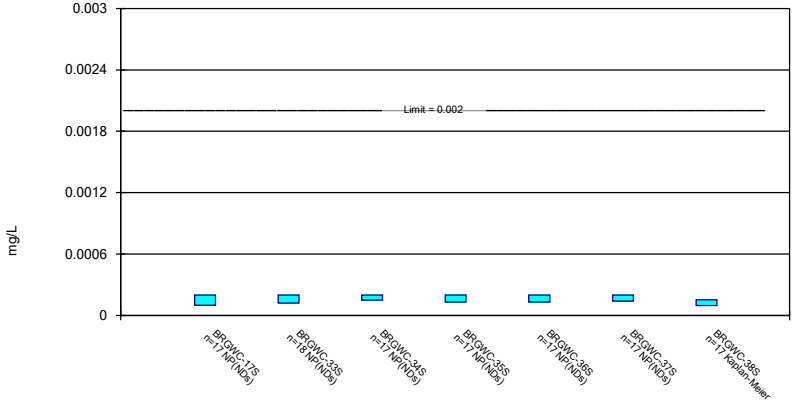


Constituent: Lithium Analysis Run 10/16/2023 6:08 PM View: Appendix IV - Confidence Intervals - E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

Parametric and Non-Parametric (NP) Confidence Interval

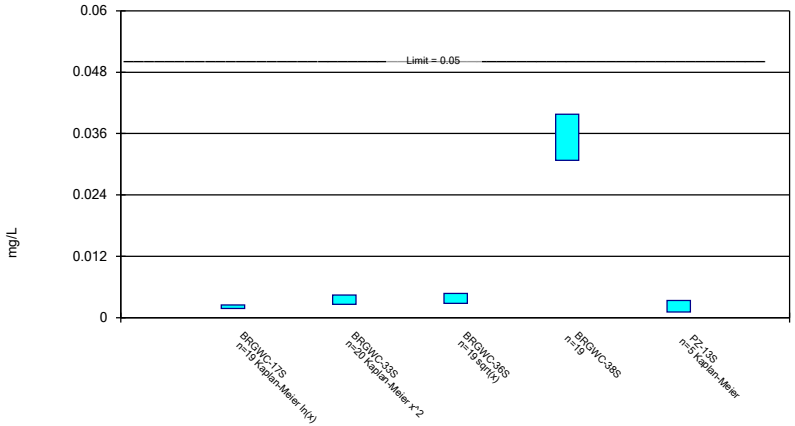
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Mercury Analysis Run 10/16/2023 6:08 PM View: Appendix IV - Confidence Intervals - E
Plant Branch Client: Southern Company Data: Plant Branch AP

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

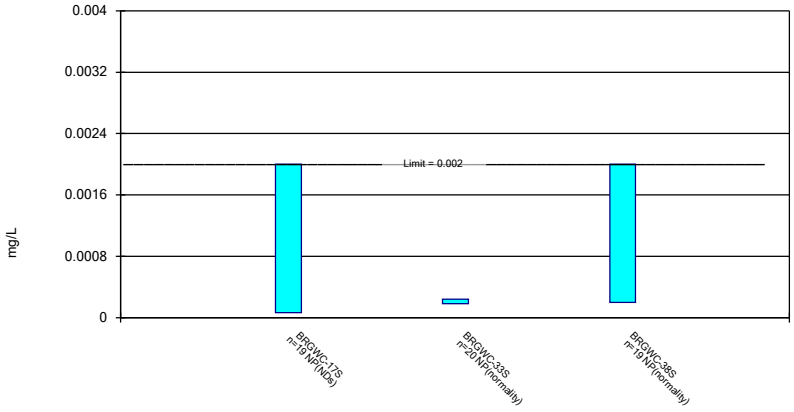


Constituent: Selenium Analysis Run 10/16/2023 6:08 PM View: Appendix IV - Confidence Intervals - E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Thallium Analysis Run 10/16/2023 6:08 PM View: Appendix IV - Confidence Intervals - E
Plant Branch Client: Southern Company Data: Plant Branch AP

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 10/16/2023 6:10 PM View: Appendix IV - Confidence Intervals - E
Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-17S	BRGWC-36S	BRGWC-37S	BRGWC-38S
9/7/2016	<0.003	<0.003		<0.003
11/17/2016	<0.003			
11/18/2016		0.0016 (J)		
11/21/2016				0.0009 (J)
2/22/2017	<0.003			
2/23/2017		<0.003	<0.003	<0.003
4/17/2017			0.0004 (J)	
5/15/2017			<0.003	
6/15/2017	0.0009 (J)	0.0006 (J)	0.0006 (J)	0.0007 (J)
9/28/2017	<0.003	<0.003	<0.003	<0.003
2/15/2018	<0.003	<0.003	<0.003	<0.003
6/27/2018	<0.003			
6/28/2018		<0.003	<0.003	<0.003
12/19/2018	<0.003	<0.003	<0.003	
12/20/2018				<0.003
8/28/2019	<0.003	0.00035 (J)	<0.003	
8/29/2019				<0.003
10/16/2019			<0.003	<0.003
12/3/2019	<0.003	0.00049 (J)		
3/3/2020	<0.003			
3/5/2020		<0.003	<0.003	<0.003
8/19/2020	<0.003	<0.003	<0.003	<0.003
9/16/2020	<0.003	<0.003	<0.003	
9/17/2020				<0.003
3/3/2021		<0.003	<0.003	
3/4/2021	<0.003			<0.003
9/22/2021	<0.003	<0.003		
9/23/2021			<0.003	<0.003
2/1/2022	<0.003	<0.003		<0.003
2/2/2022			<0.003	
8/23/2022			<0.003	<0.003
8/24/2022	<0.003	<0.003		
1/24/2023	<0.003			
1/25/2023		<0.003	<0.003	<0.003
8/31/2023			<0.003	
9/6/2023	<0.003	<0.003		<0.003
Mean	0.002889	0.002528	0.002737	0.002768
Std. Dev.	0.0004818	0.0009666	0.000789	0.0006945
Upper Lim.	0.003	0.003	0.003	0.003
Lower Lim.	0.0009	0.0016	0.0006	0.0009

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 10/16/2023 6:10 PM View: Appendix IV - Confidence Intervals - E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-17S	BRGWC-33S	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-13S
9/7/2016	<0.005	<0.005	<0.005	<0.005		0.0026 (J)	
11/17/2016	<0.005	<0.005	<0.005				
11/18/2016				<0.005			
11/21/2016						0.0034 (J)	
2/22/2017	<0.005	<0.005	<0.005				
2/23/2017				<0.005	<0.005	0.003 (J)	
4/17/2017					<0.005		
5/15/2017					<0.005		
6/14/2017		0.0006 (J)					
6/15/2017	0.0006 (J)		0.0006 (J)	0.0007 (J)	<0.005	0.005 (J)	
9/27/2017		<0.005					
9/28/2017	<0.005		<0.005	<0.005	<0.005	0.0046 (J)	
2/15/2018	<0.005	<0.005	<0.005	<0.005	<0.005	0.0016 (J)	
6/27/2018	<0.005	<0.005	<0.005				
6/28/2018				<0.005 (X)	<0.005 (X)	<0.005 (X)	
12/18/2018		<0.005 (X)					
12/19/2018	<0.005		<0.005	<0.005	<0.005		
12/20/2018						0.00098 (J)	
1/15/2019							<0.005
8/27/2019		<0.005					
8/28/2019	0.00073 (J)	<0.005	0.00044 (J)	0.00045 (J)	0.00038 (J)		
8/29/2019						0.0013 (J)	
10/16/2019		0.00056 (J)	0.0004 (J)		0.00078 (J)	0.0024 (J)	
10/22/2019							<0.005
12/3/2019	0.00058 (J)			0.001 (J)			
3/3/2020	0.0033 (J)						
3/5/2020		<0.005	<0.005	<0.005	0.00044 (J)	0.0011 (J)	
8/19/2020	<0.005	<0.005	<0.005	<0.005	<0.005	0.0021 (J)	
9/16/2020	<0.005	<0.005	<0.005	<0.005	<0.005		
9/17/2020						0.0015 (J)	
3/3/2021		<0.005		<0.005	<0.005		
3/4/2021	<0.005		<0.005			0.0029 (J)	
9/22/2021	<0.005	<0.005		<0.005			
9/23/2021			<0.005		<0.005	0.002 (J)	
2/1/2022	<0.005	<0.005	<0.005	<0.005		<0.005	
2/2/2022					<0.005		
8/23/2022		0.00262 (J)			<0.005	0.00337 (J)	<0.005
8/24/2022	<0.005		<0.005	<0.005			
1/24/2023	<0.005	0.00201 (J)	<0.005				
1/25/2023				<0.005	0.003 (J)	0.00486 (J)	
1/26/2023							0.00388 (J)
8/31/2023		<0.005			<0.005		<0.005
9/6/2023	<0.005		<0.005	<0.005		<0.005	
Mean	0.004222	0.004289	0.004286	0.004324	0.004189	0.003037	0.004776
Std. Dev.	0.001642	0.001515	0.001694	0.001607	0.001691	0.00148	0.0005009
Upper Lim.	0.005	0.005	0.005	0.005	0.005	0.003082	0.005
Lower Lim.	0.0033	0.00262	0.0006	0.001	0.003	0.001775	0.00388

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 10/16/2023 6:10 PM View: Appendix IV - Confidence Intervals - E
Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-17S	BRGWC-33S	BRGWC-34S	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S
9/7/2016	0.0377	0.0214		0.101	0.0674		0.044
9/8/2016			0.0415				
11/17/2016	0.0405	0.0211	0.04	0.0808			
11/18/2016					0.0546		
11/21/2016							0.0428 (J)
2/22/2017	0.0392	0.0243	0.0415	0.0701			
2/23/2017					0.0489	0.0229	0.0338
4/17/2017						0.0227	
5/15/2017						0.0227	
6/14/2017		0.0218	0.0341				
6/15/2017	0.0364			0.0518	0.0415	0.0218	0.0239
9/27/2017		0.0219	0.0347				
9/28/2017	0.0408			0.047	0.0397	0.0222	0.0247
2/15/2018	0.0396	0.0248	0.0346	0.0485	0.038	0.0243	0.0215
6/27/2018	0.041	0.023	0.028	0.046			
6/28/2018					0.035	0.023	0.018
12/18/2018		0.023	0.029				
12/19/2018	0.038			0.04	0.035	0.024	
12/20/2018							0.017
8/27/2019		0.02					
8/28/2019	0.044	0.02	0.026	0.039	0.034	0.027	
8/29/2019							0.016
10/16/2019		0.019	0.022	0.037		0.024	0.015
12/3/2019	0.043				0.031		
3/3/2020	0.036						
3/5/2020		0.022	0.025	0.039	0.033	0.025	0.016
8/19/2020	0.047	0.02	0.024	0.04	0.037	0.026	0.016
9/16/2020	0.044	0.019	0.023	0.033	0.03	0.024	
9/17/2020							0.014
3/3/2021		0.02	0.024		0.031	0.024	
3/4/2021	0.039			0.034			0.015
9/22/2021	0.043	0.019	0.021		0.028		
9/23/2021				0.036		0.027	0.014
2/1/2022	0.045	0.023	0.024	0.033	0.029		0.015
2/2/2022						0.025	
8/23/2022		0.0409				0.026	0.0141
8/24/2022	0.0512		0.0249	0.0339	0.0296		
1/24/2023	0.0422	0.0368	0.0232	0.0291			
1/25/2023					0.0278	0.0247	0.018
8/31/2023		0.0357	0.0268			0.0266	
9/6/2023	0.0445			0.0286	0.0243		0.0134
Mean	0.04169	0.02384	0.02881	0.04567	0.03657	0.02436	0.02064
Std. Dev.	0.003817	0.006312	0.006782	0.01889	0.01054	0.001607	0.009453
Upper Lim.	0.04392	0.0243	0.0347	0.0518	0.04103	0.0253	0.0247
Lower Lim.	0.03945	0.02	0.0232	0.0339	0.03052	0.02342	0.0141

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 10/16/2023 6:10 PM View: Appendix IV - Confidence Intervals - E
Plant Branch Client: Southern Company Data: Plant Branch AP

	PZ-13S
1/15/2019	0.14
10/22/2019	0.077
8/23/2022	0.0562
1/26/2023	0.0525
8/31/2023	0.0683
Mean	0.0788
Std. Dev.	0.03557
Upper Lim.	0.1394
Lower Lim.	0.03177

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 10/16/2023 6:10 PM View: Appendix IV - Confidence Intervals - E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-33S	BRGWC-34S	BRGWC-35S	BRGWC-36S	BRGWC-38S	PZ-13S
9/7/2016	0.0019 (J)		9E-05 (J)	<0.0005	0.0079	
9/8/2016		0.0001 (J)				
9/23/2016					0.0096 (R)	
11/17/2016	0.002 (J)	0.0001 (J)	0.0001 (J)			
11/18/2016				0.0001 (J)		
11/21/2016					0.0092	
2/22/2017	0.0022 (J)	0.0002 (J)	0.0001 (J)			
2/23/2017				0.0001 (J)	0.01	
6/14/2017	0.0019 (J)	<0.0005				
6/15/2017			0.0001 (J)	9E-05 (J)	0.0104	
9/27/2017	0.0017 (J)	0.0001 (J)				
9/28/2017			0.0001 (J)	0.0001 (J)	0.0098	
2/15/2018	<0.003	<0.0005	<0.0005	<0.0005	0.011 (J)	
6/27/2018	0.002 (J)	0.00013 (J)	0.00015 (J)			
6/28/2018				8.1E-05 (J)	0.0085	
12/18/2018	0.0021 (J)	0.00012 (J)				
12/19/2018			<0.0005 (X)	<0.0005 (X)		
12/20/2018					0.0092	
1/15/2019						0.0005 (J)
8/27/2019	0.0019 (J)					
8/28/2019	0.0019 (J)	0.00014 (J)	0.00016 (J)	0.00011 (J)		
8/29/2019					0.0088	
10/16/2019	0.0018 (J)	0.00014 (J)	0.00015 (J)		0.0079	
10/17/2019				<0.0005		
10/22/2019						0.0004 (J)
12/3/2019				9.7E-05 (J)		
3/5/2020	0.0018 (J)	0.00015 (J)	0.00015 (J)	9.2E-05 (J)	0.0082	
8/19/2020	0.0014 (J)	0.00015 (J)	0.00015 (J)	0.00011 (J)	0.0079	
9/16/2020	0.0015 (J)	0.00014 (J)	0.00014 (J)	8E-05 (J)		
9/17/2020					0.0073	
3/3/2021	0.0013	0.00015 (J)		7.9E-05 (J)		
3/4/2021			0.00012 (J)		0.0077	
9/22/2021	0.0012	0.00015 (J)		8.4E-05 (J)		
9/23/2021			0.00016 (J)		0.0071	
2/1/2022	0.0013	0.00015 (J)	0.00015 (J)	8.7E-05 (J)	0.0072	
8/23/2022	0.00241				0.00854	0.000331 (J)
8/24/2022		<0.0005	0.00021 (J)	<0.0005		
1/24/2023	0.00235	<0.0005	<0.0005			
1/25/2023				<0.0005	0.0078	
1/26/2023						0.000422 (J)
8/31/2023	0.0019	<0.0005				0.000259 (J)
9/6/2023			0.0002 (J)	<0.0005		
9/7/2023					0.0068	
Mean	0.001803	0.0002326	0.0001963	0.0002355	0.008542	0.0003824
Std. Dev.	0.0003452	0.0001657	0.000139	0.0001993	0.001177	9.162E-05
Upper Lim.	0.001999	0.0005	0.00021	0.0005	0.00921	0.0005359
Lower Lim.	0.001607	0.00012	0.0001	8.7E-05	0.007874	0.0002289

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 10/16/2023 6:10 PM View: Appendix IV - Confidence Intervals - E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-33S	BRGWC-34S	BRGWC-36S	BRGWC-38S	PZ-13S
9/7/2016	0.0005 (J)		8E-05 (J)	0.0004 (J)	
9/8/2016		<0.001			
11/17/2016	0.0005 (J)	0.0009 (J)			
11/18/2016			<0.001		
11/21/2016				0.0005 (J)	
2/22/2017	0.0006 (J)	0.0005 (J)			
2/23/2017			0.0001 (J)	0.0007 (J)	
6/14/2017	0.0004 (J)	0.0004 (J)			
6/15/2017			<0.001	0.0006 (J)	
9/27/2017	0.0004 (J)	0.0007 (J)			
9/28/2017			<0.001	0.0007 (J)	
2/15/2018	<0.001	<0.001	<0.001	0.00069 (J)	
6/27/2018	0.00038 (J)	0.00017 (J)			
6/28/2018			<0.001	0.00056 (J)	
12/18/2018	0.00046 (J)	0.00023 (J)			
12/19/2018			<0.001 (X)		
12/20/2018				<0.001 (X)	
1/15/2019					0.00011 (J)
8/27/2019	0.00032 (J)				
8/28/2019	0.00032 (J)	0.00025 (J)	<0.001		
8/29/2019				0.00053 (J)	
10/16/2019	0.00039 (J)	0.0004 (J)		0.00057 (J)	
10/17/2019			<0.001		
10/22/2019					<0.001
12/3/2019			<0.001		
3/5/2020	0.00038 (J)	0.00018 (J)	<0.001	0.00059 (J)	
8/19/2020	0.00029 (J)	0.00018 (J)	<0.001	0.00056 (J)	
9/16/2020	0.00032 (J)	0.00017 (J)	<0.001		
9/17/2020				0.0005 (J)	
3/3/2021	0.00022 (J)	0.00015 (J)	<0.001		
3/4/2021				0.00042 (J)	
9/22/2021	0.00019 (J)	0.00033 (J)	<0.001		
9/23/2021				0.00048 (J)	
2/1/2022	0.00023 (J)	0.00012 (J)	<0.001	0.00058	
8/23/2022	0.000509 (J)			0.000459 (J)	<0.001
8/24/2022		0.000517 (J)	<0.001		
1/24/2023	0.000482 (J)	<0.001			
1/25/2023			<0.001	0.00043 (J)	
1/26/2023					<0.001
8/31/2023	0.000533 (J)	<0.001			<0.001
9/6/2023			<0.001	0.00041 (J)	
Mean	0.0003962	0.0004841	0.000909	0.0005357	0.000822
Std. Dev.	0.0001141	0.0003391	0.0002801	9.452E-05	0.000398
Upper Lim.	0.000461	0.0009	0.001	0.0005911	0.001
Lower Lim.	0.0003314	0.00017	0.0001	0.0004804	0.00011

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 10/16/2023 6:10 PM View: Appendix IV - Confidence Intervals - E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-17S	BRGWC-33S	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-13S
9/7/2016	0.01 (J)	<0.01	0.0019 (J)	0.0073 (J)		0.0014 (J)	
11/17/2016	0.0185	<0.01	0.0024 (J)				
11/18/2016				0.008 (J)			
11/21/2016						0.003 (J)	
2/22/2017	0.0122	<0.01	0.004 (J)				
2/23/2017				0.0086 (J)	0.001 (J)	0.0028 (J)	
4/17/2017					0.0018 (J)		
5/15/2017					0.0014 (J)		
6/14/2017		<0.01					
6/15/2017	0.0117		0.0033 (J)	0.0082 (J)	0.0013 (J)	0.0038 (J)	
9/27/2017		<0.01					
9/28/2017	0.0114		0.0052 (J)	0.0083 (J)	0.0014 (J)	0.0037 (J)	
2/15/2018	0.011	<0.01	<0.01	0.0086 (J)	<0.01	0.0044 (J)	
6/27/2018	0.0098 (J)	<0.01	0.0062 (J)				
6/28/2018				0.0076 (J)	<0.01	0.0041 (J)	
12/18/2018		<0.01					
12/19/2018	0.0095 (J)		0.0073 (J)	0.0085 (J)	<0.01		
12/20/2018						0.0041 (J)	
1/15/2019							0.025
8/27/2019		<0.01					
8/28/2019	0.013	<0.01	0.0071 (J)	0.0078 (J)	0.0017 (J)		
8/29/2019						0.0044 (J)	
10/16/2019		0.00049 (J)	0.0064 (J)		0.0014 (J)	0.0038 (J)	
10/22/2019							0.02
12/3/2019	0.011			0.007 (J)			
3/3/2020	0.0081 (J)						
3/5/2020		<0.01	0.0076 (J)	0.0087 (J)	0.0016 (J)	0.0038 (J)	
8/19/2020	0.012	<0.01	0.0073 (J)	0.0094 (J)	0.0017 (J)	0.0043 (J)	
9/16/2020	0.012	<0.01	0.0058 (J)	0.0064 (J)	0.0018 (J)		
9/17/2020						0.0042 (J)	
3/3/2021		<0.01		0.0067	0.0014 (J)		
3/4/2021	0.01		0.0053			0.004 (J)	
9/22/2021	0.0091	<0.01		0.0065			
9/23/2021			0.0065		0.0016 (J)	0.004 (J)	
2/1/2022	0.013	<0.01	0.0056	0.0068		0.0035 (J)	
2/2/2022					0.0015 (J)		
8/23/2022		<0.01			<0.01	0.00398 (J)	0.0128
8/24/2022	0.0127		0.00752 (J)	0.00713 (J)			
1/24/2023	0.00886 (J)	<0.01	0.00524 (J)				
1/25/2023				0.00682 (J)	<0.01	0.00362 (J)	
1/26/2023							0.0153
8/31/2023		<0.01			<0.01		0.0111
9/6/2023	0.0115		0.00592 (J)	0.00649 (J)		0.00338 (J)	
Mean	0.01133	0.009524	0.005557	0.007623	0.004189	0.003699	0.01684
Std. Dev.	0.002256	0.002127	0.001669	0.0009102	0.00406	0.0007046	0.005662
Upper Lim.	0.01253	0.01	0.006534	0.008156	0.01	0.00408	0.02633
Lower Lim.	0.01002	0.00049	0.004579	0.00709	0.0014	0.003489	0.007353

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 10/16/2023 6:10 PM View: Appendix IV - Confidence Intervals - E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-33S	BRGWC-34S	BRGWC-35S	BRGWC-38S	PZ-13S
9/7/2016	0.0612		0.0023 (J)	0.236	
9/8/2016		0.0029 (J)			
11/17/2016	0.0551	0.0028 (J)	0.0012 (J)		
11/21/2016				0.298	
2/22/2017	0.0567	0.0041 (J)	0.0008 (J)		
2/23/2017				0.277	
6/14/2017	0.0557	0.0036 (J)			
6/15/2017			0.0004 (J)	0.262	
9/27/2017	0.049	0.0028 (J)			
9/28/2017			0.0003 (J)	0.279	
2/15/2018	0.0536	<0.01	<0.001	0.279	
6/27/2018	0.054	0.0041 (J)	<0.001		
6/28/2018				0.23	
12/18/2018	0.049	0.0032 (J)			
12/19/2018			<0.001		
12/20/2018				0.25	
1/15/2019					<0.001
8/27/2019	0.045				
8/28/2019	0.045	0.0037 (J)	<0.001		
8/29/2019				0.21	
10/16/2019	0.042	0.0043 (J)	<0.001	0.21	
10/22/2019					0.00037 (J)
3/5/2020	0.037	0.0031 (J)	<0.001	0.22	
8/19/2020	0.036	0.0041 (J)	<0.001	0.22	
9/16/2020	0.034	0.0042 (J)	<0.001		
9/17/2020				0.2	
3/3/2021	0.028	0.0046 (J)			
3/4/2021			<0.001	0.2	
9/22/2021	0.024	0.0075			
9/23/2021			<0.001	0.17	
2/1/2022	0.027	0.0044 (J)	<0.001	0.18	
8/23/2022	0.0639			0.173	<0.001
8/24/2022		0.00438	<0.001		
1/24/2023	0.0582	0.00351	<0.001		
1/25/2023				0.158	
1/26/2023					<0.001
8/31/2023	0.0659	0.00384			<0.001
9/6/2023			<0.001	0.139	
Mean	0.04702	0.004007	0.001	0.2206	0.000874
Std. Dev.	0.01261	0.001057	0.0003815	0.04535	0.0002817
Upper Lim.	0.05417	0.00447	0.0012	0.2471	0.001
Lower Lim.	0.03986	0.003398	0.0008	0.194	0.00037

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/16/2023 6:10 PM View: Appendix IV - Confidence Intervals - E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-17S	BRGWC-33S	BRGWC-34S	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S
9/7/2016	1.18	0.541 (U)		0.189 (U)	0.638 (U)		0.816 (U)
9/8/2016			0.998 (U)				
11/17/2016	0.145 (U)	1.02 (U)	0.613	0.729 (U)			
11/18/2016					1.22 (U)		
11/21/2016							2.94
2/22/2017	0.0213 (U)	0.482 (U)	1.01 (U)	0.293 (U)			
2/23/2017					0.554 (U)	0.567 (U)	1.92
4/17/2017						0.335 (U)	
5/15/2017						0.261 (U)	
6/14/2017		0.723 (U)	0.801 (U)				
6/15/2017	0.41 (U)			1.09	0.77 (U)	0.188 (U)	3.6
9/27/2017		1.5	1.44				
9/28/2017	0.496 (U)			1.02 (U)	1.07 (U)	0.627 (U)	3.3
2/15/2018	0.672 (U)	1.14 (U)	0.668 (U)	0.742 (U)	0.751 (U)	0.869 (U)	2.31 (J+X)
6/27/2018	0.692 (U)	1.3 (U)	1.06 (U)	0.739 (U)			
6/28/2018					0.392 (U)	0.336 (U)	1.75 (UX)
12/18/2018		1.64 (UX)	1.22				
12/19/2018	0.325 (U)			0.465 (U)	0.693 (U)	0.454 (U)	
12/20/2018							2.8 (J+X)
8/27/2019		1.38					
8/28/2019	0.24 (U)		0.811 (U)	0.995 (U)	0.866 (U)	0.809 (U)	
8/29/2019							3.68
10/16/2019		1.16 (U)	0.561 (U)	1.69		0.815 (U)	2.66
12/18/2019	1.16 (U)				1.91		
3/3/2020	0.756 (U)						
3/5/2020		0.683 (U)	0.792 (U)	0.858 (U)	1.3	0.791 (U)	2.21
8/19/2020	0.985 (U)	1.14 (U)	1.21 (U)	0.162 (U)	1.4	0.582 (U)	3.17
9/16/2020	0.478 (U)	0.195 (U)	0.72 (U)	1.25 (U)	1.17 (U)	0.844 (U)	
9/17/2020							2.92
3/3/2021		0.708 (U)	1.12		0.307 (U)	1.12	
3/4/2021	0.38 (U)			0.461 (U)			1.99
9/22/2021	0.734 (U)	0.382 (U)	0.91 (U)		0.808 (U)		
9/23/2021				0.394 (U)		0.078 (U)	1.4
2/1/2022	0.503 (U)	0.583 (U)	0.535 (U)	0.672 (U)	1.61 (U)		7.64
2/2/2022						0.654 (U)	
8/23/2022		1.94				2.37	3.12
8/24/2022	0.152		1.86	3.1	1.38		
1/24/2023	0.728 (U)	3.31 (U)	2.14 (U)	3.34			
1/25/2023					4.86	1.67 (U)	3.79
9/20/2023	1.92 (U)			3.33	3.87		5.98
9/22/2023		0.521 (U)	1.06 (U)			0.578 (U)	
Mean	0.6304	1.071	1.028	1.133	1.346	0.7341	3.052
Std. Dev.	0.4511	0.7172	0.4221	1.018	1.154	0.5369	1.568
Upper Lim.	0.8945	1.379	1.232	1.448	1.572	0.9584	3.781
Lower Lim.	0.3662	0.6385	0.7771	0.5121	0.7046	0.4076	2.111

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/16/2023 6:10 PM View: Appendix IV - Confidence Intervals - E

Plant Branch Client: Southern Company Data: Plant Branch AP

	PZ-13S
1/15/2019	<0.983
10/22/2019	0.631 (U)
8/23/2022	1.83
1/26/2023	4.77
9/22/2023	0.823 (U)
Mean	1.807
Std. Dev.	1.718
Upper Lim.	4.383
Lower Lim.	0.1171

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 10/16/2023 6:10 PM View: Appendix IV - Confidence Intervals - E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-17S	BRGWC-33S	BRGWC-34S	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S
9/7/2016	0.22 (J)	0.19 (J)		0.34	0.18 (J)		0.66
9/8/2016			0.17 (J)				
11/17/2016	0.12 (J)	0.12 (J)	0.06 (J)	0.14 (J)			
11/18/2016					0.03 (J)		
11/21/2016							0.9 (D)
2/22/2017	0.11 (J)	0.21 (J)	0.17 (J)	0.09 (J)			
2/23/2017					0.07 (J)	0.1 (J)	0.75
4/17/2017						0.08 (J)	
5/15/2017						0.02 (J)	
6/14/2017		0.18 (J)	0.1 (J)				
6/15/2017	0.05 (J)			0.03 (J)	0.01 (J)	0.03 (J)	0.77
9/27/2017		0.42	0.4				
9/28/2017	0.05 (J)			<0.1	<0.1	<0.1	0.8
2/15/2018	<0.3	0.42	<0.3	<0.1	<0.1	<0.1	0.82
6/27/2018	0.093 (J)	0.32	0.21 (J)	0.22 (J)			
6/28/2018					0.51 (J+X)	<0.1	1.5 (J+X)
12/18/2018		0.28 (J)	0.12 (J)				
12/19/2018	0.16 (J)			0.11 (J)	<0.1	0.094 (J)	
12/20/2018							0.68
3/19/2019	0.1 (J)				<0.1		
3/20/2019		0.14 (J)	0.074 (J)	0.088 (J)		0.062 (J)	0.95
8/27/2019		0.11 (J)					
8/28/2019	0.085 (J)	0.11 (J)	0.057 (J)	0.056 (J)	<0.1	<0.1	
8/29/2019							0.9
10/16/2019		0.17 (J)	0.13 (J)	0.08 (J)		0.059 (J)	0.61
12/3/2019	0.2 (J)				0.15 (J)		
3/3/2020	0.093 (J)						
3/5/2020		0.088 (J)	0.072 (J)	0.067 (J)	<0.1	0.05 (J)	0.92
8/19/2020	0.1	0.11	0.074 (J)	0.06 (J)	0.051 (J)	0.055 (J)	0.95
9/16/2020	0.1	0.085 (J)	0.077 (J)	0.062 (J)	<0.1	<0.1	
9/17/2020							0.68
3/3/2021		0.069 (J)	0.071 (J)		<0.1	<0.1	
3/4/2021	0.096 (J)			0.076 (J)			0.83
9/22/2021	0.1	0.068 (J)	0.1		0.054 (J)		
9/23/2021				0.073 (J)		<0.1	0.85
2/1/2022	0.079 (J)	0.053 (J)	0.06 (J)	0.055 (J)	<0.1		0.95
2/2/2022						<0.1	
8/23/2022		0.187				0.105	0.609
8/24/2022	0.274		0.14	<0.1	0.194		
1/24/2023	0.216	0.193	0.122	0.239			
1/25/2023					0.183	0.114	0.708
8/23/2023		0.123				0.0445 (J)	
8/24/2023	0.484		0.0816 (J)	0.347			0.748
8/25/2023					0.301		
Mean	0.144	0.1736	0.1219	0.1217	0.1317	0.08068	0.8293
Std. Dev.	0.0998	0.1065	0.07849	0.09165	0.1104	0.0283	0.1939
Upper Lim.	0.177	0.2171	0.1485	0.1511	0.1575	0.1	0.9199
Lower Lim.	0.09001	0.1117	0.08037	0.07005	0.0486	0.055	0.7223

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 10/16/2023 6:10 PM View: Appendix IV - Confidence Intervals - E
Plant Branch Client: Southern Company Data: Plant Branch AP

	PZ-13S
1/15/2019	0.06 (J)
10/22/2019	<0.1
8/23/2022	0.128
1/26/2023	<0.1
8/23/2023	<0.1
Mean	0.0976
Std. Dev.	0.02427
Upper Lim.	0.128
Lower Lim.	0.06

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 10/16/2023 6:10 PM View: Appendix IV - Confidence Intervals - E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-17S	BRGWC-33S	BRGWC-34S	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S
9/7/2016	<0.002	0.0002 (J)		0.0001 (J)	<0.002		0.0004 (J)
9/8/2016			<0.002				
11/17/2016	0.0001 (J)	0.0002 (J)	0.0001 (J)	0.0002 (J)			
11/18/2016					<0.002		
11/21/2016							0.0005 (J)
2/22/2017	<0.002	0.0001 (J)	0.0003 (J)	0.0001 (J)			
2/23/2017					<0.002	<0.002	0.0005 (J)
4/17/2017						0.0001 (J)	
5/15/2017						<0.002	
6/14/2017		9E-05 (J)	<0.002				
6/15/2017	<0.002			<0.002	<0.002	<0.002	0.0004 (J)
9/27/2017		7E-05 (J)	9E-05 (J)				
9/28/2017	<0.002			<0.002	<0.002	0.0001 (J)	0.0004 (J)
2/15/2018	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.00047 (J)
6/27/2018	<0.002	<0.002	<0.002	<0.002			
6/28/2018					<0.002	<0.002	0.00036 (J)
12/18/2018		<0.002	<0.002				
12/19/2018	<0.002			<0.002	<0.002	<0.002	
12/20/2018							0.00039 (J)
8/27/2019		0.00013 (J)					
8/28/2019	<0.002	0.00013 (J)	<0.002	<0.002	<0.002	<0.002	
8/29/2019							0.00035 (J)
10/16/2019		8.8E-05 (J)	<0.002	<0.002		<0.002	0.00035 (J)
12/3/2019	<0.002				<0.002		
3/3/2020	<0.002						
3/5/2020		8.7E-05 (J)	<0.002	<0.002	<0.002	<0.002	0.00041 (J)
8/19/2020	<0.002	6E-05 (J)	<0.002	<0.002	4.7E-05 (J)	<0.002	0.00031 (J)
9/16/2020	5.4E-05 (J)	6.3E-05 (J)	<0.002	0.00012 (J)	<0.002	<0.002	
9/17/2020							0.00032 (J)
3/3/2021		5.8E-05 (J)	<0.002		<0.002	<0.002	
3/4/2021	<0.002			<0.002			0.00034 (J)
9/22/2021	<0.002	<0.002	<0.002		<0.002		
9/23/2021				<0.002		<0.002	<0.002
2/1/2022	<0.002	<0.002	<0.002	<0.002	<0.002		<0.002
2/2/2022						<0.002	
8/23/2022		<0.002				<0.002	<0.002
8/24/2022	<0.002		<0.002	<0.002	<0.002		
1/24/2023	<0.002	<0.002	<0.002	<0.002			
1/25/2023					<0.002	<0.002	<0.002
8/31/2023		<0.002	<0.002			<0.002	
9/6/2023	<0.002			<0.002	<0.002		<0.002
Mean	0.001798	0.0008638	0.00171	0.001606	0.001897	0.0018	0.0008158
Std. Dev.	0.0006064	0.0009526	0.0006892	0.0007835	0.000448	0.0005991	0.000729
Upper Lim.	0.002	0.002	0.002	0.002	0.002	0.002	0.002
Lower Lim.	0.0001	8.7E-05	0.0003	0.0002	4.7E-05	0.0001	0.00035

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 10/16/2023 6:10 PM View: Appendix IV - Confidence Intervals - E

Plant Branch Client: Southern Company Data: Plant Branch AP

	PZ-13S
1/15/2019	<0.002
10/22/2019	0.00035 (J)
8/23/2022	<0.002
1/26/2023	<0.002
8/31/2023	<0.002
Mean	0.00167
Std. Dev.	0.0007379
Upper Lim.	0.002
Lower Lim.	0.00035

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 10/16/2023 6:10 PM View: Appendix IV - Confidence Intervals - E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-17S	BRGWC-33S	BRGWC-34S	BRGWC-35S	BRGWC-36S	BRGWC-38S	PZ-13S
9/7/2016	<0.01	0.0092 (J)		0.0021 (J)	0.0024 (J)	0.0193 (J)	
9/8/2016			<0.01				
11/17/2016	<0.01	0.0097 (J)	<0.01	0.0022 (J)			
11/18/2016					0.0026 (J)		
11/21/2016						0.0223 (J)	
2/22/2017	<0.01	0.0106 (J)	<0.01	0.0023 (J)			
2/23/2017					0.0026 (J)	0.0229 (J)	
6/14/2017		0.0097 (J)	<0.01				
6/15/2017	<0.01			0.0023 (J)	0.0026 (J)	0.0227 (J)	
9/27/2017		0.0099 (J)	<0.01				
9/28/2017	<0.01			0.0021 (J)	0.0025 (J)	0.023 (J)	
2/15/2018	<0.01	0.0106 (J)	<0.01	0.0021 (J)	<0.01	0.0254 (J)	
6/27/2018	<0.01	0.01 (J)	<0.01	0.0021 (J)			
6/28/2018					0.0022 (J)	0.021 (J)	
12/18/2018		0.011 (J)	<0.01				
12/19/2018	<0.01			0.0021 (J)	0.0026 (J)		
12/20/2018						0.022 (J)	
1/15/2019							0.0017 (J)
8/27/2019		0.01 (J)					
8/28/2019	0.00097 (J)	0.01 (J)	0.0009 (J)	0.0021 (J)	0.0025 (J)		
8/29/2019						0.021 (J)	
10/16/2019		0.0098 (J)	0.00078 (J)	0.0022 (J)		0.02 (J)	
10/22/2019							0.001 (J)
12/3/2019	0.001 (J)				0.0024 (J)		
3/3/2020	<0.01						
3/5/2020		0.011 (J)	0.00089 (J)	0.0021 (J)	0.0025 (J)	0.021 (J)	
8/19/2020	0.001 (J)	0.009 (J)	0.00082 (J)	0.0021 (J)	0.0024 (J)	0.021 (J)	
9/16/2020	0.00096 (J)	0.0089 (J)	<0.01	0.002 (J)	0.0022 (J)		
9/17/2020						0.02 (J)	
3/3/2021		0.0085 (J)	0.00096 (J)		0.0024 (J)		
3/4/2021	0.00086 (J)			0.0021 (J)		0.021 (J)	
9/22/2021	0.0011 (J)	0.008 (J)	<0.01		0.0026 (J)		
9/23/2021				0.0022 (J)		0.019 (J)	
2/1/2022	0.00096 (J)	0.0083 (J)	0.00085 (J)	0.0021 (J)	0.0023 (J)	0.02 (J)	
8/23/2022		0.0109				0.0214	<0.01
8/24/2022	<0.01		<0.01	<0.01	<0.01		
1/24/2023	<0.01	0.0115	<0.01	<0.01			
1/25/2023					<0.01	0.0256	
1/26/2023							<0.01
8/31/2023		0.00967 (J)	<0.01				<0.01
9/6/2023	<0.01			<0.01	<0.01		
9/7/2023						0.0195	
Mean	0.006676	0.009814	0.007116	0.003379	0.004042	0.02148	0.00654
Std. Dev.	0.004471	0.0009573	0.004362	0.002946	0.003163	0.001851	0.004744
Upper Lim.	0.01	0.01036	0.01	0.0023	0.01	0.02256	0.01
Lower Lim.	0.00097	0.00927	0.00089	0.0021	0.0024	0.0204	0.001

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 10/16/2023 6:10 PM View: Appendix IV - Confidence Intervals - E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-17S	BRGWC-33S	BRGWC-34S	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S
9/7/2016	<0.0002	<0.0002		<0.0002	<0.0002		7E-05 (J)
9/8/2016			<0.0002				
11/17/2016	<0.0002	<0.0002	<0.0002	<0.0002			
11/18/2016					<0.0002		
11/21/2016							0.00012 (J)
2/22/2017	<0.0002	<0.0002	<0.0002	<0.0002			
2/23/2017					<0.0002	<0.0002	7E-05 (J)
4/17/2017						<0.0002	
5/15/2017						<0.0002	
6/14/2017		7E-05 (J)	7E-05 (J)				
6/15/2017	6E-05 (J)			7E-05 (J)	7E-05 (J)	6E-05 (J)	0.00016 (J)
9/27/2017		4E-05 (J)	4E-05 (J)				
9/28/2017	<0.0002			<0.0002	<0.0002	<0.0002	0.00011 (J)
2/15/2018	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.00015 (J)
6/27/2018	<0.0002	<0.0002	<0.0002	<0.0002			
6/28/2018					<0.0002	<0.0002	<0.0002 (X)
12/18/2018		<0.0002	<0.0002				
12/19/2018	<0.0002			<0.0002	<0.0002	<0.0002	
12/20/2018							0.00017 (J)
8/27/2019		<0.0002					
8/28/2019	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
8/29/2019							0.00018 (J)
8/19/2020	8.4E-05 (J)	<0.0002	0.00012 (J)	0.00013 (J)	0.00013 (J)	0.00014 (J)	0.00018 (J)
9/16/2020	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
9/17/2020							0.00011 (J)
3/3/2021		<0.0002	<0.0002		<0.0002	<0.0002	
3/4/2021	<0.0002			<0.0002			8.5E-05 (J)
9/22/2021	0.0001 (J)	0.00012 (J)	0.00015 (J)		0.0001 (J)		
9/23/2021				0.00011 (J)		0.00011 (J)	0.00022
2/1/2022	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002
2/2/2022						<0.0002	
8/23/2022		<0.0002				<0.0002	0.000117 (J)
8/24/2022	<0.0002		<0.0002	<0.0002	<0.0002		
1/24/2023	<0.0002	<0.0002	<0.0002	<0.0002			
1/25/2023					<0.0002	<0.0002	<0.0002
8/25/2023		<0.0002	<0.0002			<0.0002	
8/28/2023	<0.0002			<0.0002	<0.0002		<0.0002
Mean	0.0001791	0.0001794	0.0001753	0.0001829	0.0001824	0.0001829	0.0001495
Std. Dev.	4.717E-05	4.929E-05	5.064E-05	3.949E-05	4.07E-05	4.058E-05	4.963E-05
Upper Lim.	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0001524
Lower Lim.	0.0001	0.00012	0.00015	0.00013	0.00013	0.00014	9.621E-05

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 10/16/2023 6:10 PM View: Appendix IV - Confidence Intervals - E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-17S	BRGWC-33S	BRGWC-36S	BRGWC-38S	PZ-13S
9/7/2016	0.0024 (J)	0.0032 (J)	0.0079 (J)	0.0311	
11/17/2016	0.0028 (J)	0.0028 (J)			
11/18/2016			0.0082 (J)		
11/21/2016				0.0409	
2/22/2017	0.0018 (J)	0.0018 (J)			
2/23/2017			0.0061 (J)	0.0354	
6/14/2017		0.004 (J)			
6/15/2017	0.0024 (J)		0.0046 (J)	0.0511	
9/27/2017		0.0036 (J)			
9/28/2017	<0.005		0.0042 (J)	0.0484	
2/15/2018	<0.005	<0.005	0.0045 (J)	0.0435	
6/27/2018	0.002 (J)	0.0017 (J)			
6/28/2018			0.0033 (J)	0.037	
12/18/2018		<0.005			
12/19/2018	0.0014 (J)		0.0042 (J)		
12/20/2018				0.037	
1/15/2019					0.0033 (J)
8/27/2019		<0.005			
8/28/2019	0.003 (J)	<0.005	0.0041 (J)		
8/29/2019				0.036	
10/16/2019		0.0028 (J)		0.033	
10/22/2019					0.0033 (J)
12/3/2019	0.0041 (J)		0.0035 (J)		
3/3/2020	0.0019 (J)				
3/5/2020		<0.005	0.0034 (J)	0.032	
8/19/2020	0.003 (J)	<0.005	0.002 (J)	0.041	
9/16/2020	<0.005	0.0028 (J)	0.0031 (J)		
9/17/2020				0.029	
3/3/2021		<0.005	0.0024 (J)		
3/4/2021	<0.005			0.039	
9/22/2021	0.0015 (J)	<0.005	0.0032 (J)		
9/23/2021				0.031	
2/1/2022	0.0021 (J)	<0.005	0.0025 (J)	0.029	
8/23/2022		0.0061		0.0296	0.00157 (J)
8/24/2022	0.00208 (J)		0.00246 (J)		
1/24/2023	0.00178 (J)	0.0049 (J)			
1/25/2023			0.00237 (J)	0.0279	
1/26/2023					0.00215 (J)
8/31/2023		0.00572			<0.005
9/6/2023	0.00214 (J)		0.00173 (J)	0.0186	
Mean	0.002863	0.004221	0.003882	0.03529	0.003064
Std. Dev.	0.00129	0.001287	0.001814	0.007711	0.001316
Upper Lim.	0.002466	0.004385	0.00474	0.0398	0.003346
Lower Lim.	0.001797	0.002576	0.002801	0.03077	0.001094

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 10/16/2023 6:10 PM View: Appendix IV - Confidence Intervals - E
Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-17S	BRGWC-33S	BRGWC-38S
9/7/2016	<0.002	0.0002 (J)	<0.002
11/17/2016	<0.002	0.0002 (J)	
11/21/2016			0.0004 (J)
2/22/2017	<0.002	0.0002 (J)	
2/23/2017			0.0003 (J)
6/14/2017		0.0002 (J)	
6/15/2017	<0.002		0.0003 (J)
9/27/2017		0.0002 (J)	
9/28/2017	<0.002		0.0003 (J)
2/15/2018	<0.002	0.00024 (J)	0.00026 (J)
6/27/2018	<0.002	0.00022 (J)	
6/28/2018			0.00018 (J)
12/18/2018		0.00022 (J)	
12/19/2018	<0.002		
12/20/2018			<0.002 (X)
8/27/2019		0.00016 (J)	
8/28/2019	<0.002	0.00016 (J)	
8/29/2019			0.00021 (J)
10/16/2019		0.00019 (J)	0.0002 (J)
12/3/2019	6.6E-05 (J)		
3/3/2020	<0.002		
3/5/2020		0.0002 (J)	0.0002 (J)
8/19/2020	<0.002	0.00018 (J)	0.00019 (J)
9/16/2020	<0.002	0.00018 (J)	
9/17/2020			0.00017 (J)
3/3/2021		0.00018 (J)	
3/4/2021	<0.002		<0.002
9/22/2021	<0.002	<0.002	
9/23/2021			0.00022 (J)
2/1/2022	<0.002	<0.002	<0.002
8/23/2022		<0.002	<0.002
8/24/2022	<0.002		
1/24/2023	<0.002	<0.002	
1/25/2023			<0.002
8/31/2023		<0.002	
9/6/2023	<0.002		<0.002
Mean	0.001898	0.0006465	0.0008911
Std. Dev.	0.0004437	0.000802	0.0008718
Upper Lim.	0.002	0.00024	0.002
Lower Lim.	6.6E-05	0.00018	0.0002

ND substitution: RL or RL/2 if <15% NDs.

FIGURE I.

Appendix IV Trend Tests - Significant Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 10/17/2023, 3:38 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Beryllium (mg/L)	**BRGWC-38S**	**-0.0004092**	**-106**	**-62**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**BRGWA-2S (bg)**	**-0.0003364**	**-119**	**-58**	**Yes**	**19**	**10.53**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**BRGWA-5I (bg)**	**-0.0001008**	**-66**	**-49**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**BRGWC-33S**	**-0.005452**	**-72**	**-62**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**BRGWC-38S**	**-0.02054**	**-133**	**-58**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.05**	**NP**

Appendix IV Trend Tests - All Results

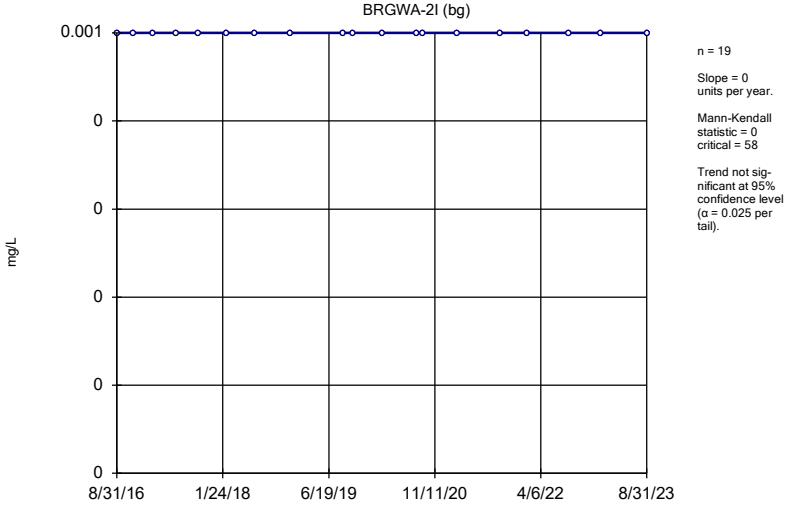
Plant Branch Client: Southern Company Data: Plant Branch AP Printed 10/17/2023, 3:38 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Beryllium (mg/L)	BRGWA-2I (bg)	0	0	58	No	19	100	n/a	n/a	0.05	NP
Beryllium (mg/L)	BRGWA-2S (bg)	0	0	58	No	19	100	n/a	n/a	0.05	NP
Beryllium (mg/L)	BRGWA-5I (bg)	0	0	58	No	19	100	n/a	n/a	0.05	NP
Beryllium (mg/L)	BRGWA-5S (bg)	0	0	58	No	19	100	n/a	n/a	0.05	NP
Beryllium (mg/L)	BRGWA-6S (bg)	0	0	58	No	19	100	n/a	n/a	0.05	NP
Beryllium (mg/L)	**BRGWC-38S**	**-0.0004092**	**-106**	**-62**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	BRGWA-2I (bg)	0	-41	-58	No	19	63.16	n/a	n/a	0.05	NP
Cobalt (mg/L)	**BRGWA-2S (bg)**	**-0.0003364**	**-119**	**-58**	**Yes**	**19**	**10.53**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**BRGWA-5I (bg)**	**-0.0001008**	**-66**	**-49**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	BRGWA-5S (bg)	0	13	58	No	19	68.42	n/a	n/a	0.05	NP
Cobalt (mg/L)	BRGWA-6S (bg)	0	15	58	No	19	73.68	n/a	n/a	0.05	NP
Cobalt (mg/L)	**BRGWC-33S**	**-0.005452**	**-72**	**-62**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**BRGWC-38S**	**-0.02054**	**-133**	**-58**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.05**	**NP**

Sanitas™ v.10.0.13 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-2I (bg)



n = 19

Slope = 0 units per year.

Mann-Kendall statistic = 0 critical = 58

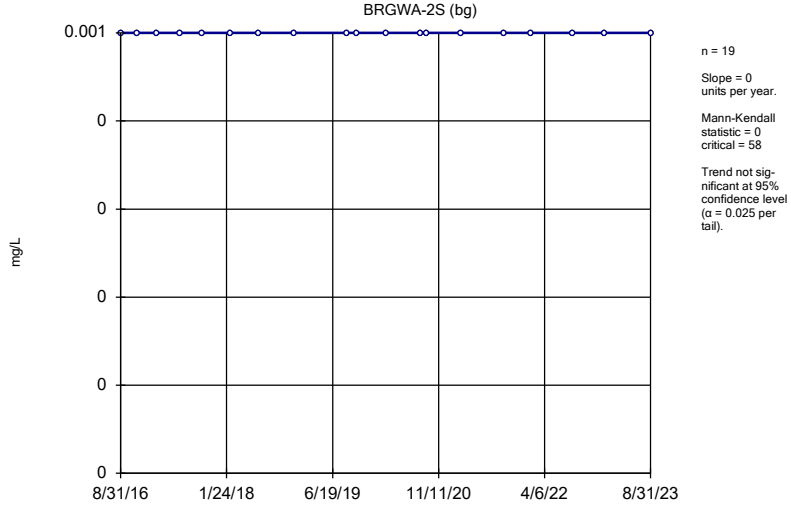
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Beryllium Analysis Run 10/17/2023 3:36 PM View: Appendix IV - CI Trend Test - E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-2S (bg)



n = 19

Slope = 0 units per year.

Mann-Kendall statistic = 0 critical = 58

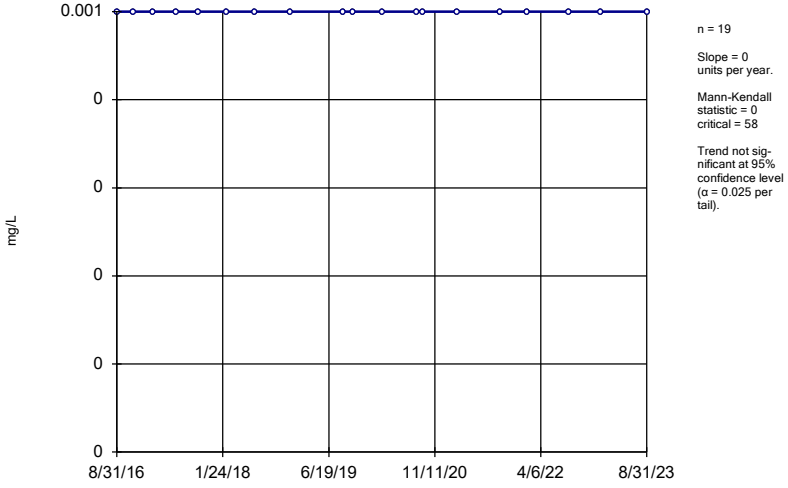
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Beryllium Analysis Run 10/17/2023 3:36 PM View: Appendix IV - CI Trend Test - E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-5I (bg)



n = 19

Slope = 0 units per year.

Mann-Kendall statistic = 0 critical = 58

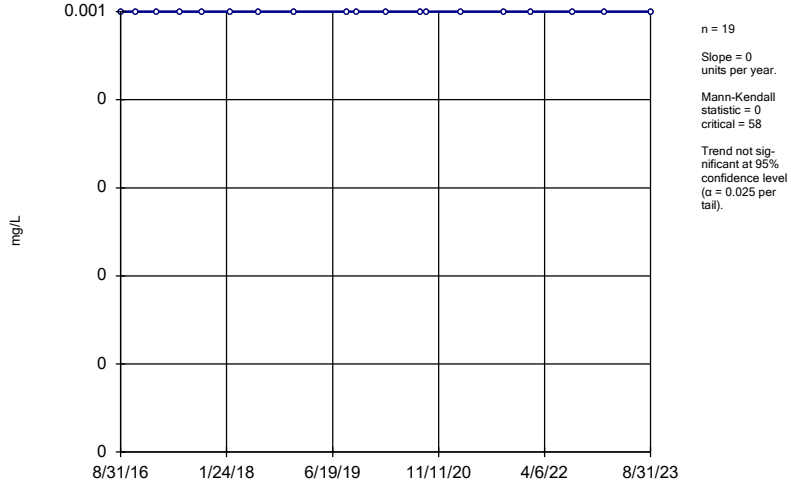
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Beryllium Analysis Run 10/17/2023 3:36 PM View: Appendix IV - CI Trend Test - E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-5S (bg)



n = 19

Slope = 0 units per year.

Mann-Kendall statistic = 0 critical = 58

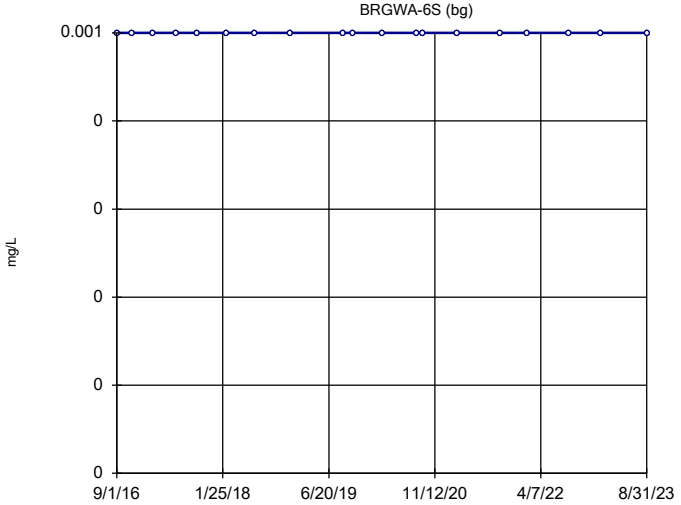
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Beryllium Analysis Run 10/17/2023 3:36 PM View: Appendix IV - CI Trend Test - E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-6S (bg)



n = 19

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 58

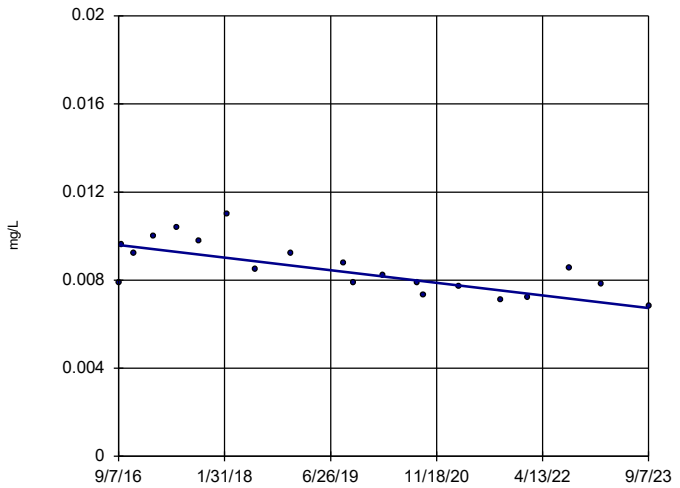
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Beryllium Analysis Run 10/17/2023 3:36 PM View: Appendix IV - CI Trend Test - E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

Sen's Slope Estimator

BRGWC-38S



n = 20

Slope = -0.0004092 units per year.

Mann-Kendall statistic = -106
critical = -62

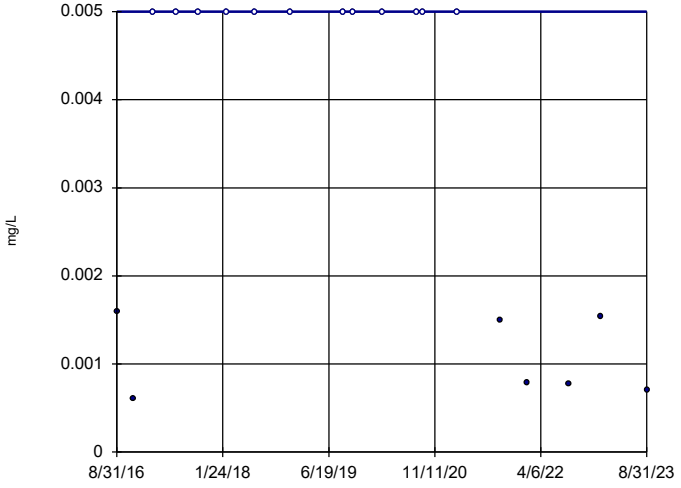
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Beryllium Analysis Run 10/17/2023 3:36 PM View: Appendix IV - CI Trend Test - E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-2I (bg)



n = 19

Slope = 0 units per year.

Mann-Kendall statistic = -41
critical = -58

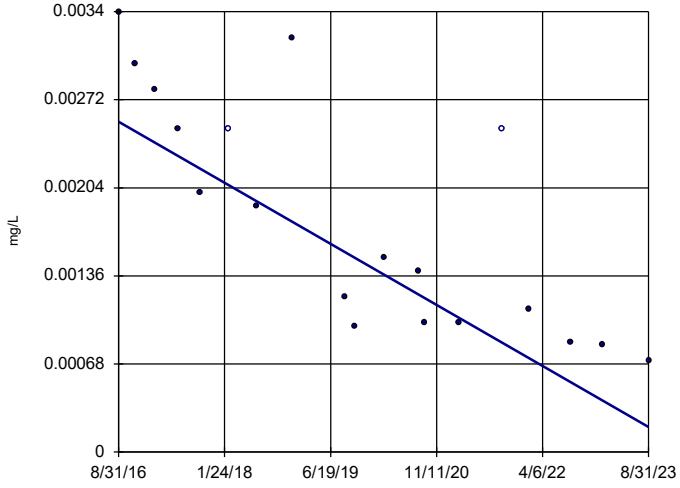
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 10/17/2023 3:36 PM View: Appendix IV - CI Trend Test - E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-2S (bg)



n = 19

Slope = -0.0003364 units per year.

Mann-Kendall statistic = -119
critical = -58

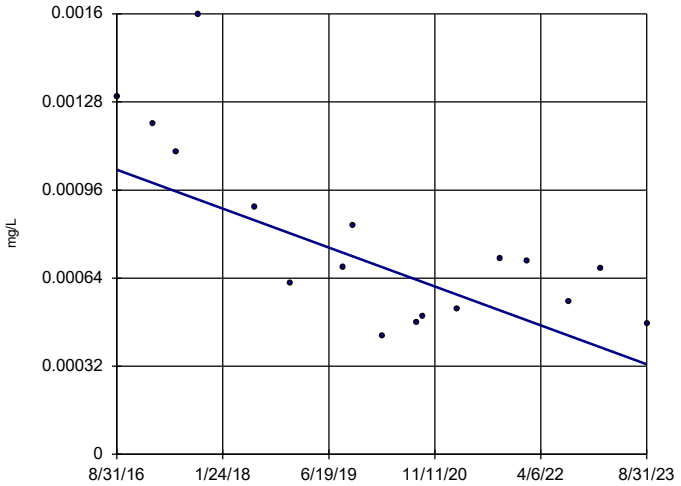
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 10/17/2023 3:36 PM View: Appendix IV - CI Trend Test - E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

Sen's Slope Estimator

BRGWA-5I (bg)



n = 17

Slope = -0.0001008 units per year.

Mann-Kendall statistic = -66 critical = -49

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 10/17/2023 3:36 PM View: Appendix IV - CI Trend Test - E

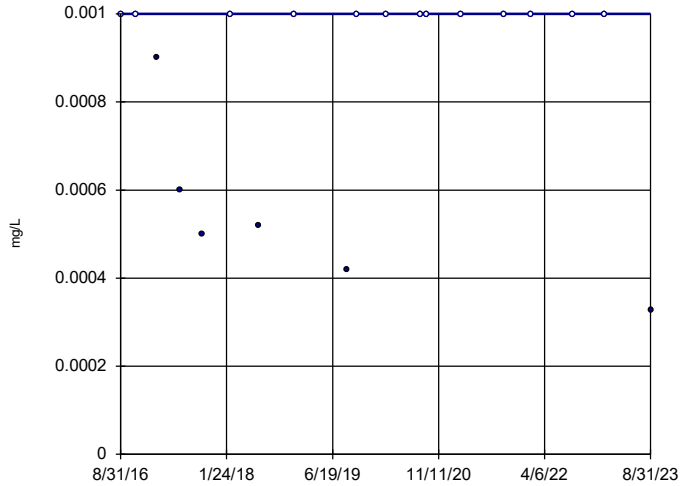
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-5S (bg)



n = 19

Slope = 0 units per year.

Mann-Kendall statistic = 13 critical = 58

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 10/17/2023 3:36 PM View: Appendix IV - CI Trend Test - E

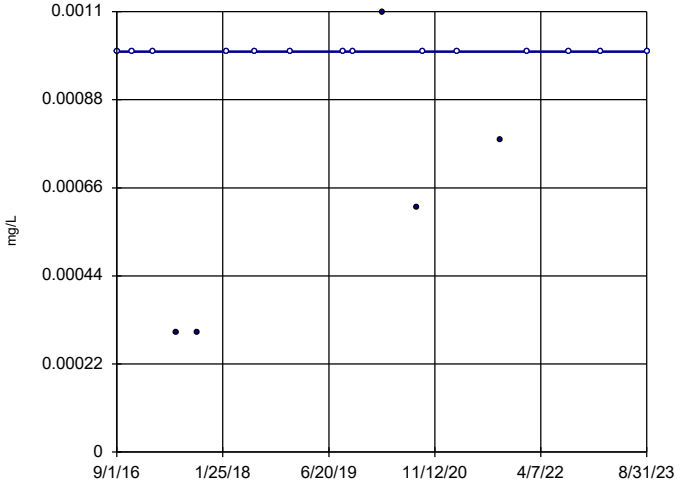
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-6S (bg)



n = 19

Slope = 0 units per year.

Mann-Kendall statistic = 15 critical = 58

Trend not significant at 95% confidence level (α = 0.025 per tail).

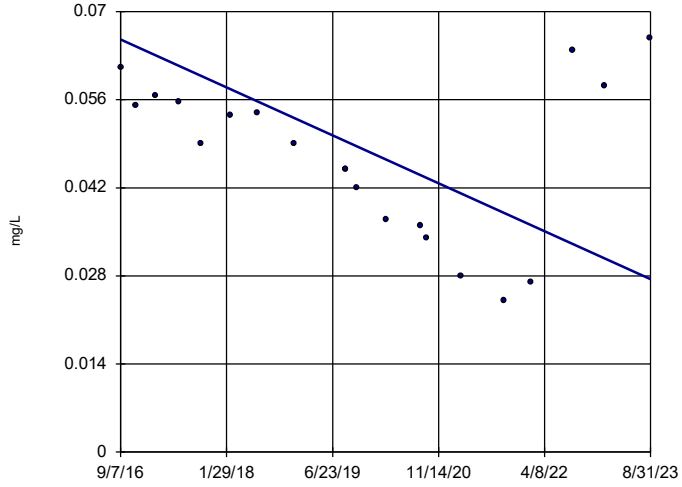
Constituent: Cobalt Analysis Run 10/17/2023 3:36 PM View: Appendix IV - CI Trend Test - E

Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.13 . UG

Sen's Slope Estimator

BRGWC-33S



n = 20

Slope = -0.005452 units per year.

Mann-Kendall statistic = -72 critical = -62

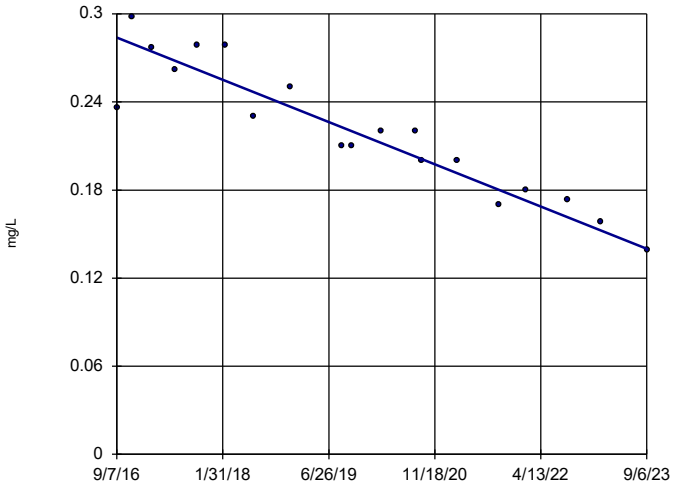
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 10/17/2023 3:36 PM View: Appendix IV - CI Trend Test - E

Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

BRGWC-38S



n = 19

Slope = -0.02054 units per year.

Mann-Kendall statistic = -133
critical = -58

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 10/17/2023 3:36 PM View: Appendix IV - CI Trend Test - E
Plant Branch Client: Southern Company Data: Plant Branch AP

GROUNDWATER STATS CONSULTING

July 31, 2024

Southern Company Services
Attn: Mr. Joju Abraham
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308-3374

Re: Plant Branch Pond E – January/February 2024 Statistical Analysis

Dear Mr. Abraham,

Groundwater Stats Consulting (GSC), formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the January/February 2024 Semi-Annual Groundwater Detection and Assessment Monitoring Statistical Analysis of groundwater data for Georgia Power Company's Plant Branch Pond E. The analysis complies with the Georgia Environmental Protection Division (EPD) Rules for Solid Waste Management Chapter 391-3-4-.10 as well as with the United States Environmental Protection Agency (USEPA) Unified Guidance (2009).

Sampling for the Appendix III parameters began in 2016, and at least 8 background samples were collected at each of the groundwater monitoring wells. Semi-annual sampling of the majority of Appendix IV constituents has been performed for several years in accordance with the Georgia Department of Natural Resources, Environmental Protection Division groundwater monitoring regulations. A list of all parameters is provided below.

The monitoring well network, as provided by Southern Company Services, consists of the following:

- **Upgradient well:** BRGWA-2I, BRGWA-2S, BRGWA-5I, BRGWA-5S, and BRGWA-6S
- **Downgradient wells:** BRGWC-17S, BRGWC-33S, BRGWC-34S, BRGWC-35S, BRGWC-36S, BRGWC-37S, and BRGWC-38S
- **Assessment wells:** PZ-13S, PZ-52D, PZ-53D, and PZ-70I

Data from assessment wells are evaluated using confidence intervals when a minimum of 4 samples are available. Data were sent electronically to GSC, and the statistical analysis was reviewed by Andrew Collins, Project Manager of GSC.

The Coal Combustion Residuals (CCR) monitoring program consists of the following constituents:

- **Appendix III** (Detection Monitoring) **-** boron, calcium, chloride, fluoride, pH, sulfate, and TDS
- **Appendix IV** (Assessment Monitoring) **–** antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, combined radium 226 + 228, fluoride, lead, lithium, mercury, molybdenum, selenium, and thallium

Note that when there are no detections present in downgradient wells for a given constituent, statistical analyses are not required. A summary of Appendix IV downgradient and assessment well/constituent pairs with 100% non-detects follows this letter.

Time series plots for Appendix III and IV parameters at all wells are provided for the purpose of screening data at these wells (Figure A). Additionally, a separate section of box plots is included for all constituents at upgradient and downgradient wells (Figure B). The time series plots are used to initially screen for suspected outliers and trends, while the box plots provide visual representation of variation within individual wells and between all wells. Values in background which have been flagged as outliers may be seen in a lighter font and as a disconnected symbol on the graphs. A summary of flagged outliers follows this report (Figure C).

In earlier analyses, data at all wells were evaluated for the following: 1) outliers; 2) trends; 3) most appropriate statistical method for Appendix III parameters based on site characteristics of groundwater data upgradient of the facility; and 4) eligibility of downgradient wells when intrawell statistical methods are recommended. Power curves were provided with the previous screening to demonstrate that the selected statistical methods for Appendix III parameters comply with the USEPA Unified Guidance. The EPA suggests the selected statistical method should provide at least 55% power at 3 standard deviations or at least 80% power at 4 standard deviations.

Summary of Statistical Methods – Appendix III Parameters:

Based on the earlier evaluation described above, the following methods were selected:

- Interwell prediction limits, combined with a 1-of-2 resample plan for boron, calcium, chloride, fluoride, pH, sulfate, and TDS

Parametric prediction limits are utilized when the screened historical data follow a normal or transformed-normal distribution. When data cannot be normalized or the majority of data are non-detects, a nonparametric test is utilized. While the false positive rate associated with the parametric limits is based on an annual 10% (5% per semi-annual event) as recommended by the EPA Unified Guidance (2009), the false positive rate associated with the nonparametric limits is dependent upon the available background sample size, number of future comparisons, and verification resample plan. The distribution of data is tested using the Shapiro-Wilk/Shapiro-Francia test for normality. After testing for normality and performing any adjustments as discussed below (US EPA, 2009), data are analyzed using either parametric or non-parametric prediction limits.

- No statistical analyses are required on wells and analytes containing 100% non-detects (USEPA Unified Guidance, 2009, Chapter 6).
- When data contain <15% non-detects, simple substitution of one-half the reporting limit is utilized in the statistical analysis. The reporting limit utilized for non-detects is the most recent practical quantification limit (PQL) as reported by the laboratory.
- When data contain between 15-50% non-detects, the Kaplan-Meier non-detect adjustment is applied to the background data for parametric limits. This technique adjusts the mean and standard deviation of the historical concentrations to account for concentrations below the reporting limit.
- Nonparametric prediction limits are used on data containing greater than 50% non-detects.

Natural systems continuously evolve due to physical changes made to the environment. Examples include capping a landfill, paving areas near a well, or lining a drainage channel to prevent erosion. Periodic updating of background statistical limits is necessary to accommodate these types of changes. In the interwell case, prediction limits are updated with upgradient well data during each event after careful screening for any new outliers. In some cases, the earlier portion of data are deselected prior to construction of limits to provide sensitive limits that will rapidly detect changes in groundwater quality. Even though the data are excluded from the calculation, the values will continue to be reported and shown in tables and graphs.

Summary of Background Screening – Conducted in March 2019

Outlier Analysis

Time series plots were used to identify suspected outliers, or extreme values that would result in limits that are not conservative from a regulatory perspective, in proposed background data. Suspected outliers at all wells for Appendix III and Appendix IV parameters were formally tested using Tukey's box plot method and, when identified either visually or by Tukey's test, flagged in the computer database with "o" and deselected prior to construction of statistical limits. A list of flagged values is provided in the outlier summary (Figure C). Although outliers were screened for all wells, only outliers in upgradient wells will affect the interwell prediction limits.

When suspected outliers were evaluated using the Tukey box plot method during the previous screening, a few outliers were identified. In cases where the most recent value was identified as an outlier, values were not flagged in the database as they may represent a future trend. If future values do not remain at similar concentrations, these values will be flagged as outliers and deselected. Several low values exist in the data sets and appear on the graphs as possible low outliers relative to the Practical Quantitation Limit. However, these values are observed trace values (i.e., measurements reported by the laboratory between the Method Detection Limit and the Practical Quantitation Limit) and, therefore, were not flagged as outliers.

When any values are flagged in the database as outliers, they are plotted in a disconnected and lighter symbol on the time series graph. A substitution of the most recent reporting limit was applied when varying detection limits existed in data.

Seasonality

No obvious seasonal patterns were observed on the time series plots for any of the detected data; therefore, no deseasonalizing adjustments were made to the data. When seasonal patterns are observed, data may be deseasonalized so that the resulting limits will correctly account for the seasonality as a predictable pattern rather than random variation or a release.

Trend Test Evaluation

While trends may be identified by visual inspection, a quantification of the trend and its significance is needed. The Sen's Slope/Mann Kendall trend test was used to evaluate all data at each well to identify statistically significant increasing or decreasing trends. In the

absence of suspected contamination, significant trending data in upgradient wells are typically not included as part of the background data used for construction of prediction limits. This step serves to eliminate the trend and, thus, reduce variation in background. When statistically significant decreasing trends are present, earlier data are evaluated to determine whether earlier concentration levels are significantly different than current reported concentrations and will be deselected as necessary. When the historical records of data are truncated for the reasons above, a summary report will be provided to show the date ranges used in construction of the statistical limits.

The results of the trend analyses showed a number of statistically significant decreasing and increasing trends for the Appendix III parameters. All trends noted were relatively low in magnitude when compared to average concentrations and were in downgradient wells; therefore, they did not affect the interwell limits, and no adjustments were made to the data sets. Trend test results were included with the background screening report.

Appendix III – Determination of Spatial Variation

The Analysis of Variance (ANOVA) was used to statistically evaluate differences in average concentrations among upgradient wells, which assists in identifying the most appropriate statistical approach. Interwell tests, which compare downgradient well data to statistical limits constructed from pooled upgradient well data, are appropriate when average concentrations are similar across upgradient wells. Intrawell tests, which compare compliance data from a single well to screened historical data within the same well, are appropriate when upgradient wells exhibit spatial variation; when statistical limits constructed from upgradient wells would not be conservative from a regulatory perspective; and when downgradient water quality is unimpacted compared to upgradient water quality for the same parameter.

The ANOVA identified no variation among upgradient well data for fluoride, making this constituent eligible for interwell analyses. Variation was noted for boron, calcium, chloride, pH, sulfate, and TDS. While data were further tested for intrawell eligibility during the screening, interwell methods will be used for all Appendix III constituents in accordance with Georgia EPD requirements.

Evaluation of Appendix III Parameters – January/February 2024

Interwell Prediction Limits

Interwell prediction limits, combined with a 1-of-2 resample plan, were constructed using all historical upgradient well data through January/February 2024 (Figure D). Background

(upgradient) well data were re-assessed for potential outliers during this analysis in order to construct a statistical limit that is conservative (i.e., lower) from a regulatory perspective and representative of present-day groundwater quality conditions. No additional values were flagged. Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent. The January/February 2024 sample from each downgradient well is compared to the background limit to determine whether initial exceedances are present.

In the event of an initial exceedance of compliance well data, the 1-of-2 resample plan allows for collection of one additional sample to determine whether the initial exceedance is confirmed. When resamples confirm the initial exceedance, a statistically significant increase is identified and further research would be required to identify the cause of the exceedance (i.e., impact from the site, natural variation, or an off-site source). If the resample falls within the statistical limit, the initial exceedance is considered to be a false positive result and, therefore, no exceedance is noted and no further action is necessary. If no resample is collected, the original result is considered a confirmed exceedance. A summary table of the background prediction limits follows this letter. Exceedances were identified for the following well/constituent pairs:

- Boron: BRGWC-17S, BRGWC-33S, BRGWC-34S, BRGWC-35S, BRGWC-36S, and BRGWC-38S
- Calcium: BRGWC-17S, BRGWC-33S, BRGWC-34S, BRGWC-35S, and BRGWC-36S
- Chloride: BRGWC-17S, BRGWC-33S, BRGWC-34S, BRGWC-35S, BRGWC-36S, and BRGWC-38S
- Fluoride: BRGWC-17S and BRGWC-38S
- pH (lower limit): BRGWC-33S, BRGWC-35S, BRGWC-36S, BRGWC-37S, and BRGWC-38S
- Sulfate: BRGWC-17S, BRGWC-33S, BRGWC-34S, BRGWC-35S, BRGWC-36S, and BRGWC-38S
- TDS: BRGWC-17S, BRGWC-33S, BRGWC-34S, BRGWC-35S, BRGWC-36S, and BRGWC-38S

Trend Test Evaluation – Appendix III

When prediction limit exceedances are identified in downgradient wells, data are further evaluated using the Sen's Slope/Mann Kendall trend test at the 99% confidence level to determine whether concentrations are statistically increasing, decreasing, or stable (Figure E). Upgradient wells are included in the trend analyses to identify whether similar patterns exist upgradient of the site which is an indication of variability in groundwater

unrelated to practices at the site. Statistically significant trends were identified for the following well/constituent pairs:

Increasing:

- Boron: BRGWC-35S and BRGWC-36S
- Calcium: BRGWA-2S, BRGWA-6S (both upgradient), BRGWC-17S, and BRGWC-35S
- Chloride: BRGWC-17S and BRGWC-36S
- Fluoride: BRGWA-2S and BRGWA-5I (both upgradient)
- Sulfate: BRGWC-17S

Decreasing:

- Boron: BRGWA-2I (upgradient)
- Calcium: BRGWC-34S
- Chloride: BRGWA-5I and BRGWA-5S (both upgradient)
- pH: BRGWA-2I, BRGWA-2S, BRGWA-5S (all upgradient), and BRGWC-38S
- Sulfate: BRGWC-34S, BRGWC-36S, and BRGWC-38S
- TDS: BRGWA-5S (upgradient), BRGWC-34S, BRGWC-36S, and BRGWC-38S

A summary of the trend test results follows this letter.

Evaluation of Appendix IV Parameters – January/February 2024

For Appendix IV parameters, confidence intervals for each downgradient well/constituent were compared against corresponding Groundwater Protection Standards (GWPS). GWPS were developed as described below. Well/constituent pairs containing 100% non-detects do not require analysis, which includes all downgradient wells for molybdenum. Data from upgradient wells for Appendix IV parameters are reassessed for outliers during each analysis. No additional values were flagged and no changes to previously flagged values were made. A summary of previously flagged outliers follows this report (Figure C).

Interwell Upper Tolerance Limits

Interwell tolerance limits were used to calculate site-specific background limits from all available pooled upgradient well data through January/February 2024 for Appendix IV constituents (Figure F). Parametric tolerance limits are calculated, with a target of 95% confidence and 95% coverage, when data follow a normal or transformed-normal distribution, such as for combined radium 226 + 228. When data contained greater than 50% non-detects or did not follow a normal or transformed-normal distribution, non-

parametric tolerance limits were constructed using the highest background measurement. The confidence and coverage levels for nonparametric tolerance limits are dependent upon the number of background samples.

Groundwater Protection Standards

The background limits were then used when determining the groundwater protection standard (GWPS) under 40 CFR §257.95(h) and Georgia EPD Rule 391-3-4-.10(6)(a). On July 30, 2018, US EPA revised the Federal CCR rule updating GWPS for cobalt, lead, lithium, and molybdenum as described above in 40 CFR §257.95(h)(2). Effective on February 22, 2022, Georgia EPD incorporated the updated GWPS into the current Georgia EPD Rules for Solid Waste Management 391-3-4-.10(6)(a). In accordance with the updated Rules, the GWPS is:

- The maximum contaminant level (MCL) established under §141.62 and §141.66 of this title
- Where an MCL has not been established for a constituent, Federal and State CCR Rules specify levels for cobalt (0.006 mg/L), lead (0.015 mg/L), lithium (0.040 mg/L), and molybdenum (0.100 mg/L)
- The respective background level for a constituent when the background level is higher than the MCL or Federal CCR Rule identified GWPS

Following Georgia EPD Rule requirements and the Federal CCR requirements, GWPS were established for statistical comparison of Appendix IV constituents for this sample event (Figure G).

Confidence Intervals

To complete the statistical comparison to GWPS, confidence intervals were constructed for each of the Appendix IV constituents in each downgradient well with detections (Figure H). As mentioned above, well/constituent pairs containing 100% non-detects do not require analysis, which includes all downgradient wells for molybdenum.

The Sanitas software was used to calculate the tolerance limits and the confidence intervals. These intervals were constructed as either parametric or nonparametric confidence intervals depending on the data distribution and percentage of non-detects. When data followed a normal or transformed-normal distribution, parametric confidence intervals were used for Appendix IV parameters. Nonparametric confidence intervals, which use the appropriate order statistics, depending on the sample size, as interval limits, were constructed when data did not follow a normal or transformed-normal distribution or when there were greater than 50% non-detects. The lower confidence limit, which is

constructed with 99% confidence for parametric confidence intervals, is compared to the GWPS prepared as described above. The achievable confidence level associated with nonparametric confidence intervals is dependent upon the number samples available.

Only when the entire confidence interval is above a GWPS is the downgradient or assessment well/constituent pair considered to exceed its respective standard. If there is an exceedance of the GWPS, a statistically significant level (SSL) exceedance is identified. Statistical exceedances were identified for the following well/constituent pairs:

- Beryllium: BRGWC-38S
- Cobalt: BRGWC-33S and BRGWC-38S

Trend Test Evaluation – Appendix IV

Data at wells with confidence interval exceedances are further evaluated using the Sen's Slope/Mann Kendall trend test at the 95% confidence level to determine whether concentrations are statistically increasing, decreasing, or stable (Figure I). Although the trend tests for Assessment monitoring pairs were previously evaluated using 99% confidence, the 95% confidence level more rapidly identifies statistically significant trends. Additionally, the 95% confidence level is recommended in cases with limited sample sizes and, particularly, for new assessment wells. Upgradient wells are included in the trend analyses to identify whether similar patterns exist upgradient of the site for the same constituents. When trends are present in upgradient wells, it is an indication of variability in groundwater quality unrelated to practices at the site. Statistically significant trends were noted for the following well/constituent pairs:

Increasing:

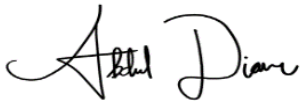
- None

Decreasing:

- Beryllium: BRGWC-38S
- Cobalt: BRGWA-2S (upgradient), BRGWC-5I (upgradient), and BRGWC-38S

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for Plant Branch Pond E. If you have any questions or comments, please feel free to contact us.

For Groundwater Stats Consulting,



Abdul Diane
Groundwater Analyst

Andrew T. Collins
Project Manager

100% Non-Detects: Appendix IV Downgradient & Assessment

Analysis Run 4/5/2024 2:41 PM View: Pond E - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

Antimony (mg/L)
BRGWC-33S, BRGWC-34S, BRGWC-35S, PZ-13S, PZ-53D, PZ-70I

Arsenic (mg/L)
BRGWC-34S, PZ-53D

Beryllium (mg/L)
BRGWC-17S, BRGWC-37S, PZ-53D

Cadmium (mg/L)
BRGWC-17S, BRGWC-35S, BRGWC-37S, PZ-53D, PZ-70I

Chromium (mg/L)
BRGWC-34S, PZ-53D, PZ-70I

Cobalt (mg/L)
BRGWC-17S, BRGWC-36S, BRGWC-37S, PZ-53D

Lead (mg/L)
PZ-53D, PZ-70I

Lithium (mg/L)
BRGWC-37S

Mercury (mg/L)
PZ-13S, PZ-53D

Molybdenum (mg/L)
BRGWC-17S, BRGWC-33S, BRGWC-34S, BRGWC-35S, BRGWC-36S, BRGWC-37S, BRGWC-38S, PZ-13S

Selenium (mg/L)
BRGWC-34S, BRGWC-35S, BRGWC-37S, PZ-53D

Thallium (mg/L)
BRGWC-34S, BRGWC-35S, BRGWC-36S, BRGWC-37S, PZ-13S, PZ-53D, PZ-70I

Appendix III - Interwell Prediction Limits - Significant Results

Plant Branch Data: Plant Branch AP Printed 4/3/2024, 2:14 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	BRGWC-17S	0.0187	n/a	2/12/2024	0.0758	Yes	95	n/a	n/a	64.21	n/a	n/a	0.000215	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-33S	0.0187	n/a	2/14/2024	1.28	Yes	95	n/a	n/a	64.21	n/a	n/a	0.000215	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-34S	0.0187	n/a	2/14/2024	2.14	Yes	95	n/a	n/a	64.21	n/a	n/a	0.000215	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-35S	0.0187	n/a	2/12/2024	2.39	Yes	95	n/a	n/a	64.21	n/a	n/a	0.000215	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-36S	0.0187	n/a	2/14/2024	1.12	Yes	95	n/a	n/a	64.21	n/a	n/a	0.000215	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-38S	0.0187	n/a	2/14/2024	1.26	Yes	95	n/a	n/a	64.21	n/a	n/a	0.000215	NP Inter (NDs) 1 of 2
Calcium (mg/L)	BRGWC-17S	24	n/a	2/12/2024	53.3	Yes	95	n/a	n/a	3.158	n/a	n/a	0.000215	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-33S	24	n/a	2/14/2024	281	Yes	95	n/a	n/a	3.158	n/a	n/a	0.000215	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-34S	24	n/a	2/14/2024	99.2	Yes	95	n/a	n/a	3.158	n/a	n/a	0.000215	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-35S	24	n/a	2/12/2024	68.9	Yes	95	n/a	n/a	3.158	n/a	n/a	0.000215	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-36S	24	n/a	2/13/2024	44.4	Yes	95	n/a	n/a	3.158	n/a	n/a	0.000215	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-17S	4.8	n/a	1/31/2024	5.69	Yes	95	n/a	n/a	0	n/a	n/a	0.000215	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-33S	4.8	n/a	2/5/2024	65.3	Yes	95	n/a	n/a	0	n/a	n/a	0.000215	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-34S	4.8	n/a	2/3/2024	15.7	Yes	95	n/a	n/a	0	n/a	n/a	0.000215	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-35S	4.8	n/a	1/31/2024	6.51	Yes	95	n/a	n/a	0	n/a	n/a	0.000215	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-36S	4.8	n/a	2/1/2024	8.32	Yes	95	n/a	n/a	0	n/a	n/a	0.000215	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-38S	4.8	n/a	2/1/2024	7	Yes	95	n/a	n/a	0	n/a	n/a	0.000215	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-17S	0.289	n/a	1/31/2024	0.34	Yes	105	n/a	n/a	51.43	n/a	n/a	0.0001784	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	BRGWC-38S	0.289	n/a	2/1/2024	0.493	Yes	105	n/a	n/a	51.43	n/a	n/a	0.0001784	NP Inter (NDs) 1 of 2
pH, Field (S.U.)	BRGWC-33S	7.067	5.837	1/31/2024	4.78	Yes	104	6.452	0.3273	0	None	No	0.0005373	Param Inter 1 of 2
pH, Field (S.U.)	BRGWC-35S	7.067	5.837	1/30/2024	5.5	Yes	104	6.452	0.3273	0	None	No	0.0005373	Param Inter 1 of 2
pH, Field (S.U.)	BRGWC-36S	7.067	5.837	1/31/2024	5.63	Yes	104	6.452	0.3273	0	None	No	0.0005373	Param Inter 1 of 2
pH, Field (S.U.)	BRGWC-37S	7.067	5.837	1/31/2024	5.76	Yes	104	6.452	0.3273	0	None	No	0.0005373	Param Inter 1 of 2
pH, Field (S.U.)	BRGWC-38S	7.067	5.837	1/31/2024	4.1	Yes	104	6.452	0.3273	0	None	No	0.0005373	Param Inter 1 of 2
Sulfate (mg/L)	BRGWC-17S	7.5	n/a	2/1/2024	189	Yes	95	n/a	n/a	16.84	n/a	n/a	0.000215	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-33S	7.5	n/a	2/5/2024	872	Yes	95	n/a	n/a	16.84	n/a	n/a	0.000215	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-34S	7.5	n/a	2/3/2024	289	Yes	95	n/a	n/a	16.84	n/a	n/a	0.000215	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-35S	7.5	n/a	2/1/2024	278	Yes	95	n/a	n/a	16.84	n/a	n/a	0.000215	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-36S	7.5	n/a	2/3/2024	222	Yes	95	n/a	n/a	16.84	n/a	n/a	0.000215	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-38S	7.5	n/a	2/3/2024	233	Yes	95	n/a	n/a	16.84	n/a	n/a	0.000215	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-17S	178.3	n/a	2/6/2024	413	Yes	94	97.63	42.83	2.128	None	No	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-33S	178.3	n/a	2/7/2024	1420	Yes	94	97.63	42.83	2.128	None	No	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-34S	178.3	n/a	2/7/2024	494	Yes	94	97.63	42.83	2.128	None	No	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-35S	178.3	n/a	2/6/2024	502	Yes	94	97.63	42.83	2.128	None	No	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-36S	178.3	n/a	2/7/2024	435	Yes	94	97.63	42.83	2.128	None	No	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-38S	178.3	n/a	2/7/2024	393	Yes	94	97.63	42.83	2.128	None	No	0.001075	Param Inter 1 of 2

Appendix III - Interwell Prediction Limits - All Results

Plant Branch Data: Plant Branch AP Printed 4/3/2024, 2:14 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	**BRGWC-17S**	**0.0187**	**n/a**	**2/12/2024**	**0.0758**	**Yes**	**95**	**n/a**	**n/a**	**64.21**	**n/a**	**n/a**	**0.000215**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**BRGWC-33S**	**0.0187**	**n/a**	**2/14/2024**	**1.28**	**Yes**	**95**	**n/a**	**n/a**	**64.21**	**n/a**	**n/a**	**0.000215**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**BRGWC-34S**	**0.0187**	**n/a**	**2/14/2024**	**2.14**	**Yes**	**95**	**n/a**	**n/a**	**64.21**	**n/a**	**n/a**	**0.000215**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**BRGWC-35S**	**0.0187**	**n/a**	**2/12/2024**	**2.39**	**Yes**	**95**	**n/a**	**n/a**	**64.21**	**n/a**	**n/a**	**0.000215**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**BRGWC-36S**	**0.0187**	**n/a**	**2/14/2024**	**1.12**	**Yes**	**95**	**n/a**	**n/a**	**64.21**	**n/a**	**n/a**	**0.000215**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	BRGWC-37S	0.0187	n/a	2/14/2024	0.0052ND	No	95	n/a	n/a	64.21	n/a	n/a	0.000215	NP Inter (NDs) 1 of 2
Boron (mg/L)	**BRGWC-38S**	**0.0187**	**n/a**	**2/14/2024**	**1.26**	**Yes**	**95**	**n/a**	**n/a**	**64.21**	**n/a**	**n/a**	**0.000215**	**NP Inter (NDs) 1 of 2**
Calcium (mg/L)	**BRGWC-17S**	**24**	**n/a**	**2/12/2024**	**53.3**	**Yes**	**95**	**n/a**	**n/a**	**3.158**	**n/a**	**n/a**	**0.000215**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**BRGWC-33S**	**24**	**n/a**	**2/14/2024**	**281**	**Yes**	**95**	**n/a**	**n/a**	**3.158**	**n/a**	**n/a**	**0.000215**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**BRGWC-34S**	**24**	**n/a**	**2/14/2024**	**99.2**	**Yes**	**95**	**n/a**	**n/a**	**3.158**	**n/a**	**n/a**	**0.000215**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**BRGWC-35S**	**24**	**n/a**	**2/12/2024**	**68.9**	**Yes**	**95**	**n/a**	**n/a**	**3.158**	**n/a**	**n/a**	**0.000215**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**BRGWC-36S**	**24**	**n/a**	**2/13/2024**	**44.4**	**Yes**	**95**	**n/a**	**n/a**	**3.158**	**n/a**	**n/a**	**0.000215**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	BRGWC-37S	24	n/a	2/13/2024	3.54	No	95	n/a	n/a	3.158	n/a	n/a	0.000215	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-38S	24	n/a	2/13/2024	23.7	No	95	n/a	n/a	3.158	n/a	n/a	0.000215	NP Inter (normality) 1 of 2
Chloride (mg/L)	**BRGWC-17S**	**4.8**	**n/a**	**1/31/2024**	**5.69**	**Yes**	**95**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.000215**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**BRGWC-33S**	**4.8**	**n/a**	**2/5/2024**	**65.3**	**Yes**	**95**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.000215**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**BRGWC-34S**	**4.8**	**n/a**	**2/3/2024**	**15.7**	**Yes**	**95**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.000215**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**BRGWC-35S**	**4.8**	**n/a**	**1/31/2024**	**6.51**	**Yes**	**95**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.000215**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**BRGWC-36S**	**4.8**	**n/a**	**2/1/2024**	**8.32**	**Yes**	**95**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.000215**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	BRGWC-37S	4.8	n/a	2/1/2024	2	No	95	n/a	n/a	0	n/a	n/a	0.000215	NP Inter (normality) 1 of 2
Chloride (mg/L)	**BRGWC-38S**	**4.8**	**n/a**	**2/1/2024**	**7**	**Yes**	**95**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.000215**	**NP Inter (normality) 1 of 2**
Fluoride (mg/L)	**BRGWC-17S**	**0.289**	**n/a**	**1/31/2024**	**0.34**	**Yes**	**105**	**n/a**	**n/a**	**51.43**	**n/a**	**n/a**	**0.0001784**	**NP Inter (NDs) 1 of 2**
Fluoride (mg/L)	BRGWC-33S	0.289	n/a	2/1/2024	0.194	No	105	n/a	n/a	51.43	n/a	n/a	0.0001784	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	BRGWC-34S	0.289	n/a	2/1/2024	0.101	No	105	n/a	n/a	51.43	n/a	n/a	0.0001784	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	BRGWC-35S	0.289	n/a	1/31/2024	0.263	No	105	n/a	n/a	51.43	n/a	n/a	0.0001784	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	BRGWC-36S	0.289	n/a	2/1/2024	0.144	No	105	n/a	n/a	51.43	n/a	n/a	0.0001784	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	BRGWC-37S	0.289	n/a	2/1/2024	0.109	No	105	n/a	n/a	51.43	n/a	n/a	0.0001784	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	**BRGWC-38S**	**0.289**	**n/a**	**2/1/2024**	**0.493**	**Yes**	**105**	**n/a**	**n/a**	**51.43**	**n/a**	**n/a**	**0.0001784**	**NP Inter (NDs) 1 of 2**
pH, Field (S.U.)	BRGWC-17S	7.067	5.837	1/30/2024	6.28	No	104	6.452	0.3273	0	None	No	0.0005373	Param Inter 1 of 2
pH, Field (S.U.)	**BRGWC-33S**	**7.067**	**5.837**	**1/31/2024**	**4.78**	**Yes**	**104**	**6.452**	**0.3273**	**0**	**None**	**No**	**0.0005373**	**Param Inter 1 of 2**
pH, Field (S.U.)	BRGWC-34S	7.067	5.837	1/31/2024	5.95	No	104	6.452	0.3273	0	None	No	0.0005373	Param Inter 1 of 2
pH, Field (S.U.)	**BRGWC-35S**	**7.067**	**5.837**	**1/30/2024**	**5.5**	**Yes**	**104**	**6.452**	**0.3273**	**0**	**None**	**No**	**0.0005373**	**Param Inter 1 of 2**
pH, Field (S.U.)	**BRGWC-36S**	**7.067**	**5.837**	**1/31/2024**	**5.63**	**Yes**	**104**	**6.452**	**0.3273**	**0**	**None**	**No**	**0.0005373**	**Param Inter 1 of 2**
pH, Field (S.U.)	**BRGWC-37S**	**7.067**	**5.837**	**1/31/2024**	**5.76**	**Yes**	**104**	**6.452**	**0.3273**	**0**	**None**	**No**	**0.0005373**	**Param Inter 1 of 2**
pH, Field (S.U.)	**BRGWC-38S**	**7.067**	**5.837**	**1/31/2024**	**4.1**	**Yes**	**104**	**6.452**	**0.3273**	**0**	**None**	**No**	**0.0005373**	**Param Inter 1 of 2**
Sulfate (mg/L)	**BRGWC-17S**	**7.5**	**n/a**	**2/1/2024**	**189**	**Yes**	**95**	**n/a**	**n/a**	**16.84**	**n/a**	**n/a**	**0.000215**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**BRGWC-33S**	**7.5**	**n/a**	**2/5/2024**	**872**	**Yes**	**95**	**n/a**	**n/a**	**16.84**	**n/a**	**n/a**	**0.000215**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**BRGWC-34S**	**7.5**	**n/a**	**2/3/2024**	**289**	**Yes**	**95**	**n/a**	**n/a**	**16.84**	**n/a**	**n/a**	**0.000215**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**BRGWC-35S**	**7.5**	**n/a**	**2/1/2024**	**278**	**Yes**	**95**	**n/a**	**n/a**	**16.84**	**n/a**	**n/a**	**0.000215**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**BRGWC-36S**	**7.5**	**n/a**	**2/3/2024**	**222**	**Yes**	**95**	**n/a**	**n/a**	**16.84**	**n/a**	**n/a**	**0.000215**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	BRGWC-37S	7.5	n/a	2/1/2024	0.258J	No	95	n/a	n/a	16.84	n/a	n/a	0.000215	NP Inter (normality) 1 of 2
Sulfate (mg/L)	**BRGWC-38S**	**7.5**	**n/a**	**2/3/2024**	**233**	**Yes**	**95**	**n/a**	**n/a**	**16.84**	**n/a**	**n/a**	**0.000215**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids (mg/L)	**BRGWC-17S**	**178.3**	**n/a**	**2/6/2024**	**413**	**Yes**	**94**	**97.63**	**42.83**	**2.128**	**None**	**No**	**0.001075**	**Param Inter 1 of 2**
Total Dissolved Solids (mg/L)	**BRGWC-33S**	**178.3**	**n/a**	**2/7/2024**	**1420**	**Yes**	**94**	**97.63**	**42.83**	**2.128**	**None**	**No**	**0.001075**	**Param Inter 1 of 2**
Total Dissolved Solids (mg/L)	**BRGWC-34S**	**178.3**	**n/a**	**2/7/2024**	**494**	**Yes**	**94**	**97.63**	**42.83**	**2.128**	**None**	**No**	**0.001075**	**Param Inter 1 of 2**
Total Dissolved Solids (mg/L)	**BRGWC-35S**	**178.3**	**n/a**	**2/6/2024**	**502**	**Yes**	**94**	**97.63**	**42.83**	**2.128**	**None**	**No**	**0.001075**	**Param Inter 1 of 2**
Total Dissolved Solids (mg/L)	**BRGWC-36S**	**178.3**	**n/a**	**2/7/2024**	**435**	**Yes**	**94**	**97.63**	**42.83**	**2.128**	**None**	**No**	**0.001075**	**Param Inter 1 of 2**
Total Dissolved Solids (mg/L)	BRGWC-37S	178.3	n/a	2/7/2024	37	No	94	97.63	42.83	2.128	None	No	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	**BRGWC-38S**	**178.3**	**n/a**	**2/7/2024**	**393**	**Yes**	**94**	**97.63**	**42.83**	**2.128**	**None**	**No**	**0.001075**	**Param Inter 1 of 2**

Appendix III - Trend Test Summary - Significant Results

Plant Branch Data: Plant Branch AP Printed 4/3/2024, 2:27 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	BRGWA-2I (bg)	-0.0007276	-90	-74	Yes	19	31.58	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWC-35S	0.1544	148	74	Yes	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWC-36S	0.0281	96	81	Yes	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWA-2S (bg)	0.1738	81	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWA-6S (bg)	0.1302	96	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWC-17S	2.321	118	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWC-34S	-2.844	-79	-74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWC-35S	1.735	84	74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWA-5I (bg)	-0.1426	-86	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWA-5S (bg)	-0.07103	-87	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWC-17S	0.222	98	74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWC-36S	0.6441	121	74	Yes	19	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	BRGWA-2S (bg)	0.008399	93	87	Yes	21	57.14	n/a	n/a	0.01	NP
Fluoride (mg/L)	BRGWA-5I (bg)	0.008638	109	87	Yes	21	61.9	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWA-2I (bg)	-0.07041	-101	-87	Yes	21	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWA-2S (bg)	-0.03315	-107	-87	Yes	21	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWA-5S (bg)	-0.05271	-116	-87	Yes	21	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWC-38S	-0.08879	-120	-87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-17S	8.068	93	74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-34S	-23.39	-120	-74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-36S	-12.19	-110	-74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-38S	-33.17	-134	-74	Yes	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWA-5S (bg)	-7.648	-101	-74	Yes	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-34S	-35.37	-83	-74	Yes	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-36S	-17.22	-136	-74	Yes	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-38S	-46.25	-147	-74	Yes	19	0	n/a	n/a	0.01	NP

Appendix III - Trend Test Summary - All Results

Plant Branch Data: Plant Branch AP Printed 4/3/2024, 2:27 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	**BRGWA-2I (bg)**	**-0.0007276**	**-90**	**-74**	**Yes**	**19**	**31.58**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	BRGWA-2S (bg)	0	11	74	No	19	84.21	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWA-5I (bg)	0	-4	-74	No	19	73.68	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWA-5S (bg)	0	-12	-74	No	19	57.89	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWA-6S (bg)	0	-12	-74	No	19	73.68	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWC-17S	0	9	81	No	20	35	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWC-33S	-0.00607	-17	-74	No	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWC-34S	0	-6	-74	No	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	**BRGWC-35S**	**0.1544**	**148**	**74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**BRGWC-36S**	**0.0281**	**96**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	BRGWC-38S	-0.05155	-73	-74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWA-2I (bg)	0.2667	30	74	No	19	5.263	n/a	n/a	0.01	NP
Calcium (mg/L)	**BRGWA-2S (bg)**	**0.1738**	**81**	**74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	BRGWA-5I (bg)	0.1543	37	74	No	19	5.263	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWA-5S (bg)	-0.4984	-64	-74	No	19	5.263	n/a	n/a	0.01	NP
Calcium (mg/L)	**BRGWA-6S (bg)**	**0.1302**	**96**	**74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**BRGWC-17S**	**2.321**	**118**	**74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	BRGWC-33S	1.786	11	74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**BRGWC-34S**	**-2.844**	**-79**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**BRGWC-35S**	**1.735**	**84**	**74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	BRGWC-36S	-0.8845	-72	-74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWA-2I (bg)	-0.02052	-27	-74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWA-2S (bg)	0	13	74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**BRGWA-5I (bg)**	**-0.1426**	**-86**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**BRGWA-5S (bg)**	**-0.07103**	**-87**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	BRGWA-6S (bg)	0	-3	-74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**BRGWC-17S**	**0.222**	**98**	**74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	BRGWC-33S	1.995	57	74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWC-34S	-0.1558	-33	-74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWC-35S	0.06006	57	74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**BRGWC-36S**	**0.6441**	**121**	**74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	BRGWC-38S	0.1657	45	74	No	19	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	BRGWA-2I (bg)	-0.01026	-83	-87	No	21	52.38	n/a	n/a	0.01	NP
Fluoride (mg/L)	**BRGWA-2S (bg)**	**0.008399**	**93**	**87**	**Yes**	**21**	**57.14**	**n/a**	**n/a**	**0.01**	**NP**
Fluoride (mg/L)	**BRGWA-5I (bg)**	**0.008638**	**109**	**87**	**Yes**	**21**	**61.9**	**n/a**	**n/a**	**0.01**	**NP**
Fluoride (mg/L)	BRGWA-5S (bg)	0.00428	33	87	No	21	33.33	n/a	n/a	0.01	NP
Fluoride (mg/L)	BRGWA-6S (bg)	0	48	87	No	21	52.38	n/a	n/a	0.01	NP
Fluoride (mg/L)	BRGWC-17S	0.01276	44	87	No	21	4.762	n/a	n/a	0.01	NP
Fluoride (mg/L)	BRGWC-38S	-0.01068	-19	-87	No	21	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	**BRGWA-2I (bg)**	**-0.07041**	**-101**	**-87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (S.U.)	**BRGWA-2S (bg)**	**-0.03315**	**-107**	**-87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (S.U.)	BRGWA-5I (bg)	-0.0131	-41	-87	No	21	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	**BRGWA-5S (bg)**	**-0.05271**	**-116**	**-87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (S.U.)	BRGWA-6S (bg)	-0.01695	-28	-81	No	20	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWC-33S	-0.01171	-77	-92	No	22	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWC-35S	-0.0179	-35	-81	No	20	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWC-36S	-0.002503	-7	-81	No	20	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWC-37S	-0.009029	-10	-68	No	18	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	**BRGWC-38S**	**-0.08879**	**-120**	**-87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	BRGWA-2I (bg)	-0.2264	-53	-74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-2S (bg)	-0.01093	-20	-74	No	19	31.58	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-5I (bg)	-0.2385	-67	-74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-5S (bg)	-0.03629	-55	-74	No	19	31.58	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-6S (bg)	-0.01177	-27	-74	No	19	21.05	n/a	n/a	0.01	NP
Sulfate (mg/L)	**BRGWC-17S**	**8.068**	**93**	**74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	BRGWC-33S	0	-2	-74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**BRGWC-34S**	**-23.39**	**-120**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	BRGWC-35S	0.2254	4	74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**BRGWC-36S**	**-12.19**	**-110**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**BRGWC-38S**	**-33.17**	**-134**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	BRGWA-2I (bg)	-8.655	-62	-74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWA-2S (bg)	-0.738	-7	-74	No	19	5.263	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWA-5I (bg)	-3.436	-46	-74	No	19	5.263	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	**BRGWA-5S (bg)**	**-7.648**	**-101**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	BRGWA-6S (bg)	-2.289	-26	-68	No	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-17S	7.871	62	74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-33S	5.503	4	74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	**BRGWC-34S**	**-35.37**	**-83**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**

Appendix III - Trend Test Summary - All Results

Plant Branch Data: Plant Branch AP Printed 4/3/2024, 2:27 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Total Dissolved Solids (mg/L)	BRGWC-35S	1.416	14	74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	**BRGWC-36S**	**-17.22**	**-136**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**BRGWC-38S**	**-46.25**	**-147**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**

Upper Tolerance Limits Summary Table

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 4/5/2024, 2:30 PM

Constituent	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Antimony (mg/L)	0.0016	n/a	n/a	n/a	n/a	100	93	n/a	0.005921	NP Inter(NDs)
Arsenic (mg/L)	0.0027	n/a	n/a	n/a	n/a	100	79	n/a	0.005921	NP Inter(NDs)
Barium (mg/L)	0.063	n/a	n/a	n/a	n/a	100	0	n/a	0.005921	NP Inter(normality)
Beryllium (mg/L)	0.0002	n/a	n/a	n/a	n/a	100	100	n/a	0.005921	NP Inter(NDs)
Cadmium (mg/L)	0.0003	n/a	n/a	n/a	n/a	100	100	n/a	0.005921	NP Inter(NDs)
Chromium (mg/L)	0.016	n/a	n/a	n/a	n/a	100	15	n/a	0.005921	NP Inter(normality)
Cobalt (mg/L)	0.0034	n/a	n/a	n/a	n/a	98	43.88	n/a	0.00656	NP Inter(normality)
Combined Radium 226 + 228 (pCi/L)	1.929	n/a	n/a	n/a	n/a	100	0	sqrt(x)	0.05	Inter
Fluoride (mg/L)	0.289	n/a	n/a	n/a	n/a	105	51.43	n/a	0.004581	NP Inter(NDs)
Lead (mg/L)	0.0013	n/a	n/a	n/a	n/a	100	83	n/a	0.005921	NP Inter(NDs)
Lithium (mg/L)	0.089	n/a	n/a	n/a	n/a	100	47	n/a	0.005921	NP Inter(normality)
Mercury (mg/L)	0.00021	n/a	n/a	n/a	n/a	90	88.89	n/a	0.009888	NP Inter(NDs)
Molybdenum (mg/L)	0.008	n/a	n/a	n/a	n/a	100	67	n/a	0.005921	NP Inter(NDs)
Selenium (mg/L)	0.0015	n/a	n/a	n/a	n/a	100	100	n/a	0.005921	NP Inter(NDs)
Thallium (mg/L)	0.0006	n/a	n/a	n/a	n/a	100	100	n/a	0.005921	NP Inter(NDs)

PLANT BRANCH POND E GWPS				
Constituent Name	**MCL**	**CCR-Rule Specified**	**Background Limit**	**GWPS**
Antimony, Total (mg/L)	0.006		0.0016	0.006
Arsenic, Total (mg/L)	0.01		0.0027	0.01
Barium, Total (mg/L)	2		0.063	2
Beryllium, Total (mg/L)	0.004		0.0002	0.004
Cadmium, Total (mg/L)	0.005		0.0003	0.005
Chromium, Total (mg/L)	0.1		0.016	0.1
Cobalt, Total (mg/L)	n/a	0.006	0.0034	0.006
Combined Radium, Total (pCi/L)	5		1.93	5
Fluoride, Total (mg/L)	4		0.29	4
Lead, Total (mg/L)	n/a	0.015	0.0013	0.015
Lithium, Total (mg/L)	n/a	0.04	0.089	0.089
Mercury, Total (mg/L)	0.002		0.00021	0.002
Molybdenum, Total (mg/L)	n/a	0.1	0.008	0.1
Selenium, Total (mg/L)	0.05		0.0015	0.05
Thallium, Total (mg/L)	0.002		0.0006	0.002

**Highlighted cells indicate Background is higher than MCLs*

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residuals*

**GWPS = Groundwater Protection Standard*

Confidence Intervals Summary Table - Significant Results

Plant Branch Data: Plant Branch AP Printed 5/31/2024, 11:59 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Beryllium (mg/L)	**BRGWC-38S**	**0.009124**	**0.007709**	**0.004**	**Yes**	**21**	**0.001283**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	**BRGWC-33S**	**0.05869**	**0.04027**	**0.006**	**Yes**	**21**	**0.01669**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	**BRGWC-38S**	**0.2436**	**0.1889**	**0.006**	**Yes**	**20**	**0.0482**	**0**	**None**	**No**	**0.01**	**Param.**

Confidence Intervals Summary Table - All Results

Plant Branch Data: Plant Branch AP Printed 5/31/2024, 11:59 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	BRGWC-17S	0.001	0.0009	0.006	No	20	0.00002236	95	None	No	0.01	NP (NDs)
Antimony (mg/L)	BRGWC-36S	0.0016	0.0006	0.006	No	20	0.0002467	80	None	No	0.01	NP (NDs)
Antimony (mg/L)	BRGWC-37S	0.001	0.0006	0.006	No	20	0.0001573	90	None	No	0.01	NP (NDs)
Antimony (mg/L)	BRGWC-38S	0.001	0.0009	0.006	No	20	0.00006959	90	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-17S	0.0033	0.00073	0.01	No	20	0.0006022	80	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-33S	0.00516	0.00262	0.01	No	21	0.001488	76.19	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-35S	0.002	0.0006	0.01	No	20	0.0005579	85	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-36S	0.002	0.001	0.01	No	20	0.0004786	85	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-37S	0.003	0.00078	0.01	No	20	0.0006056	80	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-38S	0.003284	0.001862	0.01	No	20	0.001195	20	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	PZ-13S	0.00388	0.002	0.01	No	6	0.0007675	83.33	Kaplan-Meier	No	0.0155	NP (NDs)
Arsenic (mg/L)	PZ-70I	0.00366	0.002	0.01	No	4	0.00083	75	Kaplan-Meier	No	0.0625	NP (NDs)
Barium (mg/L)	BRGWC-17S	0.04471	0.03972	2	No	20	0.004396	0	None	No	0.01	Param.
Barium (mg/L)	BRGWC-33S	0.0248	0.02	2	No	21	0.008619	0	None	No	0.01	NP (normality)
Barium (mg/L)	BRGWC-34S	0.03205	0.02484	2	No	20	0.006629	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	BRGWC-35S	0.05116	0.03474	2	No	20	0.01872	0	None	ln(x)	0.01	Param.
Barium (mg/L)	BRGWC-36S	0.04114	0.03025	2	No	20	0.01047	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	BRGWC-37S	0.02533	0.02352	2	No	20	0.001589	0	None	No	0.01	Param.
Barium (mg/L)	BRGWC-38S	0.0239	0.0141	2	No	20	0.009259	0	None	No	0.01	NP (normality)
Barium (mg/L)	PZ-13S	0.1169	0.04078	2	No	6	0.03393	0	None	ln(x)	0.01	Param.
Barium (mg/L)	PZ-53D	0.05829	0.04596	2	No	4	0.002716	0	None	No	0.01	Param.
Barium (mg/L)	PZ-70I	0.0563	0.007936	2	No	4	0.01155	0	None	sqrt(x)	0.01	Param.
Beryllium (mg/L)	BRGWC-33S	0.002059	0.001631	0.004	No	21	0.0003882	4.762	None	No	0.01	Param.
Beryllium (mg/L)	BRGWC-34S	0.000202	0.00013	0.004	No	20	0.0001615	25	None	No	0.01	NP (normality)
Beryllium (mg/L)	BRGWC-35S	0.0001436	0.00009982	0.004	No	20	0.0000403	20	Kaplan-Meier	No	0.01	Param.
Beryllium (mg/L)	BRGWC-36S	0.0002	0.000087	0.004	No	21	0.00005385	38.1	None	No	0.01	NP (normality)
Beryllium (mg/L)	**BRGWC-38S**	**0.009124**	**0.007709**	**0.004**	**Yes**	**21**	**0.001283**	**0**	**None**	**No**	**0.01**	**Param.**
Beryllium (mg/L)	PZ-13S	0.000496	0.0002707	0.004	No	6	0.00008198	0	None	No	0.01	Param.
Beryllium (mg/L)	PZ-70I	0.0004184	0.0001696	0.004	No	4	0.0001167	25	Kaplan-Meier	No	0.01	Param.
Cadmium (mg/L)	BRGWC-33S	0.0004927	0.0003374	0.005	No	21	0.0001408	4.762	None	No	0.01	Param.
Cadmium (mg/L)	BRGWC-34S	0.0004049	0.0001873	0.005	No	20	0.0001958	25	Kaplan-Meier	sqrt(x)	0.01	Param.
Cadmium (mg/L)	BRGWC-36S	0.0003	0.0001	0.005	No	21	0.00006325	90.48	Kaplan-Meier	No	0.01	NP (NDs)
Cadmium (mg/L)	BRGWC-38S	0.0005838	0.0004683	0.005	No	20	0.0001017	5	None	No	0.01	Param.
Cadmium (mg/L)	PZ-13S	0.0003	0.00011	0.005	No	6	0.00007757	83.33	None	No	0.0155	NP (NDs)
Chromium (mg/L)	BRGWC-17S	0.01244	0.01008	0.1	No	20	0.002197	0	None	sqrt(x)	0.01	Param.
Chromium (mg/L)	BRGWC-33S	0.003	0.00049	0.1	No	21	0.0005477	95.24	None	No	0.01	NP (NDs)
Chromium (mg/L)	BRGWC-35S	0.006498	0.00465	0.1	No	20	0.001627	5	None	No	0.01	Param.
Chromium (mg/L)	BRGWC-36S	0.00809	0.007042	0.1	No	20	0.000922	0	None	No	0.01	Param.
Chromium (mg/L)	BRGWC-37S	0.003	0.0014	0.1	No	20	0.0007519	35	None	No	0.01	NP (normality)
Chromium (mg/L)	BRGWC-38S	0.004047	0.003383	0.1	No	20	0.000701	0	None	x^2	0.01	Param.
Chromium (mg/L)	PZ-13S	0.02349	0.009048	0.1	No	6	0.005255	0	None	No	0.01	Param.
Cobalt (mg/L)	**BRGWC-33S**	**0.05869**	**0.04027**	**0.006**	**Yes**	**21**	**0.01669**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	BRGWC-34S	0.004697	0.003453	0.006	No	20	0.001293	5	None	ln(x)	0.01	Param.
Cobalt (mg/L)	BRGWC-35S	0.0004	0.0003	0.006	No	20	0.0004844	75	None	No	0.01	NP (NDs)
Cobalt (mg/L)	**BRGWC-38S**	**0.2436**	**0.1889**	**0.006**	**Yes**	**20**	**0.0482**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	PZ-13S	0.00037	0.0003	0.006	No	6	0.00002858	83.33	None	No	0.0155	NP (NDs)
Cobalt (mg/L)	PZ-52D	0.003409	0	0.006	No	4	0.0009138	0	None	No	0.01	Param.
Cobalt (mg/L)	PZ-70I	0.0056	0.000682	0.006	No	4	0.002413	0	None	No	0.0625	NP (normality)
Combined Radium 226 + 228 (pCi/L)	BRGWC-17S	0.9328	0.4009	5	No	20	0.4684	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-33S	1.595	0.7056	5	No	20	0.7833	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-34S	1.278	0.8059	5	No	20	0.4156	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-35S	1.577	0.5717	5	No	20	1.031	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-36S	1.808	0.7645	5	No	20	1.144	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-37S	1.015	0.4368	5	No	20	0.5689	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-38S	3.733	2.155	5	No	20	1.527	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-13S	3.665	0.3456	5	No	6	1.539	16.67	Kaplan-Meier	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-53D	4.727	1.463	5	No	4	0.7186	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-70I	4.35	1.55	5	No	4	1.358	0	None	No	0.0625	NP (normality)
Fluoride (mg/L)	BRGWC-17S	0.1933	0.09505	4	No	21	0.1063	4.762	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	BRGWC-33S	0.2158	0.1151	4	No	22	0.104	0	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	BRGWC-34S	0.1457	0.08142	4	No	21	0.07664	4.762	None	x^(1/3)	0.01	Param.
Fluoride (mg/L)	BRGWC-35S	0.1381	0.06358	4	No	21	0.09838	14.29	None	ln(x)	0.01	Param.
Fluoride (mg/L)	BRGWC-36S	0.1584	0.05325	4	No	21	0.1076	42.86	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride (mg/L)	BRGWC-37S	0.105	0.055	4	No	21	0.02827	38.1	None	No	0.01	NP (normality)
Fluoride (mg/L)	BRGWC-38S	0.9105	0.7015	4	No	21	0.2027	0	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	PZ-13S	0.191	0.03553	4	No	6	0.05523	50	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride (mg/L)	PZ-53D	0.4353	0.03119	4	No	4	0.089	0	None	No	0.01	Param.
Fluoride (mg/L)	PZ-52D	1.94	0.14	4	No	4	0.8918	0	None	No	0.0625	NP (normality)

Confidence Intervals Summary Table - All Results

Plant Branch Data: Plant Branch AP Printed 5/31/2024, 11:59 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride (mg/L)	PZ-70I	2.101	0.0002698	4	No	4	0.6276	25	Kaplan-Meier	x^(1/3)	0.01	Param.
Lead (mg/L)	BRGWC-17S	0.0005	0.0001	0.015	No	20	0.0001304	90	None	No	0.01	NP (NDs)
Lead (mg/L)	BRGWC-33S	0.0005	0.000087	0.015	No	21	0.000203	42.86	None	No	0.01	NP (normality)
Lead (mg/L)	BRGWC-34S	0.0005	0.0003	0.015	No	20	0.0001292	85	None	No	0.01	NP (NDs)
Lead (mg/L)	BRGWC-35S	0.0005	0.0002	0.015	No	20	0.000153	80	None	No	0.01	NP (NDs)
Lead (mg/L)	BRGWC-36S	0.0005	0.000047	0.015	No	20	0.0001013	95	None	No	0.01	NP (NDs)
Lead (mg/L)	BRGWC-37S	0.0005	0.0001	0.015	No	20	0.0001231	90	None	No	0.01	NP (NDs)
Lead (mg/L)	BRGWC-38S	0.0005	0.00035	0.015	No	20	0.00007156	30	None	No	0.01	NP (normality)
Lead (mg/L)	PZ-13S	0.0005	0.00035	0.015	No	6	0.00006124	83.33	None	No	0.0155	NP (NDs)
Lithium (mg/L)	BRGWC-17S	0.003	0.001	0.089	No	20	0.00099	65	None	No	0.01	NP (NDs)
Lithium (mg/L)	BRGWC-33S	0.01047	0.009341	0.089	No	21	0.00102	0	None	No	0.01	Param.
Lithium (mg/L)	BRGWC-34S	0.003	0.0009	0.089	No	20	0.001004	70	None	No	0.01	NP (NDs)
Lithium (mg/L)	BRGWC-35S	0.0023	0.0021	0.089	No	20	0.0003611	20	None	No	0.01	NP (normality)
Lithium (mg/L)	BRGWC-36S	0.002372	0.002231	0.089	No	20	0.0002713	25	Kaplan-Meier	sqrt(x)	0.01	Param.
Lithium (mg/L)	BRGWC-38S	0.02245	0.02037	0.089	No	20	0.001828	0	None	No	0.01	Param.
Lithium (mg/L)	PZ-13S	0.003	0.001	0.089	No	6	0.0008803	66.67	None	No	0.0155	NP (NDs)
Lithium (mg/L)	PZ-53D	0.02205	0.0152	0.089	No	4	0.001509	0	None	No	0.01	Param.
Lithium (mg/L)	PZ-70I	0.00615	0.00381	0.089	No	4	0.001157	0	None	No	0.0625	NP (normality)
Mercury (mg/L)	BRGWC-17S	0.000084	0.00006	0.002	No	18	0.000008826	83.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	BRGWC-33S	0.00007	0.00004	0.002	No	19	0.00001395	84.21	None	No	0.01	NP (NDs)
Mercury (mg/L)	BRGWC-34S	0.00007	0.00004	0.002	No	18	0.00002394	77.78	None	No	0.01	NP (NDs)
Mercury (mg/L)	BRGWC-35S	0.00007	0.000067	0.002	No	18	0.00001743	83.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	BRGWC-36S	0.00007	0.000067	0.002	No	18	0.00001631	83.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	BRGWC-37S	0.00011	0.00006	0.002	No	18	0.00001965	83.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	BRGWC-38S	0.0001477	0.00009243	0.002	No	18	0.00005049	22.22	Kaplan-Meier	No	0.01	Param.
Mercury (mg/L)	PZ-70I	0.00409	0	0.002	No	4	0.001431	50	Kaplan-Meier	No	0.01	Param.
Molybdenum (mg/L)	PZ-53D	0.00289	0.001705	0.1	No	4	0.0002609	0	None	No	0.01	Param.
Molybdenum (mg/L)	PZ-70I	0.00142	0.0002	0.1	No	4	0.00061	75	None	No	0.0625	NP (NDs)
Selenium (mg/L)	BRGWC-17S	0.002544	0.001848	0.05	No	20	0.001256	20	Kaplan-Meier	sqrt(x)	0.01	Param.
Selenium (mg/L)	BRGWC-33S	0.00572	0.0032	0.05	No	21	0.002939	42.86	None	No	0.01	NP (normality)
Selenium (mg/L)	BRGWC-36S	0.0046	0.002707	0.05	No	20	0.00183	0	None	sqrt(x)	0.01	Param.
Selenium (mg/L)	BRGWC-38S	0.03921	0.02971	0.05	No	20	0.008372	0	None	No	0.01	Param.
Selenium (mg/L)	PZ-13S	0.003013	0.001373	0.05	No	6	0.00125	16.67	Kaplan-Meier	No	0.01	Param.
Selenium (mg/L)	PZ-70I	0.01072	0.005102	0.05	No	4	0.001237	0	None	No	0.01	Param.
Thallium (mg/L)	BRGWC-17S	0.0006	0.000066	0.002	No	20	0.0001194	95	None	No	0.01	NP (NDs)
Thallium (mg/L)	BRGWC-33S	0.0006	0.00019	0.002	No	21	0.0001882	28.57	None	No	0.01	NP (normality)
Thallium (mg/L)	BRGWC-38S	0.0006	0.0002	0.002	No	20	0.0001864	40	None	No	0.01	NP (normality)

Appendix IV - Trend Test Summary - Significant Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 4/5/2024, 2:53 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Beryllium (mg/L)	**BRGWC-38S**	**-0.0004478**	**-126**	**-66**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**BRGWA-2S (bg)**	**-0.0003042**	**-132**	**-62**	**Yes**	**20**	**10**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**BRGWA-5I (bg)**	**-0.00009177**	**-71**	**-53**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**BRGWC-38S**	**-0.02058**	**-152**	**-62**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.05**	**NP**

Appendix IV - Trend Test Summary - All Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 4/5/2024, 2:53 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Beryllium (mg/L)	BRGWA-2I (bg)	0	0	62	No	20	100	n/a	n/a	0.05	NP
Beryllium (mg/L)	BRGWA-2S (bg)	0	0	62	No	20	100	n/a	n/a	0.05	NP
Beryllium (mg/L)	BRGWA-5I (bg)	0	0	62	No	20	100	n/a	n/a	0.05	NP
Beryllium (mg/L)	BRGWA-5S (bg)	0	0	62	No	20	100	n/a	n/a	0.05	NP
Beryllium (mg/L)	BRGWA-6S (bg)	0	0	62	No	20	100	n/a	n/a	0.05	NP
Beryllium (mg/L)	**BRGWC-38S**	**-0.0004478**	**-126**	**-66**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	BRGWA-2I (bg)	0	-52	-62	No	20	60	n/a	n/a	0.05	NP
Cobalt (mg/L)	**BRGWA-2S (bg)**	**-0.0003042**	**-132**	**-62**	**Yes**	**20**	**10**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**BRGWA-5I (bg)**	**-0.00009177**	**-71**	**-53**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	BRGWA-5S (bg)	0	-45	-62	No	20	70	n/a	n/a	0.05	NP
Cobalt (mg/L)	BRGWA-6S (bg)	0	12	62	No	20	75	n/a	n/a	0.05	NP
Cobalt (mg/L)	BRGWC-33S	-0.004889	-52	-66	No	21	0	n/a	n/a	0.05	NP
Cobalt (mg/L)	**BRGWC-38S**	**-0.02058**	**-152**	**-62**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.05**	**NP**

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FIGURE A.

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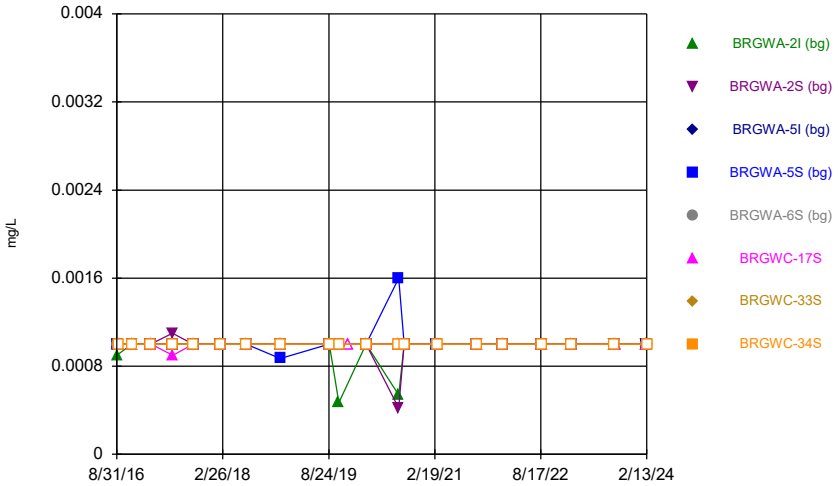
Hollow symbols indicate censored values.

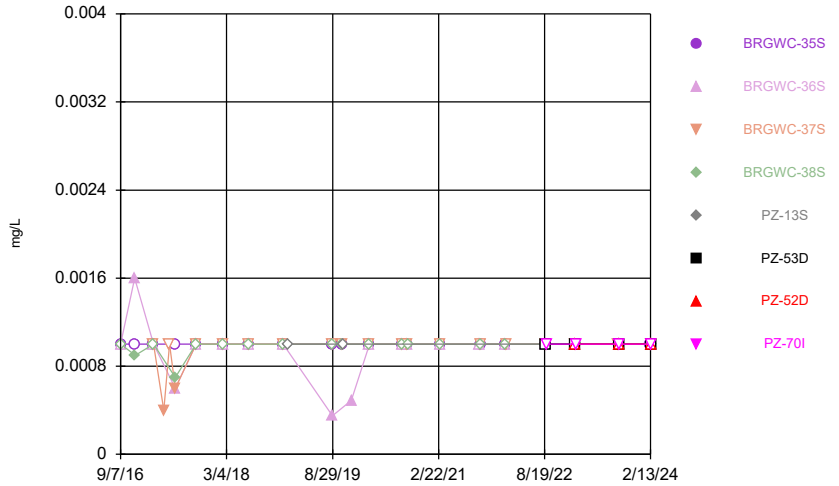
Time Series



Constituent: Antimony Analysis Run 4/5/2024 2:25 PM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Time Series



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Plant Branch Client: Southern Company Data: Plant Branch AP

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Hollow symbols indicate censored values.

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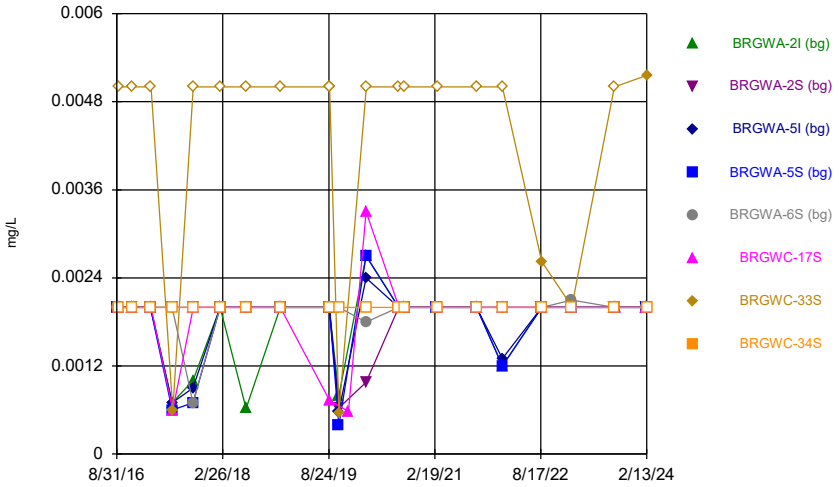
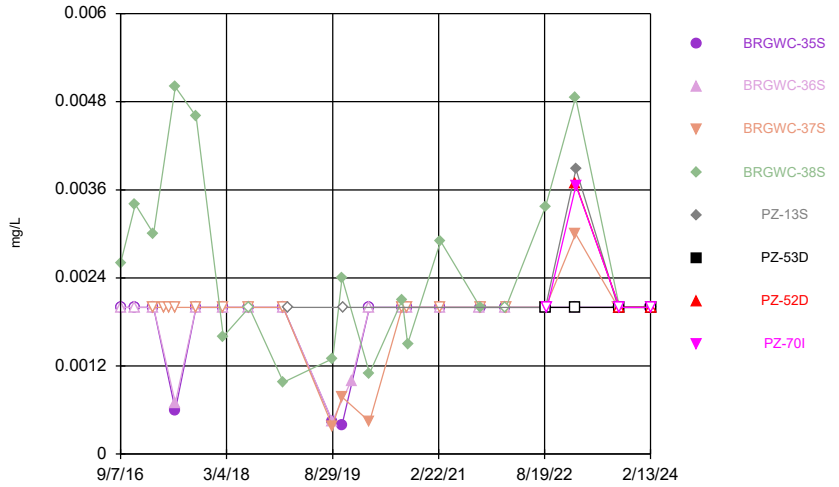


Constituent: Arsenic Analysis Run 4/5/2024 2:25 PM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Time Series



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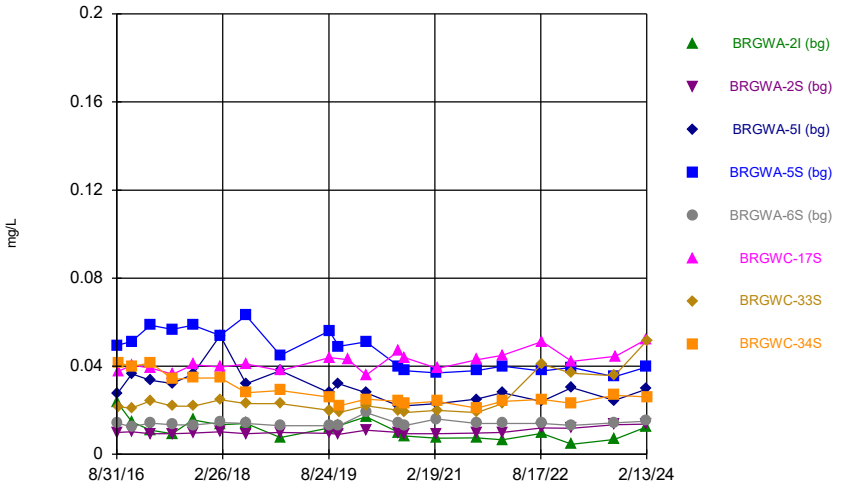
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Time Series



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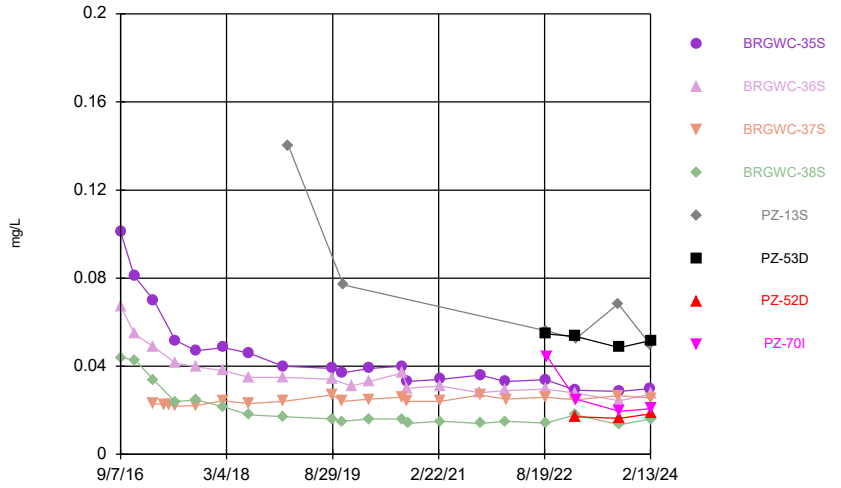
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Time Series



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Plant Branch Client: Southern Company Data: Plant Branch AP

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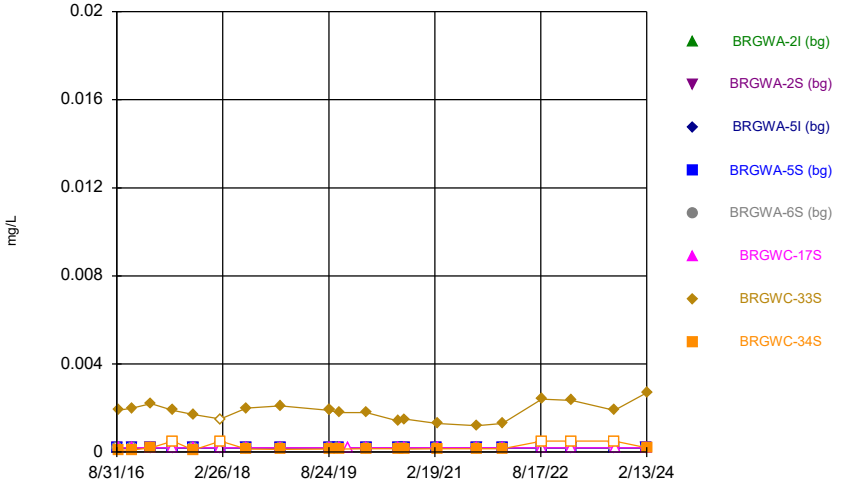

Constituent: Beryllium Analysis Run 4/5/2024 2:25 PM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
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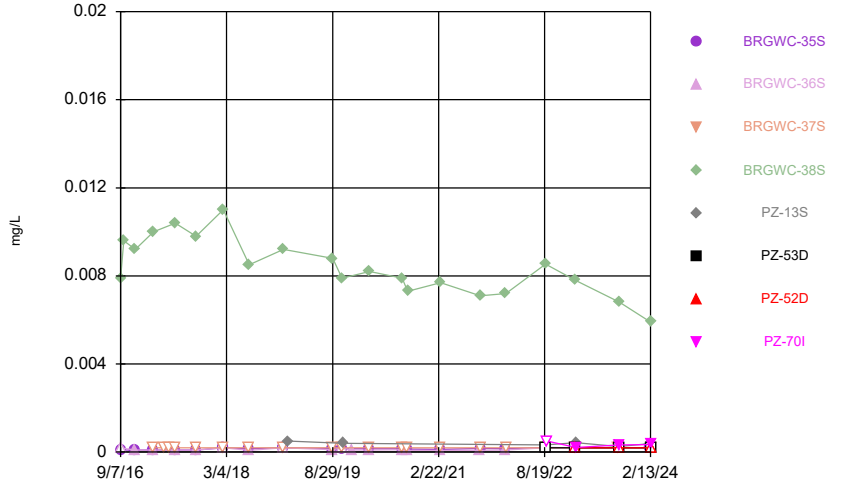
Time Series



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Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
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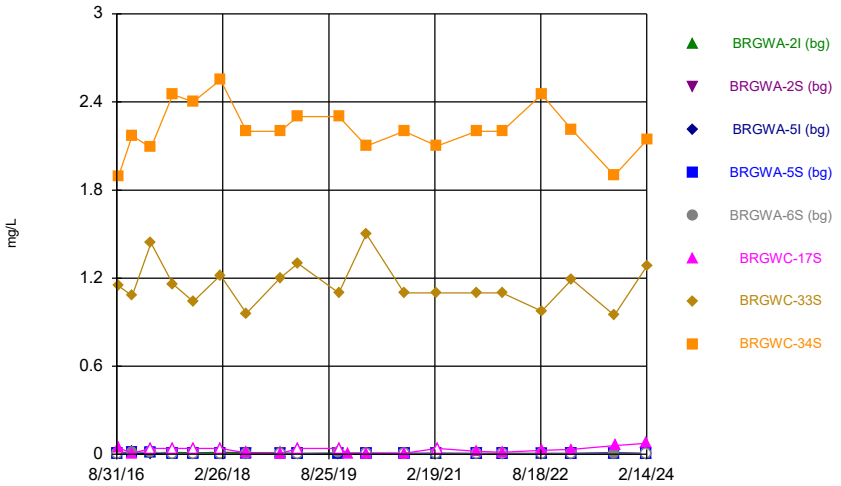
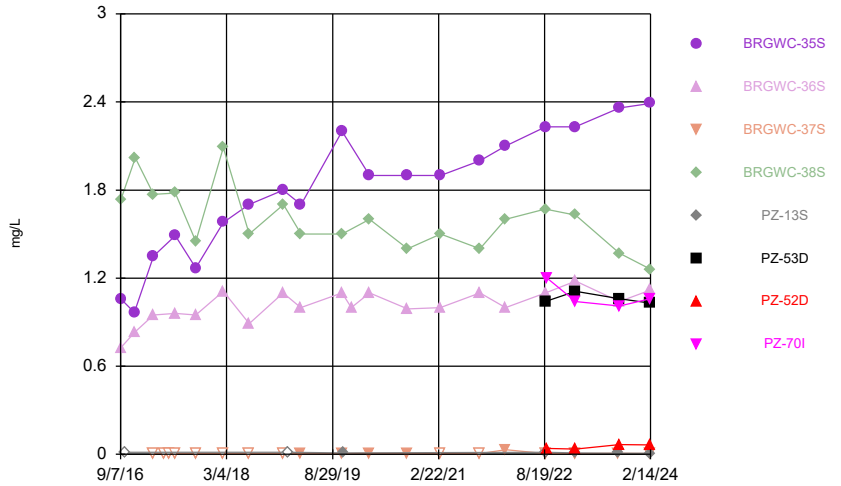
Time Series



Constituent: Boron Analysis Run 4/5/2024 2:25 PM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Time Series



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Plant Branch Client: Southern Company Data: Plant Branch AP

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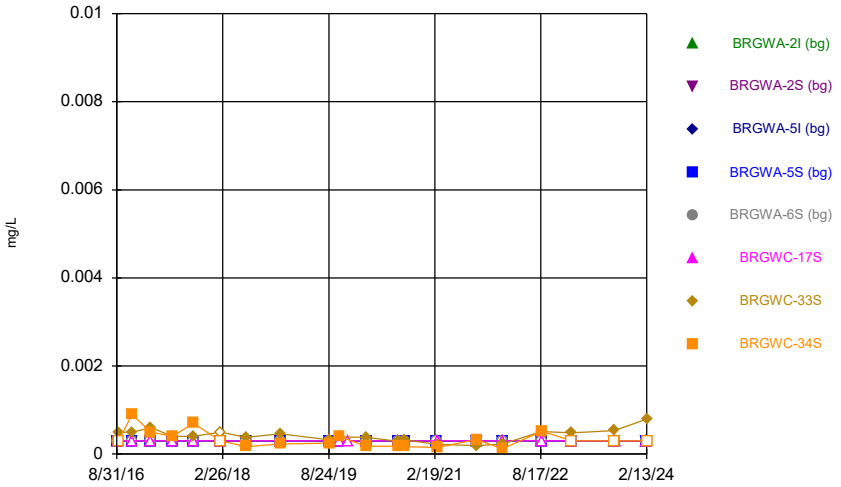
Time Series



Constituent: Cadmium Analysis Run 4/5/2024 2:25 PM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

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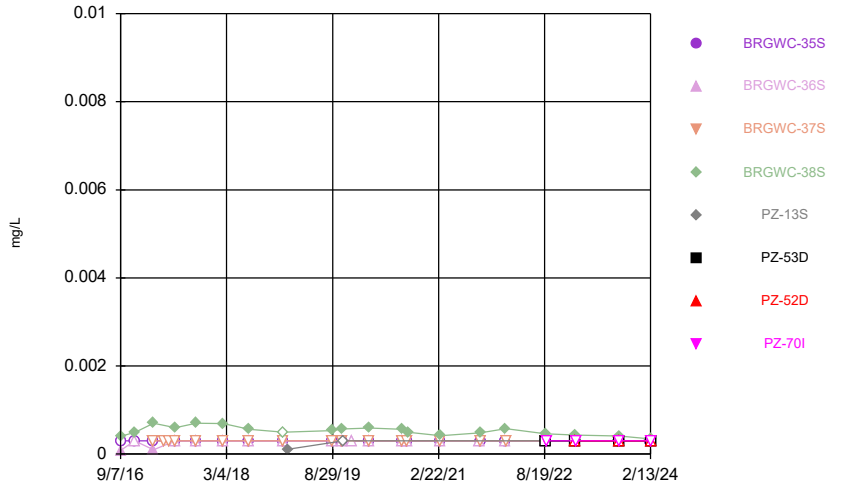
Hollow symbols indicate censored values.

Time Series



Constituent: Cadmium Analysis Run 4/5/2024 2:25 PM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

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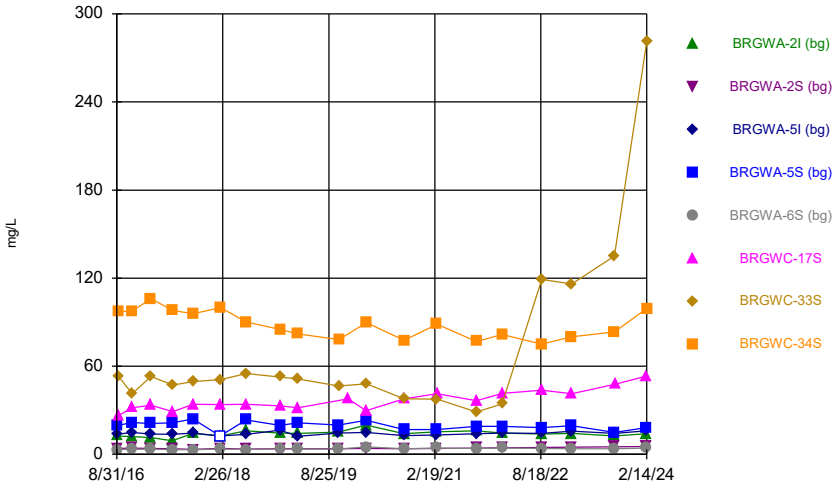
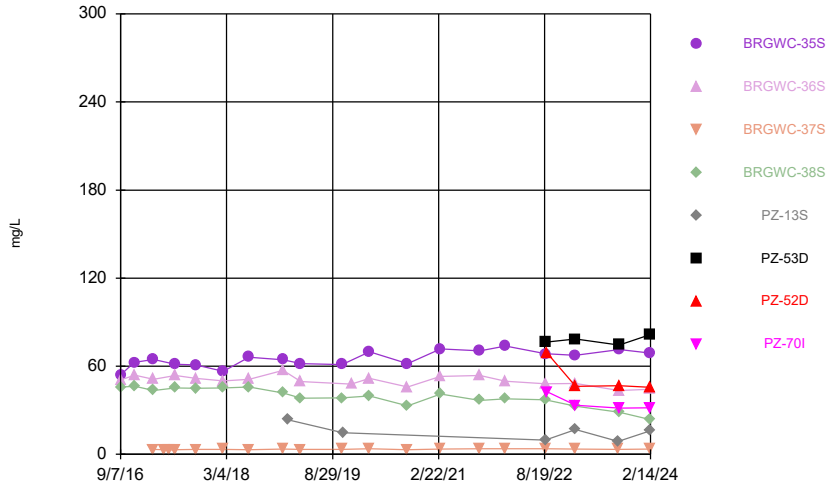
Time Series



Constituent: Calcium Analysis Run 4/5/2024 2:25 PM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Time Series



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Plant Branch Client: Southern Company Data: Plant Branch AP

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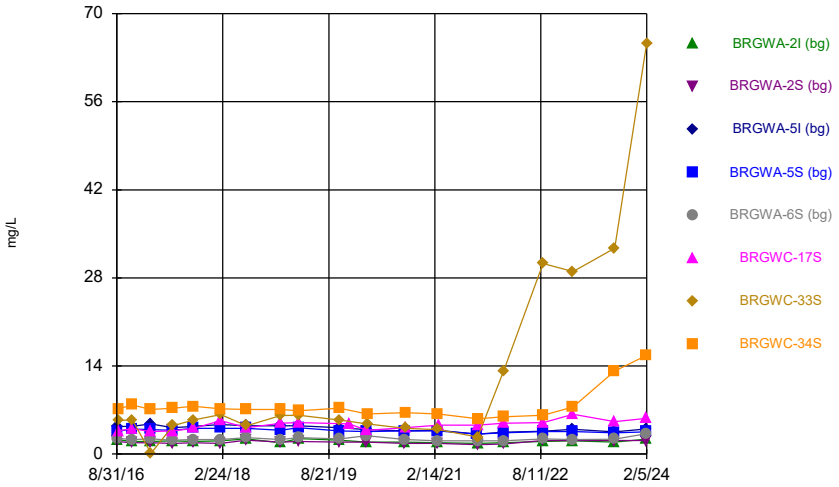
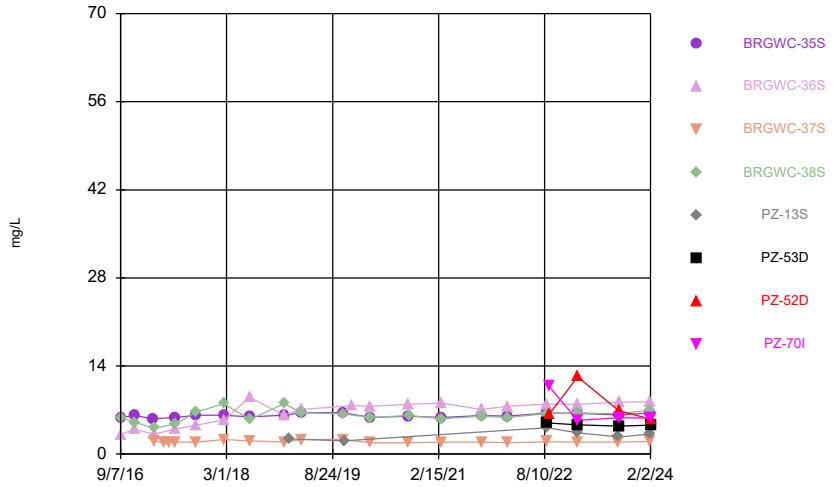
Time Series



Constituent: Chloride Analysis Run 4/5/2024 2:25 PM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

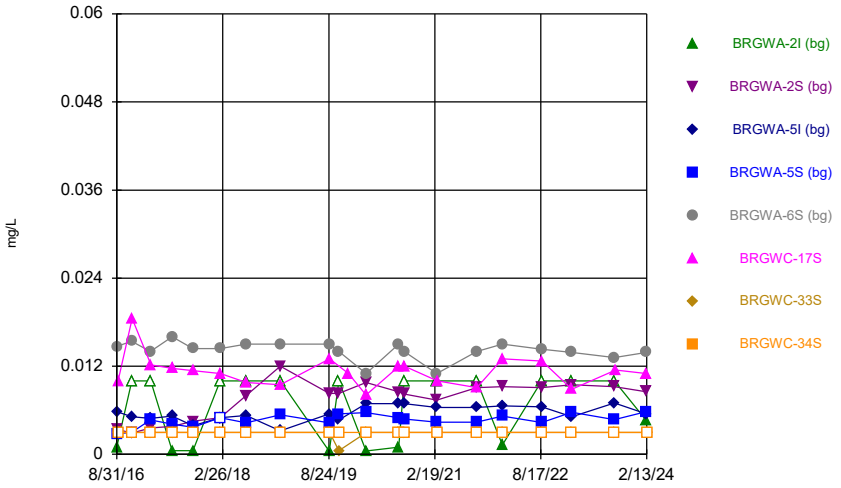
Time Series



Constituent: Chloride Analysis Run 4/5/2024 2:25 PM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Time Series



Constituent: Chromium Analysis Run 4/5/2024 2:25 PM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
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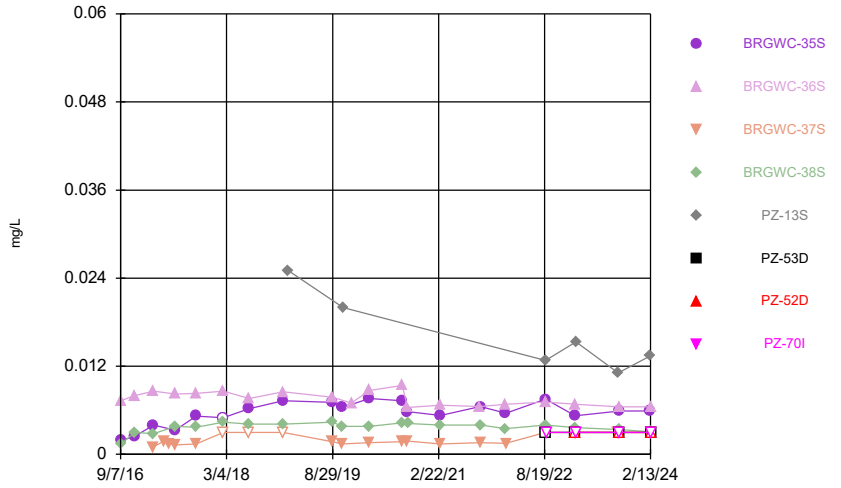
Time Series



Constituent: Chromium Analysis Run 4/5/2024 2:25 PM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

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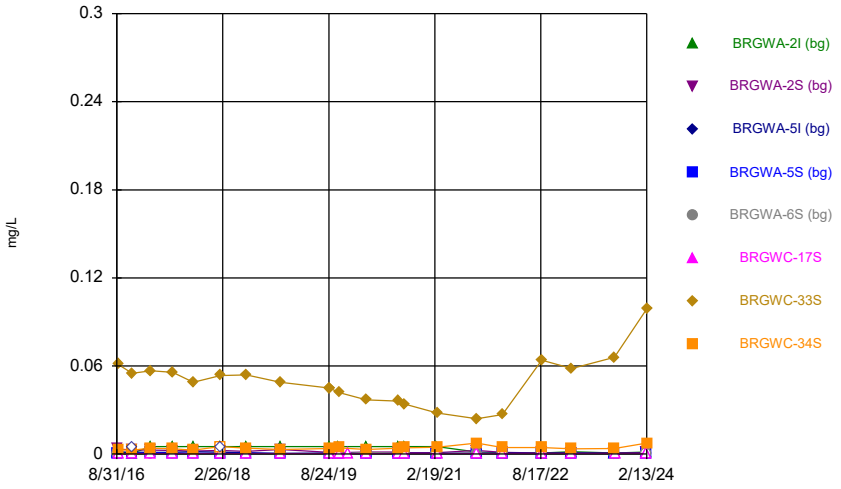
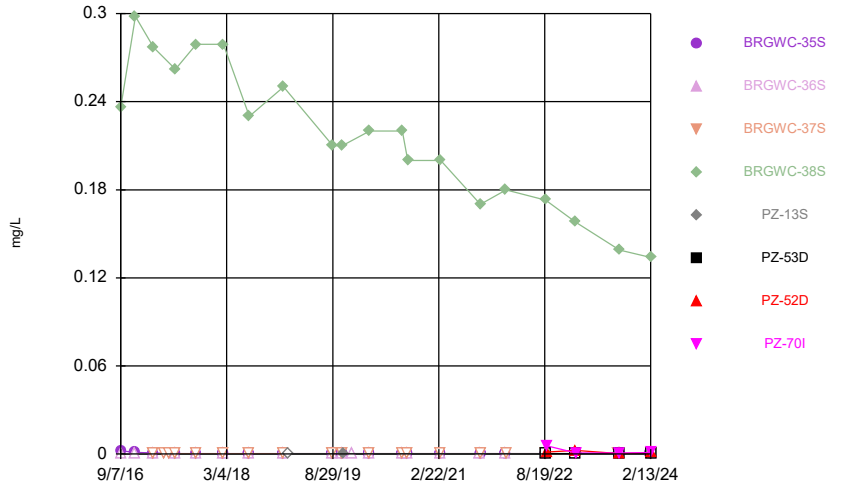


Constituent: Cobalt Analysis Run 4/5/2024 2:25 PM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

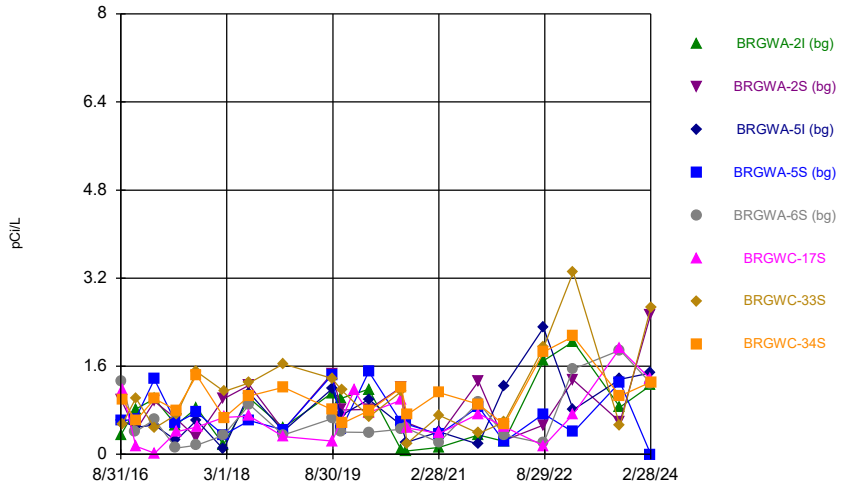
Time Series



Constituent: Cobalt Analysis Run 4/5/2024 2:25 PM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

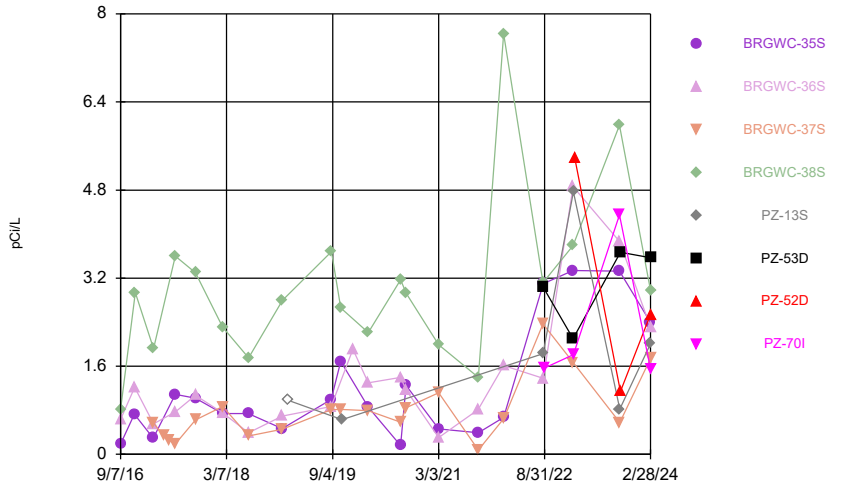
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 4/5/2024 2:25 PM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

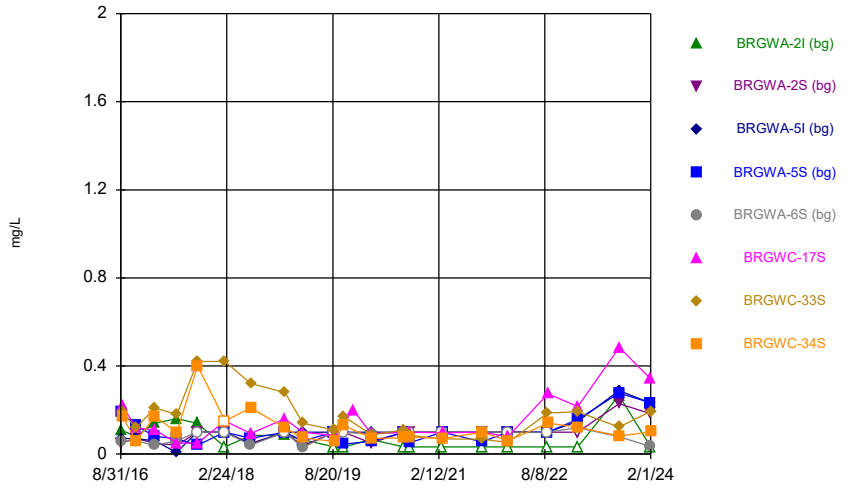
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 4/5/2024 2:25 PM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

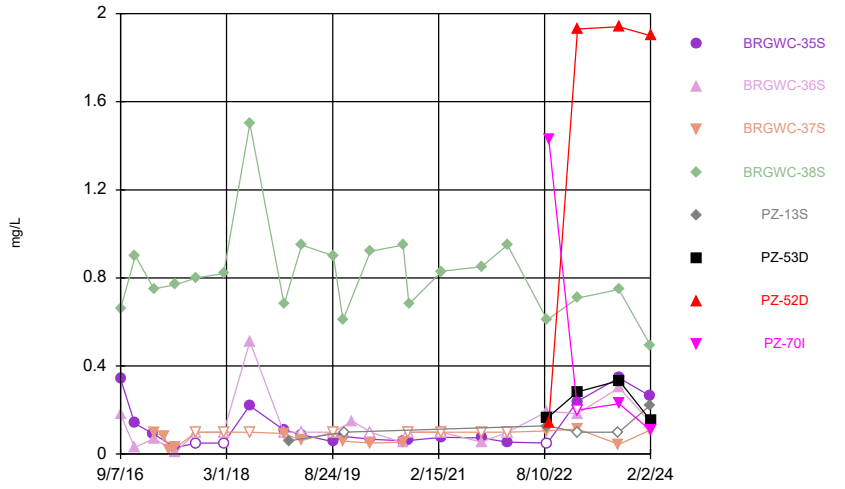
Time Series



Constituent: Fluoride Analysis Run 4/5/2024 2:25 PM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

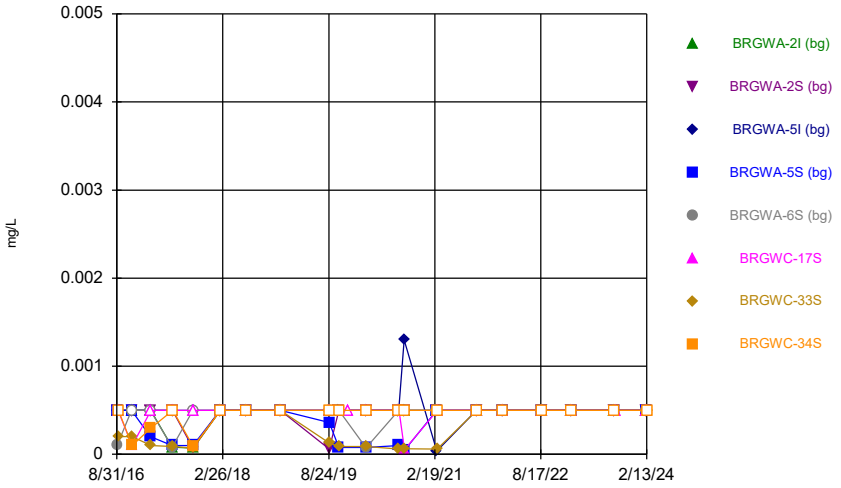
Time Series



Constituent: Fluoride Analysis Run 4/5/2024 2:25 PM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

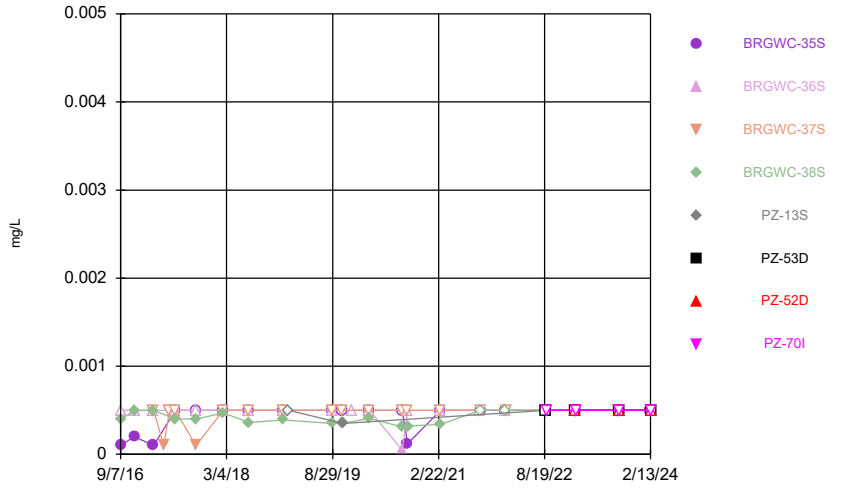
Time Series



Constituent: Lead Analysis Run 4/5/2024 2:25 PM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

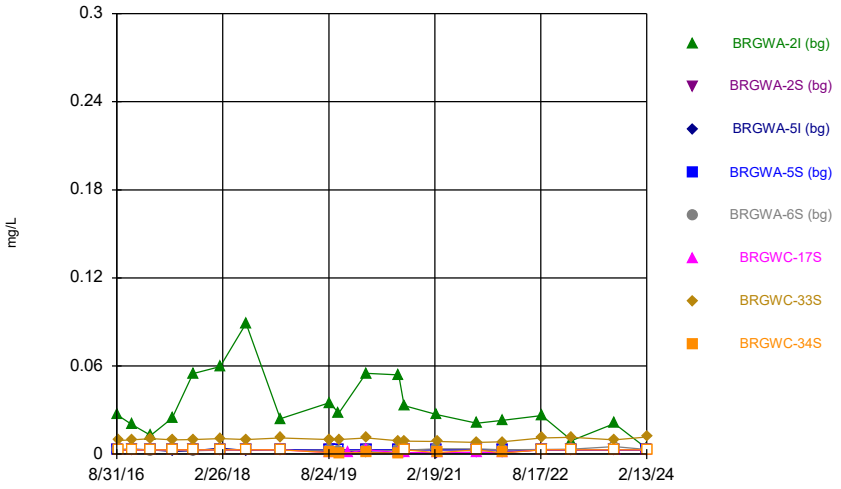
Time Series



Constituent: Lead Analysis Run 4/5/2024 2:25 PM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

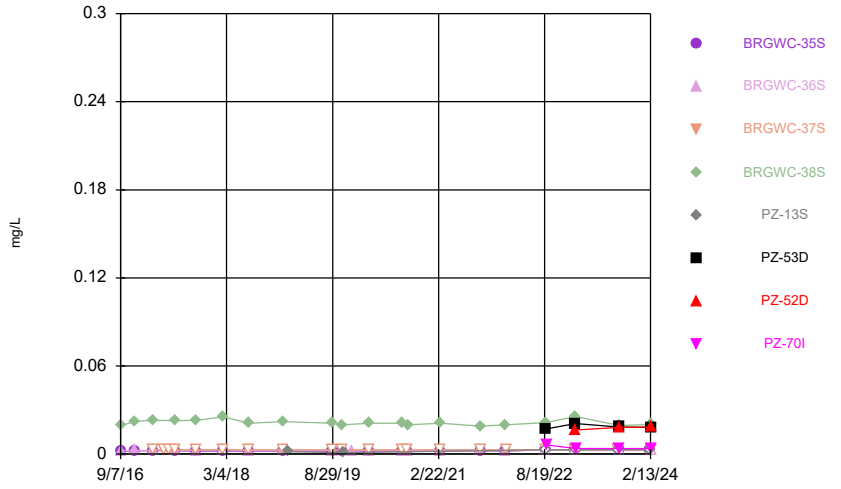
Time Series



Constituent: Lithium Analysis Run 4/5/2024 2:25 PM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

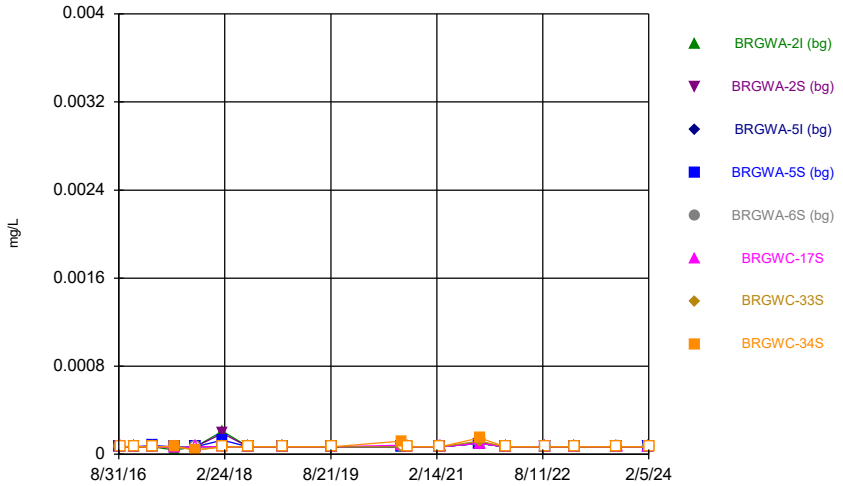
Time Series



Constituent: Lithium Analysis Run 4/5/2024 2:25 PM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

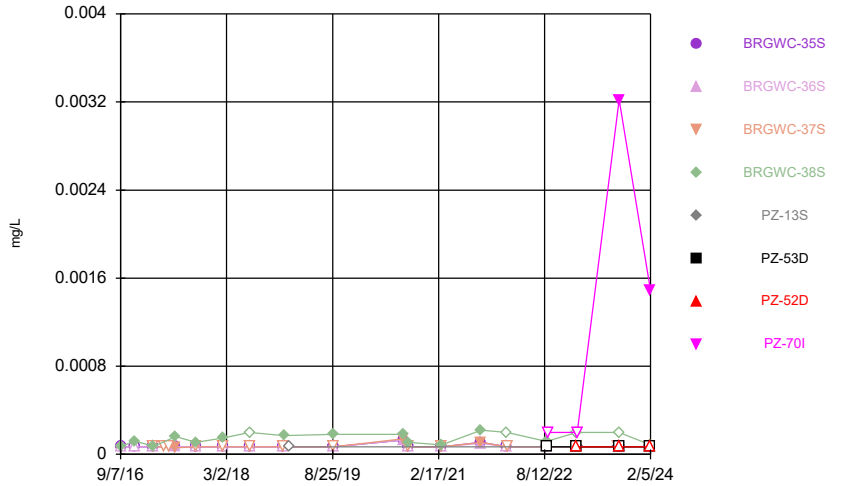
Time Series



Constituent: Mercury Analysis Run 4/5/2024 2:25 PM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

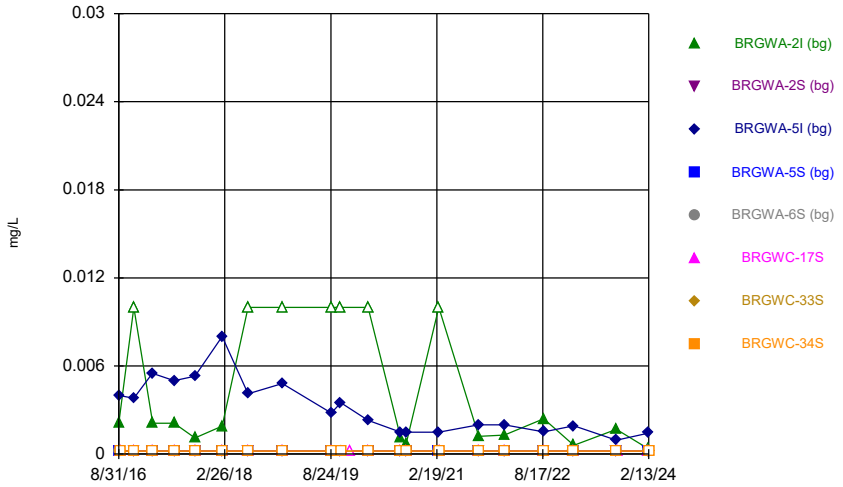
Time Series



Constituent: Mercury Analysis Run 4/5/2024 2:25 PM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

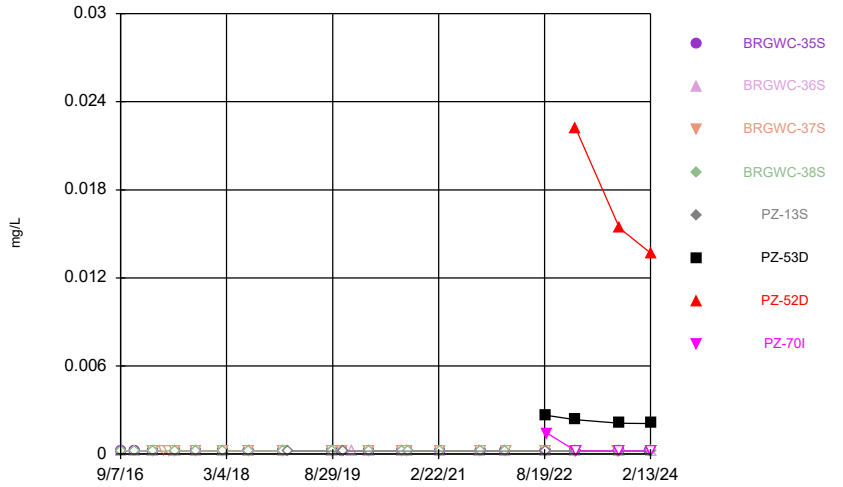
Time Series



Constituent: Molybdenum Analysis Run 4/5/2024 2:25 PM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

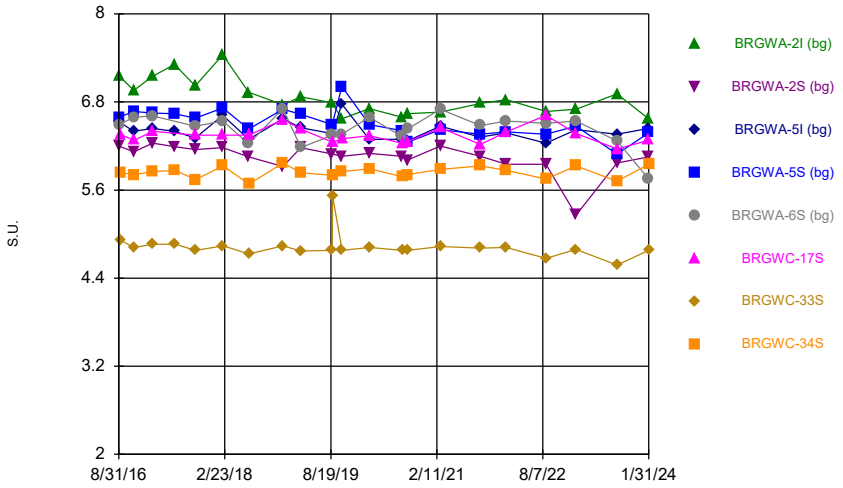
Time Series



Constituent: Molybdenum Analysis Run 4/5/2024 2:25 PM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

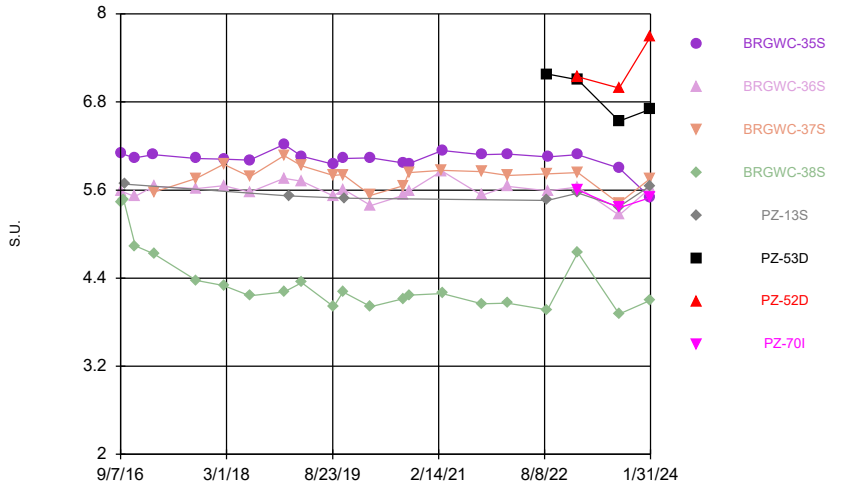
Time Series



Constituent: pH, Field Analysis Run 4/5/2024 2:25 PM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

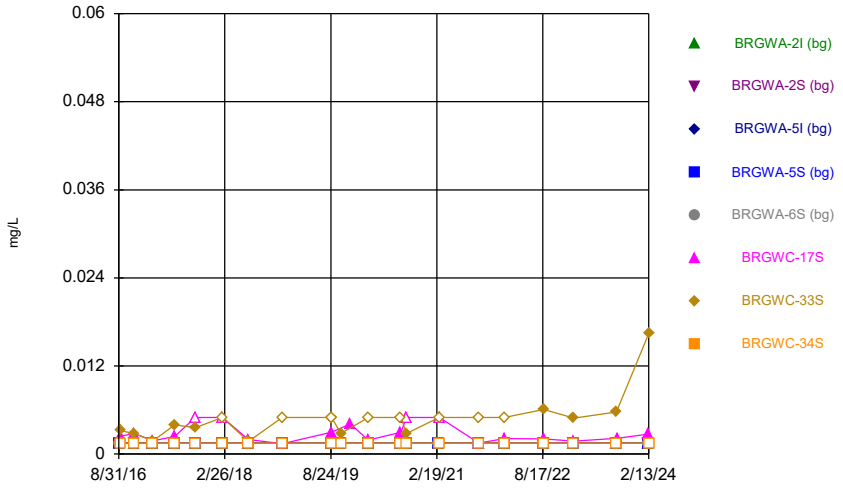
Time Series



Constituent: pH, Field Analysis Run 4/5/2024 2:25 PM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

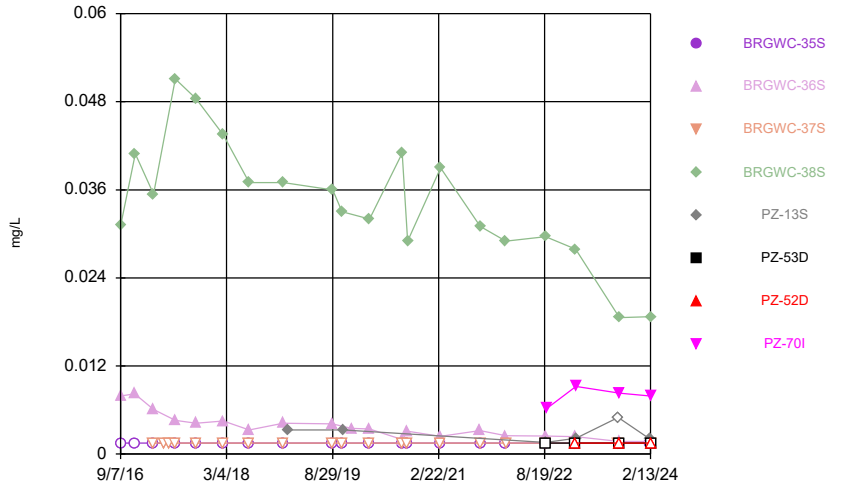
Time Series



Constituent: Selenium Analysis Run 4/5/2024 2:25 PM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

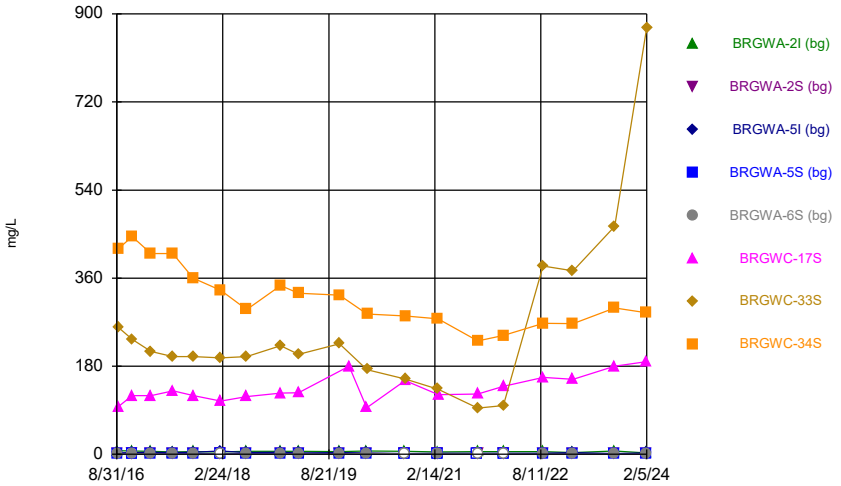
Time Series



Constituent: Selenium Analysis Run 4/5/2024 2:25 PM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

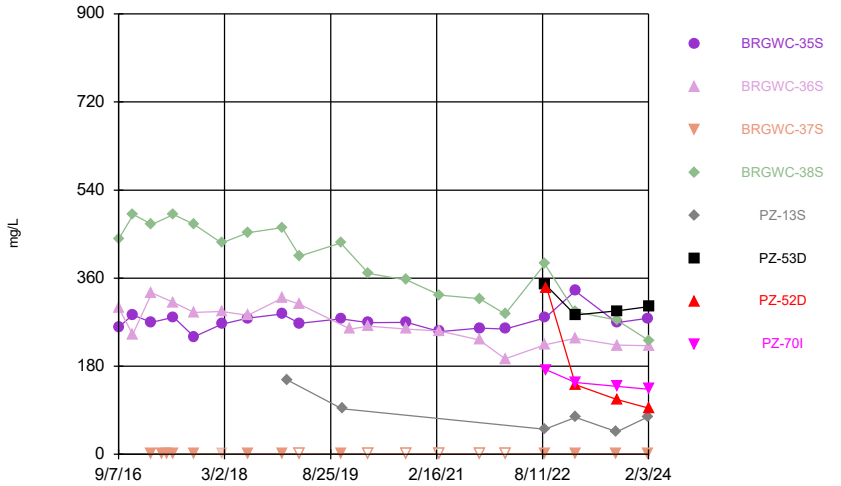
Time Series



Constituent: Sulfate Analysis Run 4/5/2024 2:25 PM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

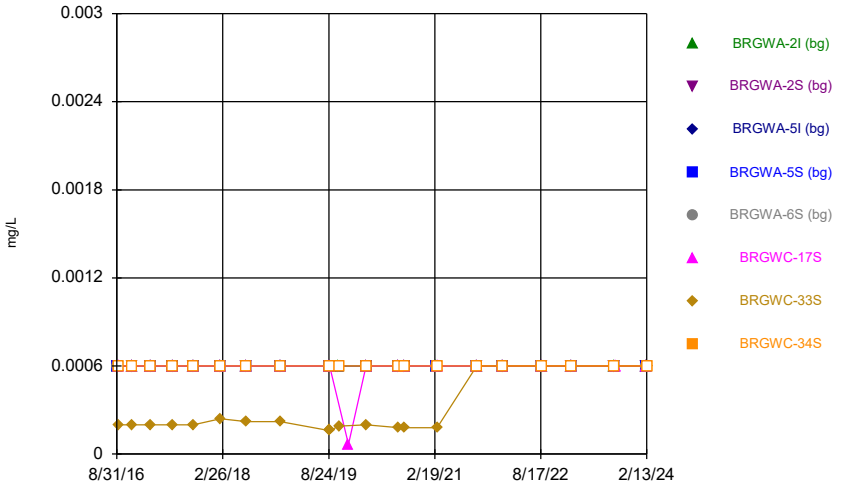
Time Series



Constituent: Sulfate Analysis Run 4/5/2024 2:25 PM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

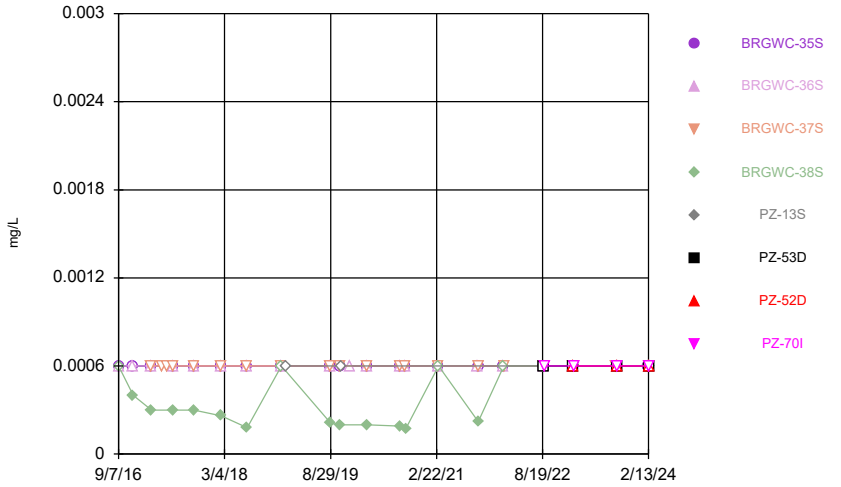
Time Series



Constituent: Thallium Analysis Run 4/5/2024 2:25 PM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Time Series

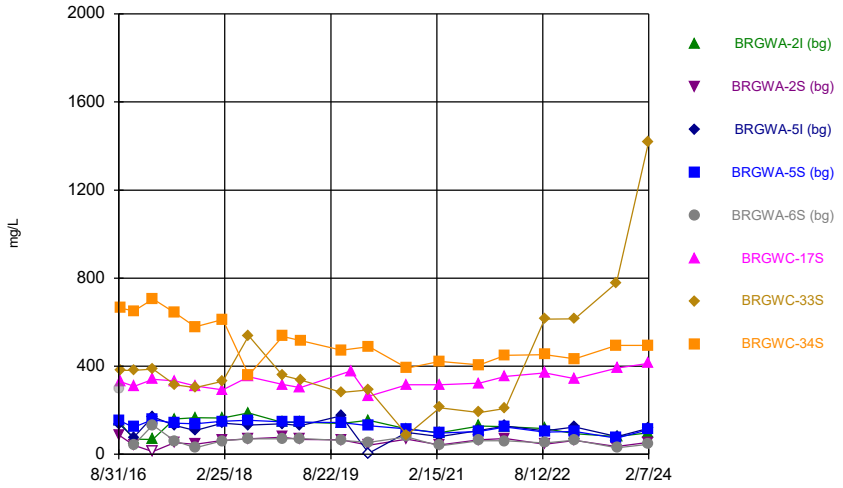


Constituent: Thallium Analysis Run 4/5/2024 2:25 PM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Hollow symbols indicate censored values.

Time Series

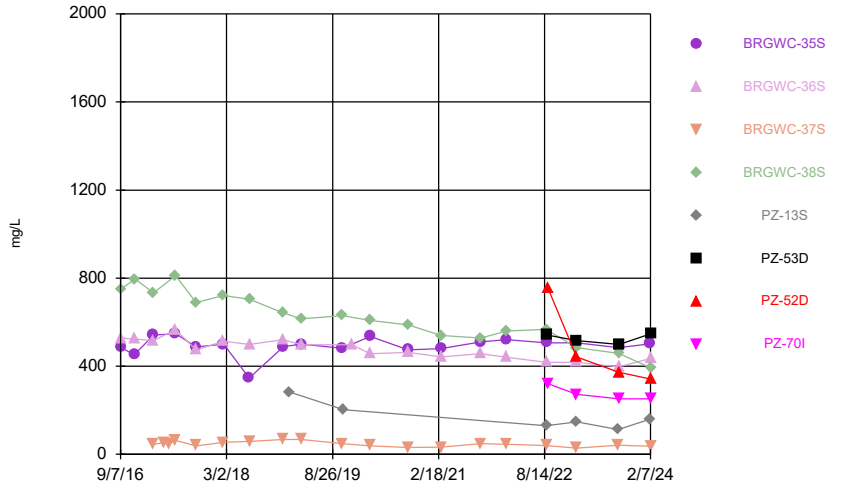


Constituent: Total Dissolved Solids Analysis Run 4/5/2024 2:25 PM View: Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Time Series



Constituent: Total Dissolved Solids Analysis Run 4/5/2024 2:25 PM View: Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/5/2024 2:26 PM View: Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-17S	BRGWC-33S	BRGWC-34S
8/31/2016	0.0009 (J)	<0.001	<0.001	<0.001				
9/1/2016					<0.001			
9/7/2016						<0.001	<0.001	
9/8/2016								<0.001
11/15/2016				<0.001	<0.001			
11/16/2016	<0.001	<0.001	<0.001					
11/17/2016						<0.001	<0.001	<0.001
2/20/2017			<0.001	<0.001	<0.001			
2/21/2017	<0.001	<0.001						
2/22/2017						<0.001	<0.001	<0.001
6/12/2017	<0.001		<0.001	<0.001	<0.001			
6/13/2017		0.0011 (J)						
6/14/2017							<0.001	<0.001
6/15/2017						0.0009 (J)		
9/26/2017	<0.001	<0.001	<0.001	<0.001	<0.001			
9/27/2017							<0.001	<0.001
9/28/2017						<0.001		
2/13/2018	<0.001	<0.001	<0.001	<0.001	<0.001			
2/15/2018						<0.001	<0.001	<0.001
6/26/2018	<0.001	<0.001	<0.001	<0.001	<0.001			
6/27/2018						<0.001	<0.001	<0.001
12/18/2018	<0.001	<0.001	<0.001	0.00087 (J)	<0.001		<0.001	<0.001
12/19/2018						<0.001		
8/27/2019	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	
8/28/2019						<0.001	<0.001	<0.001
10/15/2019	0.00047 (J)	<0.001	<0.001	<0.001	<0.001			
10/16/2019							<0.001	<0.001
12/3/2019						<0.001		
3/3/2020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		
3/5/2020							<0.001	<0.001
8/18/2020	0.00054 (J)	0.00042 (J)	<0.001	0.0016 (J)	<0.001			
8/19/2020						<0.001	<0.001	<0.001
9/15/2020	<0.001	<0.001	<0.001	<0.001	<0.001			
9/16/2020						<0.001	<0.001	<0.001
3/1/2021	<0.001				<0.001			
3/2/2021		<0.001	<0.001	<0.001				
3/3/2021							<0.001	<0.001
3/4/2021						<0.001		
9/21/2021			<0.001	<0.001				
9/22/2021	<0.001	<0.001			<0.001	<0.001	<0.001	<0.001
2/1/2022	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
8/23/2022	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	
8/24/2022						<0.001		<0.001
1/24/2023	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
8/31/2023	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001
9/6/2023						<0.001		
2/10/2024	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		
2/13/2024							<0.001	<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/5/2024 2:26 PM View: Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-13S	PZ-53D	PZ-52D	PZ-70I
9/7/2016	<0.001	<0.001		<0.001				
11/17/2016	<0.001							
11/18/2016		0.0016 (J)						
11/21/2016				0.0009 (J)				
2/22/2017	<0.001							
2/23/2017		<0.001	<0.001	<0.001				
4/17/2017			0.0004 (J)					
5/15/2017			<0.001					
6/15/2017	<0.001	0.0006 (J)	0.0006 (J)	0.0007 (J)				
9/28/2017	<0.001	<0.001	<0.001	<0.001				
2/15/2018	<0.001	<0.001	<0.001	<0.001				
6/27/2018	<0.001							
6/28/2018		<0.001	<0.001	<0.001				
12/19/2018	<0.001	<0.001	<0.001					
12/20/2018				<0.001				
1/15/2019					<0.001			
8/28/2019	<0.001	0.00035 (J)	<0.001					
8/29/2019				<0.001				
10/16/2019	<0.001		<0.001	<0.001				
10/22/2019					<0.001			
12/3/2019		0.00049 (J)						
3/5/2020	<0.001	<0.001	<0.001	<0.001				
8/19/2020	<0.001	<0.001	<0.001	<0.001				
9/16/2020	<0.001	<0.001	<0.001					
9/17/2020				<0.001				
3/3/2021		<0.001	<0.001					
3/4/2021	<0.001			<0.001				
9/22/2021		<0.001						
9/23/2021	<0.001		<0.001	<0.001				
2/1/2022	<0.001	<0.001		<0.001				
2/2/2022			<0.001					
8/23/2022			<0.001	<0.001	<0.001	<0.001		
8/24/2022	<0.001	<0.001						
9/1/2022								<0.001
1/24/2023	<0.001							
1/25/2023		<0.001	<0.001	<0.001		<0.001	<0.001	
1/26/2023					<0.001			<0.001
8/31/2023			<0.001		<0.001			
9/6/2023	<0.001	<0.001		<0.001		<0.001	<0.001	<0.001
2/10/2024	<0.001				<0.001			
2/13/2024		<0.001	<0.001	<0.001		<0.001	<0.001	<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/5/2024 2:26 PM View: Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-17S	BRGWC-33S	BRGWC-34S
8/31/2016	<0.002	<0.002	<0.002	<0.002				
9/1/2016					<0.002			
9/7/2016						<0.002	<0.005	
9/8/2016								<0.002
11/15/2016				<0.002	<0.002			
11/16/2016	<0.002	<0.002	<0.002					
11/17/2016						<0.002	<0.005	<0.002
2/20/2017			<0.002	<0.002	<0.002			
2/21/2017	<0.002	<0.002						
2/22/2017						<0.002	<0.005	<0.002
6/12/2017	0.0007 (J)		0.0007 (J)	0.0006 (J)	<0.002			
6/13/2017		<0.002						
6/14/2017							0.0006 (J)	<0.002
6/15/2017						0.0006 (J)		
9/26/2017	0.001 (J)	<0.002	0.0009 (J)	0.0007 (J)	0.0007 (J)			
9/27/2017							<0.005	<0.002
9/28/2017						<0.002		
2/13/2018	<0.002	<0.002	<0.002	<0.002	<0.002			
2/15/2018						<0.002	<0.005	<0.002
6/26/2018	0.00062 (J)	<0.002	<0.002	<0.002	<0.002			
6/27/2018						<0.002	<0.005	<0.002
12/18/2018	<0.002	<0.002 (X)	<0.002 (X)	<0.002 (X)	<0.002 (X)		<0.005 (X)	<0.002
12/19/2018						<0.002		
8/27/2019	<0.002	<0.002	<0.002	<0.002	<0.002		<0.005	
8/28/2019						0.00073 (J)	<0.005	<0.002
10/15/2019	0.0008 (J)	0.00063 (J)	0.00058 (J)	0.00039 (J)	<0.002			
10/16/2019							0.00056 (J)	<0.002
12/3/2019						0.00058 (J)		
3/3/2020	0.0027 (J)	0.00098 (J)	0.0024 (J)	0.0027 (J)	0.0018 (J)	0.0033 (J)		
3/5/2020							<0.005	<0.002
8/18/2020	<0.002	<0.002	<0.002	<0.002	<0.002			
8/19/2020						<0.002	<0.005	<0.002
9/15/2020	<0.002	<0.002	<0.002	<0.002	<0.002			
9/16/2020						<0.002	<0.005	<0.002
3/1/2021	<0.002				<0.002			
3/2/2021		<0.002	<0.002	<0.002				
3/3/2021							<0.005	<0.002
3/4/2021						<0.002		
9/21/2021			<0.002	<0.002				
9/22/2021	<0.002	<0.002			<0.002	<0.002	<0.005	<0.002
2/1/2022	0.0012 (J)	<0.002	0.0013 (J)	0.0012 (J)	<0.002	<0.002	<0.005	<0.002
8/23/2022	<0.002	<0.002	<0.002	<0.002	<0.002		0.00262 (J)	
8/24/2022						<0.002		<0.002
1/24/2023	<0.002	<0.002	<0.002	<0.002	0.0021 (J)	<0.002	0.00201 (J)	<0.002
8/31/2023	<0.002	<0.002	<0.002	<0.002	<0.002		<0.005	<0.002
9/6/2023						<0.002		
2/10/2024	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002		
2/13/2024							0.00516	<0.002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/5/2024 2:26 PM View: Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-13S	PZ-53D	PZ-52D	PZ-70I
9/7/2016	<0.002	<0.002		0.0026 (J)				
11/17/2016	<0.002							
11/18/2016		<0.002						
11/21/2016				0.0034 (J)				
2/22/2017	<0.002							
2/23/2017		<0.002	<0.002	0.003 (J)				
4/17/2017			<0.002					
5/15/2017			<0.002					
6/15/2017	0.0006 (J)	0.0007 (J)	<0.002	0.005 (J)				
9/28/2017	<0.002	<0.002	<0.002	0.0046 (J)				
2/15/2018	<0.002	<0.002	<0.002	0.0016 (J)				
6/27/2018	<0.002							
6/28/2018		<0.002 (X)	<0.002 (X)	<0.002 (X)				
12/19/2018	<0.002	<0.002	<0.002					
12/20/2018				0.00098 (J)				
1/15/2019					<0.002			
8/28/2019	0.00044 (J)	0.00045 (J)	0.00038 (J)					
8/29/2019				0.0013 (J)				
10/16/2019	0.0004 (J)		0.00078 (J)	0.0024 (J)				
10/22/2019					<0.002			
12/3/2019		0.001 (J)						
3/5/2020	<0.002	<0.002	0.00044 (J)	0.0011 (J)				
8/19/2020	<0.002	<0.002	<0.002	0.0021 (J)				
9/16/2020	<0.002	<0.002	<0.002					
9/17/2020				0.0015 (J)				
3/3/2021		<0.002	<0.002					
3/4/2021	<0.002			0.0029 (J)				
9/22/2021		<0.002						
9/23/2021	<0.002		<0.002	0.002 (J)				
2/1/2022	<0.002	<0.002		<0.002				
2/2/2022			<0.002					
8/23/2022			<0.002	0.00337 (J)	<0.002	<0.002		
8/24/2022	<0.002	<0.002						
9/1/2022								<0.002
1/24/2023	<0.002							
1/25/2023		<0.002	0.003 (J)	0.00486 (J)		<0.002	0.00368 (J)	
1/26/2023					0.00388 (J)			0.00366 (J)
8/31/2023			<0.002		<0.002			
9/6/2023	<0.002	<0.002		<0.002		<0.002	<0.002	<0.002
2/10/2024	<0.002				<0.002			
2/13/2024		<0.002	<0.002	<0.002		<0.002	<0.002	<0.002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Barium (mg/L) Analysis Run 4/5/2024 2:26 PM View: Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-17S	BRGWC-33S	BRGWC-34S
8/31/2016	0.0239	0.0099 (J)	0.0273	0.0495				
9/1/2016					0.0142			
9/7/2016						0.0377	0.0214	
9/8/2016								0.0415
11/15/2016				0.0512	0.0126			
11/16/2016	0.0147	0.0102	0.0365					
11/17/2016						0.0405	0.0211	0.04
2/20/2017			0.0336	0.0586	0.0142			
2/21/2017	0.0109	0.0094 (J)						
2/22/2017						0.0392	0.0243	0.0415
6/12/2017	0.0094 (J)		0.0322	0.0567	0.0134			
6/13/2017		0.0094 (J)						
6/14/2017							0.0218	0.0341
6/15/2017						0.0364		
9/26/2017	0.0156	0.0096 (J)	0.0364	0.0586	0.0133			
9/27/2017							0.0219	0.0347
9/28/2017						0.0408		
2/13/2018	0.0134	0.0102	0.054	0.054	0.0145			
2/15/2018						0.0396	0.0248	0.0346
6/26/2018	0.014	0.0093 (J)	0.032	0.063	0.014			
6/27/2018						0.041	0.023	0.028
12/18/2018	0.0076 (J)	0.01	0.038	0.045	0.013		0.023	0.029
12/19/2018						0.038		
8/27/2019	0.012	0.0095 (J)	0.028	0.056	0.013		0.02	
8/28/2019						0.044	0.02	0.026
10/15/2019	0.013	0.0091 (J)	0.032	0.049	0.013			
10/16/2019							0.019	0.022
12/3/2019						0.043		
3/3/2020	0.017	0.011	0.028	0.051	0.019	0.036		
3/5/2020							0.022	0.025
8/18/2020	0.01 (J)	0.01	0.022	0.04	0.014			
8/19/2020						0.047	0.02	0.024
9/15/2020	0.0083 (J)	0.0094 (J)	0.022	0.038	0.013			
9/16/2020						0.044	0.019	0.023
3/1/2021	0.0074				0.016			
3/2/2021		0.0094	0.023	0.037				
3/3/2021							0.02	0.024
3/4/2021						0.039		
9/21/2021			0.025	0.038				
9/22/2021	0.0075	0.0097			0.014	0.043	0.019	0.021
2/1/2022	0.0066	0.01	0.028	0.04	0.014	0.045	0.023	0.024
8/23/2022	0.00954	0.012	0.0241	0.0379	0.014		0.0409	
8/24/2022						0.0512		0.0249
1/24/2023	0.00453	0.0118	0.0303	0.0394	0.0132	0.0422	0.0368	0.0232
8/31/2023	0.0068	0.0135	0.0245	0.0352	0.0143		0.0357	0.0268
9/6/2023						0.0445		
2/10/2024	0.0124	0.0137	0.0296	0.0396	0.0151	0.0522		
2/13/2024							0.0515	0.0261

Time Series

Constituent: Barium (mg/L) Analysis Run 4/5/2024 2:26 PM View: Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-13S	PZ-53D	PZ-52D	PZ-70I
9/7/2016	0.101	0.0674		0.044				
11/17/2016	0.0808							
11/18/2016		0.0546						
11/21/2016				0.0428 (J)				
2/22/2017	0.0701							
2/23/2017		0.0489	0.0229	0.0338				
4/17/2017			0.0227					
5/15/2017			0.0227					
6/15/2017	0.0518	0.0415	0.0218	0.0239				
9/28/2017	0.047	0.0397	0.0222	0.0247				
2/15/2018	0.0485	0.038	0.0243	0.0215				
6/27/2018	0.046							
6/28/2018		0.035	0.023	0.018				
12/19/2018	0.04	0.035	0.024					
12/20/2018				0.017				
1/15/2019					0.14			
8/28/2019	0.039	0.034	0.027					
8/29/2019				0.016				
10/16/2019	0.037		0.024	0.015				
10/22/2019					0.077			
12/3/2019		0.031						
3/5/2020	0.039	0.033	0.025	0.016				
8/19/2020	0.04	0.037	0.026	0.016				
9/16/2020	0.033	0.03	0.024					
9/17/2020				0.014				
3/3/2021		0.031	0.024					
3/4/2021	0.034			0.015				
9/22/2021		0.028						
9/23/2021	0.036		0.027	0.014				
2/1/2022	0.033	0.029		0.015				
2/2/2022			0.025					
8/23/2022			0.026	0.0141	0.0562	0.0547		
8/24/2022	0.0339	0.0296						
9/1/2022								0.0444
1/24/2023	0.0291							
1/25/2023		0.0278	0.0247	0.018		0.0536	0.0171	
1/26/2023					0.0525			0.025
8/31/2023			0.0266		0.0683			
9/6/2023	0.0286	0.0243		0.0134		0.0485	0.0163	0.0196
2/10/2024	0.0299				0.0499			
2/13/2024		0.0273	0.0256	0.016		0.0517	0.0184	0.0207

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/5/2024 2:26 PM View: Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-17S	BRGWC-33S	BRGWC-34S
8/31/2016	<0.0002	<0.0002	<0.0002	<0.0002				
9/1/2016					<0.0002			
9/7/2016						<0.0002	0.0019 (J)	
9/8/2016								0.0001 (J)
11/15/2016				<0.0002	<0.0002			
11/16/2016	<0.0002	<0.0002	<0.0002					
11/17/2016						<0.0002	0.002 (J)	0.0001 (J)
2/20/2017			<0.0002	<0.0002	<0.0002			
2/21/2017	<0.0002	<0.0002						
2/22/2017						<0.0002	0.0022 (J)	0.0002 (J)
6/12/2017	<0.0002		<0.0002	<0.0002	<0.0002			
6/13/2017		<0.0002						
6/14/2017							0.0019 (J)	<0.0005
6/15/2017						<0.0002		
9/26/2017	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002			
9/27/2017							0.0017 (J)	0.0001 (J)
9/28/2017						<0.0002		
2/13/2018	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002			
2/15/2018						<0.0002	<0.003	<0.0005
6/26/2018	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002			
6/27/2018						<0.0002	0.002 (J)	0.00013 (J)
12/18/2018	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		0.0021 (J)	0.00012 (J)
12/19/2018						<0.0002		
8/27/2019	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		0.0019 (J)	
8/28/2019						<0.0002	0.0019 (J)	0.00014 (J)
10/15/2019	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002			
10/16/2019							0.0018 (J)	0.00014 (J)
10/17/2019						<0.0002		
12/3/2019						<0.0002		
3/3/2020	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		
3/5/2020							0.0018 (J)	0.00015 (J)
8/18/2020	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002			
8/19/2020						<0.0002	0.0014 (J)	0.00015 (J)
9/15/2020	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002			
9/16/2020						<0.0002	0.0015 (J)	0.00014 (J)
3/1/2021	<0.0002				<0.0002			
3/2/2021		<0.0002	<0.0002	<0.0002				
3/3/2021							0.0013	0.00015 (J)
3/4/2021						<0.0002		
9/21/2021			<0.0002	<0.0002				
9/22/2021	<0.0002	<0.0002			<0.0002	<0.0002	0.0012	0.00015 (J)
2/1/2022	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.0013	0.00015 (J)
8/23/2022	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		0.00241	
8/24/2022						<0.0002		<0.0005
1/24/2023	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.00235	<0.0005
8/31/2023	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		0.0019	<0.0005
9/6/2023						<0.0002		
2/10/2024	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		
2/13/2024							0.00269	0.000202 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/5/2024 2:26 PM View: Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-13S	PZ-53D	PZ-52D	PZ-70I
9/7/2016	9E-05 (J)	<0.0002		0.0079				
9/23/2016				0.0096 (R)				
11/17/2016	0.0001 (J)							
11/18/2016		0.0001 (J)						
11/21/2016				0.0092				
2/22/2017	0.0001 (J)							
2/23/2017		0.0001 (J)	<0.0002	0.01				
4/17/2017			<0.0002					
5/15/2017			<0.0002					
6/15/2017	0.0001 (J)	9E-05 (J)	<0.0002	0.0104				
9/28/2017	0.0001 (J)	0.0001 (J)	<0.0002	0.0098				
2/15/2018	<0.0002	<0.0002	<0.0002	0.011 (J)				
6/27/2018	0.00015 (J)							
6/28/2018		8.1E-05 (J)	<0.0002	0.0085				
12/19/2018	<0.0002 (X)	<0.0002 (X)	<0.0002					
12/20/2018				0.0092				
1/15/2019					0.0005 (J)			
8/28/2019	0.00016 (J)	0.00011 (J)	<0.0002					
8/29/2019				0.0088				
10/16/2019	0.00015 (J)		<0.0002	0.0079				
10/17/2019		<0.0002						
10/22/2019					0.0004 (J)			
12/3/2019		9.7E-05 (J)						
3/5/2020	0.00015 (J)	9.2E-05 (J)	<0.0002	0.0082				
8/19/2020	0.00015 (J)	0.00011 (J)	<0.0002	0.0079				
9/16/2020	0.00014 (J)	8E-05 (J)	<0.0002					
9/17/2020				0.0073				
3/3/2021		7.9E-05 (J)	<0.0002					
3/4/2021	0.00012 (J)			0.0077				
9/22/2021		8.4E-05 (J)						
9/23/2021	0.00016 (J)		<0.0002	0.0071				
2/1/2022	0.00015 (J)	8.7E-05 (J)		0.0072				
2/2/2022			<0.0002					
8/23/2022			<0.0002	0.00854	0.000331 (J)	<0.0002		
8/24/2022	0.00021 (J)	<0.0002						
9/1/2022								<0.0005
1/24/2023	<0.0002							
1/25/2023		<0.0002	<0.0002	0.0078		<0.0002	<0.0002	
1/26/2023					0.000422 (J)			0.000217 (J)
8/31/2023			<0.0002		0.000259 (J)			
9/6/2023	0.0002 (J)	<0.0002				<0.0002		
9/7/2023				0.0068			<0.0002	0.000325 (J)
2/10/2024	<0.0002				0.000388 (J)			
2/13/2024		<0.0002	<0.0002	0.00591		<0.0002	<0.0002	0.00034 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 4/5/2024 2:26 PM View: Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-17S	BRGWC-33S	BRGWC-34S
8/31/2016	0.0072 (J)	<0.0052	<0.0052	<0.0052				
9/1/2016					<0.0052			
9/7/2016						0.0449 (J)	1.15	
9/8/2016								1.89
11/15/2016				0.0085 (J)	0.0123 (J)			
11/16/2016	0.0117 (J)	0.0109 (J)	0.0187 (J)					
11/17/2016						0.0067 (J)	1.08	2.17
2/20/2017			0.0066 (J)	0.0093 (J)	0.0157 (J)			
2/21/2017	0.0088 (J)	<0.0052						
2/22/2017						<0.04	1.44	2.09
6/12/2017	0.0133 (J)		<0.0052	<0.0052	<0.0052			
6/13/2017		<0.0052						
6/14/2017							1.16	2.45
6/15/2017						<0.04		
9/26/2017	0.0093 (J)	<0.0052	<0.0052	<0.0052	<0.0052			
9/27/2017							1.04	2.4
9/28/2017						<0.04		
2/13/2018	0.0141 (J)	<0.0052	<0.0052	<0.0052	<0.0052			
2/15/2018						<0.04	1.22	2.55
6/26/2018	0.012 (J)	<0.0052	0.0042 (J)	0.0056 (J)	0.0041 (J)			
6/27/2018						0.0088 (J+X)	0.96 (J+X)	2.2 (J+X)
12/18/2018	0.0086 (J)	<0.0052	<0.0052	0.0062 (J)	<0.0052		1.2	2.2
12/19/2018						0.0045 (J)		
3/19/2019	0.00565 (JD)	<0.0052	<0.0052	<0.0052	<0.0052	<0.04		
3/20/2019							1.3	2.3
10/15/2019	0.0067 (J)	<0.0052	<0.0052	0.006 (J)	0.01 (J)			
10/16/2019							1.1	2.3
10/17/2019						<0.04		
12/3/2019						0.0063 (J)		
3/3/2020	0.0082 (J)	<0.0052	<0.0052	<0.0052	<0.0052	0.0075 (J)		
3/5/2020							1.5	2.1
9/15/2020	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052			
9/16/2020						0.0066 (J)	1.1	2.2
3/1/2021	<0.0052				<0.0052			
3/2/2021		<0.0052	0.0053 (J)	0.0071 (J)				
3/3/2021							1.1	2.1
3/4/2021						<0.04		
9/21/2021			<0.0052	<0.0052				
9/22/2021	<0.0052	<0.0052			<0.0052	0.02 (J)	1.1	2.2
2/1/2022	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	0.013 (J)	1.1	2.2
8/23/2022	0.00592 (J)	0.00532 (J)	<0.0052	0.00538 (J)	<0.0052		0.975	
8/24/2022						0.0273		2.45
1/24/2023	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	0.0326	1.19	2.21
8/31/2023	0.00649 (J)	0.00738 (J)	0.0073 (J)	0.00764 (J)	0.00611 (J)			
9/1/2023							0.946	1.9
9/6/2023						0.0601		
2/12/2024	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	0.0758		
2/14/2024							1.28	2.14

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 4/5/2024 2:26 PM View: Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-13S	PZ-53D	PZ-52D	PZ-70I
9/7/2016	1.06	0.725		1.73				
9/26/2016					<0.015			
11/17/2016	0.967							
11/18/2016		0.831						
11/21/2016				2.02				
2/22/2017	1.35							
2/23/2017		0.949	<0.0052	1.77				
4/17/2017			<0.0052					
5/15/2017			<0.0052					
6/15/2017	1.49	0.961	<0.0052	1.78				
9/28/2017	1.27	0.948	<0.0052	1.45				
2/15/2018	1.58	1.11	<0.0052	2.09				
6/27/2018	1.7 (J+X)							
6/28/2018		0.89	<0.0052 (X)	1.5				
12/19/2018	1.8	1.1	<0.0052					
12/20/2018				1.7				
1/15/2019					<0.015			
3/19/2019		1						
3/20/2019	1.7		0.004 (J)	1.5				
10/16/2019	2.2		0.0055 (J)	1.5				
10/17/2019		1.1						
10/22/2019					0.0098 (J)			
12/3/2019		1						
3/5/2020	1.9	1.1	0.0076 (J)	1.6				
9/16/2020	1.9	0.99	0.0062 (J)					
9/17/2020				1.4				
3/3/2021		1	<0.0052					
3/4/2021	1.9			1.5				
9/22/2021		1.1						
9/23/2021	2		<0.0052	1.4				
2/1/2022	2.1	1		1.6				
2/2/2022			0.032 (J)					
8/23/2022			<0.0052	1.67	<0.015	1.04		
8/24/2022	2.23	1.1						
9/1/2022							0.0403	1.2
1/24/2023	2.23							
1/25/2023		1.18	<0.0052	1.63		1.11	0.0362	
1/26/2023					0.0104 (J)			1.04
8/31/2023			0.00802 (J)		0.00855 (J)			
9/6/2023						1.06		
9/7/2023	2.36	1.04		1.37			0.0668	1.01
2/12/2024	2.39				0.00656 (J)			
2/14/2024		1.12	<0.0052	1.26		1.03	0.0633	1.06

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/5/2024 2:26 PM View: Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-17S	BRGWC-33S	BRGWC-34S
8/31/2016	<0.0003	<0.0003	<0.0003	<0.0003				
9/1/2016					<0.0003			
9/7/2016						<0.0003	0.0005 (J)	
9/8/2016								<0.0003
11/15/2016				<0.0003	<0.0003			
11/16/2016	<0.0003	<0.0003	<0.0003					
11/17/2016						<0.0003	0.0005 (J)	0.0009 (J)
2/20/2017			<0.0003	<0.0003	<0.0003			
2/21/2017	<0.0003	<0.0003						
2/22/2017						<0.0003	0.0006 (J)	0.0005 (J)
6/12/2017	<0.0003		<0.0003	<0.0003	<0.0003			
6/13/2017		<0.0003						
6/14/2017							0.0004 (J)	0.0004 (J)
6/15/2017						<0.0003		
9/26/2017	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003			
9/27/2017							0.0004 (J)	0.0007 (J)
9/28/2017						<0.0003		
2/13/2018	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003			
2/15/2018						<0.0003	<0.001	<0.0003
6/26/2018	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003			
6/27/2018						<0.0003	0.00038 (J)	0.00017 (J)
12/18/2018	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003		0.00046 (J)	0.00023 (J)
12/19/2018						<0.0003		
8/27/2019	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003		0.00032 (J)	
8/28/2019						<0.0003	0.00032 (J)	0.00025 (J)
10/15/2019	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003			
10/16/2019							0.00039 (J)	0.0004 (J)
10/17/2019						<0.0003		
12/3/2019						<0.0003		
3/3/2020	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003		
3/5/2020							0.00038 (J)	0.00018 (J)
8/18/2020	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003			
8/19/2020						<0.0003	0.00029 (J)	0.00018 (J)
9/15/2020	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003			
9/16/2020						<0.0003	0.00032 (J)	0.00017 (J)
3/1/2021	<0.0003				<0.0003			
3/2/2021		<0.0003	<0.0003	<0.0003				
3/3/2021							0.00022 (J)	0.00015 (J)
3/4/2021						<0.0003		
9/21/2021			<0.0003	<0.0003				
9/22/2021	<0.0003	<0.0003			<0.0003	<0.0003	0.00019 (J)	0.00033 (J)
2/1/2022	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	0.00023 (J)	0.00012 (J)
8/23/2022	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003		0.000509 (J)	
8/24/2022						<0.0003		0.000517 (J)
1/24/2023	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	0.000482 (J)	<0.0003
8/31/2023	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003		0.000533 (J)	<0.0003
9/6/2023						<0.0003		
2/10/2024	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003		
2/13/2024							0.000792 (J)	<0.0003

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/5/2024 2:26 PM View: Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-13S	PZ-53D	PZ-52D	PZ-70I
9/7/2016	<0.0003	8E-05 (J)		0.0004 (J)				
11/17/2016	<0.0003							
11/18/2016		<0.0003						
11/21/2016				0.0005 (J)				
2/22/2017	<0.0003							
2/23/2017		0.0001 (J)	<0.0003	0.0007 (J)				
4/17/2017			<0.0003					
5/15/2017			<0.0003					
6/15/2017	<0.0003	<0.0003	<0.0003	0.0006 (J)				
9/28/2017	<0.0003	<0.0003	<0.0003	0.0007 (J)				
2/15/2018	<0.0003	<0.0003	<0.0003	0.00069 (J)				
6/27/2018	<0.0003							
6/28/2018		<0.0003	<0.0003	0.00056 (J)				
12/19/2018	<0.0003	<0.0003 (X)	<0.0003					
12/20/2018				<0.001 (X)				
1/15/2019					0.00011 (J)			
8/28/2019	<0.0003	<0.0003	<0.0003					
8/29/2019				0.00053 (J)				
10/16/2019	<0.0003		<0.0003	0.00057 (J)				
10/17/2019		<0.0003						
10/22/2019					<0.0003			
12/3/2019		<0.0003						
3/5/2020	<0.0003	<0.0003	<0.0003	0.00059 (J)				
8/19/2020	<0.0003	<0.0003	<0.0003	0.00056 (J)				
9/16/2020	<0.0003	<0.0003	<0.0003					
9/17/2020				0.0005 (J)				
3/3/2021		<0.0003	<0.0003					
3/4/2021	<0.0003			0.00042 (J)				
9/22/2021		<0.0003						
9/23/2021	<0.0003		<0.0003	0.00048 (J)				
2/1/2022	<0.0003	<0.0003		0.00058				
2/2/2022			<0.0003					
8/23/2022			<0.0003	0.000459 (J)	<0.0003	<0.0003		
8/24/2022	<0.0003	<0.0003						
9/1/2022								<0.0003
1/24/2023	<0.0003							
1/25/2023		<0.0003	<0.0003	0.00043 (J)		<0.0003	<0.0003	
1/26/2023					<0.0003			<0.0003
8/31/2023			<0.0003		<0.0003			
9/6/2023	<0.0003	<0.0003		0.00041 (J)		<0.0003	<0.0003	<0.0003
2/10/2024	<0.0003				<0.0003			
2/13/2024		<0.0003	<0.0003	0.000342 (J)		<0.0003	<0.0003	<0.0003

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/5/2024 2:26 PM View: Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-17S	BRGWC-33S	BRGWC-34S
8/31/2016	12.6	4.09	13.5	19.6				
9/1/2016					3.3			
9/7/2016						26.3	53.4	
9/8/2016								97.3
11/15/2016				21.7	3.44			
11/16/2016	12.1	4.25	14.9					
11/17/2016						31.8	41.3	97.6
2/20/2017			13.9	21.1	3.52			
2/21/2017	11.4	4.02						
2/22/2017						33.5	53.1	106
6/12/2017	9.34		13.7	21.5	3.11			
6/13/2017		3.84						
6/14/2017							47.1	98
6/15/2017						29		
9/26/2017	14.3	3.31	14.4	24	3.15			
9/27/2017							49.5	95.8
9/28/2017						34.1		
2/13/2018	<25	3.94	<25	<25	3.65			
2/15/2018						33.8	50.9	100
6/26/2018	16 (J)	3.6	13.5 (J)	23.5 (J)	3.3			
6/27/2018						34.1	55.1	90.1
12/18/2018	14.5 (J)	3.8	16.4 (J)	19.8 (J)	3.5		52.7	85.1
12/19/2018						33.1		
3/19/2019	14.3 (JD)	3.9	12.3 (J)	21.4 (J)	3.6	31.6		
3/20/2019							51.4	82
10/15/2019	15.1	3.7	14.4	20	3.5			
10/16/2019							46.5	78.2
12/3/2019						37.7		
3/3/2020	20	4	14.9	23.2	5	29.7		
3/5/2020							48.1	89.6
9/15/2020	14.1	3.9	12.7	16.8	3.7			
9/16/2020						37.9	37.9	77.7
3/1/2021	15.4				4.2			
3/2/2021		4	13.2	16.8				
3/3/2021							37.5	88.6
3/4/2021						41.2		
9/21/2021			14.1	19.1				
9/22/2021	15.9	4.3			4.1	36.4	28.9	76.9
2/1/2022	14.4	4.4	14.5	19.1	4.2	41.5	34.3	81.7
8/23/2022	13.9	4.65	14.3	18.2	3.97		119	
8/24/2022						43.6		75
1/24/2023	14.2	4.86	15.8	19.4	3.9	41.3	116	80
8/31/2023	12.6	5.02	14.3	14.9	3.79			
9/1/2023							135	83.4
9/7/2023						47.9		
2/12/2024	14.1	5.25	16	18.2	4.27	53.3		
2/14/2024							281	99.2

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/5/2024 2:26 PM View: Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-13S	PZ-53D	PZ-52D	PZ-70I
9/7/2016	54.1	50.6		45.9				
11/17/2016	62.6							
11/18/2016		53.9						
11/21/2016				46.4				
2/22/2017	64.6							
2/23/2017		51	3.26	43.5				
4/17/2017			3.23					
5/15/2017			2.97 (B-01)					
6/15/2017	61.3	53.8	3.15	45.3				
9/28/2017	60.8	51.8	3.26	45.1				
2/15/2018	56.6	50.1	3.39	45.3				
6/27/2018	66.2							
6/28/2018		51	3.1	45.9				
12/19/2018	64.4	57.1	3.6					
12/20/2018				41.8				
1/15/2019					23.5 (J)			
3/19/2019		49.5						
3/20/2019	61.8		3.3	38.2				
10/16/2019	61.2		3.4	38.4				
10/22/2019					14.8			
12/3/2019		47.8						
3/5/2020	69.9	51.7	3.7	39.8				
9/16/2020	61.8	45.9	3.2					
9/17/2020				33.1				
3/3/2021		53	3.6					
3/4/2021	71.8			41				
9/22/2021		53.7						
9/23/2021	70.5		3.7	36.8				
2/1/2022	73.8	49.7		37.8				
2/2/2022			3.7					
8/23/2022			3.7	37.1	9.69	76.4		
8/24/2022	68.5	48.1						
9/1/2022							69	42.6
1/24/2023	67.5							
1/25/2023		48.2	3.65	32.8		78.5	46.3	
1/26/2023					16.8			33.4
8/31/2023			3.47		8.74			
9/6/2023		43.4				74.4		
9/7/2023	71.4			28.7			46.7	31.4
2/12/2024	68.9				15.9			
2/13/2024		44.4	3.54	23.7			45.6	31.6
2/14/2024						81.7		

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/5/2024 2:26 PM View: Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-17S	BRGWC-33S	BRGWC-34S
8/31/2016	2.3	2	4.4	3.6				
9/1/2016					2.5			
9/7/2016						3.7	5.3	
9/8/2016								7.2
11/15/2016				4	2.3			
11/16/2016	2	1.8	4.4					
11/17/2016						4.05 (D)	5.45 (D)	7.8 (D)
2/20/2017			4.8	3.9	2.4			
2/21/2017	2	1.8						
2/22/2017						3.6	0.12 (J)	7.1
6/12/2017	2.1		4.2	3.8	2.2			
6/13/2017		1.7						
6/14/2017							4.5	7.3
6/15/2017						3.7		
9/26/2017	2	1.8	4.4	4.1	2.3			
9/27/2017							5.4	7.6
9/28/2017						4.1		
2/13/2018	2.1	1.7	4.7	4.1	2.3			
2/15/2018						5.3	6.3	7.2
6/26/2018	2.4	2.2	4.5	4.1	2.6			
6/27/2018						4.2	4.5	7.1
12/18/2018	1.8	1.9	4.5	3.8	2.3		6.1	7.1
12/19/2018						4.9 (J-X)		
3/19/2019	2.45 (D)	2	4.5	4.2	2.6	5		
3/20/2019							6.2	6.9
10/15/2019	2.2	1.9	4.2	3.7	2.4			
10/16/2019							5.4	7.3
12/3/2019						4.8		
3/3/2020	1.9	1.9	3.9	3.6	2.9	3.8		
3/5/2020							4.8	6.4
9/15/2020	1.9	1.7	3.7	3.7	2.3			
9/16/2020						4.2	4.1	6.6
3/1/2021	1.8				2.1			
3/2/2021		1.7	3.8	3.7				
3/3/2021							3.9	6.4
3/4/2021						4.6		
9/21/2021			3.2	3.2				
9/22/2021	1.7	1.5			2.1	4.6	2.7	5.6
2/1/2022	1.8	1.6	3.5	3.4	2.1	4.9	13.1	5.9
8/23/2022	2.02	2.18	3.64	3.59	2.39		30.3	
8/24/2022						5		6.17
1/24/2023	2.09	2.16	3.93	3.56	2.3	6.31	29	7.5
8/23/2023	1.9	2.14	3.53	3.37	2.34			
8/24/2023						5.18	32.7	13.2
1/31/2024	2.35	2.14	3.98	3.52	3.23	5.69		
2/3/2024								15.7
2/5/2024							65.3	

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/5/2024 2:26 PM View: Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-13S	PZ-53D	PZ-52D	PZ-70I
9/7/2016	5.8	3.1		5.8				
11/17/2016	6.1 (D)							
11/18/2016		3.95 (D)						
11/21/2016				5.05 (D)				
2/22/2017	5.6							
2/23/2017		3.2	2.1	4.1				
4/17/2017			1.8					
5/15/2017			1.8					
6/15/2017	5.8	4	1.9	4.8				
9/28/2017	6.2	4.6	1.9	6.7				
2/15/2018	6.2	5.4	2.3	8				
6/27/2018	5.9							
6/28/2018		9 (J-X)	2.1 (J-X)	5.5 (J-X)				
12/19/2018	6.2 (J-X)	6.2 (J-X)	1.9 (J-X)					
12/20/2018				8 (J-X)				
1/15/2019					2.4			
3/19/2019		7.1						
3/20/2019	6.6		2.3	6.6				
10/16/2019	6.6		2.3	6.4				
10/22/2019					2.1			
12/3/2019		7.7						
3/5/2020	5.8	7.6	1.8	5.8				
9/16/2020	6	7.9	1.8					
9/17/2020				6.1				
3/3/2021		8.1	1.9					
3/4/2021	5.8			5.6				
9/22/2021		7.1						
9/23/2021	6.1		1.9	6				
2/1/2022	6	7.6		5.8				
2/2/2022			1.8					
8/23/2022			1.97	6.42	4.2	4.94		
8/24/2022	6.53	7.96						
9/1/2022							6.24	10.8
1/24/2023	6.46							
1/25/2023		7.93	1.92	6.53		4.66		
1/26/2023					3.36		12.3	5.37
8/23/2023			1.89		2.73			
8/24/2023	6.21	8.26		6.44			6.9	5.75
8/25/2023						4.43		
1/31/2024	6.51				3.19			
2/1/2024		8.32	2	7				
2/2/2024						4.58	5.59	5.74

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/5/2024 2:26 PM View: Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-17S	BRGWC-33S	BRGWC-34S
8/31/2016	0.001 (J)	0.0034 (J)	0.0058 (J)	0.0028 (J)				
9/1/2016					0.0147			
9/7/2016						0.01 (J)	<0.003	
9/8/2016								<0.003
11/15/2016				0.003 (J)	0.0154 (B)			
11/16/2016	<0.01	0.0029 (J)	0.0051 (J)					
11/17/2016						0.0185	<0.003	<0.003
2/20/2017			0.0049 (J)	0.0047 (J)	0.014			
2/21/2017	<0.01	0.0036 (J)						
2/22/2017						0.0122	<0.003	<0.003
6/12/2017	0.0005 (J)		0.0052 (J)	0.0041 (J)	0.016			
6/13/2017		0.0038 (J)						
6/14/2017							<0.003	<0.003
6/15/2017						0.0117		
9/26/2017	0.0005 (J)	0.0045 (J)	0.0039 (J)	0.0037 (J)	0.0144			
9/27/2017							<0.003	<0.003
9/28/2017						0.0114		
2/13/2018	<0.01	<0.01	<0.01	<0.01	0.0144			
2/15/2018						0.011	<0.003	<0.003
6/26/2018	<0.01	0.008 (J)	0.0053 (J)	0.0043 (J)	0.015			
6/27/2018						0.0098 (J)	<0.003	<0.003
12/18/2018	<0.01	0.012	0.0032 (J)	0.0054 (J)	0.015		<0.003	<0.003
12/19/2018						0.0095 (J)		
8/27/2019	0.0004 (J)	0.0083 (J)	0.0055 (J)	0.0043 (J)	0.015		<0.003	
8/28/2019						0.013	<0.003	<0.003
10/15/2019	<0.01	0.0083 (J)	0.0047 (J)	0.0055 (J)	0.014			
10/16/2019							0.00049 (J)	<0.003
12/3/2019						0.011		
3/3/2020	0.00047 (J)	0.0098 (J)	0.0069 (J)	0.0057 (J)	0.011	0.0081 (J)		
3/5/2020							<0.003	<0.003
8/18/2020	0.00096 (J)	0.0085 (J)	0.0069 (J)	0.005 (J)	0.015			
8/19/2020						0.012	<0.003	<0.003
9/15/2020	<0.01	0.0082 (J)	0.0069 (J)	0.0048 (J)	0.014			
9/16/2020						0.012	<0.003	<0.003
3/1/2021	<0.01				0.011			
3/2/2021		0.0074	0.0064	0.0044 (J)				
3/3/2021							<0.003	<0.003
3/4/2021						0.01		
9/21/2021			0.0064	0.0044 (J)				
9/22/2021	<0.01	0.0091			0.014	0.0091	<0.003	<0.003
2/1/2022	0.0013 (J)	0.0092	0.0066	0.0052	0.015	0.013	<0.003	<0.003
8/23/2022	<0.01	0.00908 (J)	0.00647 (J)	0.00435 (J)	0.0143		<0.003	
8/24/2022						0.0127		<0.003
1/24/2023	<0.01	0.0095 (J)	0.00513 (J)	0.00572 (J)	0.0139	0.00886 (J)	<0.003	<0.003
8/31/2023	<0.01	0.00921 (J)	0.00701 (J)	0.00472 (J)	0.0132		<0.003	<0.003
9/6/2023						0.0115		
2/10/2024	0.00458 (J)	0.00854 (J)	0.00551 (J)	0.00582 (J)	0.0139	0.011		
2/13/2024							<0.003	<0.003

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/5/2024 2:26 PM View: Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-13S	PZ-53D	PZ-52D	PZ-70I
9/7/2016	0.0019 (J)	0.0073 (J)		0.0014 (J)				
11/17/2016	0.0024 (J)							
11/18/2016		0.008 (J)						
11/21/2016				0.003 (J)				
2/22/2017	0.004 (J)							
2/23/2017		0.0086 (J)	0.001 (J)	0.0028 (J)				
4/17/2017			0.0018 (J)					
5/15/2017			0.0014 (J)					
6/15/2017	0.0033 (J)	0.0082 (J)	0.0013 (J)	0.0038 (J)				
9/28/2017	0.0052 (J)	0.0083 (J)	0.0014 (J)	0.0037 (J)				
2/15/2018	<0.01	0.0086 (J)	<0.003	0.0044 (J)				
6/27/2018	0.0062 (J)							
6/28/2018		0.0076 (J)	<0.003	0.0041 (J)				
12/19/2018	0.0073 (J)	0.0085 (J)	<0.003					
12/20/2018				0.0041 (J)				
1/15/2019					0.025			
8/28/2019	0.0071 (J)	0.0078 (J)	0.0017 (J)					
8/29/2019				0.0044 (J)				
10/16/2019	0.0064 (J)		0.0014 (J)	0.0038 (J)				
10/22/2019					0.02			
12/3/2019		0.007 (J)						
3/5/2020	0.0076 (J)	0.0087 (J)	0.0016 (J)	0.0038 (J)				
8/19/2020	0.0073 (J)	0.0094 (J)	0.0017 (J)	0.0043 (J)				
9/16/2020	0.0058 (J)	0.0064 (J)	0.0018 (J)					
9/17/2020				0.0042 (J)				
3/3/2021		0.0067	0.0014 (J)					
3/4/2021	0.0053			0.004 (J)				
9/22/2021		0.0065						
9/23/2021	0.0065		0.0016 (J)	0.004 (J)				
2/1/2022	0.0056	0.0068		0.0035 (J)				
2/2/2022			0.0015 (J)					
8/23/2022			<0.003	0.00398 (J)	0.0128	<0.003		
8/24/2022	0.00752 (J)	0.00713 (J)						
9/1/2022								<0.003
1/24/2023	0.00524 (J)							
1/25/2023		0.00682 (J)	<0.003	0.00362 (J)		<0.003	<0.003	
1/26/2023					0.0153			<0.003
8/31/2023			<0.003		0.0111			
9/6/2023	0.00592 (J)	0.00649 (J)		0.00338 (J)		<0.003	<0.003	<0.003
2/10/2024	0.0059 (J)				0.0134			
2/13/2024		0.00648 (J)	<0.003	0.00305 (J)		<0.003	<0.003	<0.003

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/5/2024 2:26 PM View: Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-17S	BRGWC-33S	BRGWC-34S
8/31/2016	0.0016 (J)	0.0034 (J)	0.0013 (J)	<0.0003				
9/1/2016					<0.0003			
9/7/2016						<0.0003	0.0612	
9/8/2016								0.0029 (J)
11/15/2016				<0.0003	<0.0003			
11/16/2016	0.0006 (J)	0.003 (J)	<0.01 (o)					
11/17/2016						<0.0003	0.0551	0.0028 (J)
2/20/2017			0.0012 (J)	0.0009 (J)	<0.0003			
2/21/2017	<0.005	0.0028 (J)						
2/22/2017						<0.0003	0.0567	0.0041 (J)
6/12/2017	<0.005		0.0011 (J)	0.0006 (J)	0.0003 (J)			
6/13/2017		0.0025 (J)						
6/14/2017							0.0557	0.0036 (J)
6/15/2017						<0.0003		
9/26/2017	<0.005	0.002 (J)	0.0016 (J)	0.0005 (J)	0.0003 (J)			
9/27/2017							0.049	0.0028 (J)
9/28/2017						<0.0003		
2/13/2018	<0.005	<0.005	<0.01 (o)	<0.0003	<0.0003			
2/15/2018						<0.0003	0.0536	<0.01
6/26/2018	<0.005	0.0019 (J)	0.0009 (J)	0.00052 (J)	<0.0003			
6/27/2018						<0.0003	0.054	0.0041 (J)
12/18/2018	<0.005	0.0032 (J)	0.00062 (J)	<0.0003	<0.0003		0.049	0.0032 (J)
12/19/2018						<0.0003		
8/27/2019	<0.005	0.0012 (J)	0.00068 (J)	0.00042 (J)	<0.0003		0.045	
8/28/2019						<0.0003	0.045	0.0037 (J)
10/15/2019	<0.005	0.00097 (J)	0.00083 (J)	<0.0003	<0.0003			
10/16/2019							0.042	0.0043 (J)
10/17/2019						<0.0003		
12/3/2019						<0.0003		
3/3/2020	<0.005	0.0015 (J)	0.00043 (J)	<0.0003	0.0011 (J)	<0.0003		
3/5/2020							0.037	0.0031 (J)
8/18/2020	<0.005	0.0014 (J)	0.00048 (J)	<0.0003	0.00061 (J)			
8/19/2020						<0.0003	0.036	0.0041 (J)
9/15/2020	<0.005	0.001 (J)	0.0005 (J)	<0.0003	<0.0003			
9/16/2020						<0.0003	0.034	0.0042 (J)
3/1/2021	<0.005				<0.0003			
3/2/2021		0.001 (J)	0.00053 (J)	<0.0003				
3/3/2021							0.028	0.0046 (J)
3/4/2021						<0.0003		
9/21/2021			0.00071 (J)	<0.0003				
9/22/2021	0.0015 (J)	<0.005			0.00078 (J)	<0.0003	0.024	0.0075
2/1/2022	0.00079 (J)	0.0011 (J)	0.0007 (J)	<0.0003	<0.0003	<0.0003	0.027	0.0044 (J)
8/23/2022	0.000767 (J)	0.000844 (J)	0.000553 (J)	<0.0003	<0.0003		0.0639	
8/24/2022						<0.0003		0.00438
1/24/2023	0.00154	0.000829 (J)	0.000677 (J)	<0.0003	<0.0003	<0.0003	0.0582	0.00351
8/31/2023	0.000707 (J)	0.000707 (J)	0.000474 (J)	0.000327 (J)	<0.0003		0.0659	0.00384
9/6/2023						<0.0003		
2/10/2024	0.0014	0.000962 (J)	0.000555 (J)	<0.0003	<0.0003	<0.0003		
2/13/2024							0.0988	0.00751

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/5/2024 2:26 PM View: Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-13S	PZ-53D	PZ-52D	PZ-70I
9/7/2016	0.0023 (J)	<0.0003		0.236				
11/17/2016	0.0012 (J)							
11/18/2016		<0.0003						
11/21/2016				0.298				
2/22/2017	0.0008 (J)							
2/23/2017		<0.0003	<0.0003	0.277				
4/17/2017			<0.0003					
5/15/2017			<0.0003					
6/15/2017	0.0004 (J)	<0.0003	<0.0003	0.262				
9/28/2017	0.0003 (J)	<0.0003	<0.0003	0.279				
2/15/2018	<0.0003	<0.0003	<0.0003	0.279				
6/27/2018	<0.0003							
6/28/2018		<0.0003	<0.0003	0.23				
12/19/2018	<0.0003	<0.0003	<0.0003					
12/20/2018				0.25				
1/15/2019					<0.0003			
8/28/2019	<0.0003	<0.0003	<0.0003					
8/29/2019				0.21				
10/16/2019	<0.0003		<0.0003	0.21				
10/17/2019		<0.0003						
10/22/2019					0.00037 (J)			
12/3/2019		<0.0003						
3/5/2020	<0.0003	<0.0003	<0.0003	0.22				
8/19/2020	<0.0003	<0.0003	<0.0003	0.22				
9/16/2020	<0.0003	<0.0003	<0.0003					
9/17/2020				0.2				
3/3/2021		<0.0003	<0.0003					
3/4/2021	<0.0003			0.2				
9/22/2021		<0.0003						
9/23/2021	<0.0003		<0.0003	0.17				
2/1/2022	<0.0003	<0.0003		0.18				
2/2/2022			<0.0003					
8/23/2022			<0.0003	0.173	<0.0003	<0.0003		
8/24/2022	<0.0003	<0.0003						
9/1/2022							0.0015	0.0056
1/24/2023	<0.0003							
1/25/2023		<0.0003	<0.0003	0.158		<0.0003	0.00249	
1/26/2023					<0.0003			0.000682 (J)
8/31/2023			<0.0003		<0.0003			
9/6/2023	<0.0003	<0.0003		0.139		<0.0003	0.000307 (J)	0.000784 (J)
2/10/2024	<0.0003				<0.0003			
2/13/2024		<0.0003	<0.0003	0.134		<0.0003	0.00104	0.000866 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/5/2024 2:26 PM View: Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-17S	BRGWC-33S	BRGWC-34S
8/31/2016	0.351 (U)	1 (U)	0.62 (U)	0.603 (U)				
9/1/2016					1.33			
9/7/2016						1.18	0.541 (U)	
9/8/2016								0.998 (U)
11/15/2016				0.645 (U)	0.412 (U)			
11/16/2016	0.824 (U)	0.43 (U)	0.493 (U)					
11/17/2016						0.145 (U)	1.02 (U)	0.613
2/20/2017			0.534 (U)	1.36	0.633 (U)			
2/21/2017	1.01 (U)	0.96 (U)						
2/22/2017						0.0213 (U)	0.482 (U)	1.01 (U)
6/12/2017	0.532 (U)		0.254 (U)	0.566 (U)	0.112 (U)			
6/13/2017		0.645 (U)						
6/14/2017							0.723 (U)	0.801 (U)
6/15/2017						0.41 (U)		
9/26/2017	0.845 (U)	0.299 (U)	0.62 (U)	0.762 (U)	0.167 (U)			
9/27/2017							1.5	1.44
9/28/2017						0.496 (U)		
2/13/2018	0.176 (U)	1.01 (U)	0.0914 (U)	0.349 (U)	0.347 (U)			
2/15/2018						0.672 (U)	1.14 (U)	0.668 (U)
6/26/2018	1.02 (U)	1.26 (J+X)	1.11 (U)	0.614 (U)	0.903 (U)			
6/27/2018						0.692 (U)	1.3 (U)	1.06 (U)
12/18/2018	0.487 (U)	0.44 (U)	0.42 (U)	0.445 (U)	0.353 (U)		1.64 (UX)	1.22
12/19/2018						0.325 (U)		
8/27/2019	1.11	1.47	1.19	1.44	0.65 (U)		1.38	
8/28/2019						0.24 (U)		0.811 (U)
10/15/2019	1.02 (U)	0.807 (U)	0.714 (U)	0.467 (U)	0.402 (U)			
10/16/2019							1.16 (U)	0.561 (U)
12/18/2019						1.16 (U)		
3/3/2020	1.18 (U)	0.818 (U)	0.996 (U)	1.5	0.397 (U)	0.756 (U)		
3/5/2020							0.683 (U)	0.792 (U)
8/18/2020	0.0861 (U)	1.22 (U)	0.53 (U)	0.581 (U)	0.453 (U)			
8/19/2020						0.985 (U)	1.14 (U)	1.21 (U)
9/15/2020	0.0583 (U)	0.579 (U)	0.215 (U)	0.55 (U)	0.474 (U)			
9/16/2020						0.478 (U)	0.195 (U)	0.72 (U)
3/1/2021	0.127 (U)				0.215 (U)			
3/2/2021		0.342 (U)	0.409 (U)	0.362 (U)				
3/3/2021							0.708 (U)	1.12
3/4/2021						0.38 (U)		
9/21/2021			0.182 (U)	0.86 (U)				
9/22/2021	0.349 (U)	1.33 (U)			0.943 (U)	0.734 (U)	0.382 (U)	0.91 (U)
2/1/2022	0.233 (U)	0.251 (U)	1.23	0.23 (U)	0.349 (U)	0.503 (U)	0.583 (U)	0.535 (U)
8/23/2022	1.7	0.531	2.3	0.735	0.203		1.94	
8/24/2022						0.152		1.86
1/24/2023	2.05 (U)	1.35 (U)	0.811 (U)	0.402 (U)	1.55 (U)	0.728 (U)	3.31 (U)	2.14 (U)
9/20/2023						1.92 (U)		
9/22/2023	0.857 (U)	0.592 (U)	1.36	1.31 (U)	1.89 (U)		0.521 (U)	1.06 (U)
2/27/2024	1.25	2.54	1.48 (U)	0 (U)	1.29	1.36		
2/28/2024							2.66	1.31 (U)

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/5/2024 2:26 PM View: Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-13S	PZ-53D	PZ-52D	PZ-70I
9/7/2016	0.189 (U)	0.638 (U)		0.816 (U)				
11/17/2016	0.729 (U)							
11/18/2016		1.22 (U)						
11/21/2016				2.94				
2/22/2017	0.293 (U)							
2/23/2017		0.554 (U)	0.567 (U)	1.92				
4/17/2017			0.335 (U)					
5/15/2017			0.261 (U)					
6/15/2017	1.09	0.77 (U)	0.188 (U)	3.6				
9/28/2017	1.02 (U)	1.07 (U)	0.627 (U)	3.3				
2/15/2018	0.742 (U)	0.751 (U)	0.869 (U)	2.31 (J+X)				
6/27/2018	0.739 (U)							
6/28/2018		0.392 (U)	0.336 (U)	1.75 (UX)				
12/19/2018	0.465 (U)	0.693 (U)	0.454 (U)					
12/20/2018				2.8 (J+X)				
1/15/2019					<0.983			
8/28/2019	0.995 (U)	0.866 (U)	0.809 (U)					
8/29/2019				3.68				
10/16/2019	1.69		0.815 (U)	2.66				
10/22/2019					0.631 (U)			
12/18/2019		1.91						
3/5/2020	0.858 (U)	1.3	0.791 (U)	2.21				
8/19/2020	0.162 (U)	1.4	0.582 (U)	3.17				
9/16/2020	1.25 (U)	1.17 (U)	0.844 (U)					
9/17/2020				2.92				
3/3/2021		0.307 (U)	1.12					
3/4/2021	0.461 (U)			1.99				
9/22/2021		0.808 (U)						
9/23/2021	0.394 (U)		0.078 (U)	1.4				
2/1/2022	0.672 (U)	1.61 (U)		7.64				
2/2/2022			0.654 (U)					
8/23/2022			2.37	3.12	1.83	3.04		
8/24/2022	3.1	1.38						
9/1/2022								1.57
1/24/2023	3.34							
1/25/2023		4.86	1.67 (U)	3.79		2.1 (U)		
1/26/2023					4.77			1.81 (U)
2/2/2023							5.39	
9/20/2023	3.33	3.87		5.98				4.35
9/22/2023			0.578 (U)		0.823 (U)			
9/26/2023						3.67	1.14 (U)	
2/27/2024	2.4				2.01			
2/28/2024		2.31	1.74	2.98		3.57	2.54	1.55

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/5/2024 2:26 PM View: Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-17S	BRGWC-33S	BRGWC-34S
8/31/2016	0.11 (J)	0.05 (J)	0.07 (J)	0.19 (J)				
9/1/2016					0.06 (J)			
9/7/2016						0.22 (J)	0.19 (J)	
9/8/2016								0.17 (J)
11/15/2016				0.13 (J)	0.06 (J)			
11/16/2016	0.08 (J)	0.07 (J)	0.07 (J)					
11/17/2016						0.12 (J)	0.12 (J)	0.06 (J)
2/20/2017			0.06 (J)	0.08 (J)	0.04 (J)			
2/21/2017	0.14 (J)	0.05 (J)						
2/22/2017						0.11 (J)	0.21 (J)	0.17 (J)
6/12/2017	0.16 (J)		0.008 (J)	0.07 (J)	0.06 (J)			
6/13/2017		0.04 (J)						
6/14/2017							0.18 (J)	0.1 (J)
6/15/2017						0.05 (J)		
9/26/2017	0.14 (J)	<0.1	<0.1	0.04 (J)	<0.1			
9/27/2017							0.42	0.4
9/28/2017						0.05 (J)		
2/13/2018	<0.033	<0.1	<0.1	<0.1	<0.1			
2/15/2018						<0.3	0.42	<0.3
6/26/2018	0.085 (J)	0.048 (J)	0.045 (J)	0.072 (J)	0.041 (J)			
6/27/2018						0.093 (J)	0.32	0.21 (J)
12/18/2018	0.085 (J)	<0.1	<0.1	<0.1	<0.1		0.28 (J)	0.12 (J)
12/19/2018						0.16 (J)		
3/19/2019	0.0655 (JD)	0.037 (J)	<0.1	0.06 (J)	0.03 (J)	0.1 (J)		
3/20/2019							0.14 (J)	0.074 (J)
8/27/2019	<0.033	<0.1	<0.1	<0.1	<0.1		0.11 (J)	
8/28/2019						0.085 (J)	0.11 (J)	0.057 (J)
10/15/2019	<0.033	<0.1	<0.1	0.045 (J)	<0.1			
10/16/2019							0.17 (J)	0.13 (J)
12/3/2019						0.2 (J)		
3/3/2020	0.066 (J)	0.05 (J)	<0.1	0.057 (J)	0.09 (J)	0.093 (J)		
3/5/2020							0.088 (J)	0.072 (J)
8/18/2020	<0.033	<0.1	<0.1	<0.1	<0.1			
8/19/2020						0.1	0.11	0.074 (J)
9/15/2020	<0.033	<0.1	<0.1	0.051 (J)	<0.1			
9/16/2020						0.1	0.085 (J)	0.077 (J)
3/1/2021	<0.033				<0.1			
3/2/2021		<0.1	<0.1	<0.1				
3/3/2021							0.069 (J)	0.071 (J)
3/4/2021						0.096 (J)		
9/21/2021			<0.1	0.056 (J)				
9/22/2021	<0.033	<0.1			<0.1	0.1	0.068 (J)	0.1
2/1/2022	<0.033	<0.1	<0.1	<0.1	<0.1	0.079 (J)	0.053 (J)	0.06 (J)
8/23/2022	<0.033	<0.1	<0.1	<0.1	<0.1		0.187	
8/24/2022						0.274		0.14
1/24/2023	<0.033	<0.1	0.149	0.158	0.12	0.216	0.193	0.122
8/23/2023	0.267	0.229	0.289	0.277	0.0787 (J)		0.123	
8/24/2023						0.484		0.0816 (J)
1/31/2024	<0.033	0.184	0.232	0.233	0.0341 (J)	0.34		
2/1/2024							0.194	0.101

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/5/2024 2:26 PM View: Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-13S	PZ-53D	PZ-52D	PZ-70I
9/7/2016	0.34	0.18 (J)		0.66				
11/17/2016	0.14 (J)							
11/18/2016		0.03 (J)						
11/21/2016				0.9 (D)				
2/22/2017	0.09 (J)							
2/23/2017		0.07 (J)	0.1 (J)	0.75				
4/17/2017			0.08 (J)					
5/15/2017			0.02 (J)					
6/15/2017	0.03 (J)	0.01 (J)	0.03 (J)	0.77				
9/28/2017	<0.1	<0.1	<0.1	0.8				
2/15/2018	<0.1	<0.1	<0.1	0.82				
6/27/2018	0.22 (J)							
6/28/2018		0.51 (J+X)	<0.1	1.5 (J+X)				
12/19/2018	0.11 (J)	<0.1	0.094 (J)					
12/20/2018				0.68				
1/15/2019					0.06 (J)			
3/19/2019		<0.1						
3/20/2019	0.088 (J)		0.062 (J)	0.95				
8/28/2019	0.056 (J)	<0.1	<0.1					
8/29/2019				0.9				
10/16/2019	0.08 (J)		0.059 (J)	0.61				
10/22/2019					<0.1			
12/3/2019		0.15 (J)						
3/5/2020	0.067 (J)	<0.1	0.05 (J)	0.92				
8/19/2020	0.06 (J)	0.051 (J)	0.055 (J)	0.95				
9/16/2020	0.062 (J)	<0.1	<0.1					
9/17/2020				0.68				
3/3/2021		<0.1	<0.1					
3/4/2021	0.076 (J)			0.83				
9/22/2021		0.054 (J)						
9/23/2021	0.073 (J)		<0.1	0.85				
2/1/2022	0.055 (J)	<0.1		0.95				
2/2/2022			<0.1					
8/23/2022			0.105	0.609	0.128	0.164		
8/24/2022	<0.1	0.194						
9/1/2022							0.14	1.43
1/24/2023	0.239							
1/25/2023		0.183	0.114	0.708		0.282		
1/26/2023					<0.1		1.93	<0.2
8/23/2023			0.0445 (J)		<0.1			
8/24/2023	0.347			0.748			1.94	
8/25/2023		0.301				0.334		0.229
1/31/2024	0.263				0.222			
2/1/2024		0.144	0.109	0.493				
2/2/2024						0.153	1.9	0.108

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 4/5/2024 2:26 PM View: Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-17S	BRGWC-33S	BRGWC-34S
8/31/2016	<0.0005	<0.0005	<0.0005	<0.0005				
9/1/2016					0.0001 (J)			
9/7/2016						<0.0005	0.0002 (J)	
9/8/2016								<0.0005
11/15/2016				<0.0005	<0.0005			
11/16/2016	<0.0005	<0.0005	<0.0005					
11/17/2016						0.0001 (J)	0.0002 (J)	0.0001 (J)
2/20/2017			<0.0005	0.0002 (J)	<0.0005			
2/21/2017	<0.0005	<0.0005						
2/22/2017						<0.0005	0.0001 (J)	0.0003 (J)
6/12/2017	8E-05 (J)		<0.0005	0.0001 (J)	8E-05 (J)			
6/13/2017		<0.0005						
6/14/2017							9E-05 (J)	<0.0005
6/15/2017						<0.0005		
9/26/2017	7E-05 (J)	7E-05 (J)	<0.0005	0.0001 (J)	<0.0005			
9/27/2017							7E-05 (J)	9E-05 (J)
9/28/2017						<0.0005		
2/13/2018	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005			
2/15/2018						<0.0005	<0.0005	<0.0005
6/26/2018	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005			
6/27/2018						<0.0005	<0.0005	<0.0005
12/18/2018	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		<0.0005	<0.0005
12/19/2018						<0.0005		
8/27/2019	<0.0005	5.8E-05 (J)	<0.0005	0.00036 (J)	<0.0005		0.00013 (J)	
8/28/2019						<0.0005	0.00013 (J)	<0.0005
10/15/2019	<0.0005	<0.0005	<0.0005	7.9E-05 (J)	<0.0005			
10/16/2019							8.8E-05 (J)	<0.0005
12/3/2019						<0.0005		
3/3/2020	<0.0005	<0.0005	<0.0005	7.9E-05 (J)	7.3E-05 (J)	<0.0005		
3/5/2020							8.7E-05 (J)	<0.0005
8/18/2020	<0.0005	<0.0005	<0.0005	0.0001 (J)	<0.0005			
8/19/2020						<0.0005	6E-05 (J)	<0.0005
9/15/2020	<0.0005	<0.0005	0.0013 (J)	4.3E-05 (J)	<0.0005			
9/16/2020						5.4E-05 (J)	6.3E-05 (J)	<0.0005
3/1/2021	<0.0005				<0.0005			
3/2/2021		<0.0005	3.7E-05 (J)	<0.0005				
3/3/2021							5.8E-05 (J)	<0.0005
3/4/2021						<0.0005		
9/21/2021			<0.0005	<0.0005				
9/22/2021	<0.0005	<0.0005			<0.0005	<0.0005	<0.0005	<0.0005
2/1/2022	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
8/23/2022	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		<0.0005	
8/24/2022						<0.0005		<0.0005
1/24/2023	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
8/31/2023	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		<0.0005	<0.0005
9/6/2023						<0.0005		
2/10/2024	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		
2/13/2024							<0.0005	<0.0005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 4/5/2024 2:26 PM View: Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-13S	PZ-53D	PZ-52D	PZ-70I
9/7/2016	0.0001 (J)	<0.0005		0.0004 (J)				
11/17/2016	0.0002 (J)							
11/18/2016		<0.0005						
11/21/2016				0.0005 (J)				
2/22/2017	0.0001 (J)							
2/23/2017		<0.0005	<0.0005	0.0005 (J)				
4/17/2017			0.0001 (J)					
5/15/2017			<0.0005					
6/15/2017	<0.0005	<0.0005	<0.0005	0.0004 (J)				
9/28/2017	<0.0005	<0.0005	0.0001 (J)	0.0004 (J)				
2/15/2018	<0.0005	<0.0005	<0.0005	0.00047 (J)				
6/27/2018	<0.0005							
6/28/2018		<0.0005	<0.0005	0.00036 (J)				
12/19/2018	<0.0005	<0.0005	<0.0005					
12/20/2018				0.00039 (J)				
1/15/2019					<0.0005			
8/28/2019	<0.0005	<0.0005	<0.0005					
8/29/2019				0.00035 (J)				
10/16/2019	<0.0005		<0.0005	0.00035 (J)				
10/22/2019					0.00035 (J)			
12/3/2019		<0.0005						
3/5/2020	<0.0005	<0.0005	<0.0005	0.00041 (J)				
8/19/2020	<0.0005	4.7E-05 (J)	<0.0005	0.00031 (J)				
9/16/2020	0.00012 (J)	<0.0005	<0.0005					
9/17/2020				0.00032 (J)				
3/3/2021		<0.0005	<0.0005					
3/4/2021	<0.0005			0.00034 (J)				
9/22/2021		<0.0005						
9/23/2021	<0.0005		<0.0005	<0.0005				
2/1/2022	<0.0005	<0.0005		<0.0005				
2/2/2022			<0.0005					
8/23/2022			<0.0005	<0.0005	<0.0005	<0.0005		
8/24/2022	<0.0005	<0.0005						
9/1/2022								<0.0005
1/24/2023	<0.0005							
1/25/2023		<0.0005	<0.0005	<0.0005		<0.0005	<0.0005	
1/26/2023					<0.0005			<0.0005
8/31/2023			<0.0005		<0.0005			
9/6/2023	<0.0005	<0.0005		<0.0005		<0.0005	<0.0005	<0.0005
2/10/2024	<0.0005				<0.0005			
2/13/2024		<0.0005	<0.0005	<0.0005		<0.0005	<0.0005	<0.0005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/5/2024 2:26 PM View: Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-17S	BRGWC-33S	BRGWC-34S
8/31/2016	0.0268 (J)	<0.003	<0.003	<0.003				
9/1/2016					0.003 (J)			
9/7/2016						<0.003	0.0092 (J)	
9/8/2016								<0.003
11/15/2016				<0.003	0.0033 (J)			
11/16/2016	0.0201 (J)	<0.003	0.0033 (J)					
11/17/2016						<0.003	0.0097 (J)	<0.003
2/20/2017			<0.003	<0.003	0.0025 (J)			
2/21/2017	0.0128 (J)	<0.003						
2/22/2017						<0.003	0.0106 (J)	<0.003
6/12/2017	0.0245 (J)		0.0019 (J)	<0.003	0.0027 (J)			
6/13/2017		<0.003						
6/14/2017							0.0097 (J)	<0.003
6/15/2017						<0.003		
9/26/2017	0.0549	<0.003	0.0022 (J)	<0.003	0.0023 (J)			
9/27/2017							0.0099 (J)	<0.003
9/28/2017						<0.003		
2/13/2018	0.0595	<0.003	0.0041 (J)	<0.003	0.0027 (J)			
2/15/2018						<0.003	0.0106 (J)	<0.003
6/26/2018	0.089	<0.003	0.0025 (J)	<0.003	0.0029 (J)			
6/27/2018						<0.003	0.01 (J)	<0.003
12/18/2018	0.024 (J)	<0.003	0.0032 (J)	<0.003	0.0026 (J)		0.011 (J)	<0.003
12/19/2018						<0.003		
8/27/2019	0.035	<0.003	0.0019 (J)	<0.003	0.0028 (J)		0.01 (J)	
8/28/2019						0.00097 (J)	0.01 (J)	0.0009 (J)
10/15/2019	0.028 (J)	<0.003	0.002 (J)	<0.003	0.0024 (J)			
10/16/2019							0.0098 (J)	0.00078 (J)
12/3/2019						0.001 (J)		
3/3/2020	0.055	<0.003	0.0013 (J)	<0.003	0.0026 (J)	<0.003		
3/5/2020							0.011 (J)	0.00089 (J)
8/18/2020	0.054	<0.003	0.00095 (J)	<0.003	0.0026 (J)			
8/19/2020						0.001 (J)	0.009 (J)	0.00082 (J)
9/15/2020	0.033	<0.003	0.001 (J)	<0.003	0.0027 (J)			
9/16/2020						0.00096 (J)	0.0089 (J)	<0.003
3/1/2021	0.027 (J)				0.0036 (J)			
3/2/2021		<0.003	0.00081 (J)	<0.003				
3/3/2021							0.0085 (J)	0.00096 (J)
3/4/2021						0.00086 (J)		
9/21/2021			0.0012 (J)	<0.003				
9/22/2021	0.021 (J)	<0.003			0.0035 (J)	0.0011 (J)	0.008 (J)	<0.003
2/1/2022	0.023 (J)	<0.003	0.0011 (J)	<0.003	0.0029 (J)	0.00096 (J)	0.0083 (J)	0.00085 (J)
8/23/2022	0.0262	<0.003	<0.003	<0.003	0.00314 (J)		0.0109	
8/24/2022						<0.003		<0.003
1/24/2023	0.00919 (J)	<0.003	<0.003	<0.003	0.00341 (J)	<0.003	0.0115	<0.003
8/31/2023	0.0209	<0.003	<0.003	<0.003	<0.01		0.00967 (J)	<0.003
9/6/2023						<0.003		
2/10/2024	0.00407 (J)	<0.003	<0.003	<0.003	0.00317 (J)	<0.003		
2/13/2024							0.0117	<0.003

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/5/2024 2:26 PM View: Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-13S	PZ-53D	PZ-52D	PZ-70I
9/7/2016	0.0021 (J)	0.0024 (J)		0.0193 (J)				
11/17/2016	0.0022 (J)							
11/18/2016		0.0026 (J)						
11/21/2016				0.0223 (J)				
2/22/2017	0.0023 (J)							
2/23/2017		0.0026 (J)	<0.003	0.0229 (J)				
4/17/2017			<0.003					
5/15/2017			<0.003					
6/15/2017	0.0023 (J)	0.0026 (J)	<0.003	0.0227 (J)				
9/28/2017	0.0021 (J)	0.0025 (J)	<0.003	0.023 (J)				
2/15/2018	0.0021 (J)	<0.003	<0.003	0.0254 (J)				
6/27/2018	0.0021 (J)							
6/28/2018		0.0022 (J)	<0.003	0.021 (J)				
12/19/2018	0.0021 (J)	0.0026 (J)	<0.003					
12/20/2018				0.022 (J)				
1/15/2019					0.0017 (J)			
8/28/2019	0.0021 (J)	0.0025 (J)	<0.003					
8/29/2019				0.021 (J)				
10/16/2019	0.0022 (J)		<0.003	0.02 (J)				
10/22/2019					0.001 (J)			
12/3/2019		0.0024 (J)						
3/5/2020	0.0021 (J)	0.0025 (J)	<0.003	0.021 (J)				
8/19/2020	0.0021 (J)	0.0024 (J)	<0.003	0.021 (J)				
9/16/2020	0.002 (J)	0.0022 (J)	<0.003					
9/17/2020				0.02 (J)				
3/3/2021		0.0024 (J)	<0.003					
3/4/2021	0.0021 (J)			0.021 (J)				
9/22/2021		0.0026 (J)						
9/23/2021	0.0022 (J)		<0.003	0.019 (J)				
2/1/2022	0.0021 (J)	0.0023 (J)		0.02 (J)				
2/2/2022			<0.003					
8/23/2022			<0.003	0.0214	<0.003	0.0171		
8/24/2022	<0.003	<0.003						
9/1/2022								0.00615 (J)
1/24/2023	<0.003							
1/25/2023		<0.003	<0.003	0.0256		0.0207	0.0165	
1/26/2023					<0.003			0.00381 (J)
8/31/2023			<0.003		<0.003			
9/6/2023	<0.003	<0.003				0.0185		
9/7/2023				0.0195			0.0182	0.00385 (J)
2/10/2024	<0.003				<0.003			
2/13/2024		<0.003	<0.003	0.0201		0.0182	0.0184	0.00385 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/5/2024 2:26 PM View: Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-17S	BRGWC-33S	BRGWC-34S
8/31/2016	<6.7E-05	<6.7E-05	<6.7E-05	<6.7E-05				
9/1/2016					<6.7E-05			
9/7/2016						<6.7E-05	<6.7E-05	
9/8/2016								<6.7E-05
11/15/2016				<6.7E-05	<6.7E-05			
11/16/2016	<6.7E-05	<6.7E-05	<6.7E-05					
11/17/2016						<6.7E-05	<6.7E-05	<6.7E-05
2/20/2017			<6.7E-05	8E-05 (J)	<6.7E-05			
2/21/2017	<6.7E-05	<6.7E-05						
2/22/2017						<6.7E-05	<6.7E-05	<6.7E-05
6/12/2017	4E-05 (J)		<6.7E-05	<6.7E-05	<6.7E-05			
6/13/2017		<6.7E-05						
6/14/2017							7E-05 (J)	7E-05 (J)
6/15/2017						6E-05 (J)		
9/26/2017	<6.7E-05	<6.7E-05	<6.7E-05	<6.7E-05	<6.7E-05			
9/27/2017							4E-05 (J)	4E-05 (J)
9/28/2017						<6.7E-05		
2/13/2018	0.00021	0.00019 (J)	<6.7E-05	0.00013 (J)	<6.7E-05			
2/15/2018						<6.7E-05	<6.7E-05	<6.7E-05
6/26/2018	<6.7E-05	<6.7E-05	<6.7E-05	<6.7E-05	<6.7E-05			
6/27/2018						<6.7E-05	<6.7E-05	<6.7E-05
12/18/2018	<6.7E-05	<6.7E-05	<6.7E-05	<6.7E-05	<6.7E-05		<6.7E-05	<6.7E-05
12/19/2018						<6.7E-05		
8/27/2019	<6.7E-05	<6.7E-05	<6.7E-05	<6.7E-05	<6.7E-05		<6.7E-05	
8/28/2019						<6.7E-05	<6.7E-05	<6.7E-05
8/18/2020	<6.7E-05	<6.7E-05	<6.7E-05	<6.7E-05	<6.7E-05			
8/19/2020						8.4E-05 (J)	<6.7E-05	0.00012 (J)
9/15/2020	<6.7E-05	<6.7E-05	<6.7E-05	<6.7E-05	<6.7E-05			
9/16/2020						<6.7E-05	<6.7E-05	<6.7E-05
3/1/2021	<6.7E-05				<6.7E-05			
3/2/2021		<6.7E-05	<6.7E-05	<6.7E-05				
3/3/2021							<6.7E-05	<6.7E-05
3/4/2021						<6.7E-05		
9/21/2021			0.0001 (J)	0.0001 (J)				
9/22/2021	0.0001 (J)	0.0001 (J)			0.0001 (J)	0.0001 (J)	0.00012 (J)	0.00015 (J)
2/1/2022	<6.7E-05	<6.7E-05	<6.7E-05	<6.7E-05	<6.7E-05	<6.7E-05	<6.7E-05	<6.7E-05
8/23/2022	<6.7E-05	<6.7E-05	<6.7E-05	<6.7E-05	<6.7E-05		<6.7E-05	
8/24/2022						<6.7E-05		<6.7E-05
1/24/2023	<6.7E-05	<6.7E-05	<6.7E-05	<6.7E-05	<6.7E-05	<6.7E-05	<6.7E-05	<6.7E-05
8/25/2023	<6.7E-05	<6.7E-05	<6.7E-05	<6.7E-05	<6.7E-05		<6.7E-05	<6.7E-05
8/28/2023						<6.7E-05		
2/2/2024	<6.7E-05	<6.7E-05	<6.7E-05	<6.7E-05	<6.7E-05	<6.7E-05		
2/5/2024							<6.7E-05	<6.7E-05

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/5/2024 2:26 PM View: Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-13S	PZ-53D	PZ-52D	PZ-70I
9/7/2016	<6.7E-05	<6.7E-05		7E-05 (J)				
11/17/2016	<6.7E-05							
11/18/2016		<6.7E-05						
11/21/2016				0.00012 (J)				
2/22/2017	<6.7E-05							
2/23/2017		<6.7E-05	<6.7E-05	7E-05 (J)				
4/17/2017			<6.7E-05					
5/15/2017			<6.7E-05					
6/15/2017	7E-05 (J)	7E-05 (J)	6E-05 (J)	0.00016 (J)				
9/28/2017	<6.7E-05	<6.7E-05	<6.7E-05	0.00011 (J)				
2/15/2018	<6.7E-05	<6.7E-05	<6.7E-05	0.00015 (J)				
6/27/2018	<6.7E-05							
6/28/2018		<6.7E-05	<6.7E-05	<0.0002 (X)				
12/19/2018	<6.7E-05	<6.7E-05	<6.7E-05					
12/20/2018				0.00017 (J)				
1/15/2019					<6.7E-05			
8/28/2019	<6.7E-05	<6.7E-05	<6.7E-05					
8/29/2019				0.00018 (J)				
8/19/2020	0.00013 (J)	0.00013 (J)	0.00014 (J)	0.00018 (J)				
9/16/2020	<6.7E-05	<6.7E-05	<6.7E-05					
9/17/2020				0.00011 (J)				
3/3/2021		<6.7E-05	<6.7E-05					
3/4/2021	<6.7E-05			8.5E-05 (J)				
9/22/2021		0.0001 (J)						
9/23/2021	0.00011 (J)		0.00011 (J)	0.00022				
2/1/2022	<6.7E-05	<6.7E-05		<0.0002				
2/2/2022			<6.7E-05					
8/23/2022			<6.7E-05	0.000117 (J)	<6.7E-05	<6.7E-05		
8/24/2022	<6.7E-05	<6.7E-05						
9/1/2022								<0.0002
1/24/2023	<6.7E-05							
1/25/2023		<6.7E-05	<6.7E-05	<0.0002		<6.7E-05	<6.7E-05	
1/26/2023					<6.7E-05			<0.0002
8/25/2023			<6.7E-05		<6.7E-05			
8/28/2023	<6.7E-05	<6.7E-05		<0.0002			<6.7E-05	0.00322
8/29/2023						<6.7E-05		
2/2/2024	<6.7E-05				<6.7E-05			
2/5/2024		<6.7E-05	<6.7E-05	8.5E-05 (J)		<6.7E-05	<6.7E-05	0.00149

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/5/2024 2:26 PM View: Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-17S	BRGWC-33S	BRGWC-34S
8/31/2016	0.0021 (J)	<0.0002	0.004 (J)	<0.0002				
9/1/2016					<0.0002			
9/7/2016						<0.0002	<0.0002	
9/8/2016								<0.0002
11/15/2016				<0.0002	<0.0002			
11/16/2016	<0.01	<0.0002	0.0038 (J)					
11/17/2016						<0.0002	<0.0002	<0.0002
2/20/2017			0.0055 (J)	<0.0002	<0.0002			
2/21/2017	0.0021 (J)	<0.0002						
2/22/2017						<0.0002	<0.0002	<0.0002
6/12/2017	0.0021 (J)		0.005 (J)	<0.0002	<0.0002			
6/13/2017		<0.0002						
6/14/2017							<0.0002	<0.0002
6/15/2017						<0.0002		
9/26/2017	0.0011 (J)	<0.0002	0.0053 (J)	<0.0002	<0.0002			
9/27/2017							<0.0002	<0.0002
9/28/2017						<0.0002		
2/13/2018	0.0019 (J)	<0.0002	0.008 (J)	<0.0002	<0.0002			
2/15/2018						<0.0002	<0.0002	<0.0002
6/26/2018	<0.01	<0.0002	0.0041 (J)	<0.0002	<0.0002			
6/27/2018						<0.0002	<0.0002	<0.0002
12/18/2018	<0.01	<0.0002	0.0048 (J)	<0.0002	<0.0002		<0.0002	<0.0002
12/19/2018						<0.0002		
8/27/2019	<0.01	<0.0002	0.0028 (J)	<0.0002	<0.0002		<0.0002	
8/28/2019						<0.0002	<0.0002	<0.0002
10/15/2019	<0.01	<0.0002	0.0035 (J)	<0.0002	<0.0002			
10/16/2019							<0.0002	<0.0002
12/3/2019						<0.0002		
3/3/2020	<0.01	<0.0002	0.0023 (J)	<0.0002	<0.0002	<0.0002		
3/5/2020							<0.0002	<0.0002
8/18/2020	0.0011 (J)	<0.0002	0.0015 (J)	<0.0002	<0.0002			
8/19/2020						<0.0002	<0.0002	<0.0002
9/15/2020	0.0007 (J)	<0.0002	0.0015 (J)	<0.0002	<0.0002			
9/16/2020						<0.0002	<0.0002	<0.0002
3/1/2021	<0.01				<0.0002			
3/2/2021		<0.0002	0.0015 (J)	<0.0002				
3/3/2021							<0.0002	<0.0002
3/4/2021						<0.0002		
9/21/2021			0.002 (J)	<0.0002				
9/22/2021	0.0012 (J)	<0.0002			<0.0002	<0.0002	<0.0002	<0.0002
2/1/2022	0.0013 (J)	<0.0002	0.002 (J)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
8/23/2022	0.0024	<0.0002	0.00151	<0.0002	<0.0002		<0.0002	
8/24/2022						<0.0002		<0.0002
1/24/2023	0.000601 (J)	<0.0002	0.00192	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
8/31/2023	0.00169	<0.0002	0.000953 (J)	<0.0002	<0.0002		<0.0002	<0.0002
9/6/2023						<0.0002		
2/10/2024	0.000362 (J)	<0.0002	0.00143	<0.0002	<0.0002	<0.0002		
2/13/2024							<0.0002	<0.0002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/5/2024 2:26 PM View: Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-13S	PZ-53D	PZ-52D	PZ-70I
9/7/2016	<0.0002	<0.0002		<0.0002				
11/17/2016	<0.0002							
11/18/2016		<0.0002						
11/21/2016				<0.0002				
2/22/2017	<0.0002							
2/23/2017		<0.0002	<0.0002	<0.0002				
4/17/2017			<0.0002					
5/15/2017			<0.0002					
6/15/2017	<0.0002	<0.0002	<0.0002	<0.0002				
9/28/2017	<0.0002	<0.0002	<0.0002	<0.0002				
2/15/2018	<0.0002	<0.0002	<0.0002	<0.0002				
6/27/2018	<0.0002							
6/28/2018		<0.0002	<0.0002	<0.0002				
12/19/2018	<0.0002	<0.0002	<0.0002					
12/20/2018				<0.0002				
1/15/2019					<0.0002			
8/28/2019	<0.0002	<0.0002	<0.0002					
8/29/2019				<0.0002				
10/16/2019	<0.0002		<0.0002	<0.0002				
10/22/2019					<0.0002			
12/3/2019		<0.0002						
3/5/2020	<0.0002	<0.0002	<0.0002	<0.0002				
8/19/2020	<0.0002	<0.0002	<0.0002	<0.0002				
9/16/2020	<0.0002	<0.0002	<0.0002					
9/17/2020				<0.0002				
3/3/2021		<0.0002	<0.0002					
3/4/2021	<0.0002			<0.0002				
9/22/2021		<0.0002						
9/23/2021	<0.0002		<0.0002	<0.0002				
2/1/2022	<0.0002	<0.0002		<0.0002				
2/2/2022			<0.0002					
8/23/2022			<0.0002	<0.0002	<0.0002	0.00265		
8/24/2022	<0.0002	<0.0002						
9/1/2022								0.00142
1/24/2023	<0.0002							
1/25/2023		<0.0002	<0.0002	<0.0002		0.00234	0.0222	
1/26/2023					<0.0002			<0.0002
8/31/2023			<0.0002		<0.0002			
9/6/2023	<0.0002	<0.0002		<0.0002		0.00211	0.0154	<0.0002
2/10/2024	<0.0002				<0.0002			
2/13/2024		<0.0002	<0.0002	<0.0002		0.00209	0.0137	<0.0002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: pH, Field (S.U.) Analysis Run 4/5/2024 2:26 PM View: Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-17S	BRGWC-33S	BRGWC-34S
8/31/2016	7.16	6.2	6.53	6.59				
9/1/2016					6.49			
9/7/2016						6.36	4.92	
9/8/2016								5.84
11/15/2016				6.67	6.59			
11/16/2016	6.96	6.12	6.4					
11/17/2016						6.28	4.82	5.81
2/20/2017			6.44	6.65	6.61			
2/21/2017	7.15	6.24						
2/22/2017						6.4	4.86	5.85
6/12/2017	7.31		6.4	6.64				
6/13/2017		6.19						
6/14/2017							4.86	5.87
9/26/2017	7.02	6.15	6.31	6.58	6.47			
9/27/2017							4.78	5.74
9/28/2017						6.35		
2/13/2018	7.44	6.18	6.62	6.72	6.54			
2/15/2018						6.35	4.84	5.93
6/26/2018	6.93	6.05	6.29	6.43	6.23			
6/27/2018						6.35	4.73	5.68
12/18/2018	6.76	5.92	6.57	6.7	6.71		4.84	5.97
12/19/2018						6.56		
3/19/2019	6.87	6.18	6.45	6.63	6.18	6.43		
3/20/2019							4.77	5.84
8/27/2019	6.79	6.09	6.37	6.49	6.35		4.78	
8/28/2019						6.25	5.52	5.8
10/15/2019	6.57	6.06	6.77	7.01	6.36			
10/16/2019							4.78	5.85
10/17/2019						6.3		
3/3/2020	6.71	6.1	6.29	6.49	6.59	6.34		
3/5/2020							4.82	5.89
8/18/2020	6.59	6.06	6.29	6.41	6.33			
8/19/2020						6.24	4.78	5.78
9/15/2020	6.64	6.01	6.27	6.25	6.43			
9/16/2020						6.26	4.78	5.81
3/1/2021	6.66				6.7			
3/2/2021		6.2	6.47	6.42				
3/3/2021							4.83	5.88
3/4/2021						6.45		
9/21/2021			6.32	6.36				
9/22/2021	6.78	6.06			6.48	6.22	4.81	5.93
2/1/2022	6.83	5.95	6.38	6.39	6.54	6.39	4.82	5.87
8/23/2022	6.67	5.95	6.24	6.36	6.51		4.67	
8/24/2022						6.62		5.75
1/24/2023	6.7	5.26	6.42	6.47	6.54	6.37	4.79	5.93
8/22/2023	6.91	5.97	6.36	6.09	6.27		4.58	5.72
8/23/2023						6.16		
1/30/2024	6.57	6.05	6.44	6.38	5.75	6.28		
1/31/2024							4.78	5.95

Time Series

Constituent: pH, Field (S.U.) Analysis Run 4/5/2024 2:26 PM View: Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-13S	PZ-53D	PZ-52D	PZ-70I
9/7/2016	6.1	5.59		5.43				
9/23/2016				5.46				
9/26/2016					5.68			
11/17/2016	6.04							
11/18/2016		5.51						
11/21/2016				4.84				
2/22/2017	6.08							
2/23/2017		5.65	5.57	4.73				
9/28/2017	6.03	5.62	5.76	4.37				
2/15/2018	6.02	5.66	5.95	4.3				
6/27/2018	6.01							
6/28/2018		5.57	5.78	4.16				
12/19/2018	6.22	5.76	6.07					
12/20/2018				4.21				
1/15/2019					5.52			
3/19/2019		5.72						
3/20/2019	6.06		5.93	4.34				
8/28/2019	5.95	5.52	5.8					
8/29/2019				4.01				
10/16/2019	6.03		5.81	4.21				
10/17/2019		5.61						
10/22/2019					5.49			
3/5/2020	6.04	5.39	5.53	4.01				
8/19/2020	5.97	5.53	5.66	4.12				
9/16/2020	5.96	5.58	5.84					
9/17/2020				4.17				
3/3/2021		5.86	5.87					
3/4/2021	6.14			4.19				
9/22/2021		5.53						
9/23/2021	6.08		5.85	4.05				
2/1/2022	6.09	5.65		4.06				
2/2/2022			5.8					
8/23/2022			5.82	3.97	5.46	7.18		
8/24/2022	6.05	5.59						
1/24/2023	6.08							
1/25/2023		5.64	5.84	4.75		7.1	7.14	
1/26/2023					5.56		7.14	5.6
8/22/2023			5.42		5.37			
8/23/2023	5.9	5.26		3.91			6.99	5.36
8/24/2023						6.54		
1/30/2024	5.5				5.66			
1/31/2024		5.63	5.76	4.1		6.7	7.69	5.5

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/5/2024 2:26 PM View: Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-17S	BRGWC-33S	BRGWC-34S
8/31/2016	<0.0015	<0.0015	<0.0015	<0.0015				
9/1/2016					<0.0015			
9/7/2016						0.0024 (J)	0.0032 (J)	
9/8/2016								<0.0015
11/15/2016				<0.0015	<0.0015			
11/16/2016	<0.0015	<0.0015	<0.0015					
11/17/2016						0.0028 (J)	0.0028 (J)	<0.0015
2/20/2017			<0.0015	<0.0015	<0.0015			
2/21/2017	<0.0015	<0.0015						
2/22/2017						0.0018 (J)	0.0018 (J)	<0.0015
6/12/2017	<0.0015		<0.0015	<0.0015	<0.0015			
6/13/2017		<0.0015						
6/14/2017							0.004 (J)	<0.0015
6/15/2017						0.0024 (J)		
9/26/2017	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015			
9/27/2017							0.0036 (J)	<0.0015
9/28/2017						<0.005		
2/13/2018	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015			
2/15/2018						<0.005	<0.005	<0.0015
6/26/2018	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015			
6/27/2018						0.002 (J)	0.0017 (J)	<0.0015
12/18/2018	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015		<0.005	<0.0015
12/19/2018						0.0014 (J)		
8/27/2019	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015		<0.005	
8/28/2019						0.003 (J)	<0.005	<0.0015
10/15/2019	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015			
10/16/2019							0.0028 (J)	<0.0015
12/3/2019						0.0041 (J)		
3/3/2020	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	0.0019 (J)		
3/5/2020							<0.005	<0.0015
8/18/2020	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015			
8/19/2020						0.003 (J)	<0.005	<0.0015
9/15/2020	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015			
9/16/2020						<0.005	0.0028 (J)	<0.0015
3/1/2021	<0.0015				<0.0015			
3/2/2021		<0.0015	<0.0015	<0.0015				
3/3/2021							<0.005	<0.0015
3/4/2021						<0.005		
9/21/2021			<0.0015	<0.0015				
9/22/2021	<0.0015	<0.0015			<0.0015	0.0015 (J)	<0.005	<0.0015
2/1/2022	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	0.0021 (J)	<0.005	<0.0015
8/23/2022	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015		0.0061	
8/24/2022						0.00208 (J)		<0.0015
1/24/2023	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	0.00178 (J)	0.0049 (J)	<0.0015
8/31/2023	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015		0.00572	<0.0015
9/6/2023						0.00214 (J)		
2/10/2024	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	0.00271 (J)		
2/13/2024							0.0164	<0.0015

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/5/2024 2:26 PM View: Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-13S	PZ-53D	PZ-52D	PZ-70I
9/7/2016	<0.0015	0.0079 (J)		0.0311				
11/17/2016	<0.0015							
11/18/2016		0.0082 (J)						
11/21/2016				0.0409				
2/22/2017	<0.0015							
2/23/2017		0.0061 (J)	<0.0015	0.0354				
4/17/2017			<0.0015					
5/15/2017			<0.0015					
6/15/2017	<0.0015	0.0046 (J)	<0.0015	0.0511				
9/28/2017	<0.0015	0.0042 (J)	<0.0015	0.0484				
2/15/2018	<0.0015	0.0045 (J)	<0.0015	0.0435				
6/27/2018	<0.0015							
6/28/2018		0.0033 (J)	<0.0015	0.037				
12/19/2018	<0.0015	0.0042 (J)	<0.0015					
12/20/2018				0.037				
1/15/2019					0.0033 (J)			
8/28/2019	<0.0015	0.0041 (J)	<0.0015					
8/29/2019				0.036				
10/16/2019	<0.0015		<0.0015	0.033				
10/22/2019					0.0033 (J)			
12/3/2019		0.0035 (J)						
3/5/2020	<0.0015	0.0034 (J)	<0.0015	0.032				
8/19/2020	<0.0015	0.002 (J)	<0.0015	0.041				
9/16/2020	<0.0015	0.0031 (J)	<0.0015					
9/17/2020				0.029				
3/3/2021		0.0024 (J)	<0.0015					
3/4/2021	<0.0015			0.039				
9/22/2021		0.0032 (J)						
9/23/2021	<0.0015		<0.0015	0.031				
2/1/2022	<0.0015	0.0025 (J)		0.029				
2/2/2022			<0.0015					
8/23/2022			<0.0015	0.0296	0.00157 (J)	<0.0015		
8/24/2022	<0.0015	0.00246 (J)						
9/1/2022								0.00625
1/24/2023	<0.0015							
1/25/2023		0.00237 (J)	<0.0015	0.0279		<0.0015	<0.0015	
1/26/2023					0.00215 (J)			0.00921
8/31/2023			<0.0015		<0.005			
9/6/2023	<0.0015	0.00173 (J)		0.0186		<0.0015	<0.0015	0.00829
2/10/2024	<0.0015				0.00203 (J)			
2/13/2024		0.00174 (J)	<0.0015	0.0187		<0.0015	<0.0015	0.00789

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/5/2024 2:26 PM View: Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-17S	BRGWC-33S	BRGWC-34S
8/31/2016	7.5	0.38 (J)	2.7	0.81 (J)				
9/1/2016					0.6 (J)			
9/7/2016						97	260	
9/8/2016								420
11/15/2016				<1 (J)	0.68 (J)			
11/16/2016	6.6	<1 (J)	3.4					
11/17/2016						120 (D)	235 (D)	445 (D)
2/20/2017			3.9 (B-01)	1 (B-01)	0.98 (J)			
2/21/2017	6.1	1.5						
2/22/2017						120	210	410
6/12/2017	5		3.7	0.94 (J)	0.54 (J)			
6/13/2017		0.67 (J)						
6/14/2017							200	410
6/15/2017						130		
9/26/2017	5.4	0.62 (J)	4.1	0.92 (J)	0.53 (J)			
9/27/2017							200	360
9/28/2017						120		
2/13/2018	4.7 (J)	<1	6.6	<1	<1			
2/15/2018						109	197	335
6/26/2018	6.2	0.69 (J)	3.5	0.91 (J)	0.54 (J)			
6/27/2018						118	200	296
12/18/2018	5.9	0.72 (J)	4.3	0.68 (J)	0.39 (J)		222	345
12/19/2018						125		
3/19/2019	6 (D)	0.78 (J)	3	0.74 (J)	0.68 (J)	126		
3/20/2019							204	329
10/15/2019	5.2	0.47 (J)	3.8	0.68 (J)	0.48 (J)			
10/16/2019							226	325
12/3/2019						180		
3/3/2020	7.1	0.93 (J)	2.8	0.71 (J)	2.5	95.4		
3/5/2020							173	287
9/15/2020	5.9	<1	1.7	<1	<1			
9/16/2020						151	154	283
3/1/2021	4.7				0.74 (J)			
3/2/2021		<1	2.2	<1				
3/3/2021							133	277
3/4/2021						122		
9/21/2021			2.3	<1				
9/22/2021	5.2	<1			<1	123	94.6	232
2/1/2022	5.4	<1	2	<1	<1	139	99.7	243
8/23/2022	5.66	0.452	2.21	0.521	0.479		385	
8/24/2022						157		268
1/24/2023	3.58	0.465	3.34	0.66	0.484	153	375	267
8/23/2023	6.85	0.526	1.83	0.54	0.467			
8/24/2023							466	299
8/25/2023						180		
1/31/2024	2.65	0.423	2.74	0.617	0.456			
2/1/2024						189		
2/3/2024								289
2/5/2024							872	

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/5/2024 2:26 PM View: Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-13S	PZ-53D	PZ-52D	PZ-70I
9/7/2016	260	300		440				
11/17/2016	285 (D)							
11/18/2016		245 (D)						
11/21/2016				490 (D)				
2/22/2017	270							
2/23/2017		330	0.55 (J)	470				
4/17/2017			0.44 (J)					
5/15/2017			0.45 (J)					
6/15/2017	280	310	0.46 (J)	490				
9/28/2017	240	290	0.49 (J)	470				
2/15/2018	266	292	1.9 (o)	432				
6/27/2018	278							
6/28/2018		284	0.24 (J)	453				
12/19/2018	287	319	0.4 (J)					
12/20/2018				463				
1/15/2019					152			
3/19/2019		307						
3/20/2019	268		<1 (X)	405				
10/16/2019	277		0.29 (J)	432				
10/22/2019					93.2			
12/3/2019		256						
3/5/2020	269	262	<1	370				
9/16/2020	270	256	<1					
9/17/2020				356				
3/3/2021		252	<1					
3/4/2021	251			325				
9/22/2021		234						
9/23/2021	258		<1	318				
2/1/2022	256	195		287				
2/2/2022			<1					
8/23/2022			0.307 (J)	389	51	348		
8/24/2022	279	224						
9/1/2022							340	172
1/24/2023	334							
1/25/2023		237	0.325 (J)	291		285		
1/26/2023					75.3		142	147
8/23/2023			0.355 (J)					
8/24/2023					46.2			
8/25/2023	269	223		274			112	139
8/26/2023						293		
2/1/2024	278		0.258 (J)		76.9			
2/3/2024		222		233		302	94.4	133

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/5/2024 2:26 PM View: Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-17S	BRGWC-33S	BRGWC-34S
8/31/2016	<0.0006	<0.0006	<0.0006	<0.0006				
9/1/2016					<0.0006			
9/7/2016						<0.0006	0.0002 (J)	
9/8/2016								<0.0006
11/15/2016				<0.0006	<0.0006			
11/16/2016	<0.0006	<0.0006	<0.0006					
11/17/2016						<0.0006	0.0002 (J)	<0.0006
2/20/2017			<0.0006	<0.0006	<0.0006			
2/21/2017	<0.0006	<0.0006						
2/22/2017						<0.0006	0.0002 (J)	<0.0006
6/12/2017	<0.0006		<0.0006	<0.0006	<0.0006			
6/13/2017		<0.0006						
6/14/2017							0.0002 (J)	<0.0006
6/15/2017						<0.0006		
9/26/2017	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006			
9/27/2017							0.0002 (J)	<0.0006
9/28/2017						<0.0006		
2/13/2018	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006			
2/15/2018						<0.0006	0.00024 (J)	<0.0006
6/26/2018	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006			
6/27/2018						<0.0006	0.00022 (J)	<0.0006
12/18/2018	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006		0.00022 (J)	<0.0006
12/19/2018						<0.0006		
8/27/2019	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006		0.00016 (J)	
8/28/2019						<0.0006	0.00016 (J)	<0.0006
10/15/2019	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006			
10/16/2019							0.00019 (J)	<0.0006
12/3/2019						6.6E-05 (J)		
3/3/2020	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006		
3/5/2020							0.0002 (J)	<0.0006
8/18/2020	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006			
8/19/2020						<0.0006	0.00018 (J)	<0.0006
9/15/2020	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006			
9/16/2020						<0.0006	0.00018 (J)	<0.0006
3/1/2021	<0.0006				<0.0006			
3/2/2021		<0.0006	<0.0006	<0.0006				
3/3/2021							0.00018 (J)	<0.0006
3/4/2021						<0.0006		
9/21/2021			<0.0006	<0.0006				
9/22/2021	<0.0006	<0.0006			<0.0006	<0.0006	<0.0006	<0.0006
2/1/2022	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
8/23/2022	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006		<0.0006	
8/24/2022						<0.0006		<0.0006
1/24/2023	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
8/31/2023	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006		<0.0006	<0.0006
9/6/2023						<0.0006		
2/10/2024	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006		
2/13/2024							<0.0006	<0.0006

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/5/2024 2:26 PM View: Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-13S	PZ-53D	PZ-52D	PZ-70I
9/7/2016	<0.0006	<0.0006		<0.0006				
11/17/2016	<0.0006							
11/18/2016		<0.0006						
11/21/2016				0.0004 (J)				
2/22/2017	<0.0006							
2/23/2017		<0.0006	<0.0006	0.0003 (J)				
4/17/2017			<0.0006					
5/15/2017			<0.0006					
6/15/2017	<0.0006	<0.0006	<0.0006	0.0003 (J)				
9/28/2017	<0.0006	<0.0006	<0.0006	0.0003 (J)				
2/15/2018	<0.0006	<0.0006	<0.0006	0.00026 (J)				
6/27/2018	<0.0006							
6/28/2018		<0.0006	<0.0006	0.00018 (J)				
12/19/2018	<0.0006	<0.0006	<0.0006					
12/20/2018				<0.0006 (X)				
1/15/2019					<0.0006			
8/28/2019	<0.0006	<0.0006	<0.0006					
8/29/2019				0.00021 (J)				
10/16/2019	<0.0006		<0.0006	0.0002 (J)				
10/22/2019					<0.0006			
12/3/2019		<0.0006						
3/5/2020	<0.0006	<0.0006	<0.0006	0.0002 (J)				
8/19/2020	<0.0006	<0.0006	<0.0006	0.00019 (J)				
9/16/2020	<0.0006	<0.0006	<0.0006					
9/17/2020				0.00017 (J)				
3/3/2021		<0.0006	<0.0006					
3/4/2021	<0.0006			<0.0006				
9/22/2021		<0.0006						
9/23/2021	<0.0006		<0.0006	0.00022 (J)				
2/1/2022	<0.0006	<0.0006		<0.0006				
2/2/2022			<0.0006					
8/23/2022			<0.0006	<0.0006	<0.0006	<0.0006		
8/24/2022	<0.0006	<0.0006						
9/1/2022								<0.0006
1/24/2023	<0.0006							
1/25/2023		<0.0006	<0.0006	<0.0006		<0.0006	<0.0006	
1/26/2023					<0.0006			<0.0006
8/31/2023			<0.0006		<0.0006			
9/6/2023	<0.0006	<0.0006		<0.0006		<0.0006	<0.0006	<0.0006
2/10/2024	<0.0006				<0.0006			
2/13/2024		<0.0006	<0.0006	<0.0006		<0.0006	<0.0006	<0.0006

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/5/2024 2:26 PM View: Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-17S	BRGWC-33S	BRGWC-34S
8/31/2016	151	88	138	154				
9/1/2016					299 (o)			
9/7/2016						331	382	
9/8/2016								663
11/15/2016				123	41			
11/16/2016	69	41	77					
11/17/2016						308	382	651
2/20/2017			170	158	133			
2/21/2017	68	<25						
2/22/2017						341	387	706
6/12/2017	161		132	142	61			
6/13/2017		53						
6/14/2017							316	643
6/15/2017						333		
9/26/2017	167	45	108	138	29			
9/27/2017							303	579
9/28/2017						310		
2/13/2018	165	63	141	150	61			
2/15/2018						292	332	612
6/26/2018	188	71	133	154	71			
6/27/2018						353 (X)	538 (X)	359 (X)
12/18/2018	145 (X)	78 (X)	138 (X)	147	70 (X)		358	535
12/19/2018						317		
3/19/2019	146.5 (D)	68	130	146	72	303		
3/20/2019							338	517
10/15/2019	140	66	175	144	63			
10/16/2019							281	473
12/3/2019						378		
3/3/2020	155	41	<10	130	54	263		
3/5/2020							292	489
9/15/2020	116	69	100	116	79			
9/16/2020						316	88	392
3/1/2021	98				39			
3/2/2021		43	80	96				
3/3/2021							212	422
3/4/2021						316		
9/21/2021			108	104				
9/22/2021	129	66			62	323	190	406
2/1/2022	126	72	129	124	61	354	209	449
8/23/2022	117	45	107	101	52		614	
8/24/2022						370		452
1/24/2023	93	63	124	104	64	344	615	433
8/25/2023		36		73			778	495
8/28/2023	81		80		30	391		
2/6/2024	98	54	118	113	45	413		
2/7/2024							1420	494

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/5/2024 2:26 PM View: Pond E

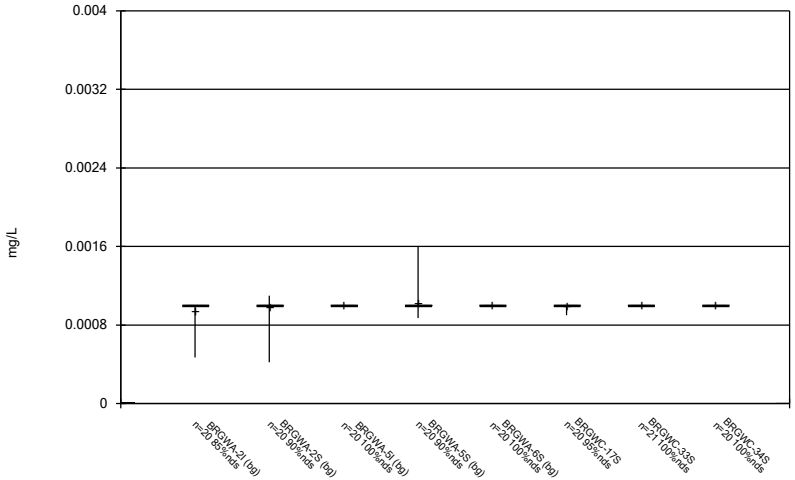
Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-13S	PZ-53D	PZ-52D	PZ-70I
9/7/2016	486	528		750				
11/17/2016	453							
11/18/2016		524						
11/21/2016				795				
2/22/2017	541							
2/23/2017		517	45	733				
4/17/2017			53					
5/15/2017			48					
6/15/2017	548	566	63	812				
9/28/2017	487	475	39	690				
2/15/2018	500	513	54	722				
6/27/2018	347 (X)							
6/28/2018		499	59 (X)	704				
12/19/2018	489	521	68					
12/20/2018				642				
1/15/2019					284			
3/19/2019		498						
3/20/2019	501		68 (X)	615				
10/16/2019	481		49	630				
10/22/2019					203			
12/3/2019		498						
3/5/2020	535	457	39	608				
9/16/2020	474	463	31					
9/17/2020				587				
3/3/2021		442	33					
3/4/2021	480			540				
9/22/2021		457						
9/23/2021	511		49	528				
2/1/2022	521	441		560				
2/2/2022			46					
8/23/2022			40	568	130	543		
8/24/2022	507	418						
9/1/2022							754	321
1/24/2023	507							
1/25/2023		418	28	484		517	443	
1/26/2023					148			272
8/25/2023			42		112			
8/29/2023	485	398		459			372	252
8/30/2023						499		
2/6/2024	502				161			
2/7/2024		435	37	393		547	342	252

FIGURE B.

Sanitas™ v.10.0.16 . UG

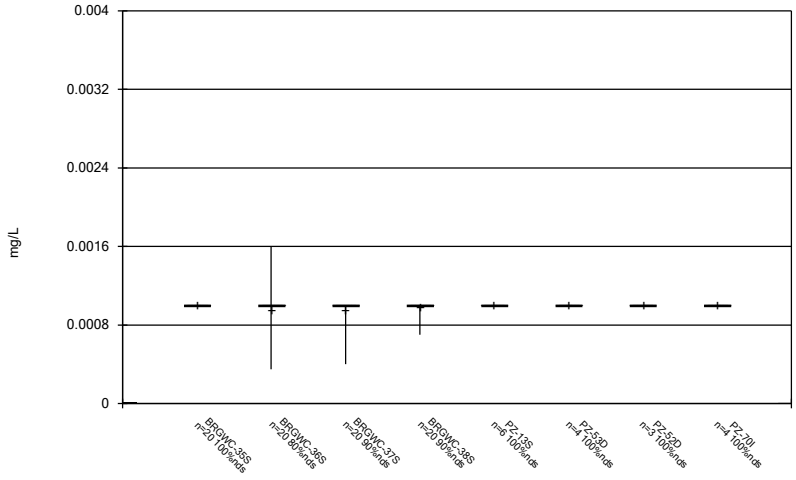
Box & Whiskers Plot



Constituent: Antimony Analysis Run 4/5/2024 2:26 PM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

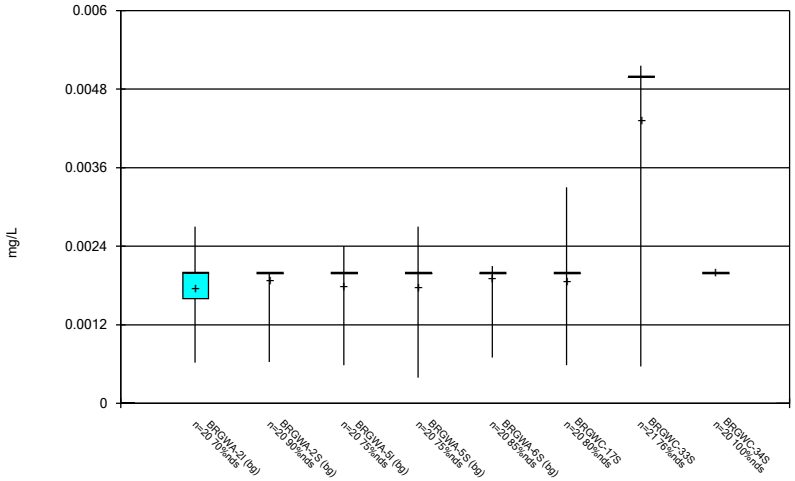
Box & Whiskers Plot



Constituent: Antimony Analysis Run 4/5/2024 2:26 PM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

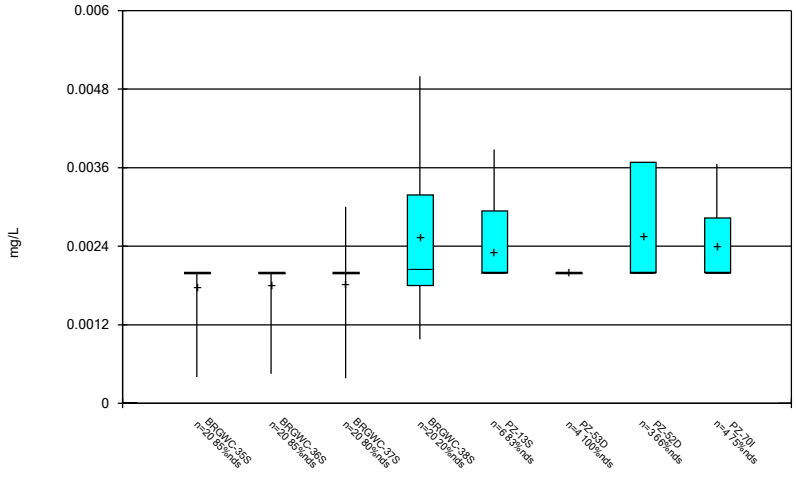
Box & Whiskers Plot



Constituent: Arsenic Analysis Run 4/5/2024 2:26 PM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

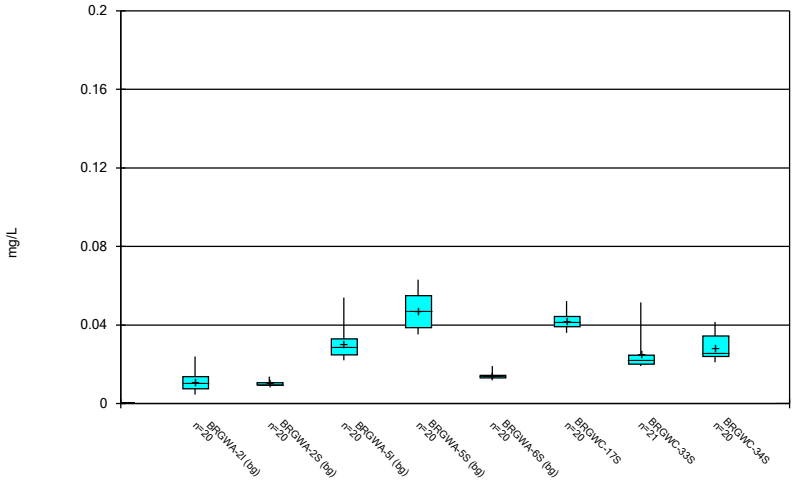
Box & Whiskers Plot



Constituent: Arsenic Analysis Run 4/5/2024 2:26 PM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

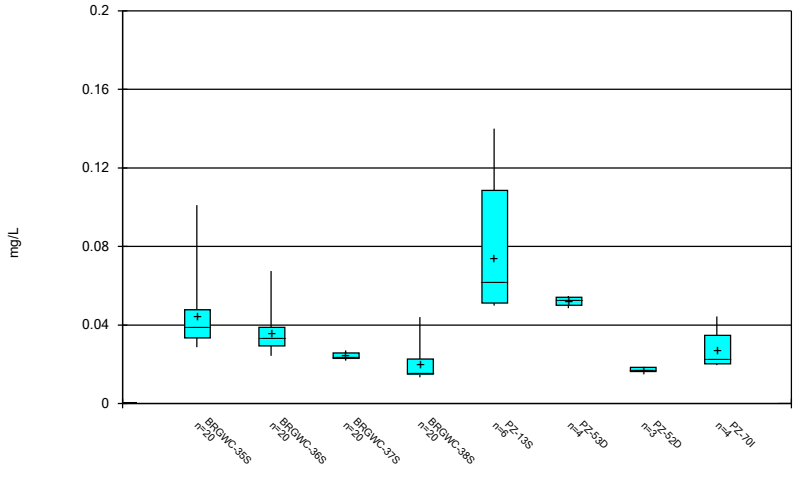
Box & Whiskers Plot



Constituent: Barium Analysis Run 4/5/2024 2:26 PM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

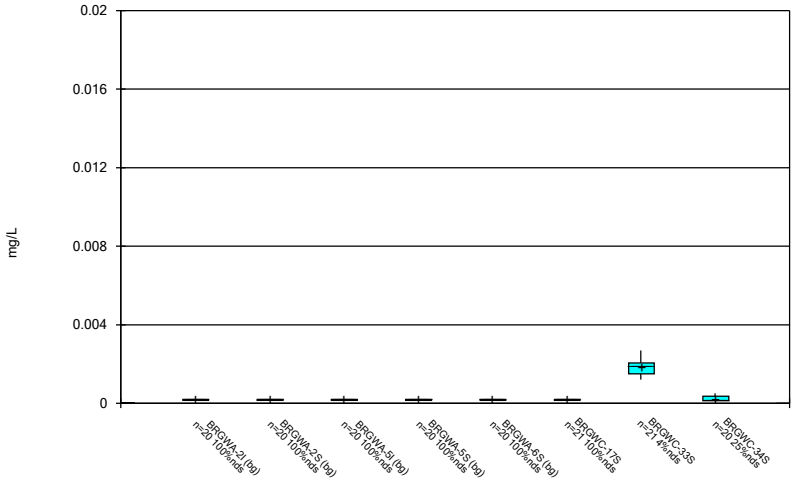
Box & Whiskers Plot



Constituent: Barium Analysis Run 4/5/2024 2:26 PM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

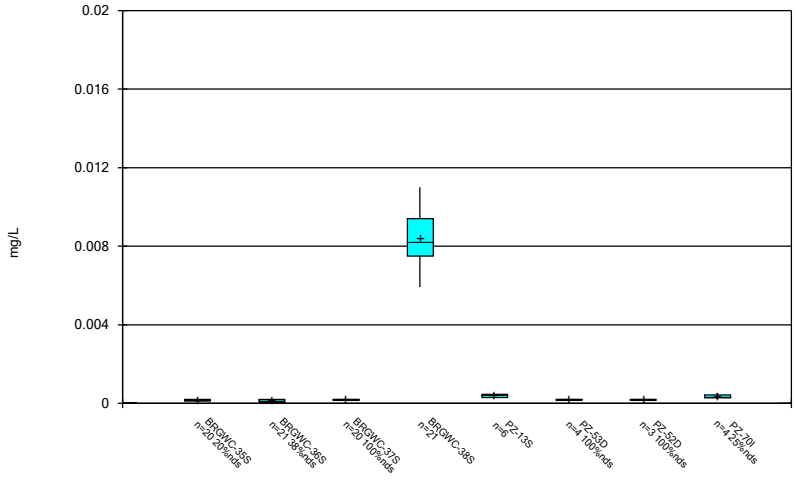
Box & Whiskers Plot



Constituent: Beryllium Analysis Run 4/5/2024 2:26 PM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

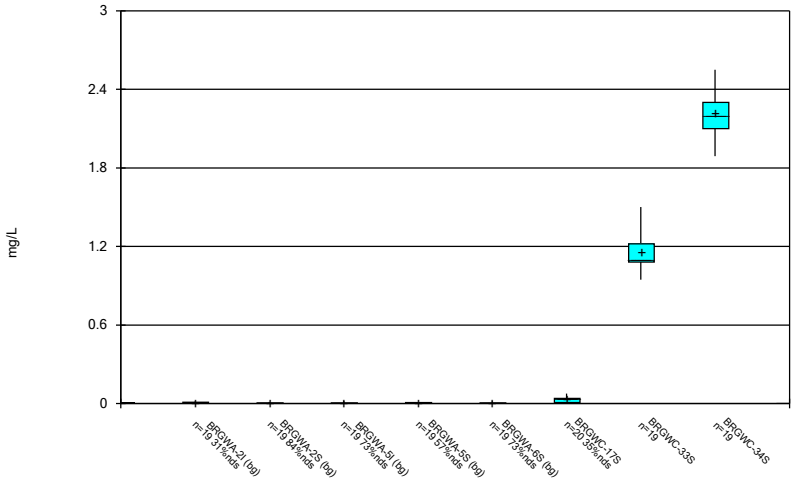
Box & Whiskers Plot



Constituent: Beryllium Analysis Run 4/5/2024 2:26 PM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

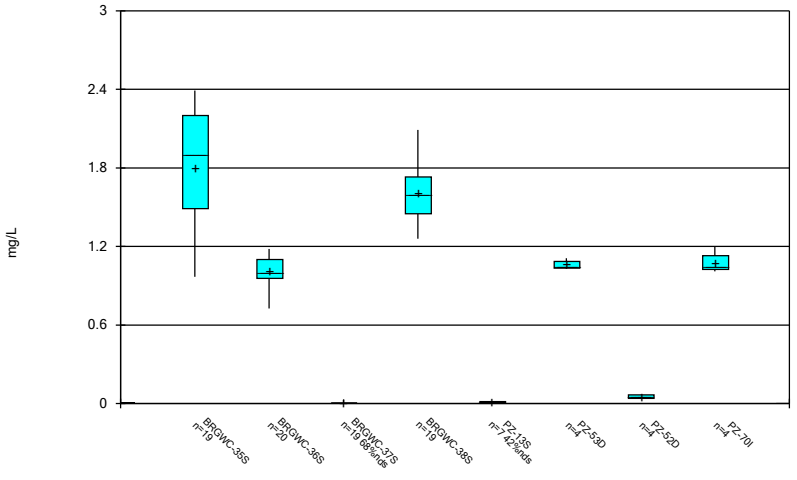
Box & Whiskers Plot



Constituent: Boron Analysis Run 4/5/2024 2:26 PM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

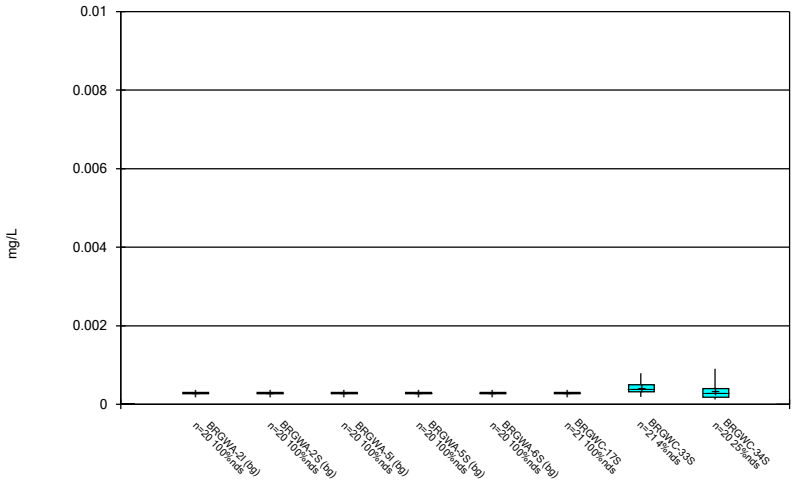
Box & Whiskers Plot



Constituent: Boron Analysis Run 4/5/2024 2:26 PM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

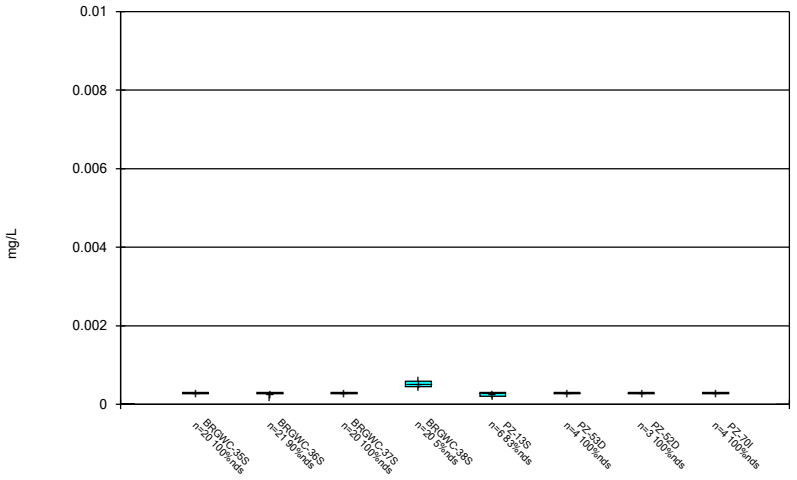
Box & Whiskers Plot



Constituent: Cadmium Analysis Run 4/5/2024 2:26 PM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

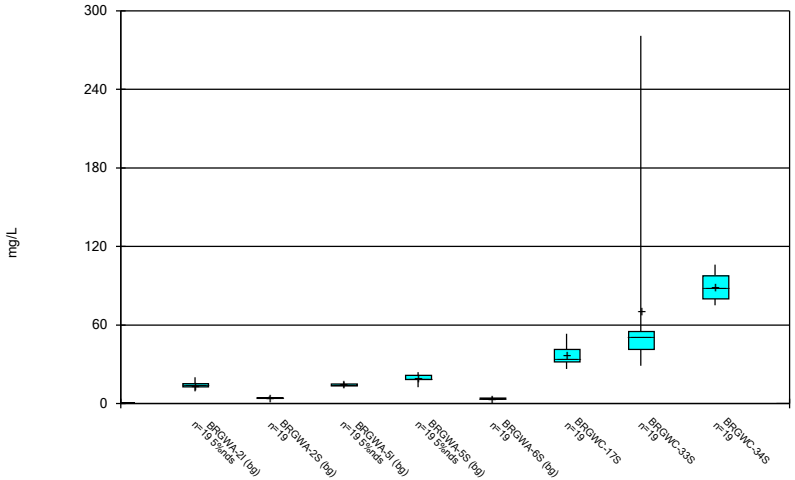
Box & Whiskers Plot



Constituent: Cadmium Analysis Run 4/5/2024 2:26 PM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

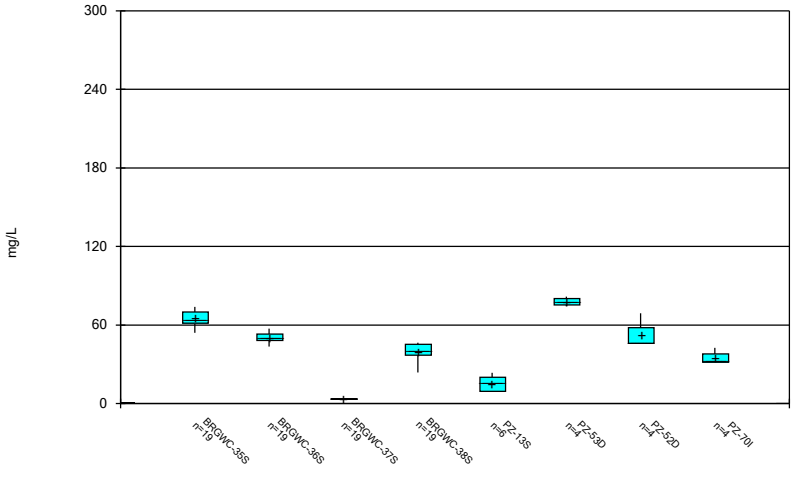
Box & Whiskers Plot



Constituent: Calcium Analysis Run 4/5/2024 2:26 PM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

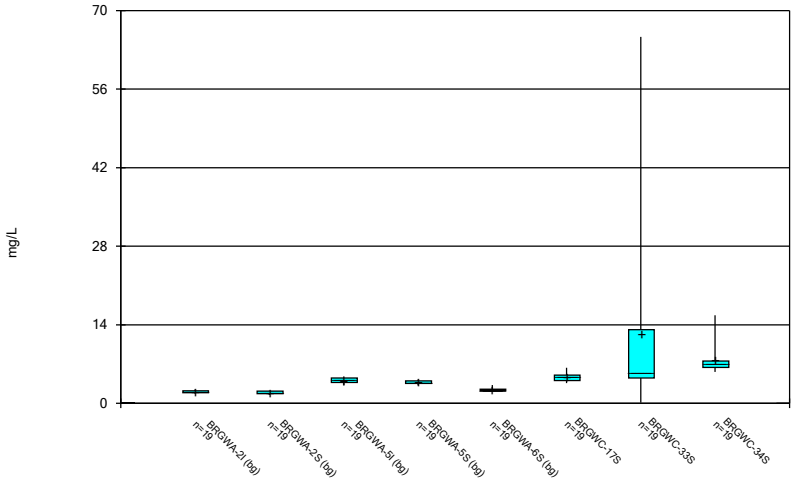
Box & Whiskers Plot



Constituent: Calcium Analysis Run 4/5/2024 2:27 PM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

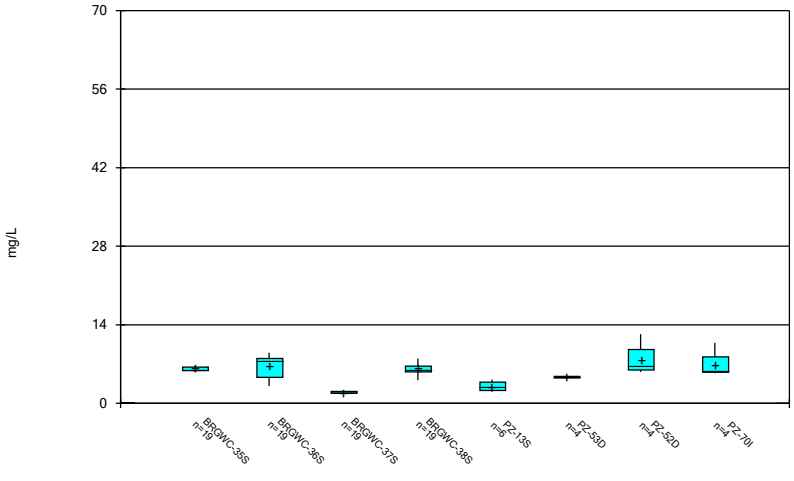
Box & Whiskers Plot



Constituent: Chloride Analysis Run 4/5/2024 2:27 PM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

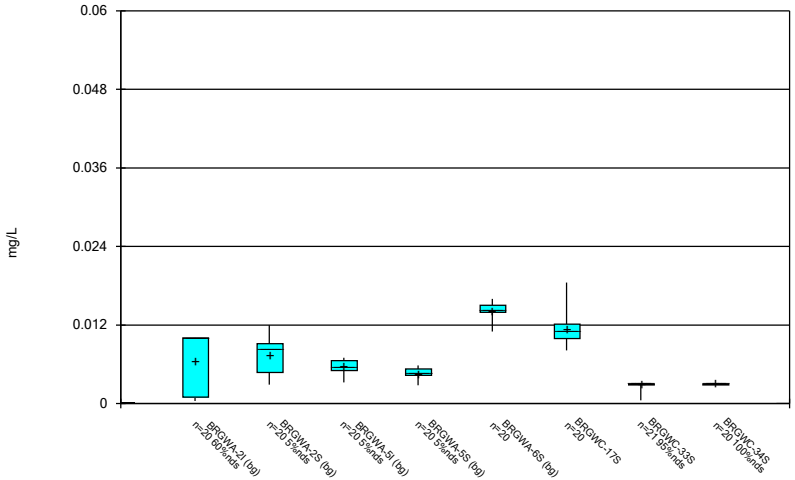
Box & Whiskers Plot



Constituent: Chloride Analysis Run 4/5/2024 2:27 PM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

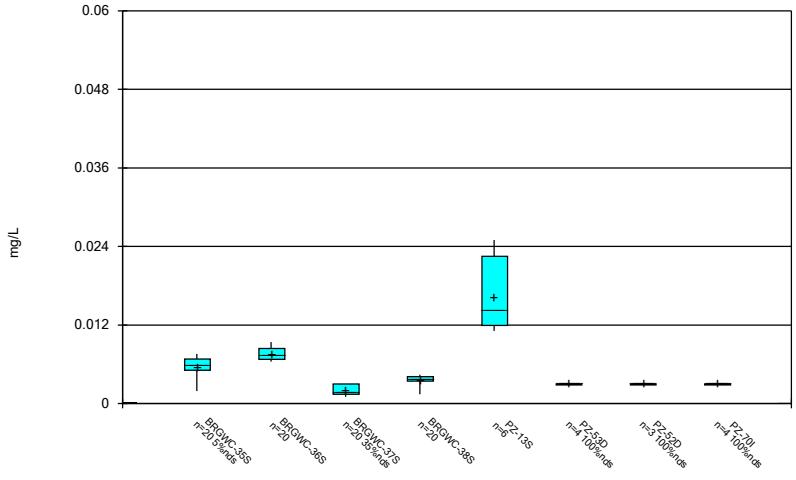
Box & Whiskers Plot



Constituent: Chromium Analysis Run 4/5/2024 2:27 PM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

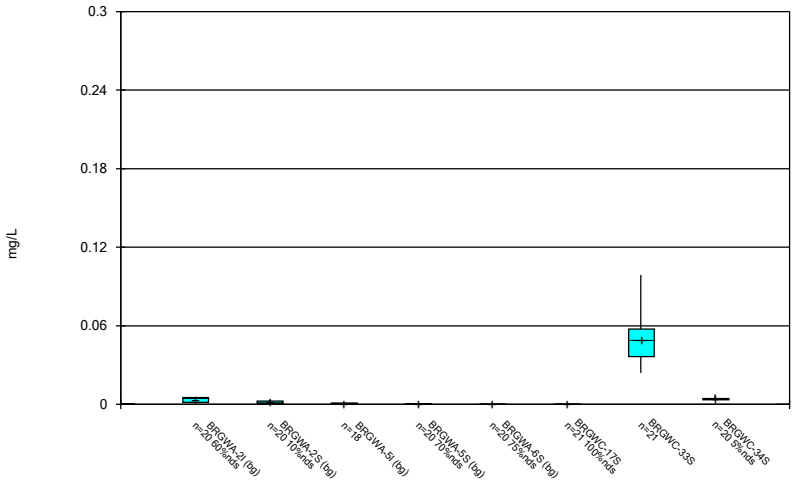
Box & Whiskers Plot



Constituent: Chromium Analysis Run 4/5/2024 2:27 PM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

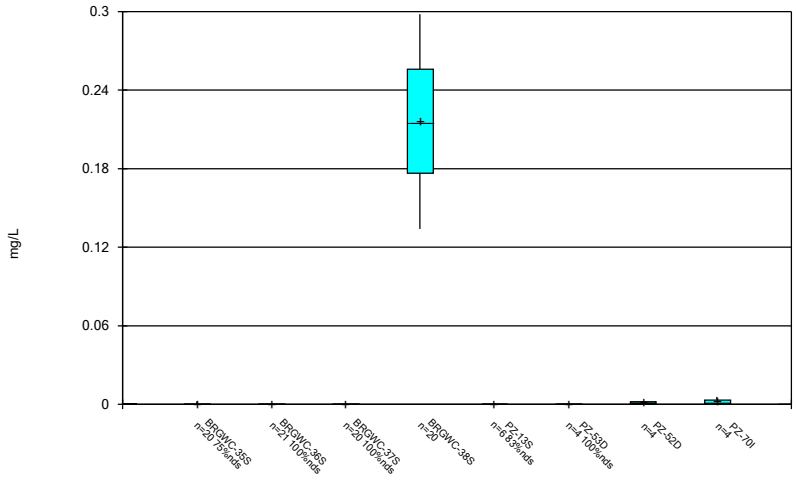
Box & Whiskers Plot



Constituent: Cobalt Analysis Run 4/5/2024 2:27 PM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

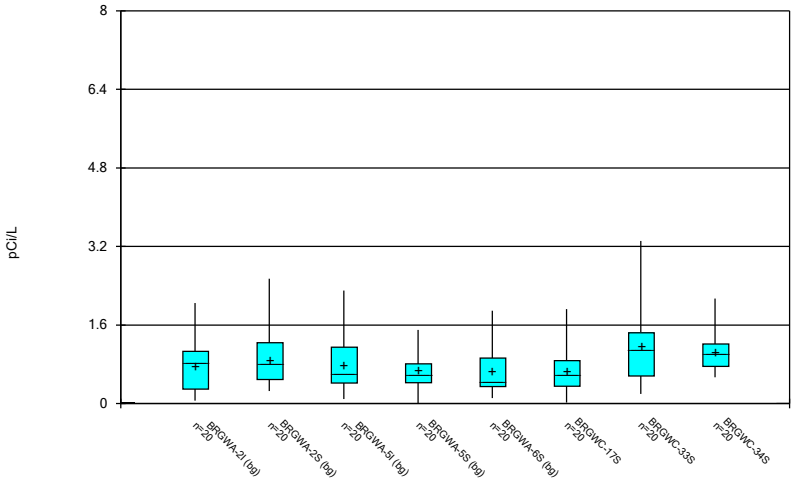
Box & Whiskers Plot



Constituent: Cobalt Analysis Run 4/5/2024 2:27 PM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

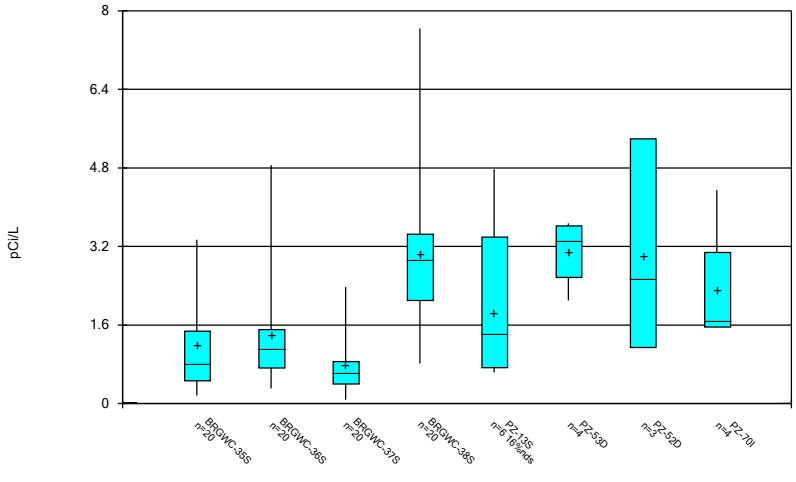
Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 4/5/2024 2:27 PM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

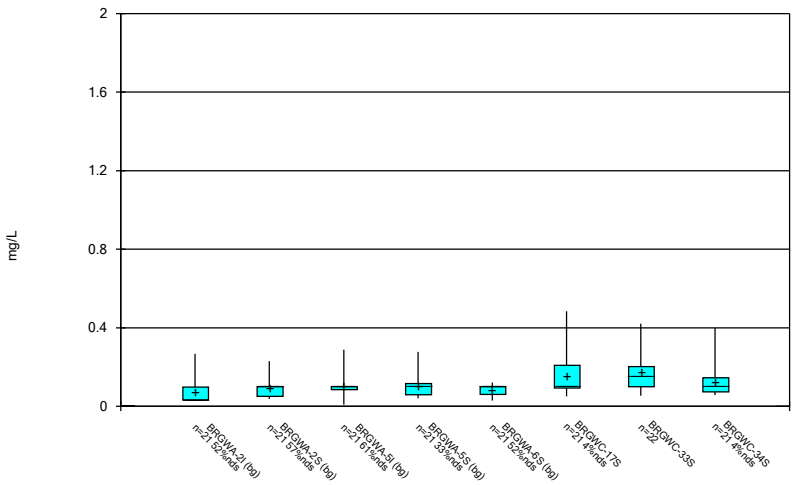
Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 4/5/2024 2:27 PM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

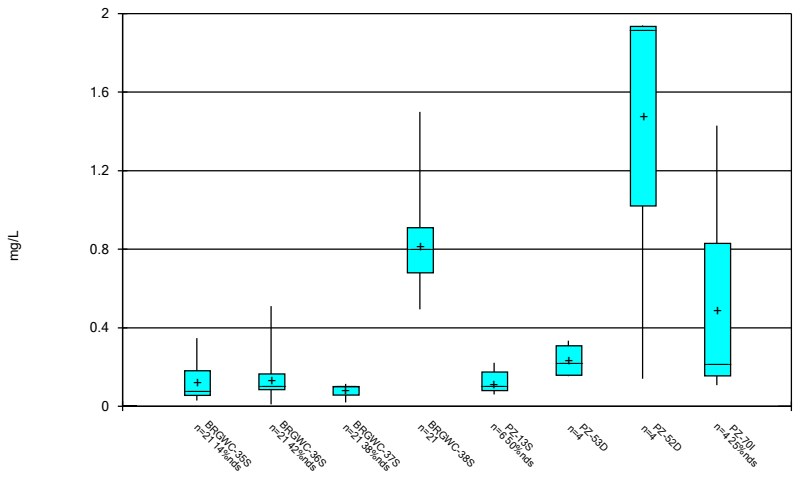
Box & Whiskers Plot



Constituent: Fluoride Analysis Run 4/5/2024 2:27 PM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

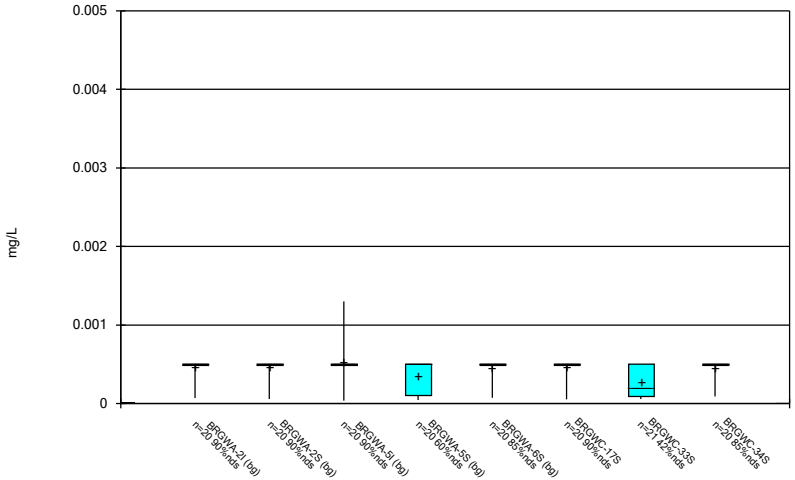
Box & Whiskers Plot



Constituent: Fluoride Analysis Run 4/5/2024 2:27 PM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

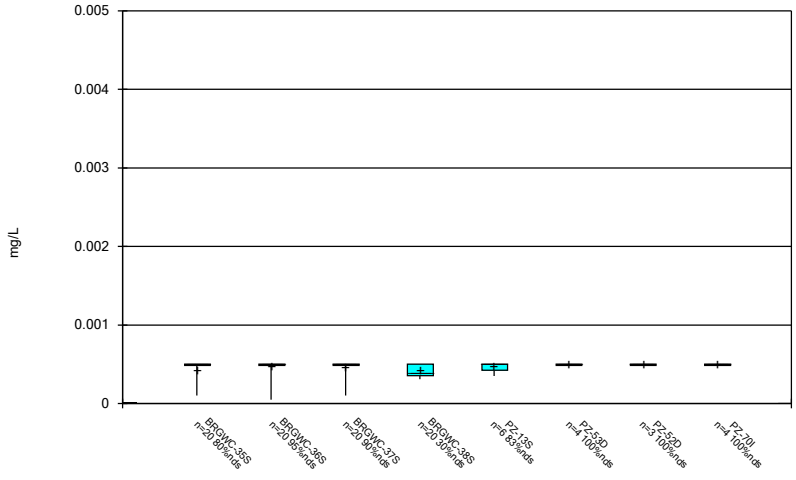
Box & Whiskers Plot



Constituent: Lead Analysis Run 4/5/2024 2:27 PM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

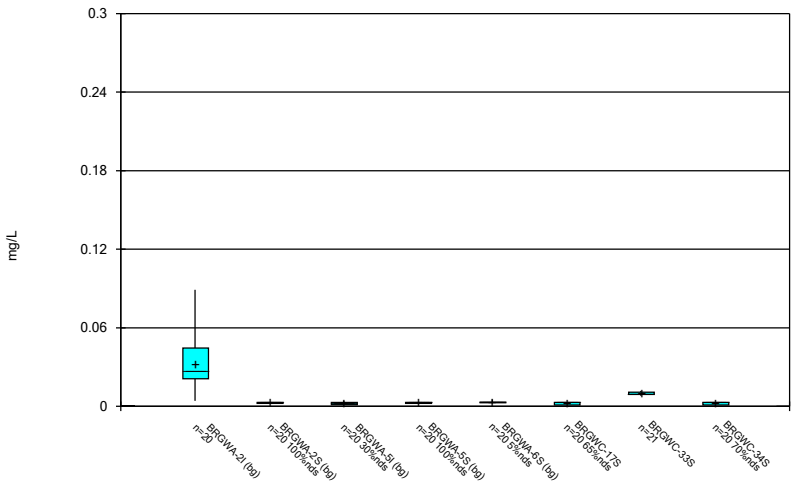
Box & Whiskers Plot



Constituent: Lead Analysis Run 4/5/2024 2:27 PM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

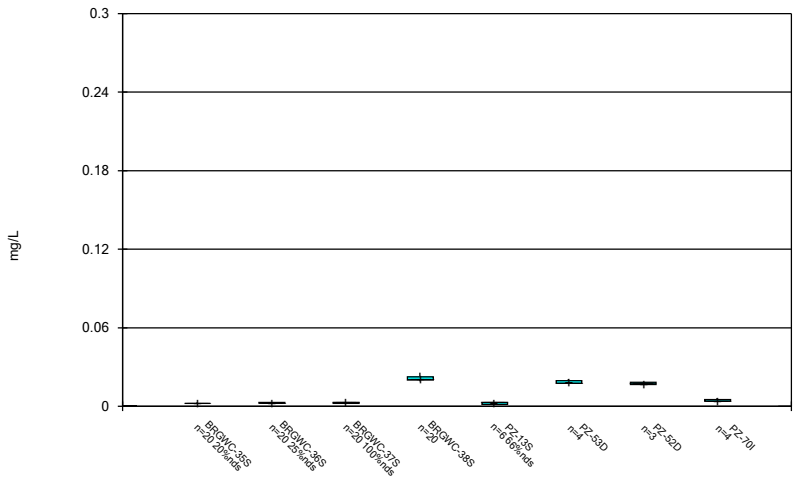
Box & Whiskers Plot



Constituent: Lithium Analysis Run 4/5/2024 2:27 PM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

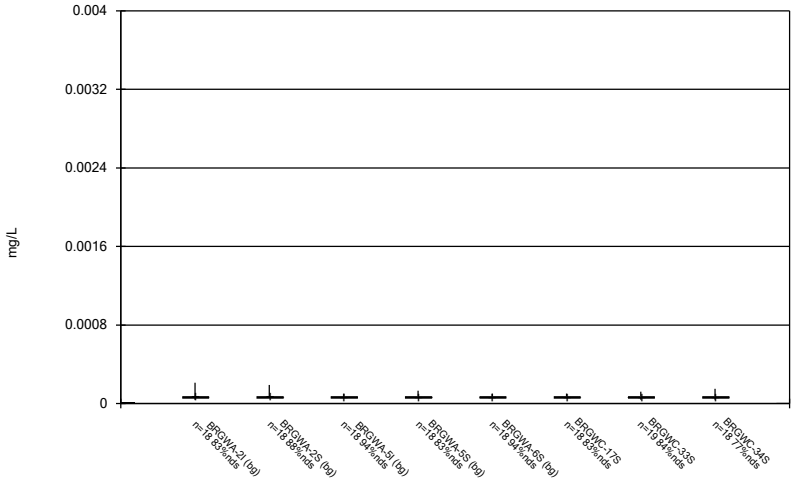
Box & Whiskers Plot



Constituent: Lithium Analysis Run 4/5/2024 2:27 PM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

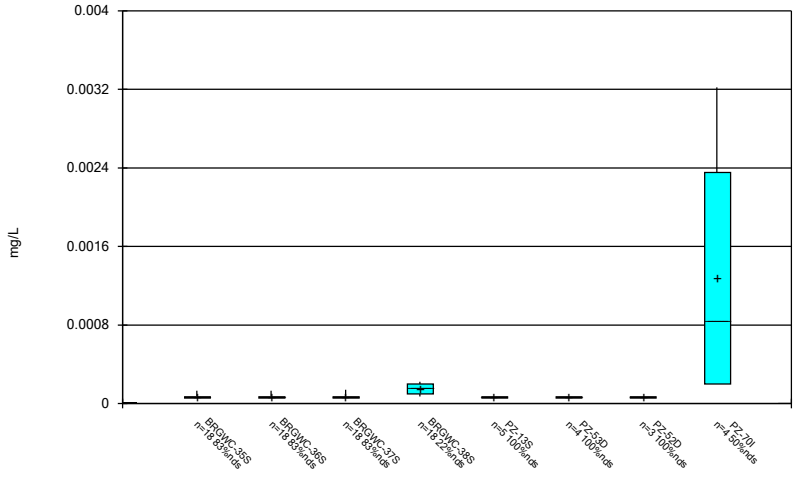
Box & Whiskers Plot



Constituent: Mercury Analysis Run 4/5/2024 2:27 PM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

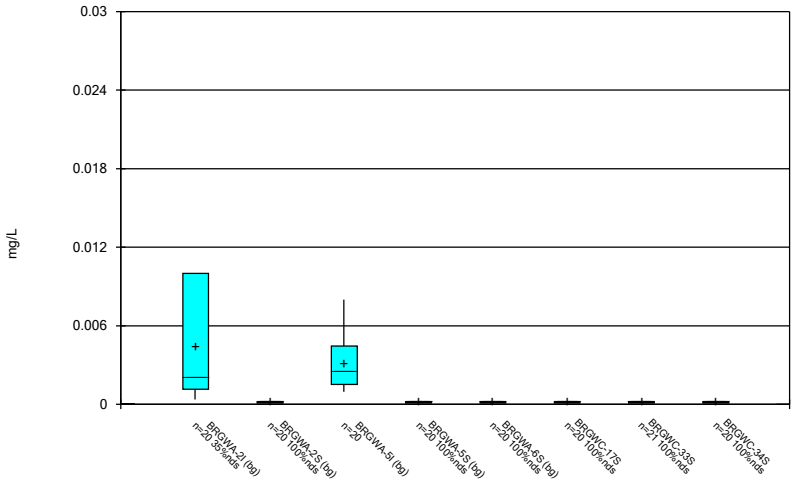
Box & Whiskers Plot



Constituent: Mercury Analysis Run 4/5/2024 2:27 PM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

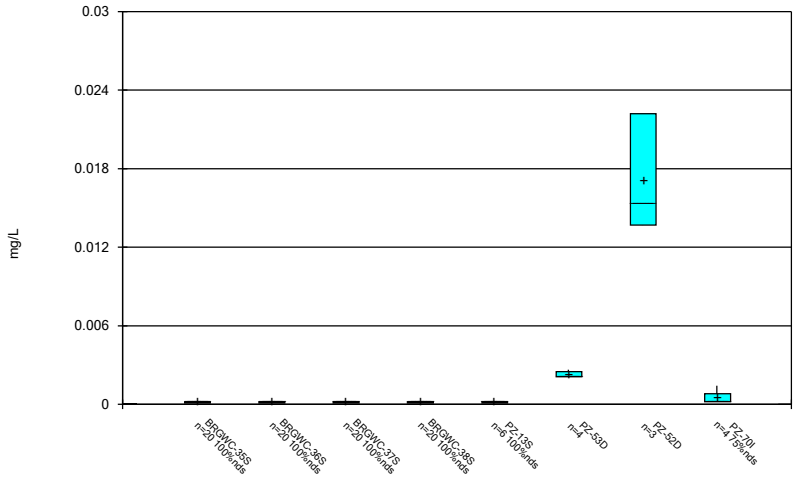
Box & Whiskers Plot



Constituent: Molybdenum Analysis Run 4/5/2024 2:27 PM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

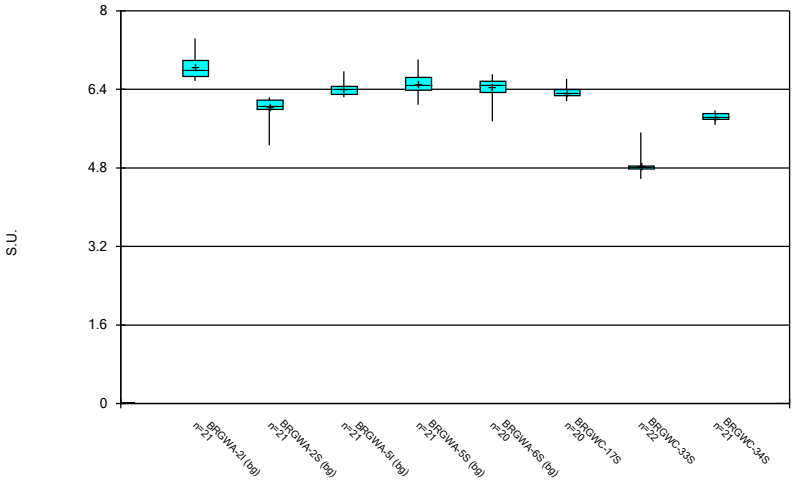
Box & Whiskers Plot



Constituent: Molybdenum Analysis Run 4/5/2024 2:27 PM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

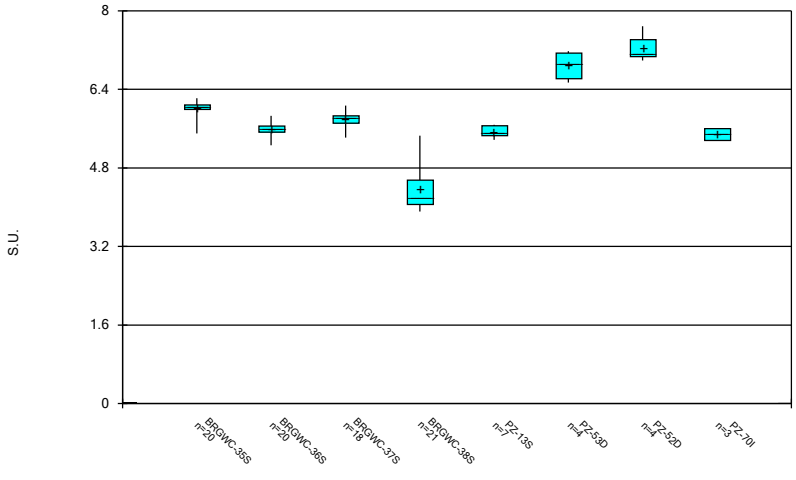
Box & Whiskers Plot



Constituent: pH, Field Analysis Run 4/5/2024 2:27 PM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

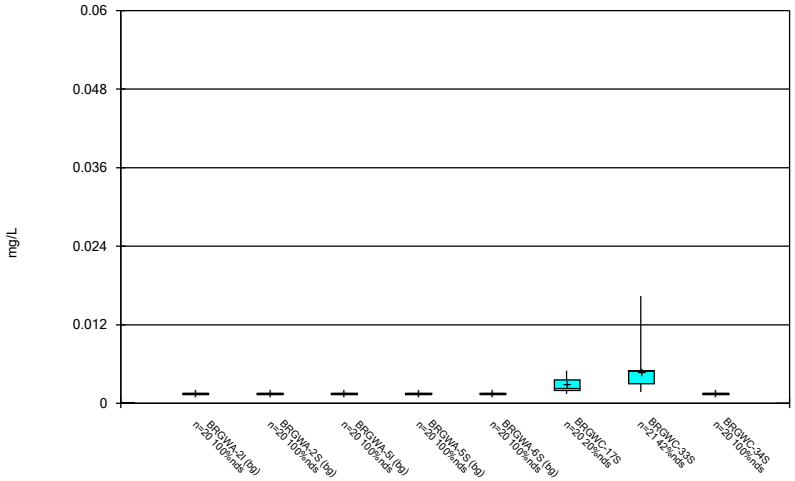
Box & Whiskers Plot



Constituent: pH, Field Analysis Run 4/5/2024 2:27 PM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

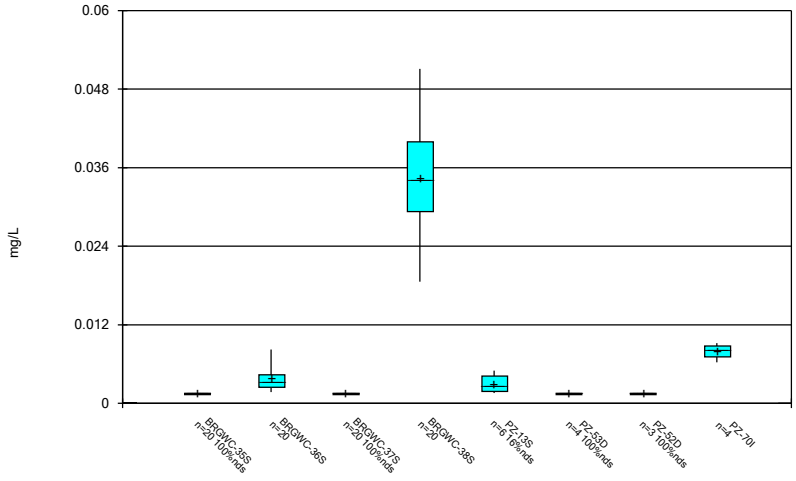
Box & Whiskers Plot



Constituent: Selenium Analysis Run 4/5/2024 2:27 PM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

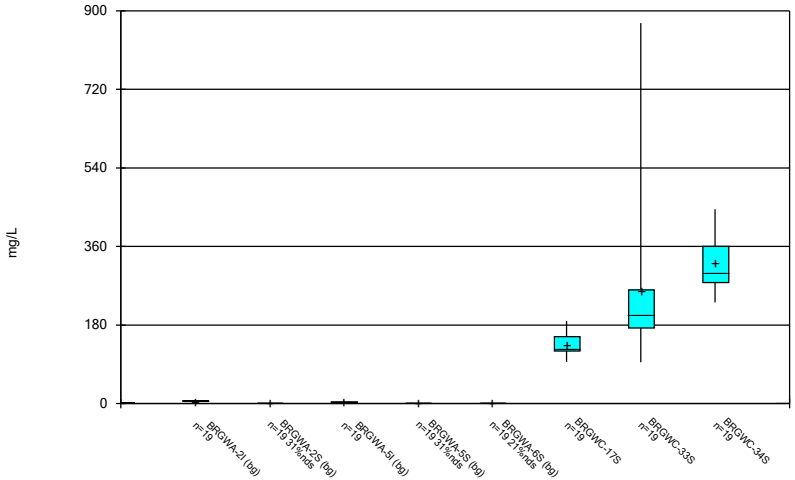
Box & Whiskers Plot



Constituent: Selenium Analysis Run 4/5/2024 2:27 PM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

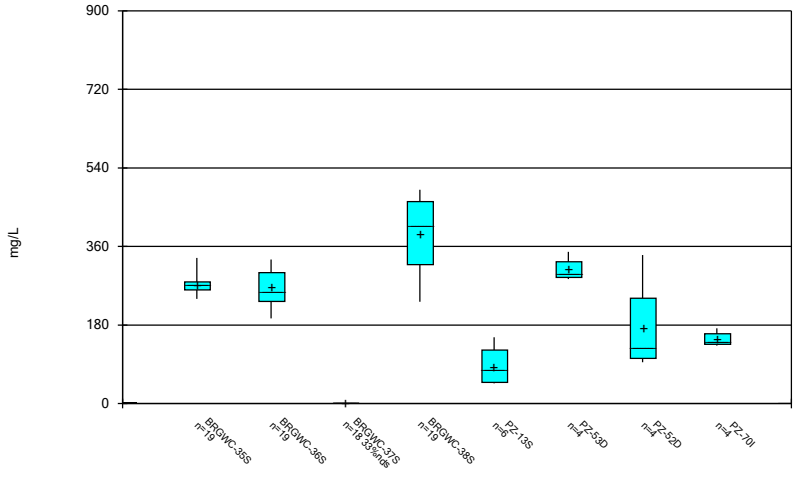
Box & Whiskers Plot



Constituent: Sulfate Analysis Run 4/5/2024 2:27 PM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

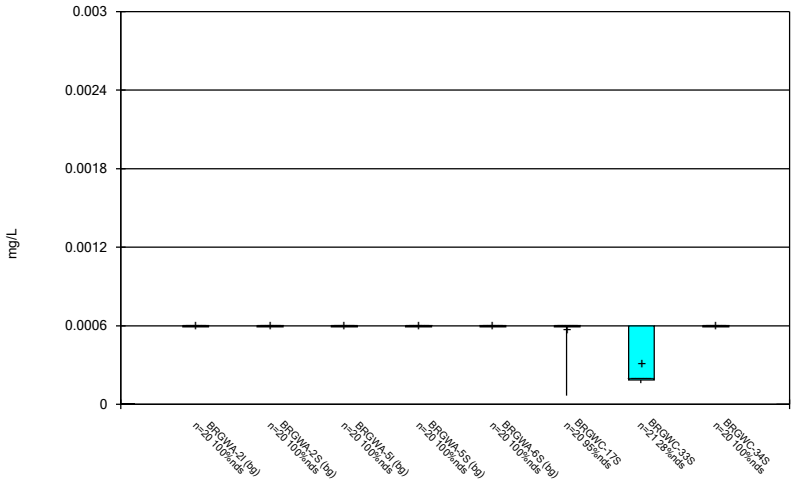
Box & Whiskers Plot



Constituent: Sulfate Analysis Run 4/5/2024 2:27 PM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

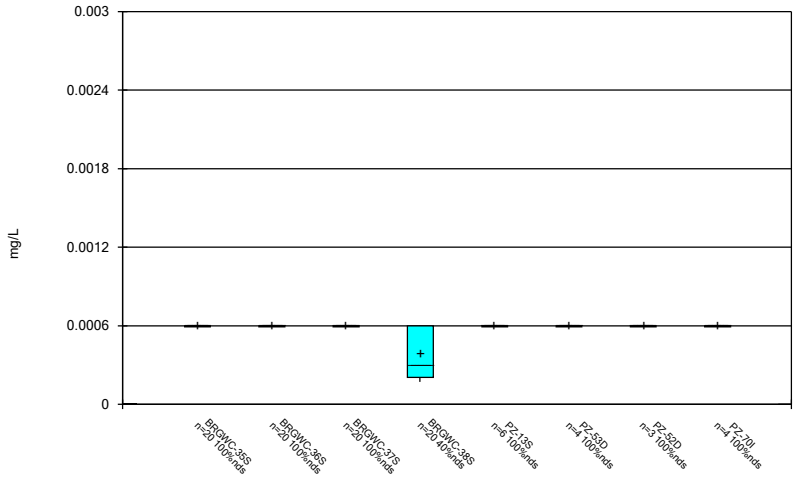
Box & Whiskers Plot



Constituent: Thallium Analysis Run 4/5/2024 2:27 PM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

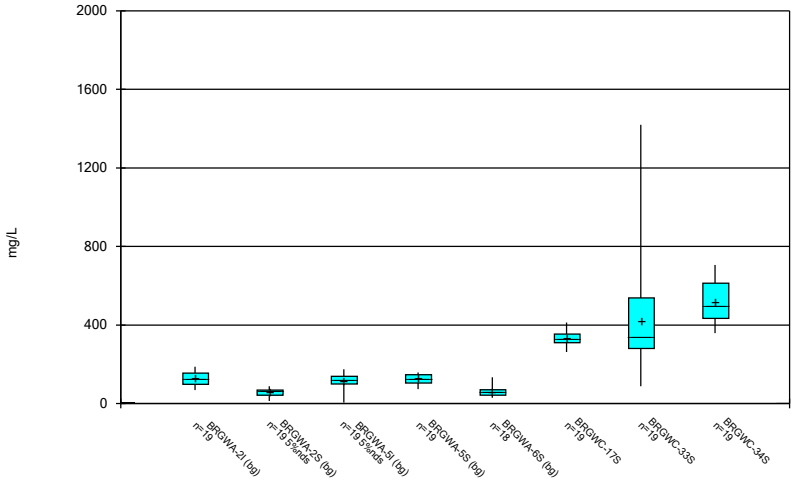
Sanitas™ v.10.0.16 . UG

Box & Whiskers Plot



Constituent: Thallium Analysis Run 4/5/2024 2:27 PM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

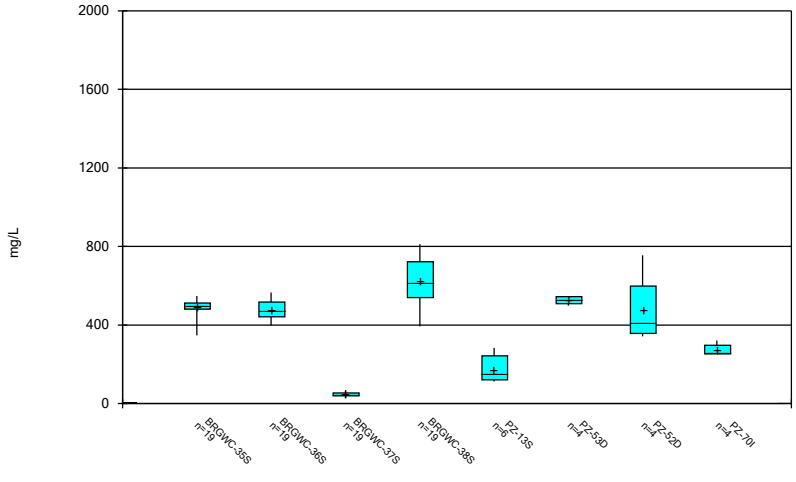
Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 4/5/2024 2:27 PM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 4/5/2024 2:27 PM View: Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

FIGURE C.

Outlier Summary

Plant Branch Data: Plant Branch AP Printed 4/1/2024, 2:14 PM

	BRGWA-5I Cobalt (mg/L)	BRGWC-37S Sulfate (mg/L)	BRGWA-6S Total Dissolved Solids (mg/L)
9/1/2016			299 (o)
11/16/2016	<0.01 (o)		
2/13/2018	<0.01 (o)		
2/15/2018		1.9 (o)	

FIGURE D.

Appendix III - Interwell Prediction Limits - Significant Results

Plant Branch Data: Plant Branch AP Printed 4/3/2024, 2:14 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	BRGWC-17S	0.0187	n/a	2/12/2024	0.0758	Yes	95	n/a	n/a	64.21	n/a	n/a	0.000215	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-33S	0.0187	n/a	2/14/2024	1.28	Yes	95	n/a	n/a	64.21	n/a	n/a	0.000215	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-34S	0.0187	n/a	2/14/2024	2.14	Yes	95	n/a	n/a	64.21	n/a	n/a	0.000215	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-35S	0.0187	n/a	2/12/2024	2.39	Yes	95	n/a	n/a	64.21	n/a	n/a	0.000215	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-36S	0.0187	n/a	2/14/2024	1.12	Yes	95	n/a	n/a	64.21	n/a	n/a	0.000215	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-38S	0.0187	n/a	2/14/2024	1.26	Yes	95	n/a	n/a	64.21	n/a	n/a	0.000215	NP Inter (NDs) 1 of 2
Calcium (mg/L)	BRGWC-17S	24	n/a	2/12/2024	53.3	Yes	95	n/a	n/a	3.158	n/a	n/a	0.000215	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-33S	24	n/a	2/14/2024	281	Yes	95	n/a	n/a	3.158	n/a	n/a	0.000215	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-34S	24	n/a	2/14/2024	99.2	Yes	95	n/a	n/a	3.158	n/a	n/a	0.000215	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-35S	24	n/a	2/12/2024	68.9	Yes	95	n/a	n/a	3.158	n/a	n/a	0.000215	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-36S	24	n/a	2/13/2024	44.4	Yes	95	n/a	n/a	3.158	n/a	n/a	0.000215	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-17S	4.8	n/a	1/31/2024	5.69	Yes	95	n/a	n/a	0	n/a	n/a	0.000215	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-33S	4.8	n/a	2/5/2024	65.3	Yes	95	n/a	n/a	0	n/a	n/a	0.000215	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-34S	4.8	n/a	2/3/2024	15.7	Yes	95	n/a	n/a	0	n/a	n/a	0.000215	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-35S	4.8	n/a	1/31/2024	6.51	Yes	95	n/a	n/a	0	n/a	n/a	0.000215	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-36S	4.8	n/a	2/1/2024	8.32	Yes	95	n/a	n/a	0	n/a	n/a	0.000215	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-38S	4.8	n/a	2/1/2024	7	Yes	95	n/a	n/a	0	n/a	n/a	0.000215	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-17S	0.289	n/a	1/31/2024	0.34	Yes	105	n/a	n/a	51.43	n/a	n/a	0.0001784	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	BRGWC-38S	0.289	n/a	2/1/2024	0.493	Yes	105	n/a	n/a	51.43	n/a	n/a	0.0001784	NP Inter (NDs) 1 of 2
pH, Field (S.U.)	BRGWC-33S	7.067	5.837	1/31/2024	4.78	Yes	104	6.452	0.3273	0	None	No	0.0005373	Param Inter 1 of 2
pH, Field (S.U.)	BRGWC-35S	7.067	5.837	1/30/2024	5.5	Yes	104	6.452	0.3273	0	None	No	0.0005373	Param Inter 1 of 2
pH, Field (S.U.)	BRGWC-36S	7.067	5.837	1/31/2024	5.63	Yes	104	6.452	0.3273	0	None	No	0.0005373	Param Inter 1 of 2
pH, Field (S.U.)	BRGWC-37S	7.067	5.837	1/31/2024	5.76	Yes	104	6.452	0.3273	0	None	No	0.0005373	Param Inter 1 of 2
pH, Field (S.U.)	BRGWC-38S	7.067	5.837	1/31/2024	4.1	Yes	104	6.452	0.3273	0	None	No	0.0005373	Param Inter 1 of 2
Sulfate (mg/L)	BRGWC-17S	7.5	n/a	2/1/2024	189	Yes	95	n/a	n/a	16.84	n/a	n/a	0.000215	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-33S	7.5	n/a	2/5/2024	872	Yes	95	n/a	n/a	16.84	n/a	n/a	0.000215	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-34S	7.5	n/a	2/3/2024	289	Yes	95	n/a	n/a	16.84	n/a	n/a	0.000215	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-35S	7.5	n/a	2/1/2024	278	Yes	95	n/a	n/a	16.84	n/a	n/a	0.000215	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-36S	7.5	n/a	2/3/2024	222	Yes	95	n/a	n/a	16.84	n/a	n/a	0.000215	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-38S	7.5	n/a	2/3/2024	233	Yes	95	n/a	n/a	16.84	n/a	n/a	0.000215	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-17S	178.3	n/a	2/6/2024	413	Yes	94	97.63	42.83	2.128	None	No	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-33S	178.3	n/a	2/7/2024	1420	Yes	94	97.63	42.83	2.128	None	No	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-34S	178.3	n/a	2/7/2024	494	Yes	94	97.63	42.83	2.128	None	No	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-35S	178.3	n/a	2/6/2024	502	Yes	94	97.63	42.83	2.128	None	No	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-36S	178.3	n/a	2/7/2024	435	Yes	94	97.63	42.83	2.128	None	No	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-38S	178.3	n/a	2/7/2024	393	Yes	94	97.63	42.83	2.128	None	No	0.001075	Param Inter 1 of 2

Appendix III - Interwell Prediction Limits - All Results

Plant Branch Data: Plant Branch AP Printed 4/3/2024, 2:14 PM

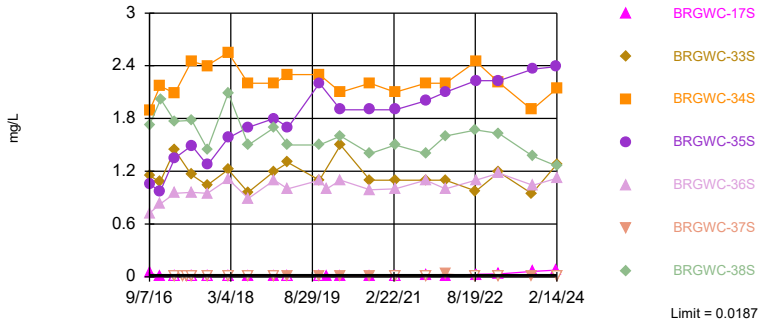
Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	**BRGWC-17S**	**0.0187**	**n/a**	**2/12/2024**	**0.0758**	**Yes**	**95**	**n/a**	**n/a**	**64.21**	**n/a**	**n/a**	**0.000215**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**BRGWC-33S**	**0.0187**	**n/a**	**2/14/2024**	**1.28**	**Yes**	**95**	**n/a**	**n/a**	**64.21**	**n/a**	**n/a**	**0.000215**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**BRGWC-34S**	**0.0187**	**n/a**	**2/14/2024**	**2.14**	**Yes**	**95**	**n/a**	**n/a**	**64.21**	**n/a**	**n/a**	**0.000215**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**BRGWC-35S**	**0.0187**	**n/a**	**2/12/2024**	**2.39**	**Yes**	**95**	**n/a**	**n/a**	**64.21**	**n/a**	**n/a**	**0.000215**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**BRGWC-36S**	**0.0187**	**n/a**	**2/14/2024**	**1.12**	**Yes**	**95**	**n/a**	**n/a**	**64.21**	**n/a**	**n/a**	**0.000215**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	BRGWC-37S	0.0187	n/a	2/14/2024	0.0052ND	No	95	n/a	n/a	64.21	n/a	n/a	0.000215	NP Inter (NDs) 1 of 2
Boron (mg/L)	**BRGWC-38S**	**0.0187**	**n/a**	**2/14/2024**	**1.26**	**Yes**	**95**	**n/a**	**n/a**	**64.21**	**n/a**	**n/a**	**0.000215**	**NP Inter (NDs) 1 of 2**
Calcium (mg/L)	**BRGWC-17S**	**24**	**n/a**	**2/12/2024**	**53.3**	**Yes**	**95**	**n/a**	**n/a**	**3.158**	**n/a**	**n/a**	**0.000215**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**BRGWC-33S**	**24**	**n/a**	**2/14/2024**	**281**	**Yes**	**95**	**n/a**	**n/a**	**3.158**	**n/a**	**n/a**	**0.000215**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**BRGWC-34S**	**24**	**n/a**	**2/14/2024**	**99.2**	**Yes**	**95**	**n/a**	**n/a**	**3.158**	**n/a**	**n/a**	**0.000215**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**BRGWC-35S**	**24**	**n/a**	**2/12/2024**	**68.9**	**Yes**	**95**	**n/a**	**n/a**	**3.158**	**n/a**	**n/a**	**0.000215**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**BRGWC-36S**	**24**	**n/a**	**2/13/2024**	**44.4**	**Yes**	**95**	**n/a**	**n/a**	**3.158**	**n/a**	**n/a**	**0.000215**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	BRGWC-37S	24	n/a	2/13/2024	3.54	No	95	n/a	n/a	3.158	n/a	n/a	0.000215	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-38S	24	n/a	2/13/2024	23.7	No	95	n/a	n/a	3.158	n/a	n/a	0.000215	NP Inter (normality) 1 of 2
Chloride (mg/L)	**BRGWC-17S**	**4.8**	**n/a**	**1/31/2024**	**5.69**	**Yes**	**95**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.000215**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**BRGWC-33S**	**4.8**	**n/a**	**2/5/2024**	**65.3**	**Yes**	**95**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.000215**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**BRGWC-34S**	**4.8**	**n/a**	**2/3/2024**	**15.7**	**Yes**	**95**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.000215**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**BRGWC-35S**	**4.8**	**n/a**	**1/31/2024**	**6.51**	**Yes**	**95**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.000215**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**BRGWC-36S**	**4.8**	**n/a**	**2/1/2024**	**8.32**	**Yes**	**95**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.000215**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	BRGWC-37S	4.8	n/a	2/1/2024	2	No	95	n/a	n/a	0	n/a	n/a	0.000215	NP Inter (normality) 1 of 2
Chloride (mg/L)	**BRGWC-38S**	**4.8**	**n/a**	**2/1/2024**	**7**	**Yes**	**95**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.000215**	**NP Inter (normality) 1 of 2**
Fluoride (mg/L)	**BRGWC-17S**	**0.289**	**n/a**	**1/31/2024**	**0.34**	**Yes**	**105**	**n/a**	**n/a**	**51.43**	**n/a**	**n/a**	**0.0001784**	**NP Inter (NDs) 1 of 2**
Fluoride (mg/L)	BRGWC-33S	0.289	n/a	2/1/2024	0.194	No	105	n/a	n/a	51.43	n/a	n/a	0.0001784	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	BRGWC-34S	0.289	n/a	2/1/2024	0.101	No	105	n/a	n/a	51.43	n/a	n/a	0.0001784	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	BRGWC-35S	0.289	n/a	1/31/2024	0.263	No	105	n/a	n/a	51.43	n/a	n/a	0.0001784	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	BRGWC-36S	0.289	n/a	2/1/2024	0.144	No	105	n/a	n/a	51.43	n/a	n/a	0.0001784	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	BRGWC-37S	0.289	n/a	2/1/2024	0.109	No	105	n/a	n/a	51.43	n/a	n/a	0.0001784	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	**BRGWC-38S**	**0.289**	**n/a**	**2/1/2024**	**0.493**	**Yes**	**105**	**n/a**	**n/a**	**51.43**	**n/a**	**n/a**	**0.0001784**	**NP Inter (NDs) 1 of 2**
pH, Field (S.U.)	BRGWC-17S	7.067	5.837	1/30/2024	6.28	No	104	6.452	0.3273	0	None	No	0.0005373	Param Inter 1 of 2
pH, Field (S.U.)	**BRGWC-33S**	**7.067**	**5.837**	**1/31/2024**	**4.78**	**Yes**	**104**	**6.452**	**0.3273**	**0**	**None**	**No**	**0.0005373**	**Param Inter 1 of 2**
pH, Field (S.U.)	BRGWC-34S	7.067	5.837	1/31/2024	5.95	No	104	6.452	0.3273	0	None	No	0.0005373	Param Inter 1 of 2
pH, Field (S.U.)	**BRGWC-35S**	**7.067**	**5.837**	**1/30/2024**	**5.5**	**Yes**	**104**	**6.452**	**0.3273**	**0**	**None**	**No**	**0.0005373**	**Param Inter 1 of 2**
pH, Field (S.U.)	**BRGWC-36S**	**7.067**	**5.837**	**1/31/2024**	**5.63**	**Yes**	**104**	**6.452**	**0.3273**	**0**	**None**	**No**	**0.0005373**	**Param Inter 1 of 2**
pH, Field (S.U.)	**BRGWC-37S**	**7.067**	**5.837**	**1/31/2024**	**5.76**	**Yes**	**104**	**6.452**	**0.3273**	**0**	**None**	**No**	**0.0005373**	**Param Inter 1 of 2**
pH, Field (S.U.)	**BRGWC-38S**	**7.067**	**5.837**	**1/31/2024**	**4.1**	**Yes**	**104**	**6.452**	**0.3273**	**0**	**None**	**No**	**0.0005373**	**Param Inter 1 of 2**
Sulfate (mg/L)	**BRGWC-17S**	**7.5**	**n/a**	**2/1/2024**	**189**	**Yes**	**95**	**n/a**	**n/a**	**16.84**	**n/a**	**n/a**	**0.000215**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**BRGWC-33S**	**7.5**	**n/a**	**2/5/2024**	**872**	**Yes**	**95**	**n/a**	**n/a**	**16.84**	**n/a**	**n/a**	**0.000215**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**BRGWC-34S**	**7.5**	**n/a**	**2/3/2024**	**289**	**Yes**	**95**	**n/a**	**n/a**	**16.84**	**n/a**	**n/a**	**0.000215**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**BRGWC-35S**	**7.5**	**n/a**	**2/1/2024**	**278**	**Yes**	**95**	**n/a**	**n/a**	**16.84**	**n/a**	**n/a**	**0.000215**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**BRGWC-36S**	**7.5**	**n/a**	**2/3/2024**	**222**	**Yes**	**95**	**n/a**	**n/a**	**16.84**	**n/a**	**n/a**	**0.000215**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	BRGWC-37S	7.5	n/a	2/1/2024	0.258J	No	95	n/a	n/a	16.84	n/a	n/a	0.000215	NP Inter (normality) 1 of 2
Sulfate (mg/L)	**BRGWC-38S**	**7.5**	**n/a**	**2/3/2024**	**233**	**Yes**	**95**	**n/a**	**n/a**	**16.84**	**n/a**	**n/a**	**0.000215**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids (mg/L)	**BRGWC-17S**	**178.3**	**n/a**	**2/6/2024**	**413**	**Yes**	**94**	**97.63**	**42.83**	**2.128**	**None**	**No**	**0.001075**	**Param Inter 1 of 2**
Total Dissolved Solids (mg/L)	**BRGWC-33S**	**178.3**	**n/a**	**2/7/2024**	**1420**	**Yes**	**94**	**97.63**	**42.83**	**2.128**	**None**	**No**	**0.001075**	**Param Inter 1 of 2**
Total Dissolved Solids (mg/L)	**BRGWC-34S**	**178.3**	**n/a**	**2/7/2024**	**494**	**Yes**	**94**	**97.63**	**42.83**	**2.128**	**None**	**No**	**0.001075**	**Param Inter 1 of 2**
Total Dissolved Solids (mg/L)	**BRGWC-35S**	**178.3**	**n/a**	**2/6/2024**	**502**	**Yes**	**94**	**97.63**	**42.83**	**2.128**	**None**	**No**	**0.001075**	**Param Inter 1 of 2**
Total Dissolved Solids (mg/L)	**BRGWC-36S**	**178.3**	**n/a**	**2/7/2024**	**435**	**Yes**	**94**	**97.63**	**42.83**	**2.128**	**None**	**No**	**0.001075**	**Param Inter 1 of 2**
Total Dissolved Solids (mg/L)	BRGWC-37S	178.3	n/a	2/7/2024	37	No	94	97.63	42.83	2.128	None	No	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	**BRGWC-38S**	**178.3**	**n/a**	**2/7/2024**	**393**	**Yes**	**94**	**97.63**	**42.83**	**2.128**	**None**	**No**	**0.001075**	**Param Inter 1 of 2**

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Exceeds Limit: BRGWC-17S, BRGWC-33S, BRGWC-34S, BRGWC-35S, BRGWC-36S, BRGWC-38S

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 95 background values. 64.21% NDs. Annual per-constituent alpha = 0.003006. Individual comparison alpha = 0.000215 (1 of 2). Comparing 7 points to limit.

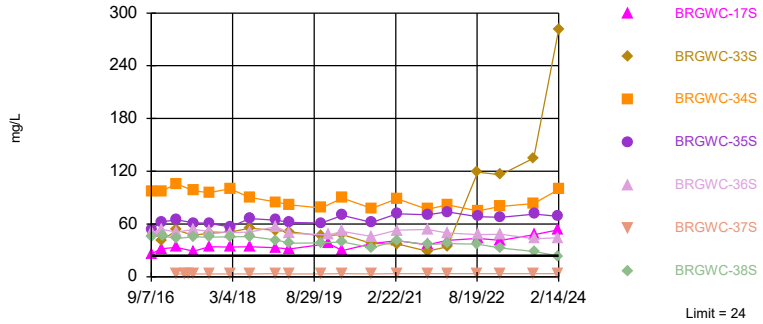
Constituent: Boron Analysis Run 4/3/2024 2:11 PM View: Pond E - Appendix III
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Exceeds Limit: BRGWC-17S, BRGWC-33S, BRGWC-34S, BRGWC-35S, BRGWC-36S

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 95 background values. 3.158% NDs. Annual per-constituent alpha = 0.003006. Individual comparison alpha = 0.000215 (1 of 2). Comparing 7 points to limit.

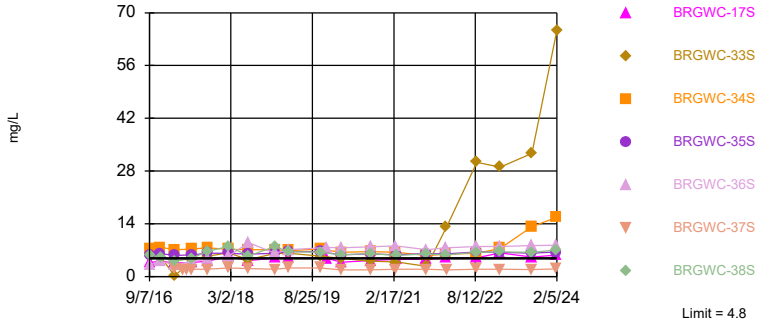
Constituent: Calcium Analysis Run 4/3/2024 2:11 PM View: Pond E - Appendix III
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Exceeds Limit: BRGWC-17S, BRGWC-33S, BRGWC-34S, BRGWC-35S, BRGWC-36S, BRGWC-38S

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 95 background values. Annual per-constituent alpha = 0.003006. Individual comparison alpha = 0.000215 (1 of 2). Comparing 7 points to limit.

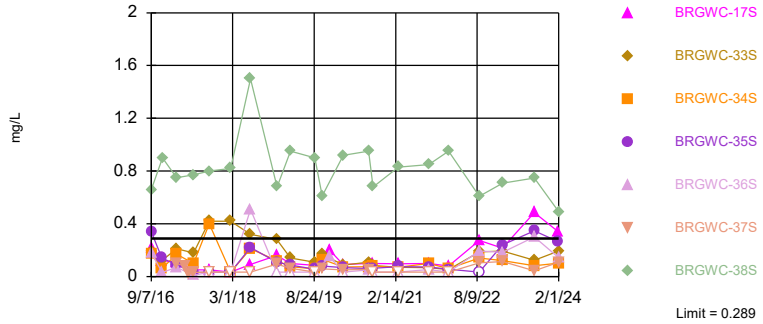
Constituent: Chloride Analysis Run 4/3/2024 2:11 PM View: Pond E - Appendix III
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Exceeds Limit: BRGWC-17S, BRGWC-38S

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 105 background values. 51.43% NDs. Annual per-constituent alpha = 0.002495. Individual comparison alpha = 0.0001784 (1 of 2). Comparing 7 points to limit.

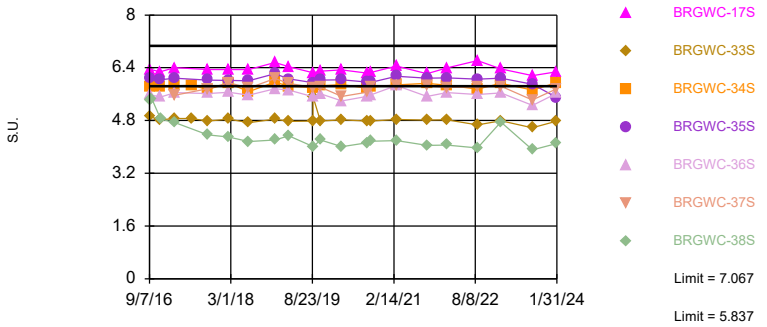
Constituent: Fluoride Analysis Run 4/3/2024 2:11 PM View: Pond E - Appendix III
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Exceeds Limits: BRGWC-33S, BRGWC-35S, BRGWC-36S, BRGWC-37S, BRGWC-38S

Prediction Limit

Interwell Parametric



Background Data Summary: Mean=6.452, Std. Dev.=0.3273, n=104. Normality test: Chi Squared @alpha = 0.01, calculated = 5.808, critical = 14.07. Kappa = 1.879 (c=7, w=7, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.0005373. Comparing 7 points to limit.

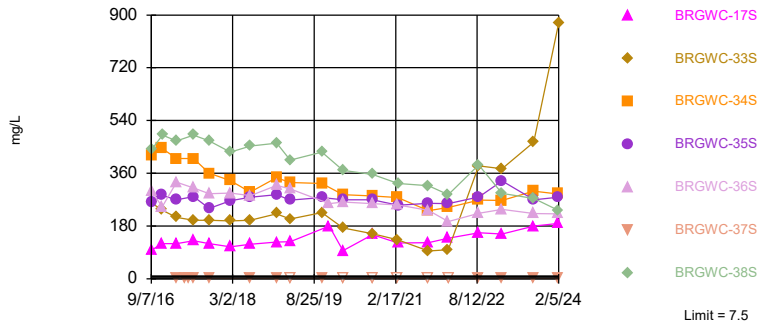
Constituent: pH, Field Analysis Run 4/3/2024 2:11 PM View: Pond E - Appendix III
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Exceeds Limit: BRGWC-17S, BRGWC-33S, BRGWC-34S, BRGWC-35S, BRGWC-36S, BRGWC-38S

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 95 background values. 16.84% NDs. Annual per-constituent alpha = 0.003006. Individual comparison alpha = 0.000215 (1 of 2). Comparing 7 points to limit.

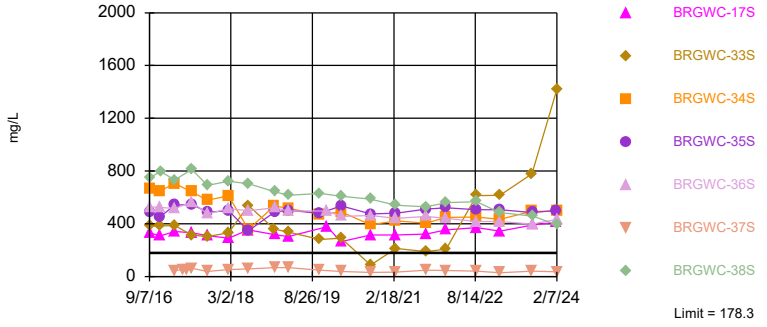
Constituent: Sulfate Analysis Run 4/3/2024 2:11 PM View: Pond E - Appendix III
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Exceeds Limit: BRGWC-17S, BRGWC-33S, BRGWC-34S, BRGWC-35S, BRGWC-36S, BRGWC-38S

Prediction Limit

Interwell Parametric



Background Data Summary: Mean=97.63, Std. Dev.=42.83, n=94, 2.128% NDs. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9752, critical = 0.964. Kappa = 1.884 (c=7, w=7, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.001075. Comparing 7 points to limit.

Constituent: Total Dissolved Solids Analysis Run 4/3/2024 2:11 PM View: Pond E - Appendix III
Plant Branch Data: Plant Branch AP

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 4/3/2024 2:14 PM View: Pond E - Appendix III

Plant Branch Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-5S (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-6S (bg)	BRGWC-35S	BRGWC-36S	BRGWC-38S	BRGWC-33S
8/31/2016	0.0072 (J)	<0.0052	<0.0052	<0.0052					
9/1/2016					<0.0052				
9/7/2016						1.06	0.725	1.73	1.15
9/8/2016									
11/15/2016		0.0085 (J)			0.0123 (J)				
11/16/2016	0.0117 (J)		0.0109 (J)	0.0187 (J)					
11/17/2016						0.967			1.08
11/18/2016							0.831		
11/21/2016								2.02	
2/20/2017		0.0093 (J)		0.0066 (J)	0.0157 (J)				
2/21/2017	0.0088 (J)		<0.0052						
2/22/2017						1.35			1.44
2/23/2017							0.949	1.77	
4/17/2017									
5/15/2017									
6/12/2017	0.0133 (J)	<0.0052		<0.0052	<0.0052				
6/13/2017			<0.0052						
6/14/2017									1.16
6/15/2017						1.49	0.961	1.78	
9/26/2017	0.0093 (J)	<0.0052	<0.0052	<0.0052	<0.0052				
9/27/2017									1.04
9/28/2017						1.27	0.948	1.45	
2/13/2018	0.0141 (J)	<0.0052	<0.0052	<0.0052	<0.0052				
2/15/2018						1.58	1.11	2.09	1.22
6/26/2018	0.012 (J)	0.0056 (J)	<0.0052	0.0042 (J)	0.0041 (J)				
6/27/2018						1.7 (J+X)			0.96 (J+X)
6/28/2018							0.89	1.5	
12/18/2018	0.0086 (J)	0.0062 (J)	<0.0052	<0.0052	<0.0052				1.2
12/19/2018						1.8	1.1		
12/20/2018								1.7	
3/19/2019	0.00565 (JD)	<0.0052	<0.0052	<0.0052	<0.0052		1		
3/20/2019						1.7		1.5	1.3
10/15/2019	0.0067 (J)	0.006 (J)	<0.0052	<0.0052	0.01 (J)				
10/16/2019						2.2		1.5	1.1
10/17/2019							1.1		
12/3/2019							1		
3/3/2020	0.0082 (J)	<0.0052	<0.0052	<0.0052	<0.0052				
3/5/2020						1.9	1.1	1.6	1.5
9/15/2020	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052				
9/16/2020						1.9	0.99		1.1
9/17/2020								1.4	
3/1/2021	<0.0052				<0.0052				
3/2/2021		0.0071 (J)	<0.0052	0.0053 (J)					
3/3/2021							1		1.1
3/4/2021						1.9		1.5	
9/21/2021		<0.0052		<0.0052					
9/22/2021	<0.0052		<0.0052		<0.0052		1.1		1.1
9/23/2021						2		1.4	
2/1/2022	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	2.1	1	1.6	1.1
2/2/2022									
8/23/2022	0.00592 (J)	0.00538 (J)	0.00532 (J)	<0.0052	<0.0052			1.67	0.975
8/24/2022						2.23	1.1		

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 4/3/2024 2:14 PM View: Pond E - Appendix III

Plant Branch Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-5S (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-6S (bg)	BRGWC-35S	BRGWC-36S	BRGWC-38S	BRGWC-33S
1/24/2023	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	2.23			1.19
1/25/2023							1.18	1.63	
8/31/2023	0.00649 (J)	0.00764 (J)	0.00738 (J)	0.0073 (J)	0.00611 (J)				
9/1/2023									0.946
9/6/2023									
9/7/2023						2.36	1.04	1.37	
2/12/2024	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	2.39			
2/14/2024							1.12	1.26	1.28

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 4/3/2024 2:14 PM View: Pond E - Appendix III

Plant Branch Data: Plant Branch AP

	BRGWC-17S	BRGWC-34S	BRGWC-37S
8/31/2016			
9/1/2016			
9/7/2016	0.0449 (J)		
9/8/2016		1.89	
11/15/2016			
11/16/2016			
11/17/2016	0.0067 (J)	2.17	
11/18/2016			
11/21/2016			
2/20/2017			
2/21/2017			
2/22/2017	<0.0052	2.09	
2/23/2017			<0.0052
4/17/2017			<0.0052
5/15/2017			<0.0052
6/12/2017			
6/13/2017			
6/14/2017		2.45	
6/15/2017	<0.0052		<0.0052
9/26/2017			
9/27/2017		2.4	
9/28/2017	<0.0052		<0.0052
2/13/2018			
2/15/2018	<0.0052	2.55	<0.0052
6/26/2018			
6/27/2018	0.0088 (J+X)	2.2 (J+X)	
6/28/2018			<0.0052 (X)
12/18/2018		2.2	
12/19/2018	0.0045 (J)		<0.0052
12/20/2018			
3/19/2019	<0.0052		
3/20/2019		2.3	0.004 (J)
10/15/2019			
10/16/2019		2.3	0.0055 (J)
10/17/2019	<0.0052		
12/3/2019	0.0063 (J)		
3/3/2020	0.0075 (J)		
3/5/2020		2.1	0.0076 (J)
9/15/2020			
9/16/2020	0.0066 (J)	2.2	0.0062 (J)
9/17/2020			
3/1/2021			
3/2/2021			
3/3/2021		2.1	<0.0052
3/4/2021	<0.0052		
9/21/2021			
9/22/2021	0.02 (J)	2.2	
9/23/2021			<0.0052
2/1/2022	0.013 (J)	2.2	
2/2/2022			0.032 (J)
8/23/2022			<0.0052
8/24/2022	0.0273	2.45	

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 4/3/2024 2:14 PM View: Pond E - Appendix III

Plant Branch Data: Plant Branch AP

	BRGWC-17S	BRGWC-34S	BRGWC-37S
1/24/2023	0.0326	2.21	
1/25/2023			<0.0052
8/31/2023			0.00802 (J)
9/1/2023		1.9	
9/6/2023	0.0601		
9/7/2023			
2/12/2024	0.0758		
2/14/2024		2.14	<0.0052

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/3/2024 2:14 PM View: Pond E - Appendix III

Plant Branch Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-5S (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-6S (bg)	BRGWC-35S	BRGWC-36S	BRGWC-38S	BRGWC-33S
8/31/2016	12.6	19.6	4.09	13.5					
9/1/2016					3.3				
9/7/2016						54.1	50.6	45.9	53.4
9/8/2016									
11/15/2016		21.7			3.44				
11/16/2016	12.1		4.25	14.9					
11/17/2016						62.6			41.3
11/18/2016							53.9		
11/21/2016								46.4	
2/20/2017		21.1		13.9	3.52				
2/21/2017	11.4		4.02						
2/22/2017						64.6			53.1
2/23/2017							51	43.5	
4/17/2017									
5/15/2017									
6/12/2017	9.34	21.5		13.7	3.11				
6/13/2017			3.84						
6/14/2017									47.1
6/15/2017						61.3	53.8	45.3	
9/26/2017	14.3	24	3.31	14.4	3.15				
9/27/2017									49.5
9/28/2017						60.8	51.8	45.1	
2/13/2018	<25	<25	3.94	<25	3.65				
2/15/2018						56.6	50.1	45.3	50.9
6/26/2018	16 (J)	23.5 (J)	3.6	13.5 (J)	3.3				
6/27/2018						66.2			55.1
6/28/2018							51	45.9	
12/18/2018	14.5 (J)	19.8 (J)	3.8	16.4 (J)	3.5				52.7
12/19/2018						64.4	57.1		
12/20/2018								41.8	
3/19/2019	14.3 (JD)	21.4 (J)	3.9	12.3 (J)	3.6		49.5		
3/20/2019						61.8		38.2	51.4
10/15/2019	15.1	20	3.7	14.4	3.5				
10/16/2019						61.2		38.4	46.5
12/3/2019							47.8		
3/3/2020	20	23.2	4	14.9	5				
3/5/2020						69.9	51.7	39.8	48.1
9/15/2020	14.1	16.8	3.9	12.7	3.7				
9/16/2020						61.8	45.9		37.9
9/17/2020								33.1	
3/1/2021	15.4				4.2				
3/2/2021		16.8	4	13.2					
3/3/2021							53		37.5
3/4/2021						71.8		41	
9/21/2021		19.1		14.1					
9/22/2021	15.9		4.3		4.1		53.7		28.9
9/23/2021						70.5		36.8	
2/1/2022	14.4	19.1	4.4	14.5	4.2	73.8	49.7	37.8	34.3
2/2/2022									
8/23/2022	13.9	18.2	4.65	14.3	3.97			37.1	119
8/24/2022						68.5	48.1		
1/24/2023	14.2	19.4	4.86	15.8	3.9	67.5			116

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/3/2024 2:14 PM View: Pond E - Appendix III

Plant Branch Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-5S (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-6S (bg)	BRGWC-35S	BRGWC-36S	BRGWC-38S	BRGWC-33S
1/25/2023							48.2	32.8	
8/31/2023	12.6	14.9	5.02	14.3	3.79				
9/1/2023									135
9/6/2023							43.4		
9/7/2023						71.4		28.7	
2/12/2024	14.1	18.2	5.25	16	4.27	68.9			
2/13/2024							44.4	23.7	
2/14/2024									281

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/3/2024 2:14 PM View: Pond E - Appendix III

Plant Branch Data: Plant Branch AP

	BRGWC-17S	BRGWC-34S	BRGWC-37S
8/31/2016			
9/1/2016			
9/7/2016	26.3		
9/8/2016		97.3	
11/15/2016			
11/16/2016			
11/17/2016	31.8	97.6	
11/18/2016			
11/21/2016			
2/20/2017			
2/21/2017			
2/22/2017	33.5	106	
2/23/2017			3.26
4/17/2017			3.23
5/15/2017			2.97 (B-01)
6/12/2017			
6/13/2017			
6/14/2017		98	
6/15/2017	29		3.15
9/26/2017			
9/27/2017		95.8	
9/28/2017	34.1		3.26
2/13/2018			
2/15/2018	33.8	100	3.39
6/26/2018			
6/27/2018	34.1	90.1	
6/28/2018			3.1
12/18/2018		85.1	
12/19/2018	33.1		3.6
12/20/2018			
3/19/2019	31.6		
3/20/2019		82	3.3
10/15/2019			
10/16/2019		78.2	3.4
12/3/2019	37.7		
3/3/2020	29.7		
3/5/2020		89.6	3.7
9/15/2020			
9/16/2020	37.9	77.7	3.2
9/17/2020			
3/1/2021			
3/2/2021			
3/3/2021		88.6	3.6
3/4/2021	41.2		
9/21/2021			
9/22/2021	36.4	76.9	
9/23/2021			3.7
2/1/2022	41.5	81.7	
2/2/2022			3.7
8/23/2022			3.7
8/24/2022	43.6	75	
1/24/2023	41.3	80	

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/3/2024 2:14 PM View: Pond E - Appendix III

Plant Branch Data: Plant Branch AP

	BRGWC-17S	BRGWC-34S	BRGWC-37S
1/25/2023			3.65
8/31/2023			3.47
9/1/2023		83.4	
9/6/2023			
9/7/2023	47.9		
2/12/2024	53.3		
2/13/2024			3.54
2/14/2024		99.2	

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/3/2024 2:14 PM View: Pond E - Appendix III

Plant Branch Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-5S (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-6S (bg)	BRGWC-35S	BRGWC-36S	BRGWC-38S	BRGWC-33S
8/31/2016	2.3	3.6	2	4.4					
9/1/2016					2.5				
9/7/2016						5.8	3.1	5.8	5.3
9/8/2016									
11/15/2016		4			2.3				
11/16/2016	2		1.8	4.4					
11/17/2016						6.1 (D)			5.45 (D)
11/18/2016							3.95 (D)		
11/21/2016								5.05 (D)	
2/20/2017		3.9		4.8	2.4				
2/21/2017	2		1.8						
2/22/2017						5.6			0.12 (J)
2/23/2017							3.2	4.1	
4/17/2017									
5/15/2017									
6/12/2017	2.1	3.8		4.2	2.2				
6/13/2017			1.7						
6/14/2017									4.5
6/15/2017						5.8	4	4.8	
9/26/2017	2	4.1	1.8	4.4	2.3				
9/27/2017									5.4
9/28/2017						6.2	4.6	6.7	
2/13/2018	2.1	4.1	1.7	4.7	2.3				
2/15/2018						6.2	5.4	8	6.3
6/26/2018	2.4	4.1	2.2	4.5	2.6				
6/27/2018						5.9			4.5
6/28/2018							9 (J-X)	5.5 (J-X)	
12/18/2018	1.8	3.8	1.9	4.5	2.3				6.1
12/19/2018						6.2 (J-X)	6.2 (J-X)		
12/20/2018								8 (J-X)	
3/19/2019	2.45 (D)	4.2	2	4.5	2.6		7.1		
3/20/2019						6.6		6.6	6.2
10/15/2019	2.2	3.7	1.9	4.2	2.4				
10/16/2019						6.6		6.4	5.4
12/3/2019							7.7		
3/3/2020	1.9	3.6	1.9	3.9	2.9				
3/5/2020						5.8	7.6	5.8	4.8
9/15/2020	1.9	3.7	1.7	3.7	2.3				
9/16/2020						6	7.9		4.1
9/17/2020								6.1	
3/1/2021	1.8				2.1				
3/2/2021		3.7	1.7	3.8					
3/3/2021							8.1		3.9
3/4/2021						5.8		5.6	
9/21/2021		3.2		3.2					
9/22/2021	1.7		1.5		2.1		7.1		2.7
9/23/2021						6.1		6	
2/1/2022	1.8	3.4	1.6	3.5	2.1	6	7.6	5.8	13.1
2/2/2022									
8/23/2022	2.02	3.59	2.18	3.64	2.39			6.42	30.3
8/24/2022						6.53	7.96		
1/24/2023	2.09	3.56	2.16	3.93	2.3	6.46			29

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/3/2024 2:14 PM View: Pond E - Appendix III

Plant Branch Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-5S (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-6S (bg)	BRGWC-35S	BRGWC-36S	BRGWC-38S	BRGWC-33S
1/25/2023							7.93	6.53	
8/23/2023	1.9	3.37	2.14	3.53	2.34				
8/24/2023						6.21	8.26	6.44	32.7
1/31/2024	2.35	3.52	2.14	3.98	3.23	6.51			
2/1/2024							8.32	7	
2/3/2024									
2/5/2024									65.3

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/3/2024 2:15 PM View: Pond E - Appendix III

Plant Branch Data: Plant Branch AP

	BRGWC-17S	BRGWC-34S	BRGWC-37S
8/31/2016			
9/1/2016			
9/7/2016	3.7		
9/8/2016		7.2	
11/15/2016			
11/16/2016			
11/17/2016	4.05 (D)	7.8 (D)	
11/18/2016			
11/21/2016			
2/20/2017			
2/21/2017			
2/22/2017	3.6	7.1	
2/23/2017			2.1
4/17/2017			1.8
5/15/2017			1.8
6/12/2017			
6/13/2017			
6/14/2017		7.3	
6/15/2017	3.7		1.9
9/26/2017			
9/27/2017		7.6	
9/28/2017	4.1		1.9
2/13/2018			
2/15/2018	5.3	7.2	2.3
6/26/2018			
6/27/2018	4.2	7.1	
6/28/2018			2.1 (J-X)
12/18/2018		7.1	
12/19/2018	4.9 (J-X)		1.9 (J-X)
12/20/2018			
3/19/2019	5		
3/20/2019		6.9	2.3
10/15/2019			
10/16/2019		7.3	2.3
12/3/2019	4.8		
3/3/2020	3.8		
3/5/2020		6.4	1.8
9/15/2020			
9/16/2020	4.2	6.6	1.8
9/17/2020			
3/1/2021			
3/2/2021			
3/3/2021		6.4	1.9
3/4/2021	4.6		
9/21/2021			
9/22/2021	4.6	5.6	
9/23/2021			1.9
2/1/2022	4.9	5.9	
2/2/2022			1.8
8/23/2022			1.97
8/24/2022	5	6.17	
1/24/2023	6.31	7.5	

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/3/2024 2:15 PM View: Pond E - Appendix III

Plant Branch Data: Plant Branch AP

	BRGWC-17S	BRGWC-34S	BRGWC-37S
1/25/2023			1.92
8/23/2023			1.89
8/24/2023	5.18	13.2	
1/31/2024	5.69		
2/1/2024			2
2/3/2024		15.7	
2/5/2024			

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/3/2024 2:15 PM View: Pond E - Appendix III

Plant Branch Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-5S (bg)	BRGWA-5I (bg)	BRGWA-2S (bg)	BRGWA-6S (bg)	BRGWC-38S	BRGWC-36S	BRGWC-35S	BRGWC-17S
8/31/2016	0.11 (J)	0.19 (J)	0.07 (J)	0.05 (J)					
9/1/2016					0.06 (J)				
9/7/2016						0.66	0.18 (J)	0.34	0.22 (J)
9/8/2016									
11/15/2016		0.13 (J)			0.06 (J)				
11/16/2016	0.08 (J)		0.07 (J)	0.07 (J)					
11/17/2016								0.14 (J)	0.12 (J)
11/18/2016							0.03 (J)		
11/21/2016						0.9 (D)			
2/20/2017		0.08 (J)	0.06 (J)		0.04 (J)				
2/21/2017	0.14 (J)			0.05 (J)					
2/22/2017								0.09 (J)	0.11 (J)
2/23/2017						0.75	0.07 (J)		
4/17/2017									
5/15/2017									
6/12/2017	0.16 (J)	0.07 (J)	0.008 (J)		0.06 (J)				
6/13/2017				0.04 (J)					
6/14/2017									
6/15/2017						0.77	0.01 (J)	0.03 (J)	0.05 (J)
9/26/2017	0.14 (J)	0.04 (J)	<0.033	<0.033	<0.033				
9/27/2017									
9/28/2017						0.8	<0.033	<0.033	0.05 (J)
2/13/2018	<0.033	<0.033	<0.033	<0.033	<0.033				
2/15/2018						0.82	<0.033	<0.033	<0.033
6/26/2018	0.085 (J)	0.072 (J)	0.045 (J)	0.048 (J)	0.041 (J)				
6/27/2018								0.22 (J)	0.093 (J)
6/28/2018						1.5 (J+X)	0.51 (J+X)		
12/18/2018	0.085 (J)	<0.033	<0.033	<0.033	<0.033				
12/19/2018							<0.033	0.11 (J)	0.16 (J)
12/20/2018						0.68			
3/19/2019	0.0655 (JD)	0.06 (J)	<0.033	0.037 (J)	0.03 (J)		<0.033		0.1 (J)
3/20/2019						0.95		0.088 (J)	
8/27/2019	<0.033	<0.033	<0.033	<0.033	<0.033				
8/28/2019							<0.033	0.056 (J)	0.085 (J)
8/29/2019						0.9			
10/15/2019	<0.033	0.045 (J)	<0.033	<0.033	<0.033				
10/16/2019						0.61		0.08 (J)	
12/3/2019							0.15 (J)		0.2 (J)
3/3/2020	0.066 (J)	0.057 (J)	<0.033	0.05 (J)	0.09 (J)				0.093 (J)
3/5/2020						0.92	<0.033	0.067 (J)	
8/18/2020	<0.033	<0.033	<0.033	<0.033	<0.033				
8/19/2020						0.95	0.051 (J)	0.06 (J)	0.1
9/15/2020	<0.033	0.051 (J)	<0.033	<0.033	<0.033				
9/16/2020							<0.033	0.062 (J)	0.1
9/17/2020						0.68			
3/1/2021	<0.033				<0.033				
3/2/2021		<0.033	<0.033	<0.033					
3/3/2021							<0.033		
3/4/2021						0.83		0.076 (J)	0.096 (J)
9/21/2021		0.056 (J)	<0.033						
9/22/2021	<0.033			<0.033	<0.033		0.054 (J)		0.1
9/23/2021						0.85		0.073 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/3/2024 2:15 PM View: Pond E - Appendix III

Plant Branch Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-5S (bg)	BRGWA-5I (bg)	BRGWA-2S (bg)	BRGWA-6S (bg)	BRGWC-38S	BRGWC-36S	BRGWC-35S	BRGWC-17S
2/1/2022	<0.033	<0.033	<0.033	<0.033	<0.033	0.95	<0.033	0.055 (J)	0.079 (J)
2/2/2022									
8/23/2022	<0.033	<0.033	<0.033	<0.033	<0.033	0.609			
8/24/2022							0.194	<0.033	0.274
1/24/2023	<0.033	0.158	0.149	<0.033	0.12			0.239	0.216
1/25/2023						0.708	0.183		
8/23/2023	0.267	0.277	0.289	0.229	0.0787 (J)				
8/24/2023						0.748		0.347	0.484
8/25/2023							0.301		
1/31/2024	<0.033	0.233	0.232	0.184	0.0341 (J)			0.263	0.34
2/1/2024						0.493	0.144		

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/3/2024 2:15 PM View: Pond E - Appendix III

Plant Branch Data: Plant Branch AP

	BRGWC-33S	BRGWC-34S	BRGWC-37S
8/31/2016			
9/1/2016			
9/7/2016	0.19 (J)		
9/8/2016		0.17 (J)	
11/15/2016			
11/16/2016			
11/17/2016	0.12 (J)	0.06 (J)	
11/18/2016			
11/21/2016			
2/20/2017			
2/21/2017			
2/22/2017	0.21 (J)	0.17 (J)	
2/23/2017			0.1 (J)
4/17/2017			0.08 (J)
5/15/2017			0.02 (J)
6/12/2017			
6/13/2017			
6/14/2017	0.18 (J)	0.1 (J)	
6/15/2017			0.03 (J)
9/26/2017			
9/27/2017	0.42	0.4	
9/28/2017			<0.033
2/13/2018			
2/15/2018	0.42	<0.033	<0.033
6/26/2018			
6/27/2018	0.32	0.21 (J)	
6/28/2018			<0.033
12/18/2018	0.28 (J)	0.12 (J)	
12/19/2018			0.094 (J)
12/20/2018			
3/19/2019			
3/20/2019	0.14 (J)	0.074 (J)	0.062 (J)
8/27/2019	0.11 (J)		
8/28/2019	0.11 (J)	0.057 (J)	<0.033
8/29/2019			
10/15/2019			
10/16/2019	0.17 (J)	0.13 (J)	0.059 (J)
12/3/2019			
3/3/2020			
3/5/2020	0.088 (J)	0.072 (J)	0.05 (J)
8/18/2020			
8/19/2020	0.11	0.074 (J)	0.055 (J)
9/15/2020			
9/16/2020	0.085 (J)	0.077 (J)	<0.033
9/17/2020			
3/1/2021			
3/2/2021			
3/3/2021	0.069 (J)	0.071 (J)	<0.033
3/4/2021			
9/21/2021			
9/22/2021	0.068 (J)	0.1	
9/23/2021			<0.033

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/3/2024 2:15 PM View: Pond E - Appendix III

Plant Branch Data: Plant Branch AP

	BRGWC-33S	BRGWC-34S	BRGWC-37S
2/1/2022	0.053 (J)	0.06 (J)	
2/2/2022			<0.033
8/23/2022	0.187		0.105
8/24/2022		0.14	
1/24/2023	0.193	0.122	
1/25/2023			0.114
8/23/2023	0.123		0.0445 (J)
8/24/2023		0.0816 (J)	
8/25/2023			
1/31/2024			
2/1/2024	0.194	0.101	0.109

Prediction Limit

Constituent: pH, Field (S.U.) Analysis Run 4/3/2024 2:15 PM View: Pond E - Appendix III

Plant Branch Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-5I (bg)	BRGWA-2S (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-38S	BRGWC-17S	BRGWC-33S	BRGWC-36S
8/31/2016	7.16	6.53	6.2	6.59					
9/1/2016					6.49				
9/7/2016						5.43	6.36	4.92	5.59
9/8/2016									
9/23/2016						5.46			
11/15/2016				6.67	6.59				
11/16/2016	6.96	6.4	6.12						
11/17/2016							6.28	4.82	
11/18/2016									5.51
11/21/2016						4.84			
2/20/2017		6.44		6.65	6.61				
2/21/2017	7.15		6.24						
2/22/2017							6.4	4.86	
2/23/2017						4.73			5.65
6/12/2017	7.31	6.4		6.64					
6/13/2017			6.19						
6/14/2017								4.86	
9/26/2017	7.02	6.31	6.15	6.58	6.47				
9/27/2017								4.78	
9/28/2017						4.37	6.35		5.62
2/13/2018	7.44	6.62	6.18	6.72	6.54				
2/15/2018						4.3	6.35	4.84	5.66
6/26/2018	6.93	6.29	6.05	6.43	6.23				
6/27/2018							6.35	4.73	
6/28/2018						4.16			5.57
12/18/2018	6.76	6.57	5.92	6.7	6.71			4.84	
12/19/2018							6.56		5.76
12/20/2018						4.21			
3/19/2019	6.87	6.45	6.18	6.63	6.18		6.43		5.72
3/20/2019						4.34		4.77	
8/27/2019	6.79	6.37	6.09	6.49	6.35			4.78	
8/28/2019							6.25	5.52	5.52
8/29/2019						4.01			
10/15/2019	6.57	6.77	6.06	7.01	6.36				
10/16/2019						4.21		4.78	
10/17/2019							6.3		5.61
3/3/2020	6.71	6.29	6.1	6.49	6.59		6.34		
3/5/2020						4.01		4.82	5.39
8/18/2020	6.59	6.29	6.06	6.41	6.33				
8/19/2020						4.12	6.24	4.78	5.53
9/15/2020	6.64	6.27	6.01	6.25	6.43				
9/16/2020							6.26	4.78	5.58
9/17/2020						4.17			
3/1/2021	6.66				6.7				
3/2/2021		6.47	6.2	6.42					
3/3/2021								4.83	5.86
3/4/2021						4.19	6.45		
9/21/2021		6.32		6.36					
9/22/2021	6.78		6.06		6.48		6.22	4.81	5.53
9/23/2021						4.05			
2/1/2022	6.83	6.38	5.95	6.39	6.54	4.06	6.39	4.82	5.65
2/2/2022									

Prediction Limit

Constituent: pH, Field (S.U.) Analysis Run 4/3/2024 2:15 PM View: Pond E - Appendix III

Plant Branch Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-5I (bg)	BRGWA-2S (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-38S	BRGWC-17S	BRGWC-33S	BRGWC-36S
8/23/2022	6.67	6.24	5.95	6.36	6.51	3.97		4.67	
8/24/2022							6.62		5.59
1/24/2023	6.7	6.42	5.26	6.47	6.54		6.37	4.79	
1/25/2023						4.75			5.64
8/22/2023	6.91	6.36	5.97	6.09	6.27			4.58	
8/23/2023						3.91	6.16		5.26
1/30/2024	6.57	6.44	6.05	6.38	5.75		6.28		
1/31/2024						4.1		4.78	5.63

Prediction Limit

Constituent: pH, Field (S.U.) Analysis Run 4/3/2024 2:15 PM View: Pond E - Appendix III

Plant Branch Data: Plant Branch AP

	BRGWC-35S	BRGWC-34S	BRGWC-37S
8/31/2016			
9/1/2016			
9/7/2016	6.1		
9/8/2016		5.84	
9/23/2016			
11/15/2016			
11/16/2016			
11/17/2016	6.04	5.81	
11/18/2016			
11/21/2016			
2/20/2017			
2/21/2017			
2/22/2017	6.08	5.85	
2/23/2017			5.57
6/12/2017			
6/13/2017			
6/14/2017		5.87	
9/26/2017			
9/27/2017		5.74	
9/28/2017	6.03		5.76
2/13/2018			
2/15/2018	6.02	5.93	5.95
6/26/2018			
6/27/2018	6.01	5.68	
6/28/2018			5.78
12/18/2018		5.97	
12/19/2018	6.22		6.07
12/20/2018			
3/19/2019			
3/20/2019	6.06	5.84	5.93
8/27/2019			
8/28/2019	5.95	5.8	5.8
8/29/2019			
10/15/2019			
10/16/2019	6.03	5.85	5.81
10/17/2019			
3/3/2020			
3/5/2020	6.04	5.89	5.53
8/18/2020			
8/19/2020	5.97	5.78	5.66
9/15/2020			
9/16/2020	5.96	5.81	5.84
9/17/2020			
3/1/2021			
3/2/2021			
3/3/2021		5.88	5.87
3/4/2021	6.14		
9/21/2021			
9/22/2021		5.93	
9/23/2021	6.08		5.85
2/1/2022	6.09	5.87	
2/2/2022			5.8

Prediction Limit

Constituent: pH, Field (S.U.) Analysis Run 4/3/2024 2:15 PM View: Pond E - Appendix III

Plant Branch Data: Plant Branch AP

	BRGWC-35S	BRGWC-34S	BRGWC-37S
8/23/2022			5.82
8/24/2022	6.05	5.75	
1/24/2023	6.08	5.93	
1/25/2023			5.84
8/22/2023		5.72	5.42
8/23/2023	5.9		
1/30/2024	5.5		
1/31/2024		5.95	5.76

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/3/2024 2:15 PM View: Pond E - Appendix III

Plant Branch Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-5S (bg)	BRGWA-5I (bg)	BRGWA-2S (bg)	BRGWA-6S (bg)	BRGWC-33S	BRGWC-36S	BRGWC-17S	BRGWC-38S
8/31/2016	7.5	0.81 (J)	2.7	0.38 (J)					
9/1/2016					0.6 (J)				
9/7/2016						260	300	97	440
9/8/2016									
11/15/2016		<1 (J)			0.68 (J)				
11/16/2016	6.6		3.4	<1 (J)					
11/17/2016						235 (D)		120 (D)	
11/18/2016							245 (D)		
11/21/2016									490 (D)
2/20/2017		1 (B-01)	3.9 (B-01)		0.98 (J)				
2/21/2017	6.1			1.5					
2/22/2017						210		120	
2/23/2017							330		470
4/17/2017									
5/15/2017									
6/12/2017	5	0.94 (J)	3.7		0.54 (J)				
6/13/2017				0.67 (J)					
6/14/2017						200			
6/15/2017							310	130	490
9/26/2017	5.4	0.92 (J)	4.1	0.62 (J)	0.53 (J)				
9/27/2017						200			
9/28/2017							290	120	470
2/13/2018	4.7 (J)	<1	6.6	<1	<1				
2/15/2018						197	292	109	432
6/26/2018	6.2	0.91 (J)	3.5	0.69 (J)	0.54 (J)				
6/27/2018						200		118	
6/28/2018							284		453
12/18/2018	5.9	0.68 (J)	4.3	0.72 (J)	0.39 (J)	222			
12/19/2018							319	125	
12/20/2018									463
3/19/2019	6 (D)	0.74 (J)	3	0.78 (J)	0.68 (J)		307	126	
3/20/2019						204			405
10/15/2019	5.2	0.68 (J)	3.8	0.47 (J)	0.48 (J)				
10/16/2019						226			432
12/3/2019							256	180	
3/3/2020	7.1	0.71 (J)	2.8	0.93 (J)	2.5			95.4	
3/5/2020						173	262		370
9/15/2020	5.9	<1	1.7	<1	<1				
9/16/2020						154	256	151	
9/17/2020									356
3/1/2021	4.7				0.74 (J)				
3/2/2021		<1	2.2	<1					
3/3/2021						133	252		
3/4/2021								122	325
9/21/2021		<1	2.3						
9/22/2021	5.2			<1	<1	94.6	234	123	
9/23/2021									318
2/1/2022	5.4	<1	2	<1	<1	99.7	195	139	287
2/2/2022									
8/23/2022	5.66	0.521	2.21	0.452	0.479	385			389
8/24/2022							224	157	
1/24/2023	3.58	0.66	3.34	0.465	0.484	375		153	

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/3/2024 2:15 PM View: Pond E - Appendix III

Plant Branch Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-5S (bg)	BRGWA-5I (bg)	BRGWA-2S (bg)	BRGWA-6S (bg)	BRGWC-33S	BRGWC-36S	BRGWC-17S	BRGWC-38S
1/25/2023							237		291
8/23/2023	6.85	0.54	1.83	0.526	0.467				
8/24/2023						466			
8/25/2023							223	180	274
1/31/2024	2.65	0.617	2.74	0.423	0.456				
2/1/2024								189	
2/3/2024							222		233
2/5/2024						872			

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/3/2024 2:15 PM View: Pond E - Appendix III

Plant Branch Data: Plant Branch AP

	BRGWC-35S	BRGWC-34S	BRGWC-37S
8/31/2016			
9/1/2016			
9/7/2016	260		
9/8/2016		420	
11/15/2016			
11/16/2016			
11/17/2016	285 (D)	445 (D)	
11/18/2016			
11/21/2016			
2/20/2017			
2/21/2017			
2/22/2017	270	410	
2/23/2017			0.55 (J)
4/17/2017			0.44 (J)
5/15/2017			0.45 (J)
6/12/2017			
6/13/2017			
6/14/2017		410	
6/15/2017	280		0.46 (J)
9/26/2017			
9/27/2017		360	
9/28/2017	240		0.49 (J)
2/13/2018			
2/15/2018	266	335	1.9 (o)
6/26/2018			
6/27/2018	278	296	
6/28/2018			0.24 (J)
12/18/2018		345	
12/19/2018	287		0.4 (J)
12/20/2018			
3/19/2019			
3/20/2019	268	329	<1 (X)
10/15/2019			
10/16/2019	277	325	0.29 (J)
12/3/2019			
3/3/2020			
3/5/2020	269	287	<1
9/15/2020			
9/16/2020	270	283	<1
9/17/2020			
3/1/2021			
3/2/2021			
3/3/2021		277	<1
3/4/2021	251		
9/21/2021			
9/22/2021		232	
9/23/2021	258		<1
2/1/2022	256	243	
2/2/2022			<1
8/23/2022			0.307 (J)
8/24/2022	279	268	
1/24/2023	334	267	

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/3/2024 2:15 PM View: Pond E - Appendix III

Plant Branch Data: Plant Branch AP

	BRGWC-35S	BRGWC-34S	BRGWC-37S
1/25/2023			0.325 (J)
8/23/2023			0.355 (J)
8/24/2023		299	
8/25/2023	269		
1/31/2024			
2/1/2024	278		0.258 (J)
2/3/2024		289	
2/5/2024			

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/3/2024 2:15 PM View: Pond E - Appendix III

Plant Branch Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-5S (bg)	BRGWA-5I (bg)	BRGWA-2S (bg)	BRGWC-38S	BRGWC-36S	BRGWC-35S	BRGWC-17S	BRGWC-33S
8/31/2016	151	154	138	88					
9/1/2016									
9/7/2016					750	528	486	331	382
9/8/2016									
11/15/2016		123							
11/16/2016	69		77	41					
11/17/2016							453	308	382
11/18/2016						524			
11/21/2016					795				
2/20/2017		158	170						
2/21/2017	68			<10					
2/22/2017							541	341	387
2/23/2017					733	517			
4/17/2017									
5/15/2017									
6/12/2017	161	142	132						
6/13/2017				53					
6/14/2017									316
6/15/2017					812	566	548	333	
9/26/2017	167	138	108	45					
9/27/2017									303
9/28/2017					690	475	487	310	
2/13/2018	165	150	141	63					
2/15/2018					722	513	500	292	332
6/26/2018	188	154	133	71					
6/27/2018							347 (X)	353 (X)	538 (X)
6/28/2018					704	499			
12/18/2018	145 (X)	147	138 (X)	78 (X)					358
12/19/2018						521	489	317	
12/20/2018					642				
3/19/2019	146.5 (D)	146	130	68		498		303	
3/20/2019					615		501		338
10/15/2019	140	144	175	66					
10/16/2019					630		481		281
12/3/2019						498		378	
3/3/2020	155	130	<10	41				263	
3/5/2020					608	457	535		292
9/15/2020	116	116	100	69					
9/16/2020						463	474	316	88
9/17/2020					587				
3/1/2021	98								
3/2/2021		96	80	43					
3/3/2021						442			212
3/4/2021					540		480	316	
9/21/2021		104	108						
9/22/2021	129			66		457		323	190
9/23/2021					528		511		
2/1/2022	126	124	129	72	560	441	521	354	209
2/2/2022									
8/23/2022	117	101	107	45	568				614
8/24/2022						418	507	370	
1/24/2023	93	104	124	63			507	344	615

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/3/2024 2:15 PM View: Pond E - Appendix III

Plant Branch Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-5S (bg)	BRGWA-5I (bg)	BRGWA-2S (bg)	BRGWC-38S	BRGWC-36S	BRGWC-35S	BRGWC-17S	BRGWC-33S
1/25/2023					484	418			
8/25/2023		73		36					778
8/28/2023	81		80					391	
8/29/2023					459	398	485		
2/6/2024	98	113	118	54			502	413	
2/7/2024					393	435			1420

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/3/2024 2:15 PM View: Pond E - Appendix III

Plant Branch Data: Plant Branch AP

	BRGWC-34S	BRGWA-6S (bg)	BRGWC-37S
8/31/2016			
9/1/2016		299 (o)	
9/7/2016			
9/8/2016	663		
11/15/2016		41	
11/16/2016			
11/17/2016	651		
11/18/2016			
11/21/2016			
2/20/2017		133	
2/21/2017			
2/22/2017	706		
2/23/2017			45
4/17/2017			53
5/15/2017			48
6/12/2017		61	
6/13/2017			
6/14/2017	643		
6/15/2017			63
9/26/2017		29	
9/27/2017	579		
9/28/2017			39
2/13/2018		61	
2/15/2018	612		54
6/26/2018		71	
6/27/2018	359 (X)		
6/28/2018			59 (X)
12/18/2018	535	70 (X)	
12/19/2018			68
12/20/2018			
3/19/2019		72	
3/20/2019	517		68 (X)
10/15/2019		63	
10/16/2019	473		49
12/3/2019			
3/3/2020		54	
3/5/2020	489		39
9/15/2020		79	
9/16/2020	392		31
9/17/2020			
3/1/2021		39	
3/2/2021			
3/3/2021	422		33
3/4/2021			
9/21/2021			
9/22/2021	406	62	
9/23/2021			49
2/1/2022	449	61	
2/2/2022			46
8/23/2022		52	40
8/24/2022	452		
1/24/2023	433	64	

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/3/2024 2:15 PM View: Pond E - Appendix III

Plant Branch Data: Plant Branch AP

	BRGWC-34S	BRGWA-6S (bg)	BRGWC-37S
1/25/2023			28
8/25/2023	495		42
8/28/2023		30	
8/29/2023			
2/6/2024		45	
2/7/2024	494		37

FIGURE E.

Appendix III - Trend Test Summary - Significant Results

Plant Branch Data: Plant Branch AP Printed 4/3/2024, 2:27 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	BRGWA-2I (bg)	-0.0007276	-90	-74	Yes	19	31.58	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWC-35S	0.1544	148	74	Yes	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWC-36S	0.0281	96	81	Yes	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWA-2S (bg)	0.1738	81	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWA-6S (bg)	0.1302	96	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWC-17S	2.321	118	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWC-34S	-2.844	-79	-74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWC-35S	1.735	84	74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWA-5I (bg)	-0.1426	-86	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWA-5S (bg)	-0.07103	-87	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWC-17S	0.222	98	74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWC-36S	0.6441	121	74	Yes	19	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	BRGWA-2S (bg)	0.008399	93	87	Yes	21	57.14	n/a	n/a	0.01	NP
Fluoride (mg/L)	BRGWA-5I (bg)	0.008638	109	87	Yes	21	61.9	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWA-2I (bg)	-0.07041	-101	-87	Yes	21	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWA-2S (bg)	-0.03315	-107	-87	Yes	21	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWA-5S (bg)	-0.05271	-116	-87	Yes	21	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWC-38S	-0.08879	-120	-87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-17S	8.068	93	74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-34S	-23.39	-120	-74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-36S	-12.19	-110	-74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-38S	-33.17	-134	-74	Yes	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWA-5S (bg)	-7.648	-101	-74	Yes	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-34S	-35.37	-83	-74	Yes	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-36S	-17.22	-136	-74	Yes	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-38S	-46.25	-147	-74	Yes	19	0	n/a	n/a	0.01	NP

Appendix III - Trend Test Summary - All Results

Plant Branch Data: Plant Branch AP Printed 4/3/2024, 2:27 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	**BRGWA-2I (bg)**	**-0.0007276**	**-90**	**-74**	**Yes**	**19**	**31.58**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	BRGWA-2S (bg)	0	11	74	No	19	84.21	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWA-5I (bg)	0	-4	-74	No	19	73.68	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWA-5S (bg)	0	-12	-74	No	19	57.89	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWA-6S (bg)	0	-12	-74	No	19	73.68	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWC-17S	0	9	81	No	20	35	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWC-33S	-0.00607	-17	-74	No	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWC-34S	0	-6	-74	No	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	**BRGWC-35S**	**0.1544**	**148**	**74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**BRGWC-36S**	**0.0281**	**96**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	BRGWC-38S	-0.05155	-73	-74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWA-2I (bg)	0.2667	30	74	No	19	5.263	n/a	n/a	0.01	NP
Calcium (mg/L)	**BRGWA-2S (bg)**	**0.1738**	**81**	**74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	BRGWA-5I (bg)	0.1543	37	74	No	19	5.263	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWA-5S (bg)	-0.4984	-64	-74	No	19	5.263	n/a	n/a	0.01	NP
Calcium (mg/L)	**BRGWA-6S (bg)**	**0.1302**	**96**	**74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**BRGWC-17S**	**2.321**	**118**	**74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	BRGWC-33S	1.786	11	74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**BRGWC-34S**	**-2.844**	**-79**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**BRGWC-35S**	**1.735**	**84**	**74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	BRGWC-36S	-0.8845	-72	-74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWA-2I (bg)	-0.02052	-27	-74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWA-2S (bg)	0	13	74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**BRGWA-5I (bg)**	**-0.1426**	**-86**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**BRGWA-5S (bg)**	**-0.07103**	**-87**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	BRGWA-6S (bg)	0	-3	-74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**BRGWC-17S**	**0.222**	**98**	**74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	BRGWC-33S	1.995	57	74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWC-34S	-0.1558	-33	-74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWC-35S	0.06006	57	74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**BRGWC-36S**	**0.6441**	**121**	**74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	BRGWC-38S	0.1657	45	74	No	19	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	BRGWA-2I (bg)	-0.01026	-83	-87	No	21	52.38	n/a	n/a	0.01	NP
Fluoride (mg/L)	**BRGWA-2S (bg)**	**0.008399**	**93**	**87**	**Yes**	**21**	**57.14**	**n/a**	**n/a**	**0.01**	**NP**
Fluoride (mg/L)	**BRGWA-5I (bg)**	**0.008638**	**109**	**87**	**Yes**	**21**	**61.9**	**n/a**	**n/a**	**0.01**	**NP**
Fluoride (mg/L)	BRGWA-5S (bg)	0.00428	33	87	No	21	33.33	n/a	n/a	0.01	NP
Fluoride (mg/L)	BRGWA-6S (bg)	0	48	87	No	21	52.38	n/a	n/a	0.01	NP
Fluoride (mg/L)	BRGWC-17S	0.01276	44	87	No	21	4.762	n/a	n/a	0.01	NP
Fluoride (mg/L)	BRGWC-38S	-0.01068	-19	-87	No	21	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	**BRGWA-2I (bg)**	**-0.07041**	**-101**	**-87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (S.U.)	**BRGWA-2S (bg)**	**-0.03315**	**-107**	**-87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (S.U.)	BRGWA-5I (bg)	-0.0131	-41	-87	No	21	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	**BRGWA-5S (bg)**	**-0.05271**	**-116**	**-87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (S.U.)	BRGWA-6S (bg)	-0.01695	-28	-81	No	20	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWC-33S	-0.01171	-77	-92	No	22	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWC-35S	-0.0179	-35	-81	No	20	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWC-36S	-0.002503	-7	-81	No	20	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWC-37S	-0.009029	-10	-68	No	18	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	**BRGWC-38S**	**-0.08879**	**-120**	**-87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	BRGWA-2I (bg)	-0.2264	-53	-74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-2S (bg)	-0.01093	-20	-74	No	19	31.58	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-5I (bg)	-0.2385	-67	-74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-5S (bg)	-0.03629	-55	-74	No	19	31.58	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-6S (bg)	-0.01177	-27	-74	No	19	21.05	n/a	n/a	0.01	NP
Sulfate (mg/L)	**BRGWC-17S**	**8.068**	**93**	**74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	BRGWC-33S	0	-2	-74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**BRGWC-34S**	**-23.39**	**-120**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	BRGWC-35S	0.2254	4	74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**BRGWC-36S**	**-12.19**	**-110**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**BRGWC-38S**	**-33.17**	**-134**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	BRGWA-2I (bg)	-8.655	-62	-74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWA-2S (bg)	-0.738	-7	-74	No	19	5.263	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWA-5I (bg)	-3.436	-46	-74	No	19	5.263	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	**BRGWA-5S (bg)**	**-7.648**	**-101**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	BRGWA-6S (bg)	-2.289	-26	-68	No	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-17S	7.871	62	74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-33S	5.503	4	74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	**BRGWC-34S**	**-35.37**	**-83**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**

Appendix III - Trend Test Summary - All Results

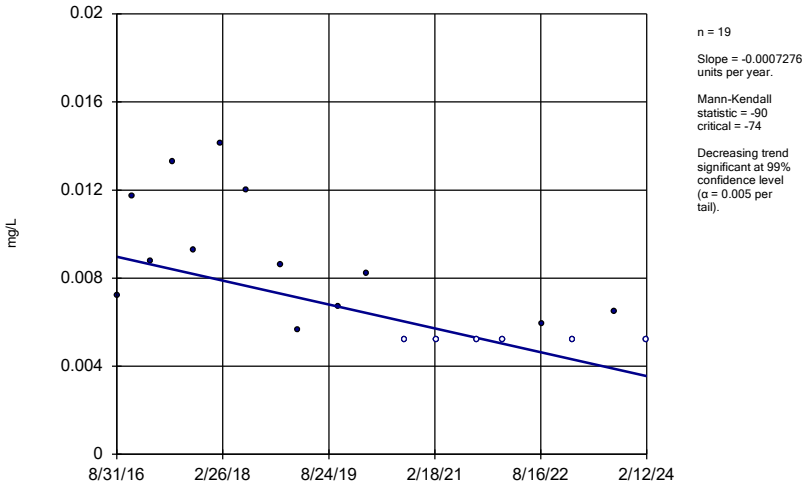
Plant Branch Data: Plant Branch AP Printed 4/3/2024, 2:27 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Total Dissolved Solids (mg/L)	BRGWC-35S	1.416	14	74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	**BRGWC-36S**	**-17.22**	**-136**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**BRGWC-38S**	**-46.25**	**-147**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-2I (bg)



n = 19

Slope = -0.0007276 units per year.

Mann-Kendall statistic = -90
critical = -74

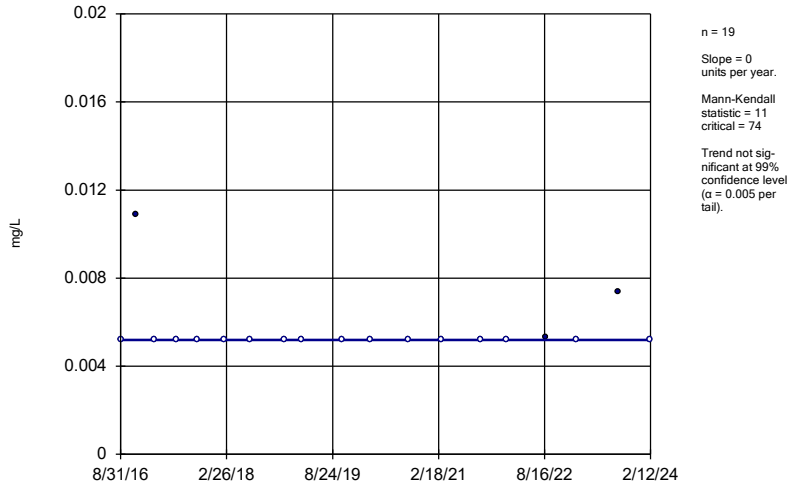
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/3/2024 2:23 PM View: Pond E - Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-2S (bg)



n = 19

Slope = 0 units per year.

Mann-Kendall statistic = 11
critical = 74

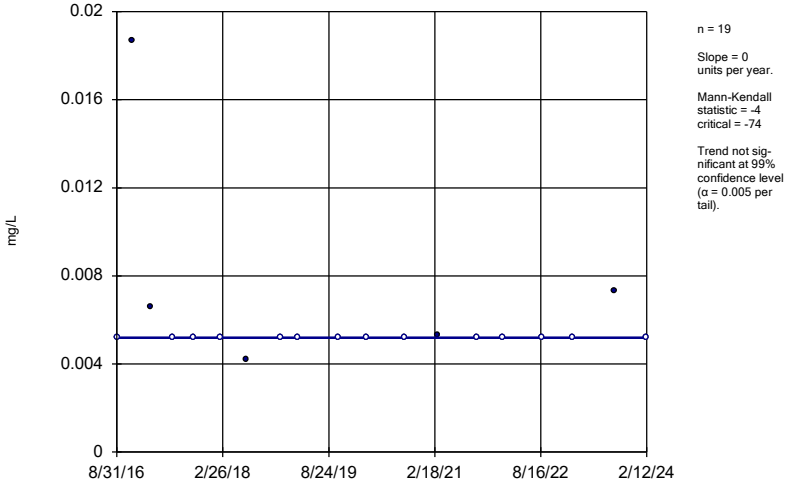
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/3/2024 2:23 PM View: Pond E - Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-5I (bg)



n = 19

Slope = 0 units per year.

Mann-Kendall statistic = -4
critical = -74

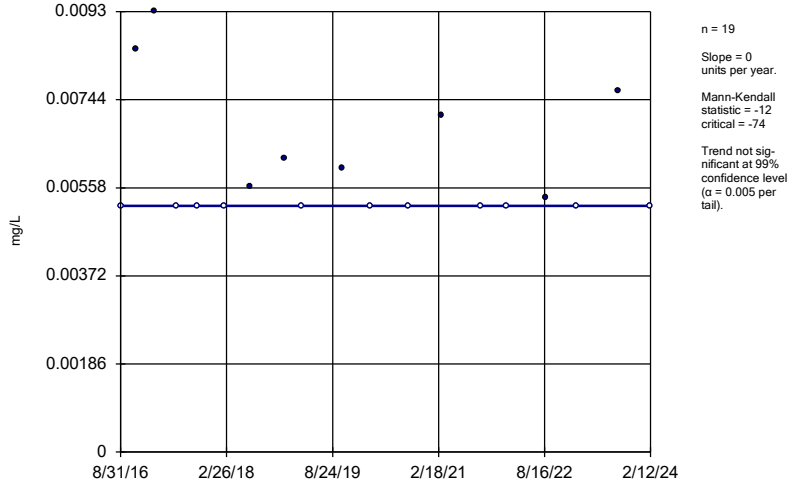
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/3/2024 2:23 PM View: Pond E - Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-5S (bg)



n = 19

Slope = 0 units per year.

Mann-Kendall statistic = -12
critical = -74

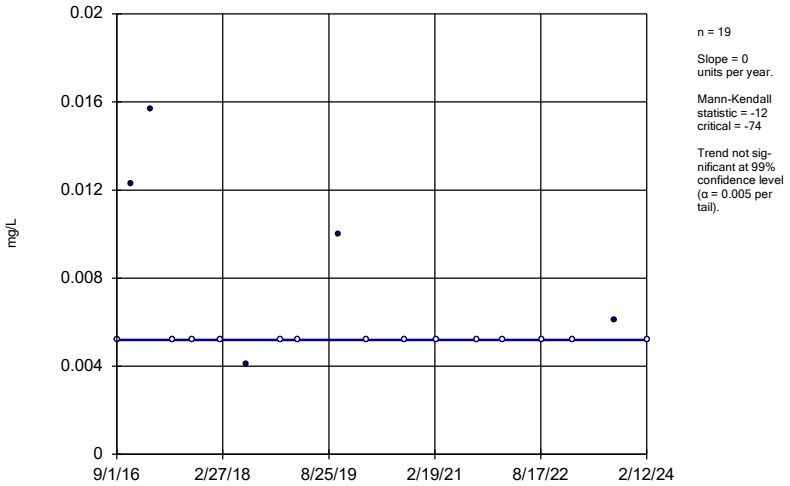
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/3/2024 2:23 PM View: Pond E - Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-6S (bg)



n = 19

Slope = 0 units per year.

Mann-Kendall statistic = -12
critical = -74

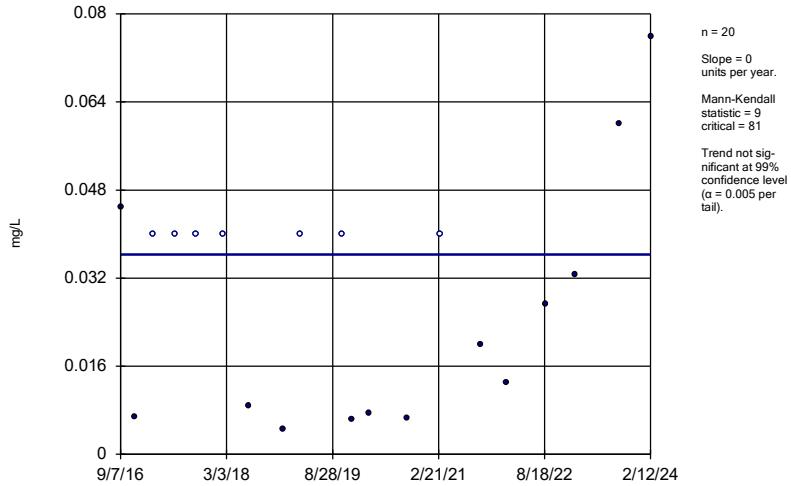
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/3/2024 2:23 PM View: Pond E - Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWC-17S



n = 20

Slope = 0 units per year.

Mann-Kendall statistic = 9
critical = 81

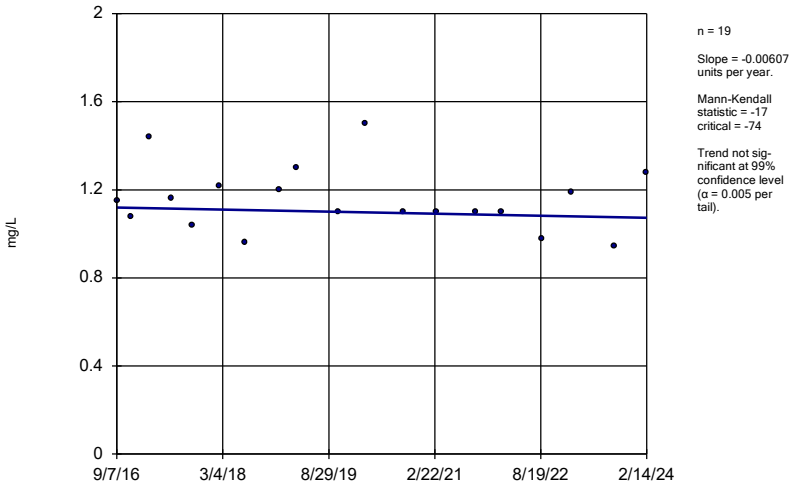
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/3/2024 2:23 PM View: Pond E - Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWC-33S



n = 19

Slope = -0.00607 units per year.

Mann-Kendall statistic = -17
critical = -74

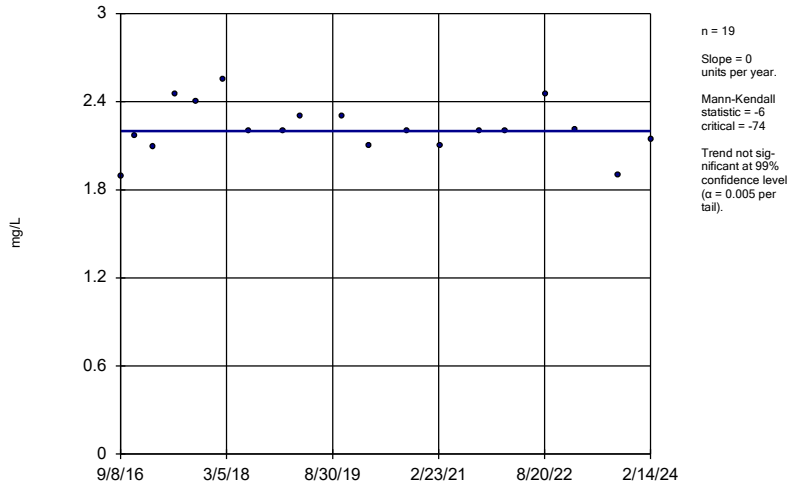
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/3/2024 2:23 PM View: Pond E - Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWC-34S



n = 19

Slope = 0 units per year.

Mann-Kendall statistic = -6
critical = -74

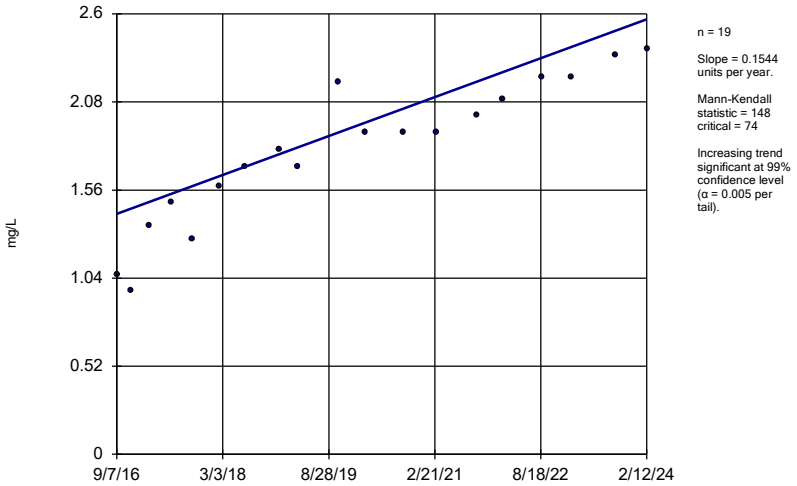
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/3/2024 2:23 PM View: Pond E - Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWC-35S



n = 19

Slope = 0.1544 units per year.

Mann-Kendall statistic = 148
critical = 74

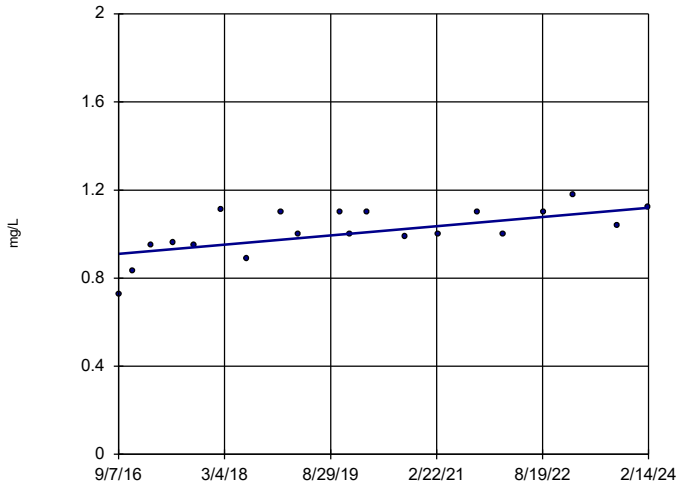
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/3/2024 2:23 PM View: Pond E - Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWC-36S



n = 20

Slope = 0.0281 units per year.

Mann-Kendall statistic = 96
critical = 81

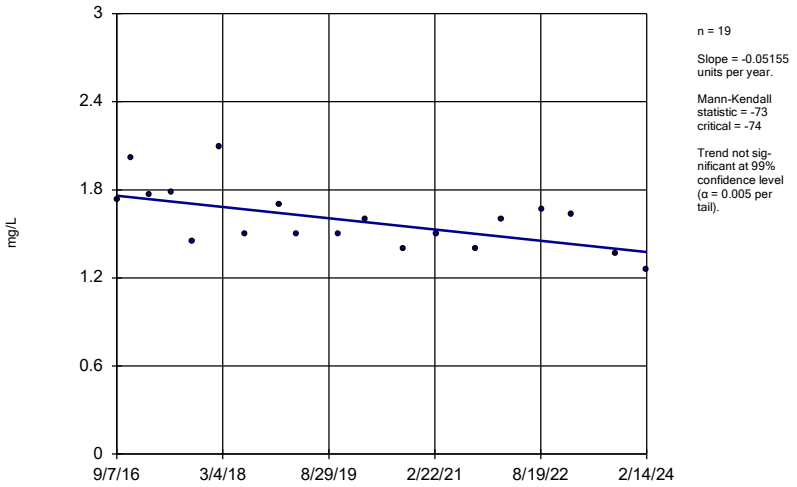
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/3/2024 2:23 PM View: Pond E - Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWC-38S



n = 19

Slope = -0.05155 units per year.

Mann-Kendall statistic = -73
critical = -74

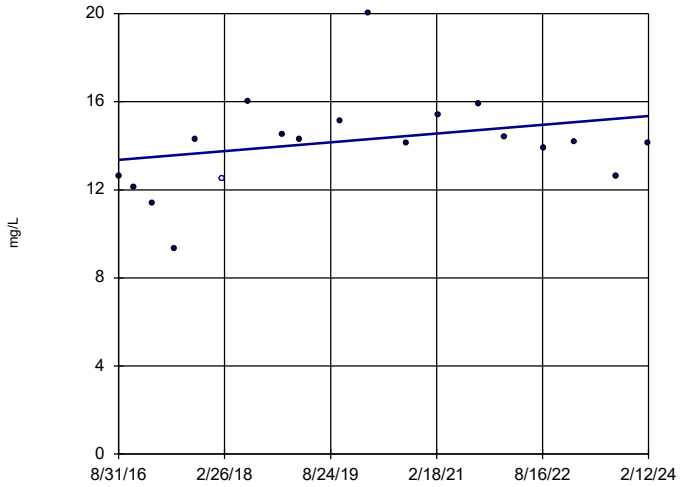
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/3/2024 2:23 PM View: Pond E - Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-2I (bg)



n = 19

Slope = 0.2667 units per year.

Mann-Kendall statistic = 30
critical = 74

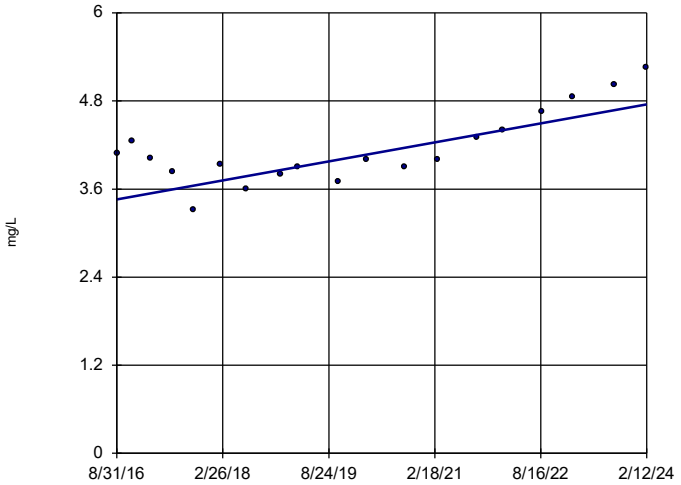
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/3/2024 2:23 PM View: Pond E - Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWA-2S (bg)



n = 19

Slope = 0.1738 units per year.

Mann-Kendall statistic = 81 critical = 74

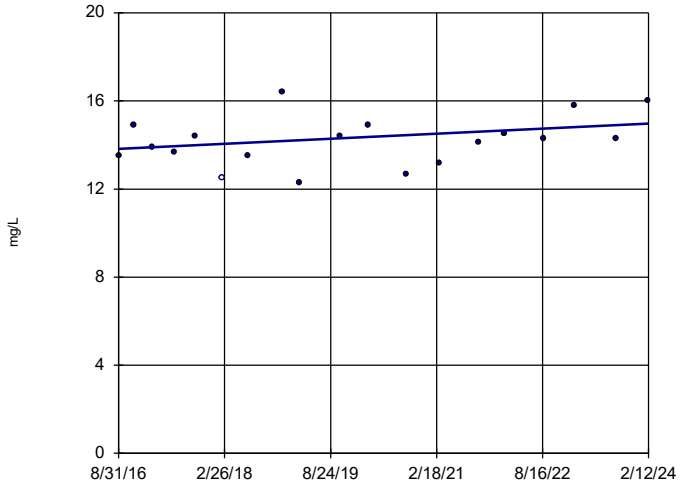
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/3/2024 2:23 PM View: Pond E - Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-5I (bg)



n = 19

Slope = 0.1543 units per year.

Mann-Kendall statistic = 37 critical = 74

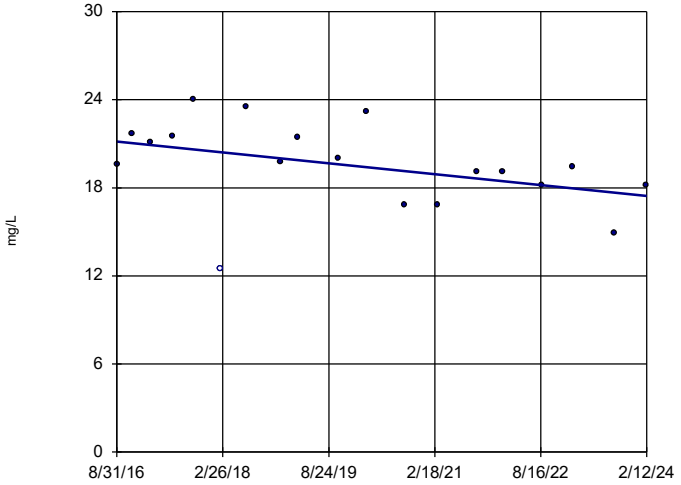
Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/3/2024 2:23 PM View: Pond E - Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-5S (bg)



n = 19

Slope = -0.4984 units per year.

Mann-Kendall statistic = -64 critical = -74

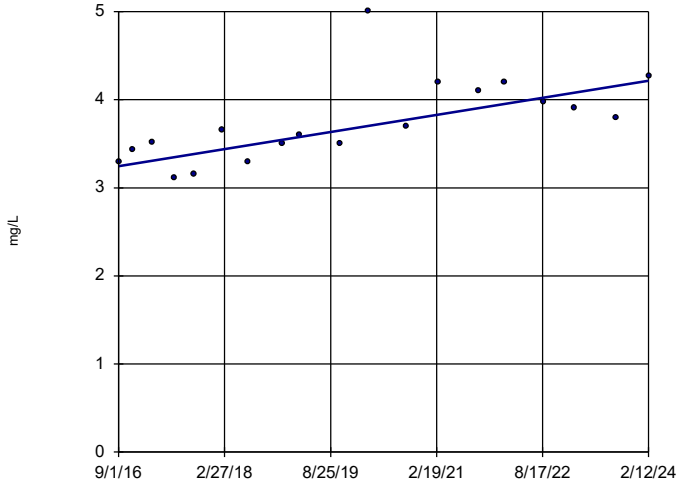
Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/3/2024 2:23 PM View: Pond E - Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWA-6S (bg)



n = 19

Slope = 0.1302 units per year.

Mann-Kendall statistic = 96 critical = 74

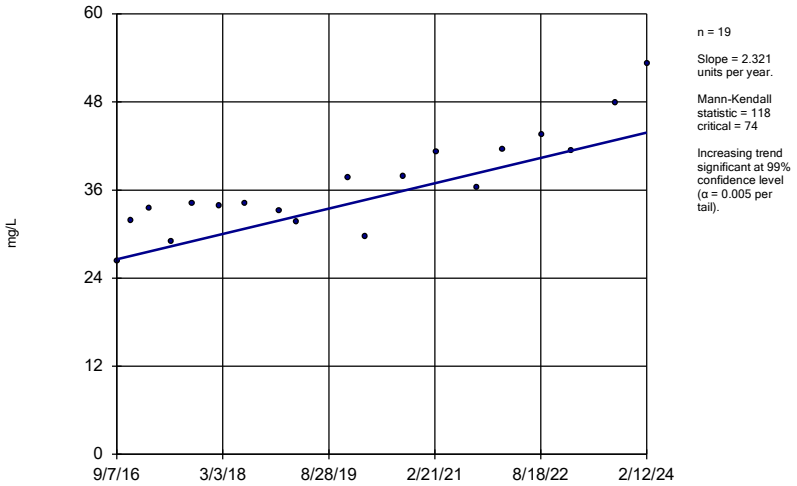
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/3/2024 2:23 PM View: Pond E - Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWC-17S



n = 19

Slope = 2.321 units per year.

Mann-Kendall statistic = 118 critical = 74

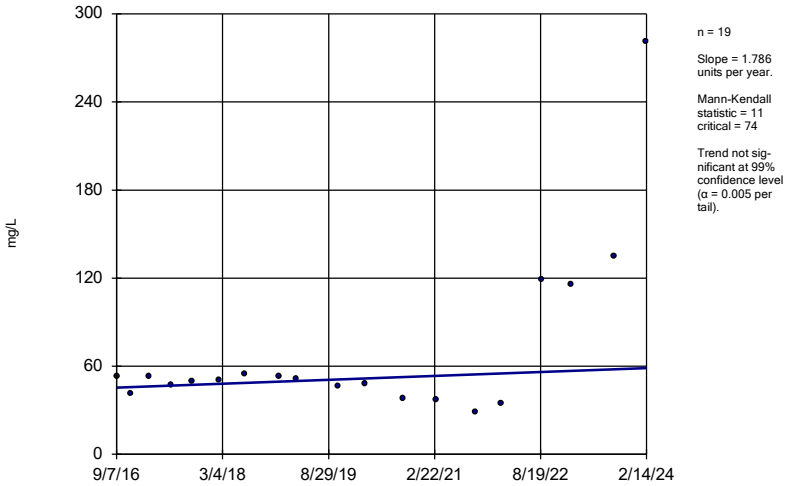
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/3/2024 2:23 PM View: Pond E - Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWC-33S



n = 19

Slope = 1.786 units per year.

Mann-Kendall statistic = 11 critical = 74

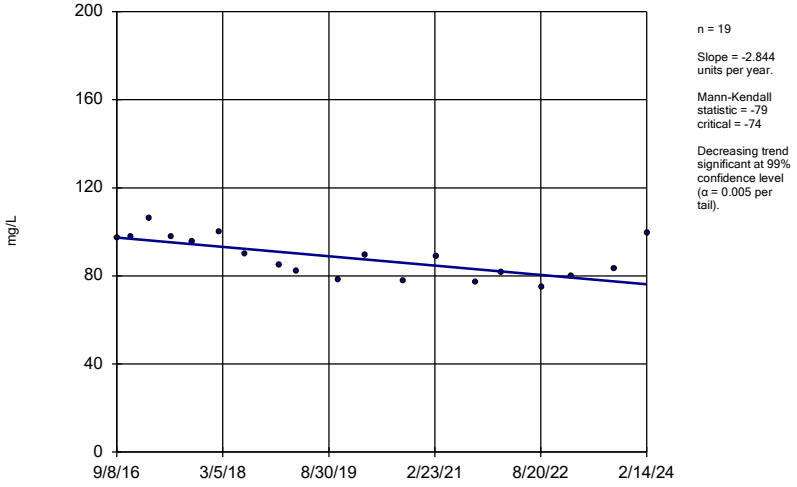
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/3/2024 2:23 PM View: Pond E - Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWC-34S



n = 19

Slope = -2.844 units per year.

Mann-Kendall statistic = -79 critical = -74

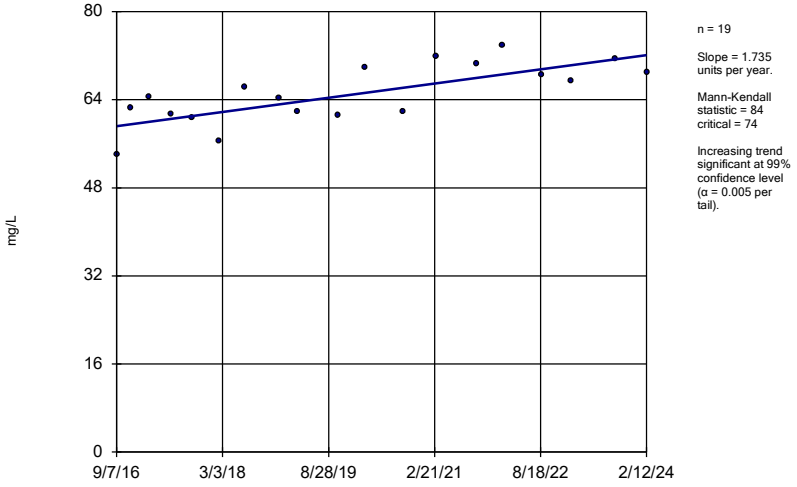
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/3/2024 2:23 PM View: Pond E - Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWC-35S



n = 19

Slope = 1.735 units per year.

Mann-Kendall statistic = 84 critical = 74

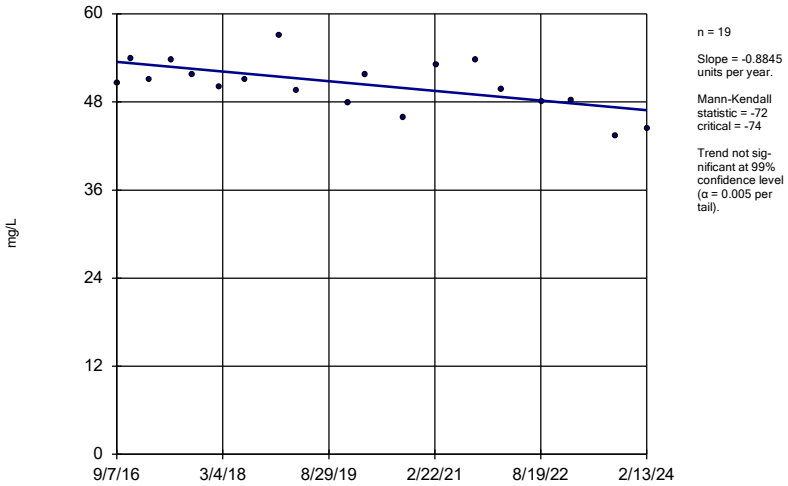
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/3/2024 2:23 PM View: Pond E - Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWC-36S



n = 19

Slope = -0.8845 units per year.

Mann-Kendall statistic = -72 critical = -74

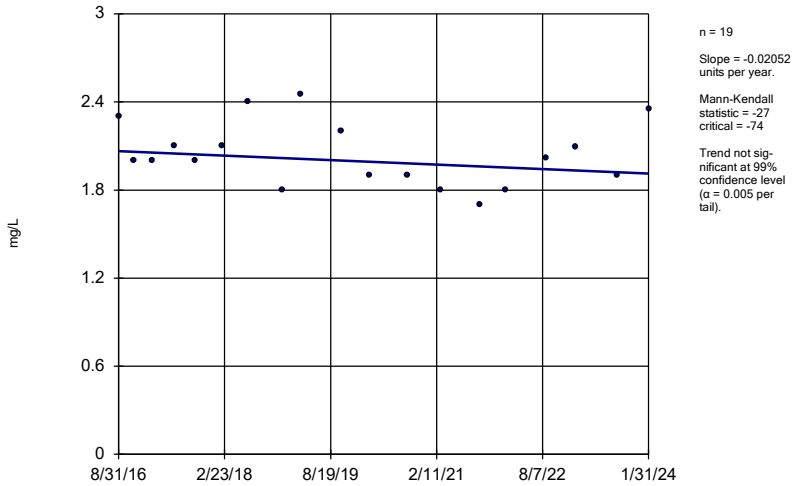
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/3/2024 2:23 PM View: Pond E - Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWA-2I (bg)



n = 19

Slope = -0.02052 units per year.

Mann-Kendall statistic = -27 critical = -74

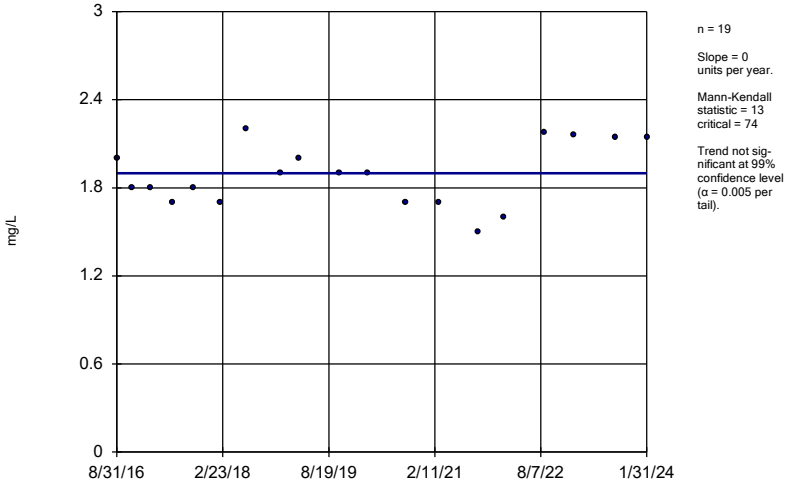
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 4/3/2024 2:23 PM View: Pond E - Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWA-2S (bg)



n = 19

Slope = 0 units per year.

Mann-Kendall statistic = 13 critical = 74

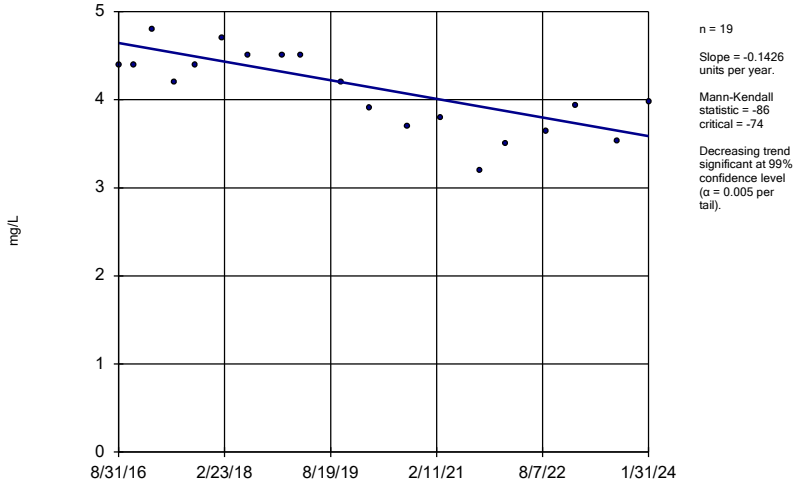
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 4/3/2024 2:23 PM View: Pond E - Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWA-5I (bg)



n = 19

Slope = -0.1426 units per year.

Mann-Kendall statistic = -86 critical = -74

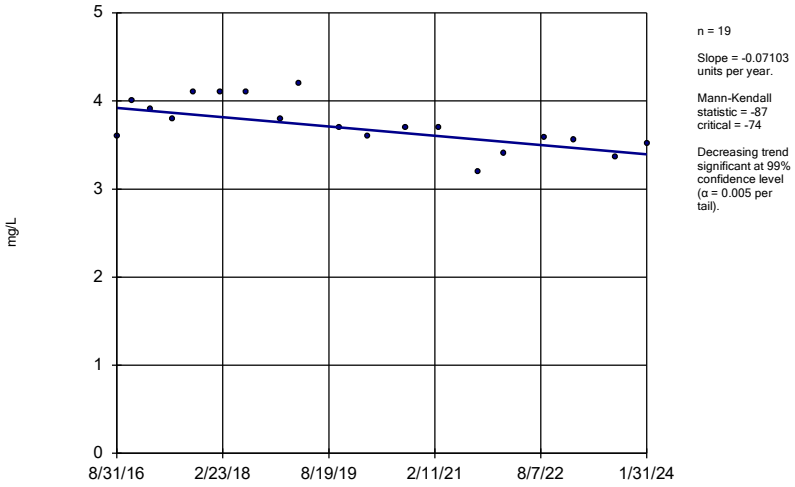
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 4/3/2024 2:23 PM View: Pond E - Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWA-5S (bg)



n = 19

Slope = -0.07103 units per year.

Mann-Kendall statistic = -87
critical = -74

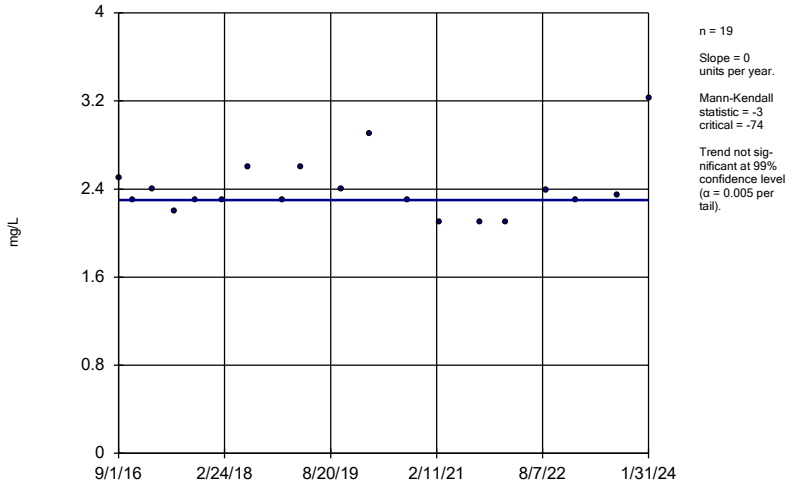
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 4/3/2024 2:23 PM View: Pond E - Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWA-6S (bg)



n = 19

Slope = 0 units per year.

Mann-Kendall statistic = -3
critical = -74

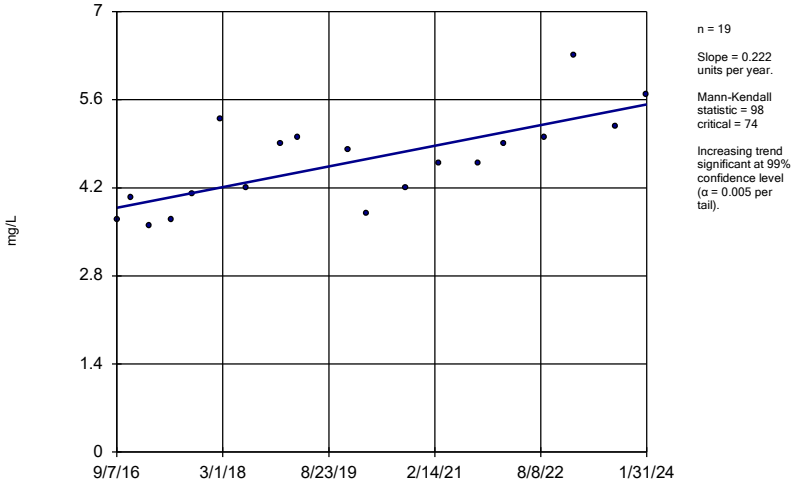
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 4/3/2024 2:23 PM View: Pond E - Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWC-17S



n = 19

Slope = 0.222 units per year.

Mann-Kendall statistic = 98
critical = 74

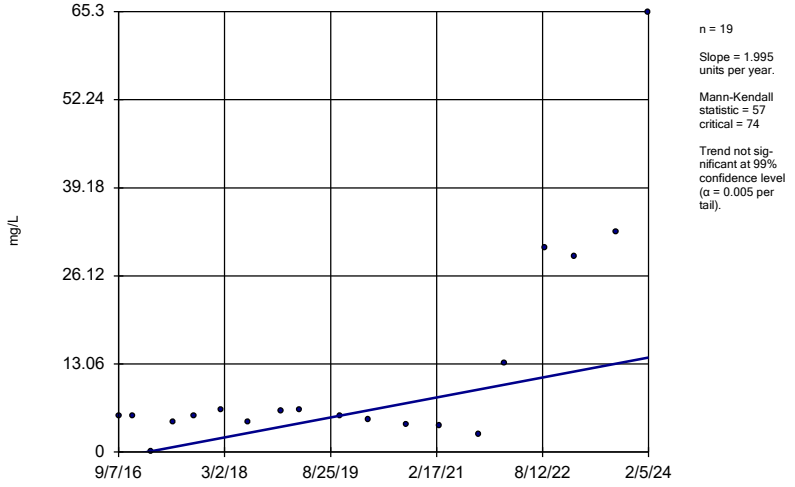
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 4/3/2024 2:23 PM View: Pond E - Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWC-33S



n = 19

Slope = 1.995 units per year.

Mann-Kendall statistic = 57
critical = 74

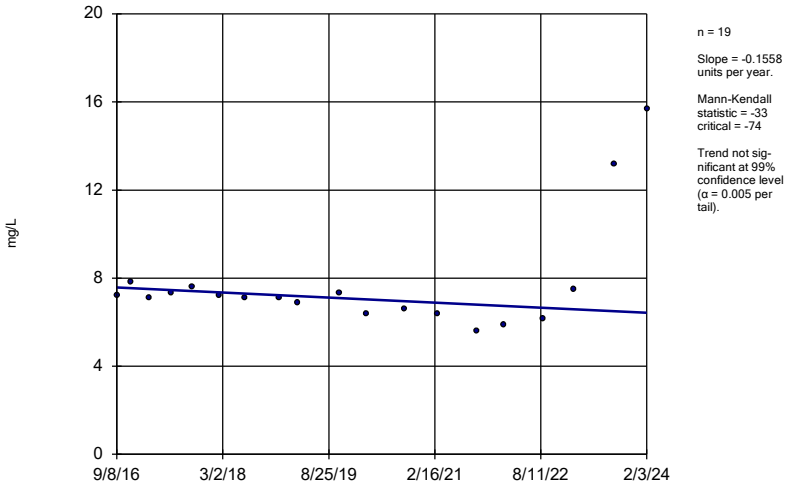
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 4/3/2024 2:23 PM View: Pond E - Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWC-34S



n = 19

Slope = -0.1558 units per year.

Mann-Kendall statistic = -33
critical = -74

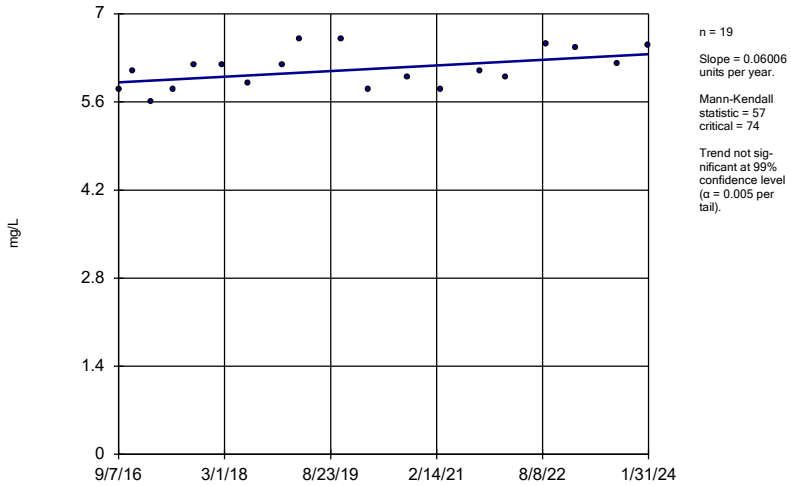
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 4/3/2024 2:23 PM View: Pond E - Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWC-35S



n = 19

Slope = 0.06006 units per year.

Mann-Kendall statistic = 57
critical = 74

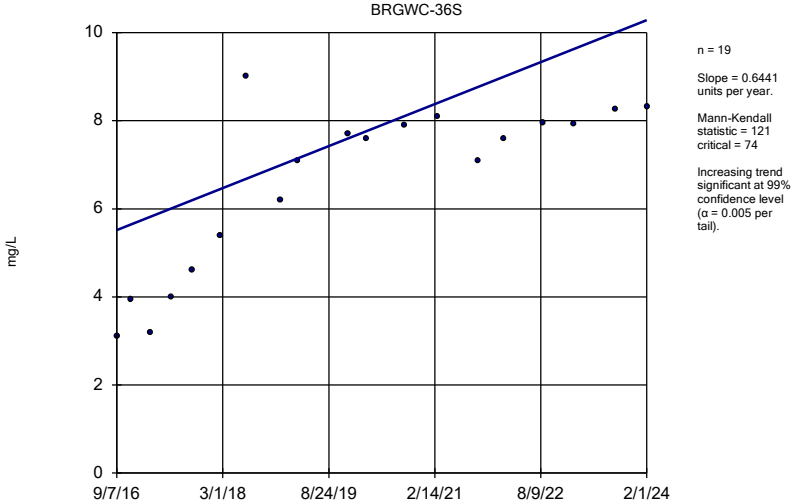
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 4/3/2024 2:23 PM View: Pond E - Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWC-36S



n = 19

Slope = 0.6441 units per year.

Mann-Kendall statistic = 121
critical = 74

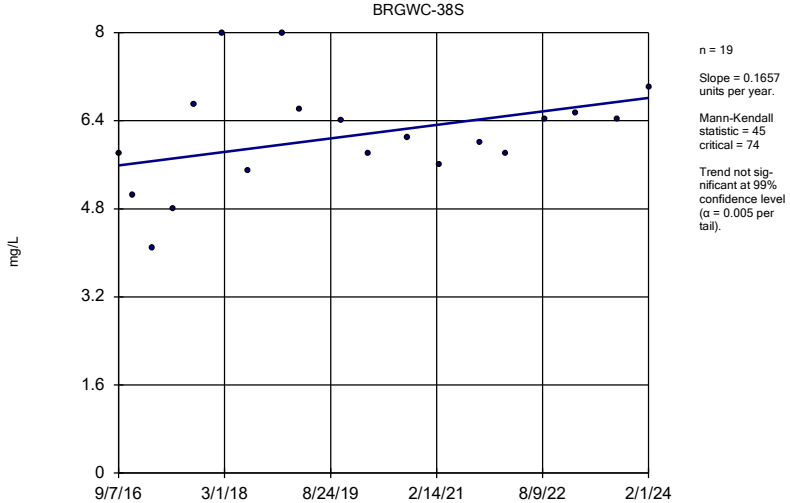
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 4/3/2024 2:23 PM View: Pond E - Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWC-38S



n = 19

Slope = 0.1657 units per year.

Mann-Kendall statistic = 45
critical = 74

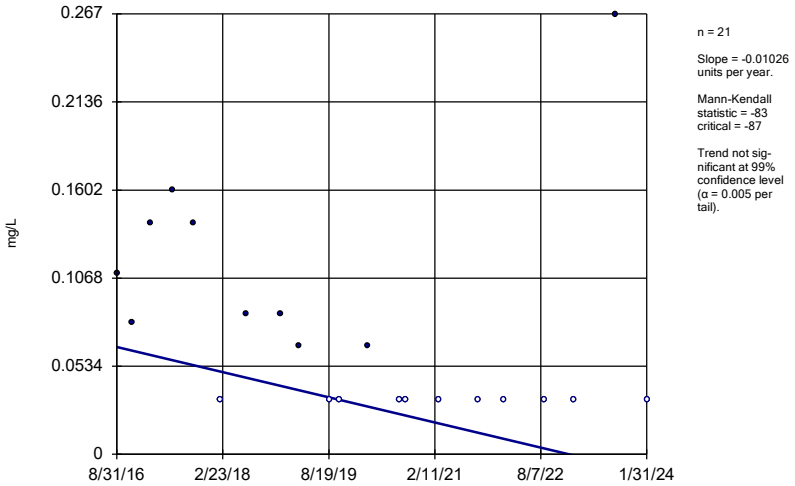
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 4/3/2024 2:23 PM View: Pond E - Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-2I (bg)



n = 21

Slope = -0.01026 units per year.

Mann-Kendall statistic = -83
critical = -87

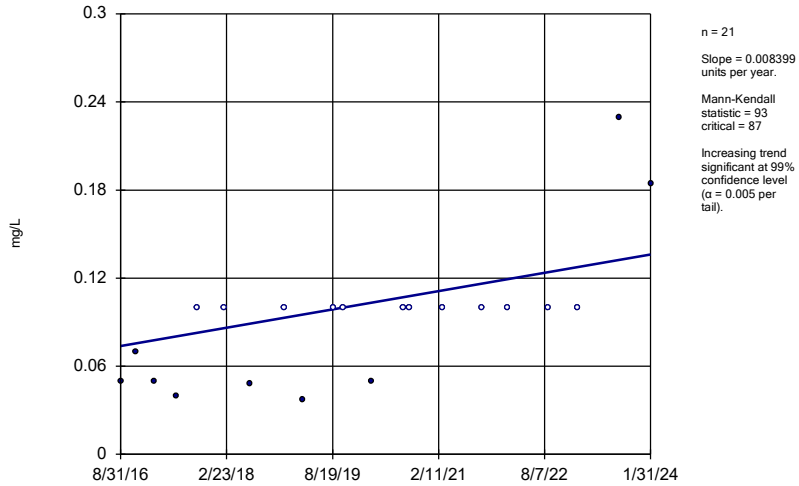
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride Analysis Run 4/3/2024 2:23 PM View: Pond E - Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-2S (bg)



n = 21

Slope = 0.008399 units per year.

Mann-Kendall statistic = 93
critical = 87

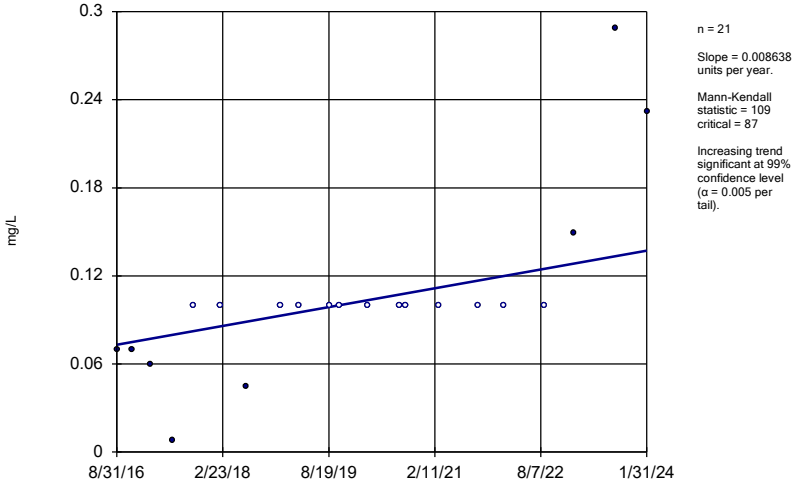
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride Analysis Run 4/3/2024 2:23 PM View: Pond E - Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-5I (bg)



n = 21

Slope = 0.008638 units per year.

Mann-Kendall statistic = 109
critical = 87

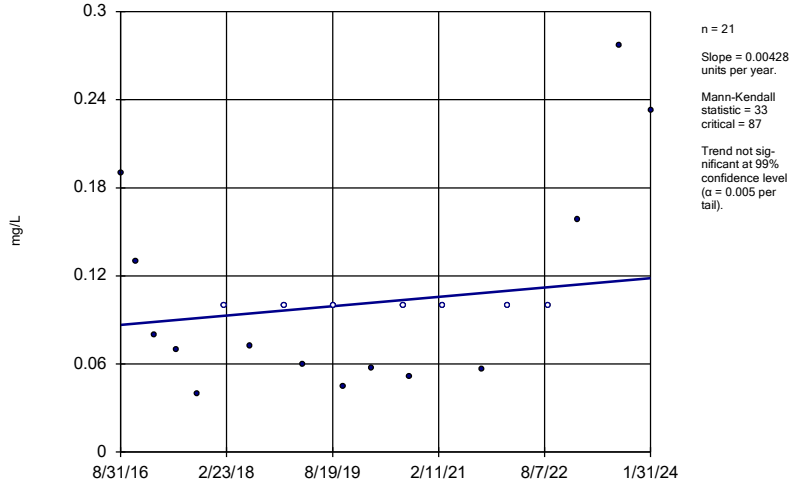
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride Analysis Run 4/3/2024 2:23 PM View: Pond E - Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-5S (bg)



n = 21

Slope = 0.00428 units per year.

Mann-Kendall statistic = 33
critical = 87

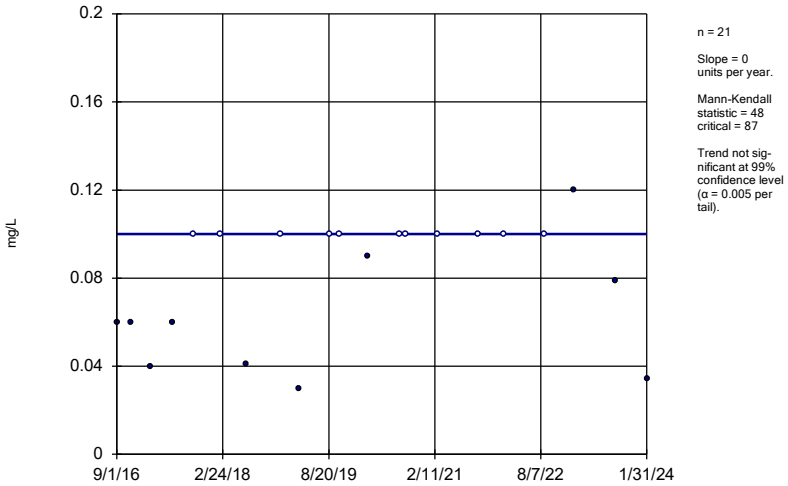
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride Analysis Run 4/3/2024 2:23 PM View: Pond E - Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-6S (bg)



n = 21

Slope = 0 units per year.

Mann-Kendall statistic = 48
critical = 87

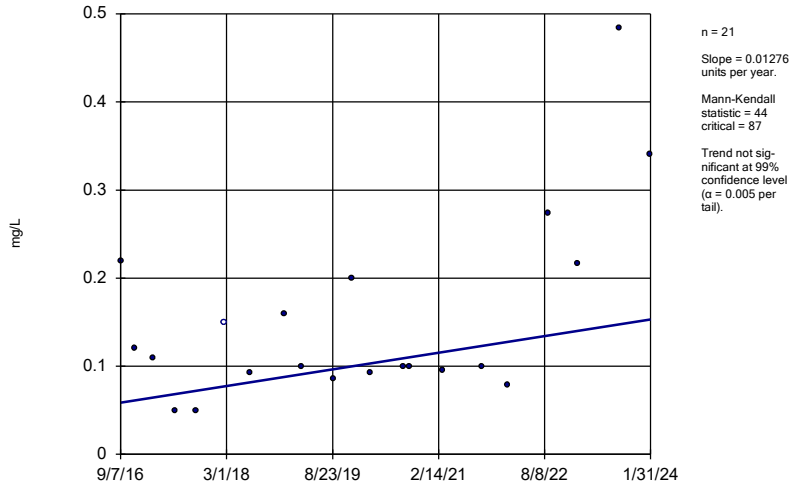
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride Analysis Run 4/3/2024 2:23 PM View: Pond E - Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWC-17S



n = 21

Slope = 0.01276 units per year.

Mann-Kendall statistic = 44
critical = 87

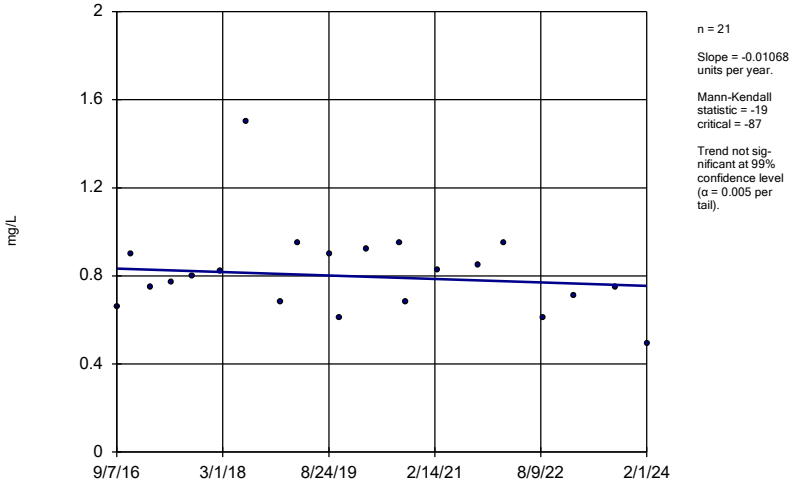
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride Analysis Run 4/3/2024 2:23 PM View: Pond E - Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWC-38S



n = 21

Slope = -0.01068 units per year.

Mann-Kendall statistic = -19
critical = -87

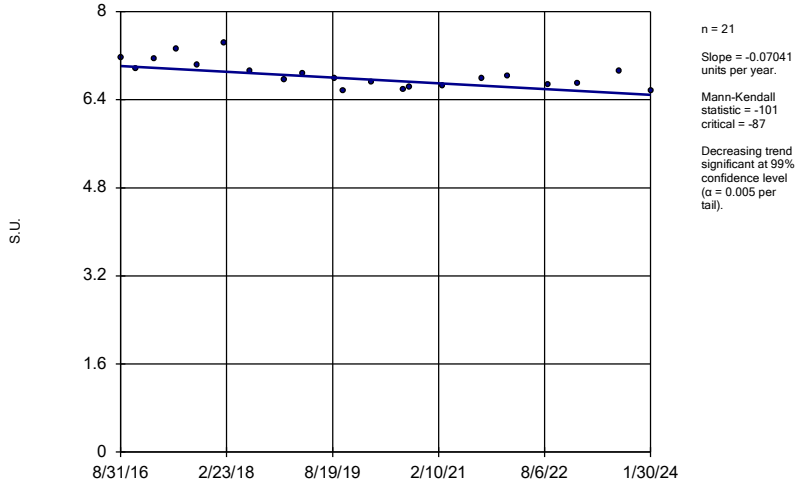
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride Analysis Run 4/3/2024 2:23 PM View: Pond E - Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWA-2I (bg)



n = 21

Slope = -0.07041 units per year.

Mann-Kendall statistic = -101
critical = -87

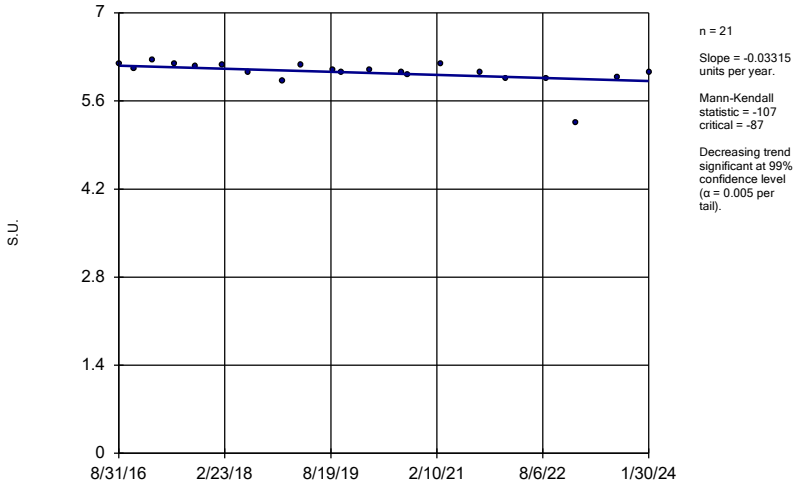
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 4/3/2024 2:23 PM View: Pond E - Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWA-2S (bg)



n = 21

Slope = -0.03315 units per year.

Mann-Kendall statistic = -107
critical = -87

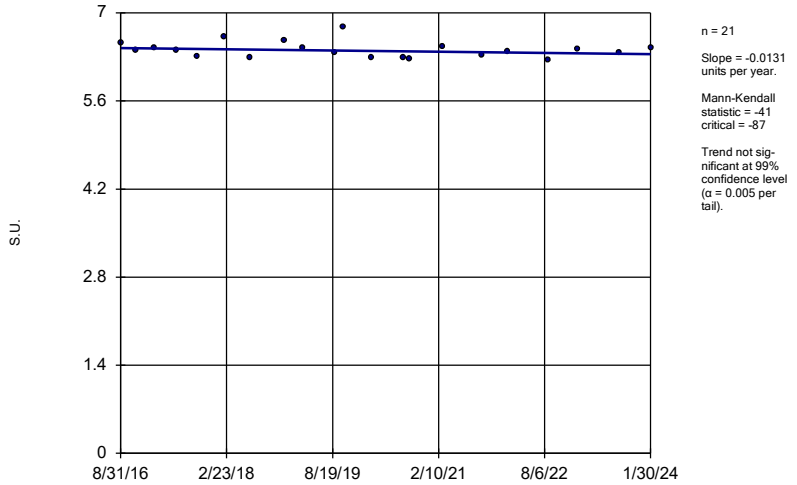
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 4/3/2024 2:23 PM View: Pond E - Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWA-5I (bg)



n = 21

Slope = -0.0131 units per year.

Mann-Kendall statistic = -41
critical = -87

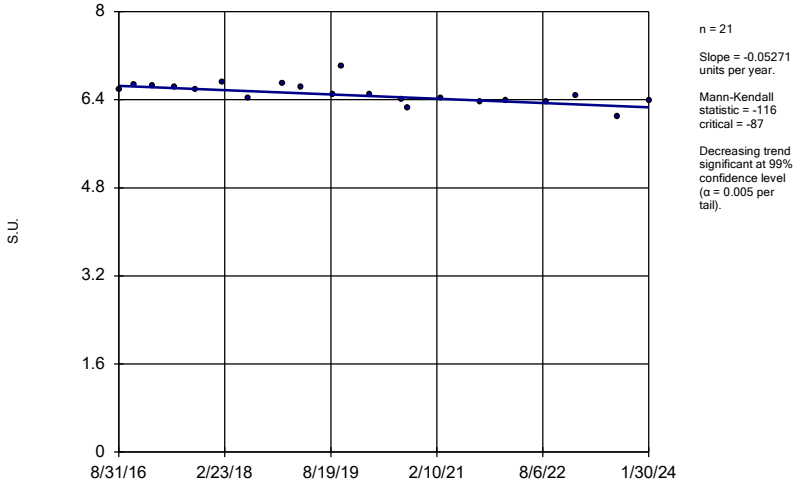
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 4/3/2024 2:23 PM View: Pond E - Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWA-5S (bg)



n = 21

Slope = -0.05271 units per year.

Mann-Kendall statistic = -116
critical = -87

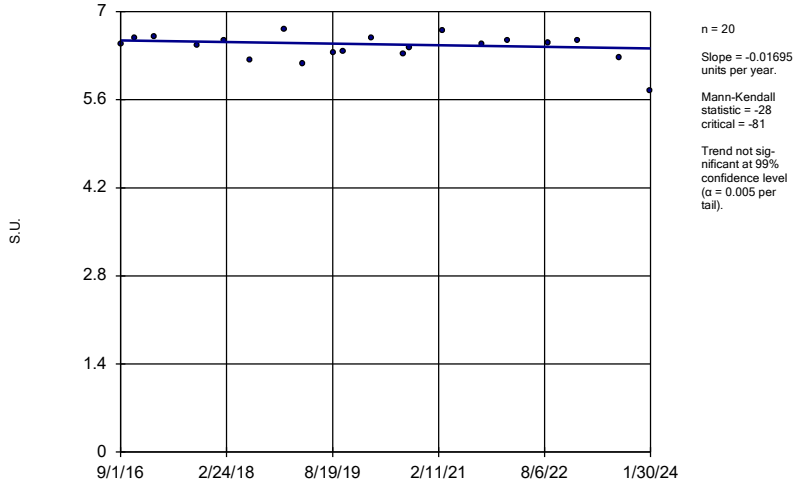
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 4/3/2024 2:23 PM View: Pond E - Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWA-6S (bg)



n = 20

Slope = -0.01695 units per year.

Mann-Kendall statistic = -28
critical = -81

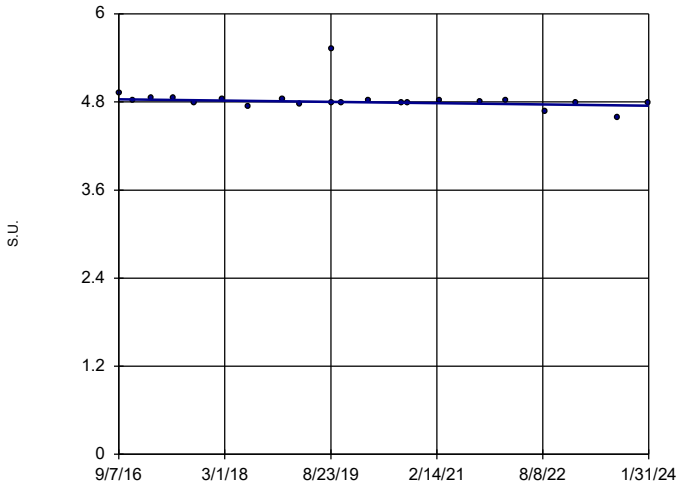
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 4/3/2024 2:23 PM View: Pond E - Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWC-33S



n = 22

Slope = -0.01171 units per year.

Mann-Kendall statistic = -77
critical = -92

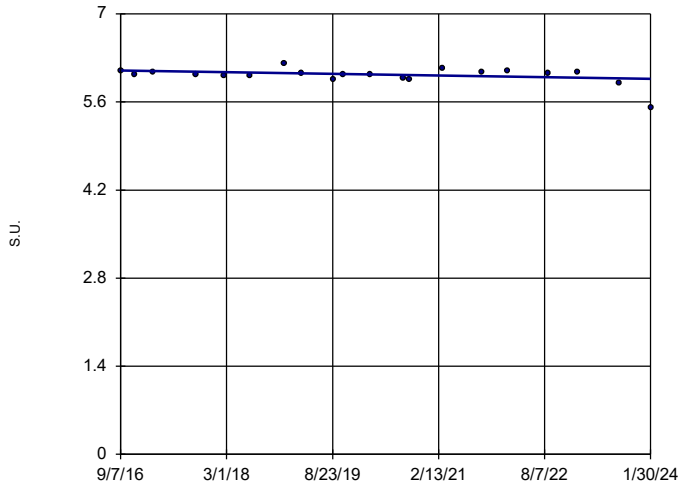
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 4/3/2024 2:23 PM View: Pond E - Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWC-35S



n = 20

Slope = -0.0179 units per year.

Mann-Kendall statistic = -35
critical = -81

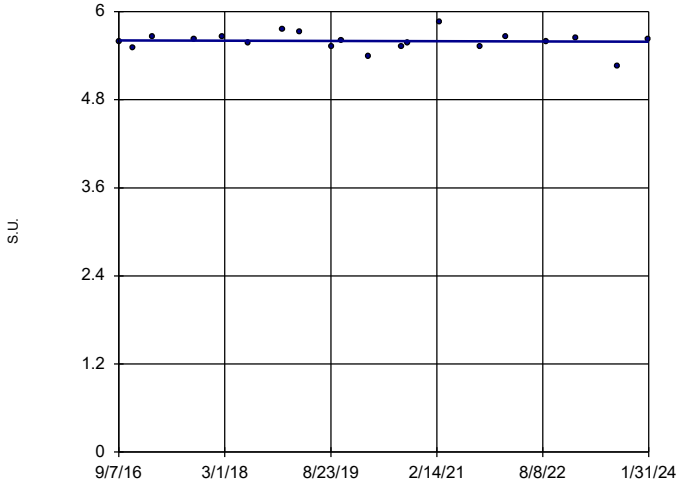
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 4/3/2024 2:23 PM View: Pond E - Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWC-36S



n = 20

Slope = -0.002503 units per year.

Mann-Kendall statistic = -7
critical = -81

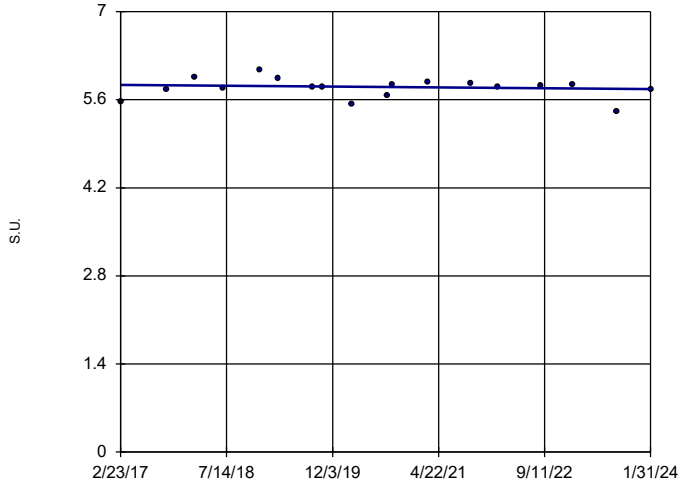
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 4/3/2024 2:23 PM View: Pond E - Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWC-37S



n = 18

Slope = -0.009029 units per year.

Mann-Kendall statistic = -10
critical = -68

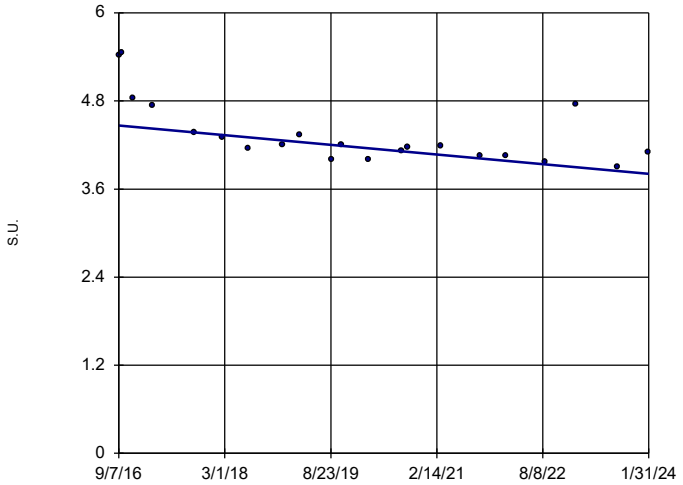
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 4/3/2024 2:23 PM View: Pond E - Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWC-38S



n = 21

Slope = -0.08879 units per year.

Mann-Kendall statistic = -120 critical = -87

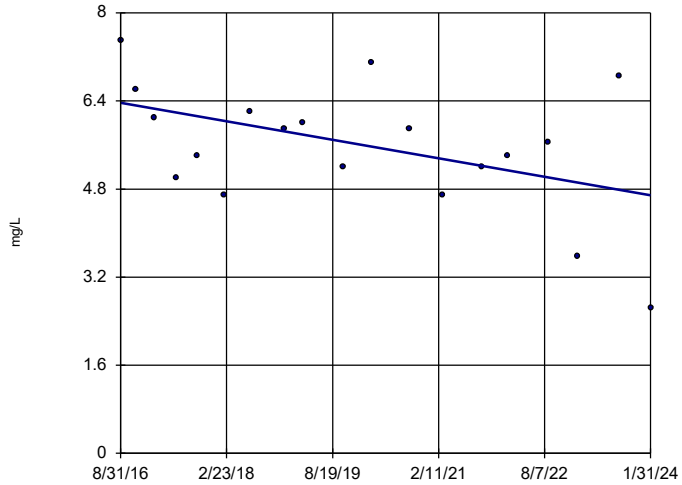
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 4/3/2024 2:23 PM View: Pond E - Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWA-2I (bg)



n = 19

Slope = -0.2264 units per year.

Mann-Kendall statistic = -53 critical = -74

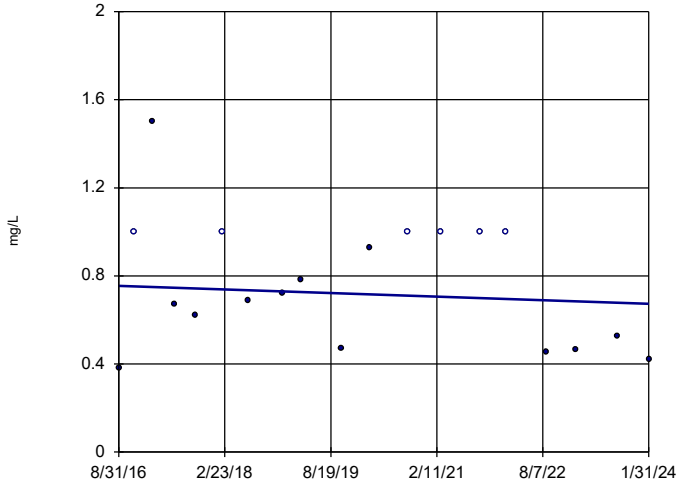
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/3/2024 2:23 PM View: Pond E - Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-2S (bg)



n = 19

Slope = -0.01093 units per year.

Mann-Kendall statistic = -20 critical = -74

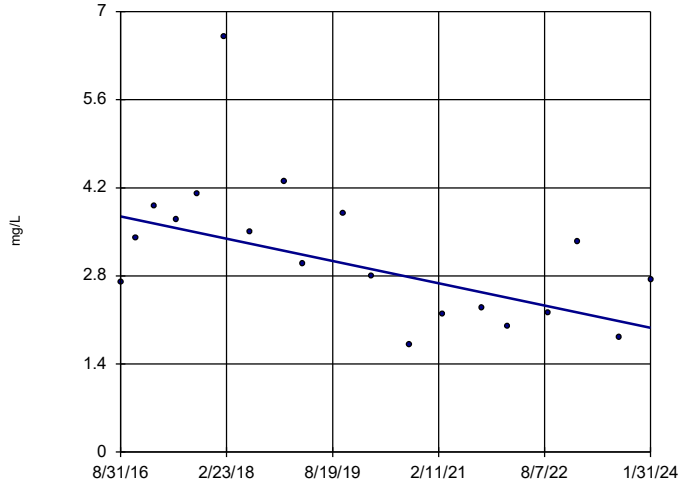
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/3/2024 2:23 PM View: Pond E - Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWA-5I (bg)



n = 19

Slope = -0.2385 units per year.

Mann-Kendall statistic = -67 critical = -74

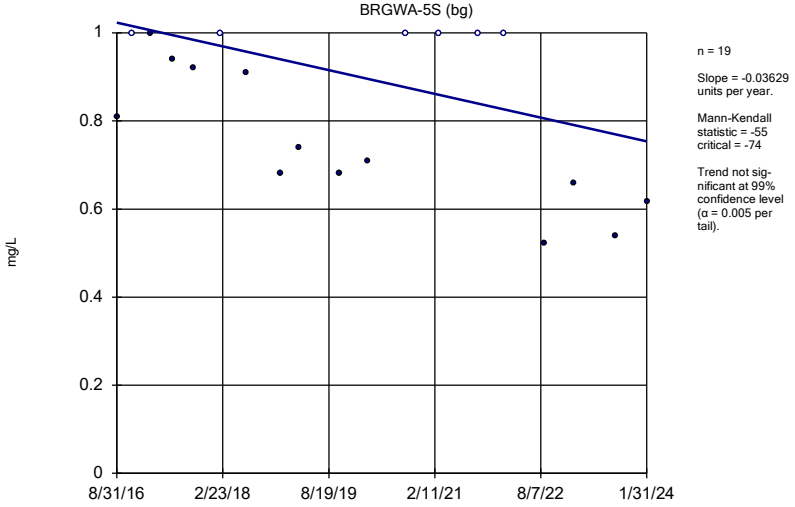
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/3/2024 2:23 PM View: Pond E - Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-5S (bg)



n = 19

Slope = -0.03629 units per year.

Mann-Kendall statistic = -55
critical = -74

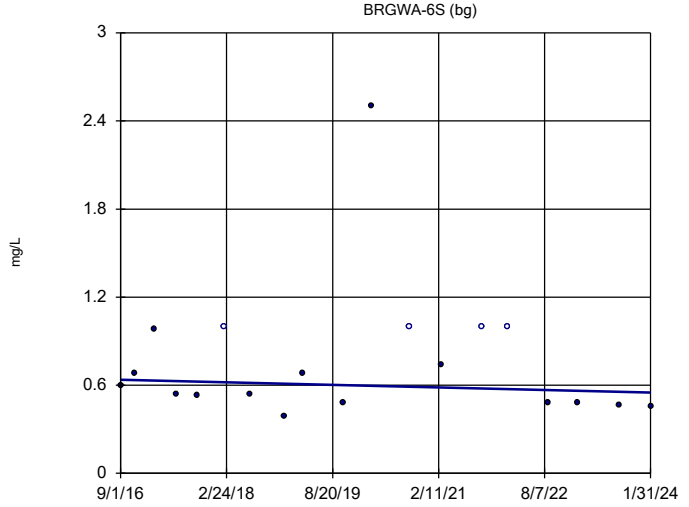
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/3/2024 2:23 PM View: Pond E - Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-6S (bg)



n = 19

Slope = -0.01177 units per year.

Mann-Kendall statistic = -27
critical = -74

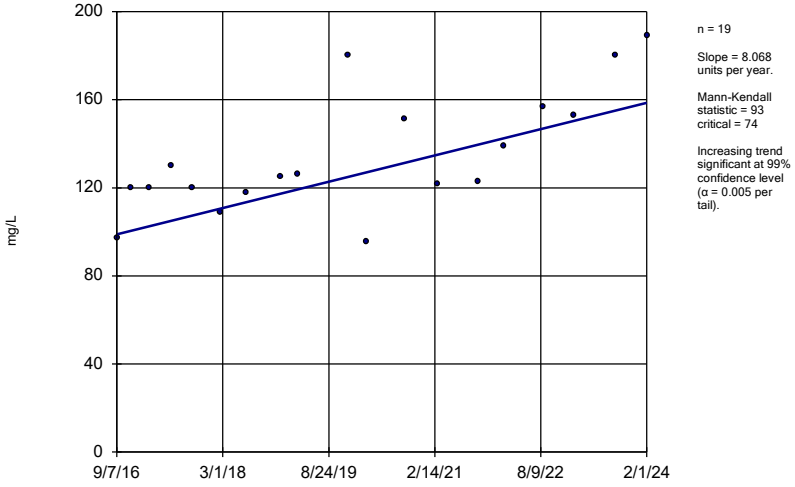
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/3/2024 2:23 PM View: Pond E - Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWC-17S



n = 19

Slope = 8.068 units per year.

Mann-Kendall statistic = 93
critical = 74

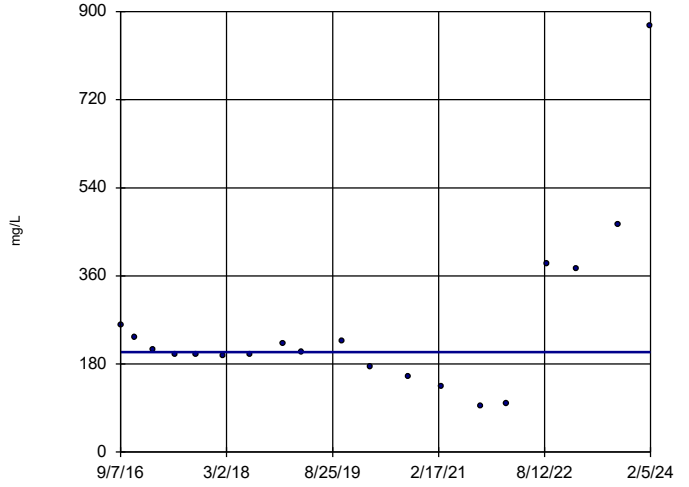
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/3/2024 2:23 PM View: Pond E - Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWC-33S



n = 19

Slope = 0 units per year.

Mann-Kendall statistic = -2
critical = -74

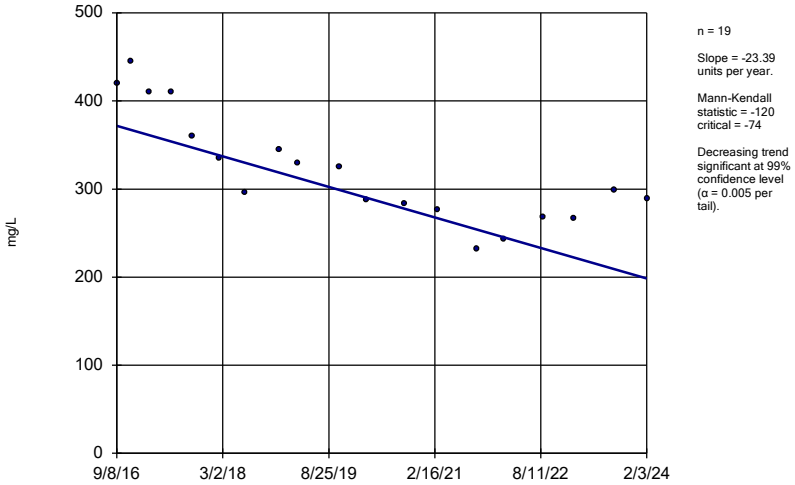
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/3/2024 2:23 PM View: Pond E - Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWC-34S



n = 19

Slope = -23.39 units per year.

Mann-Kendall statistic = -120
critical = -74

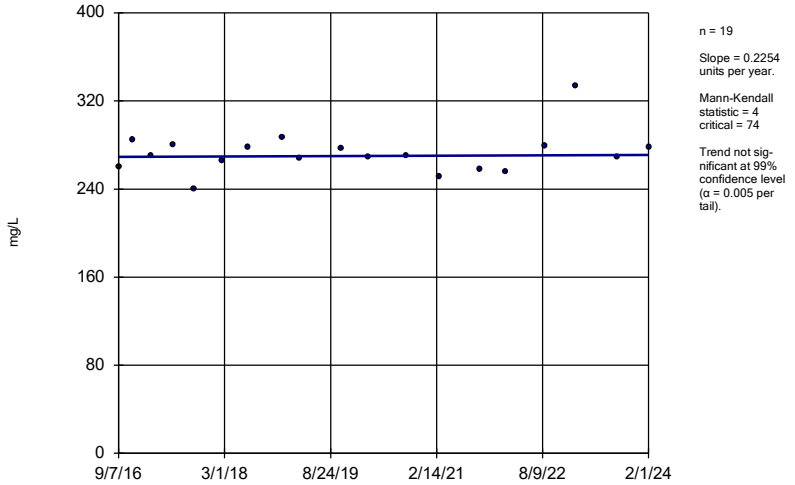
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/3/2024 2:23 PM View: Pond E - Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWC-35S



n = 19

Slope = 0.2254 units per year.

Mann-Kendall statistic = 4
critical = 74

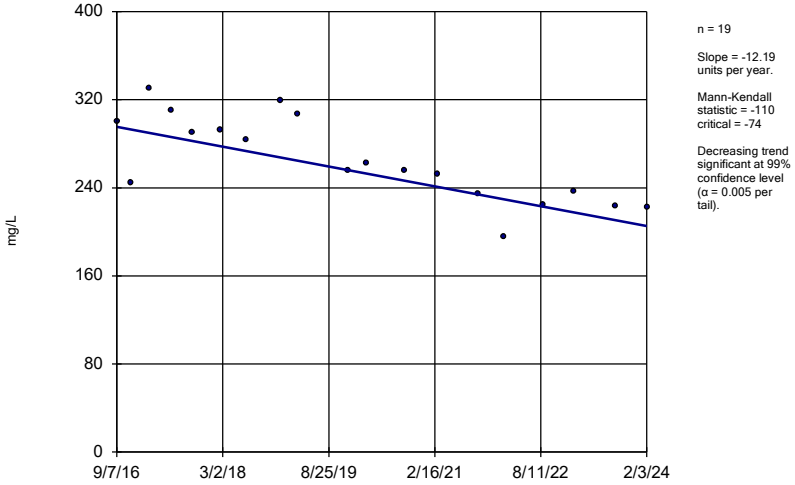
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/3/2024 2:23 PM View: Pond E - Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWC-36S



n = 19

Slope = -12.19 units per year.

Mann-Kendall statistic = -110
critical = -74

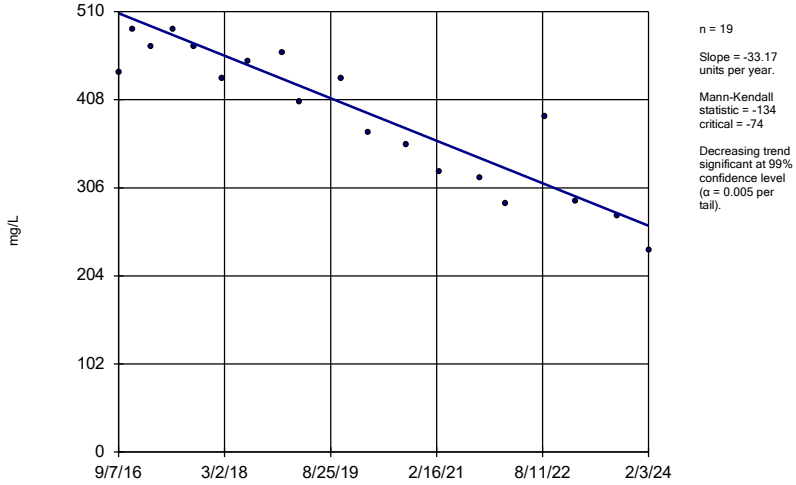
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/3/2024 2:23 PM View: Pond E - Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWC-38S



n = 19

Slope = -33.17 units per year.

Mann-Kendall statistic = -134
critical = -74

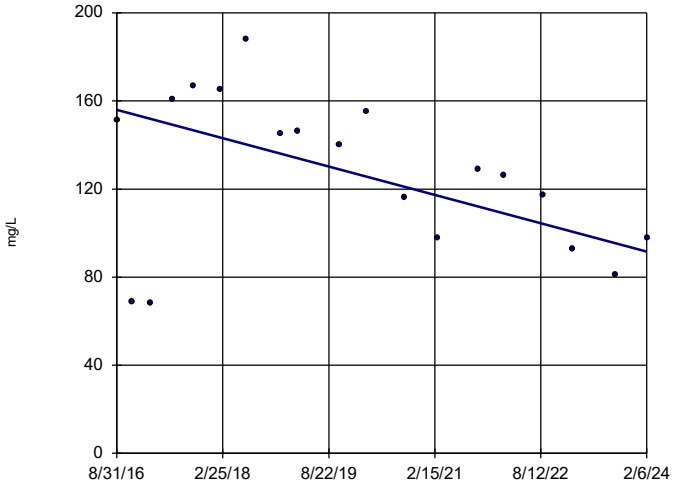
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/3/2024 2:23 PM View: Pond E - Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWA-2I (bg)



n = 19

Slope = -8.655 units per year.

Mann-Kendall statistic = -62
critical = -74

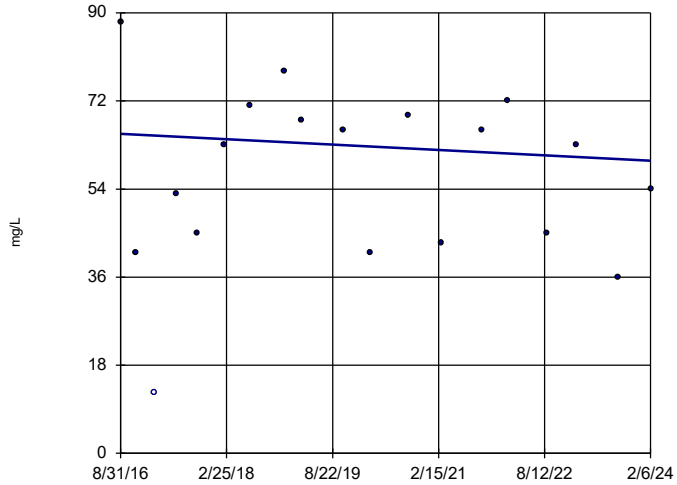
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 4/3/2024 2:23 PM View: Pond E - Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-2S (bg)



n = 19

Slope = -0.738 units per year.

Mann-Kendall statistic = -7
critical = -74

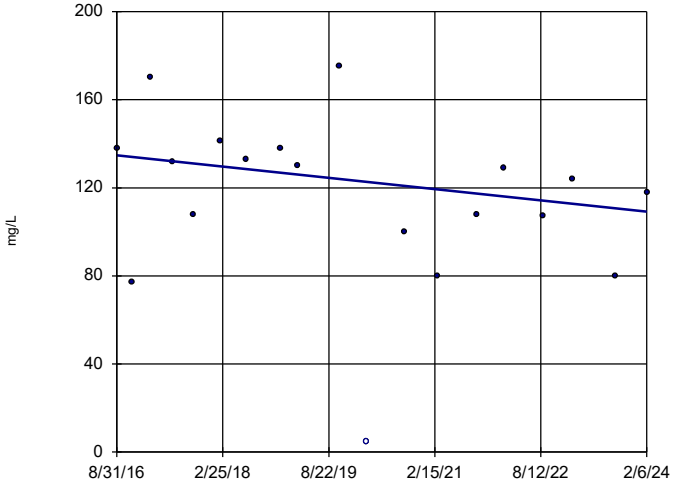
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 4/3/2024 2:23 PM View: Pond E - Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-5I (bg)



n = 19

Slope = -3.436 units per year.

Mann-Kendall statistic = -46
critical = -74

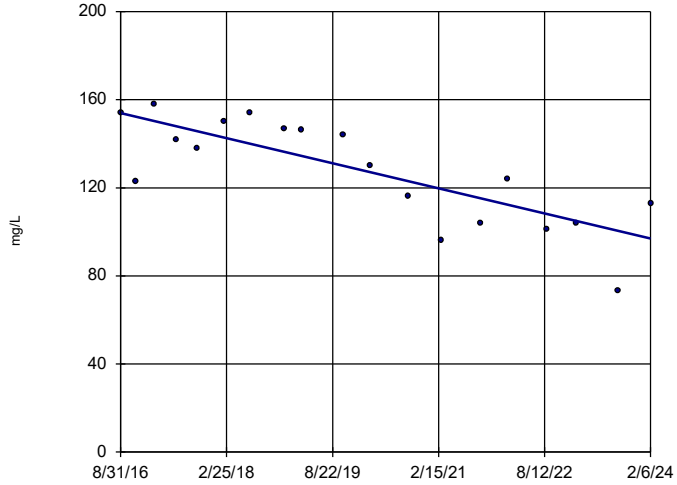
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 4/3/2024 2:23 PM View: Pond E - Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWA-5S (bg)



n = 19

Slope = -7.648 units per year.

Mann-Kendall statistic = -101
critical = -74

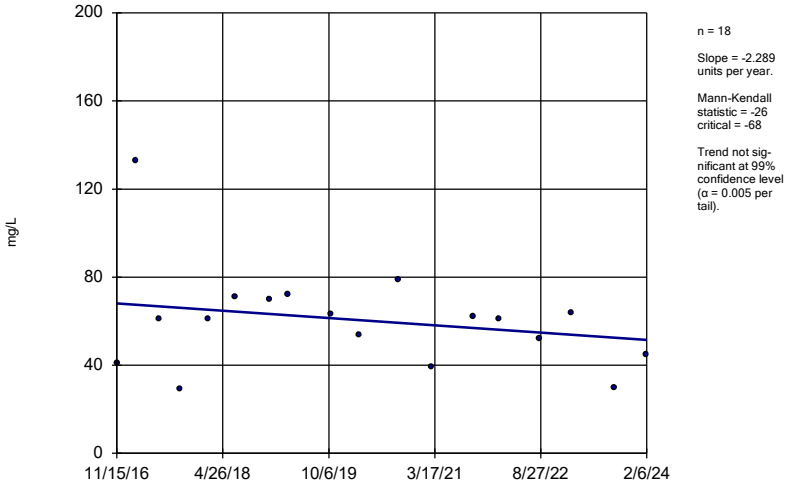
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 4/3/2024 2:23 PM View: Pond E - Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWA-6S (bg)



n = 18

Slope = -2.289 units per year.

Mann-Kendall statistic = -26
critical = -68

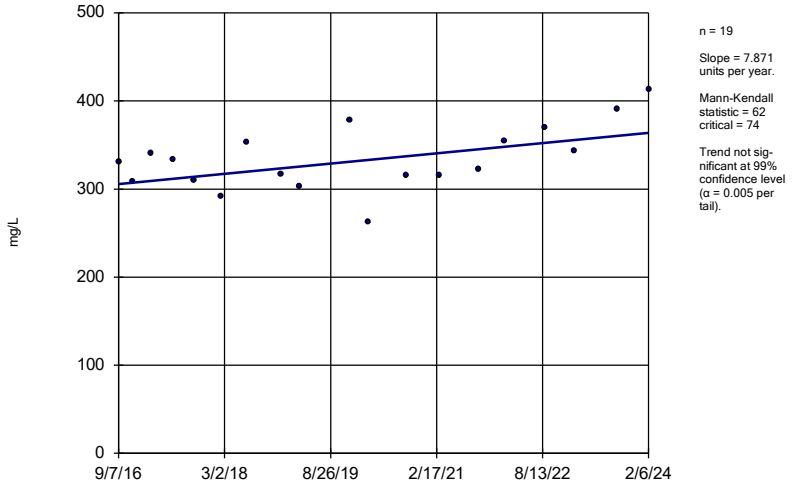
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 4/3/2024 2:24 PM View: Pond E - Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWC-17S



n = 19

Slope = 7.871 units per year.

Mann-Kendall statistic = 62
critical = 74

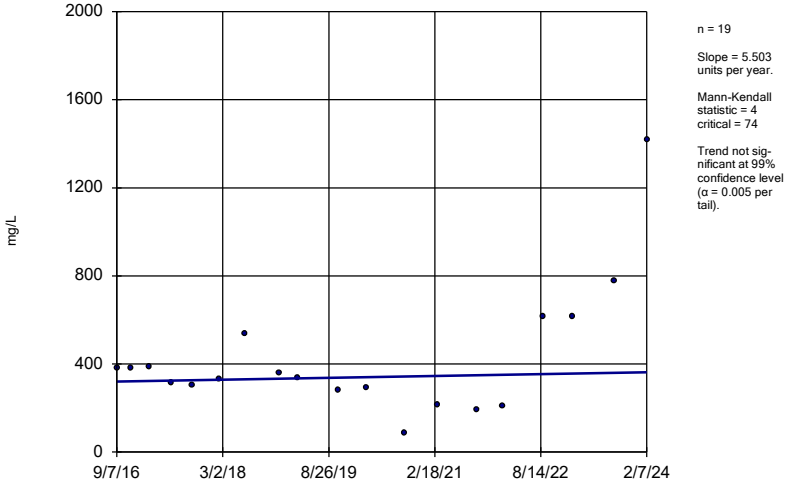
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 4/3/2024 2:24 PM View: Pond E - Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWC-33S



n = 19

Slope = 5.503 units per year.

Mann-Kendall statistic = 4
critical = 74

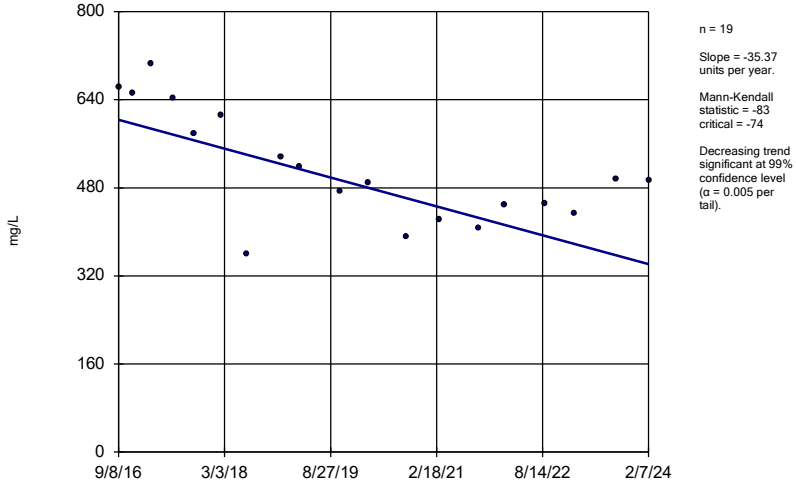
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 4/3/2024 2:24 PM View: Pond E - Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWC-34S



n = 19

Slope = -35.37 units per year.

Mann-Kendall statistic = -83
critical = -74

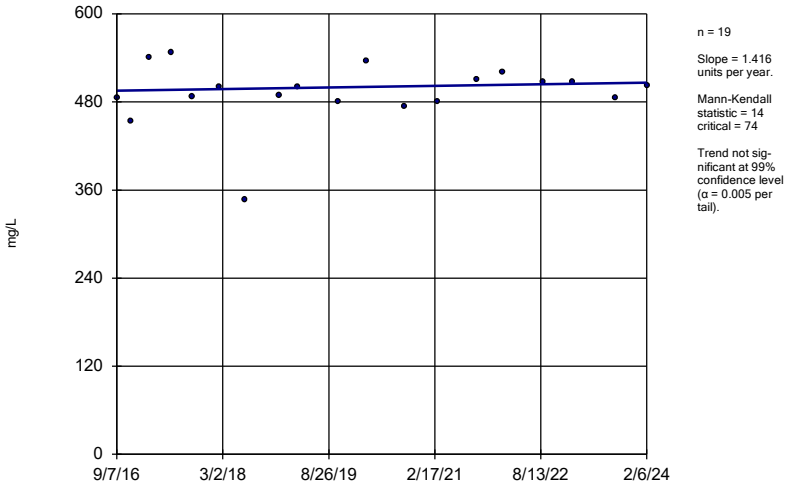
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 4/3/2024 2:24 PM View: Pond E - Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWC-35S



n = 19

Slope = 1.416 units per year.

Mann-Kendall statistic = 14
critical = 74

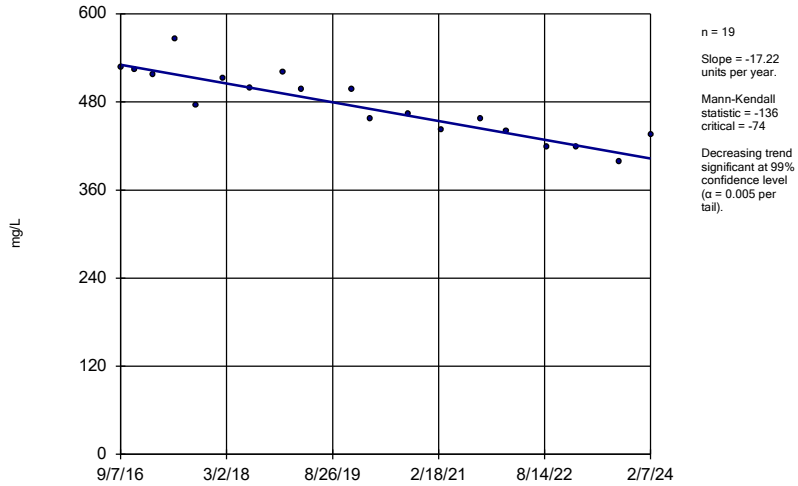
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 4/3/2024 2:24 PM View: Pond E - Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWC-36S



n = 19

Slope = -17.22 units per year.

Mann-Kendall statistic = -136
critical = -74

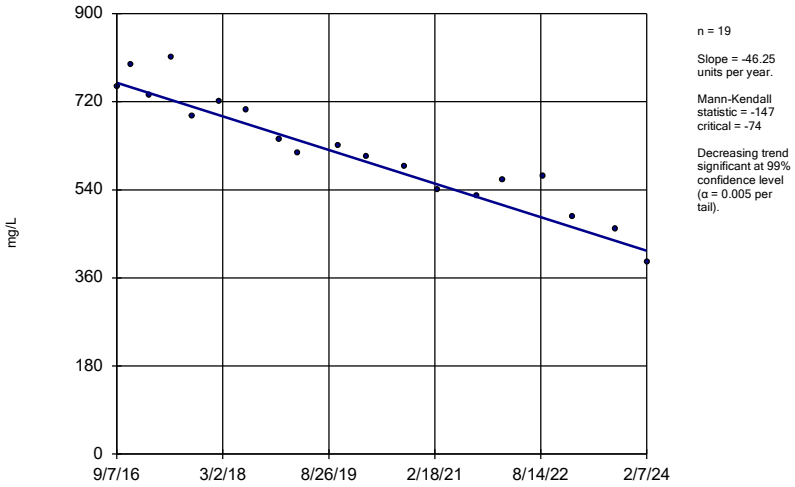
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 4/3/2024 2:24 PM View: Pond E - Trend Tests
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWC-38S



n = 19

Slope = -46.25 units per year.

Mann-Kendall statistic = -147
critical = -74

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 4/3/2024 2:24 PM View: Pond E - Trend Tests
Plant Branch Data: Plant Branch AP

FIGURE F.

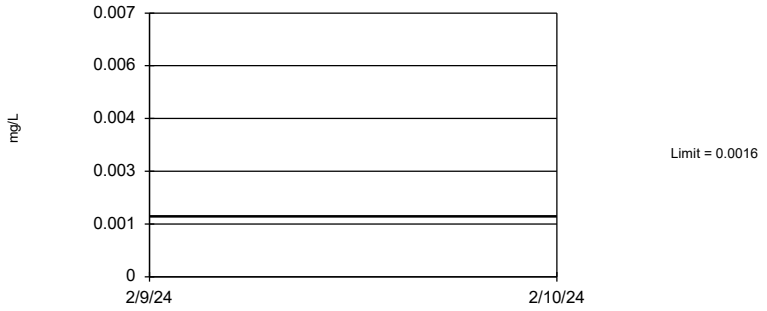
Upper Tolerance Limits Summary Table

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 4/5/2024, 2:30 PM

Constituent	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Antimony (mg/L)	0.0016	n/a	n/a	n/a	n/a	100	93	n/a	0.005921	NP Inter(NDs)
Arsenic (mg/L)	0.0027	n/a	n/a	n/a	n/a	100	79	n/a	0.005921	NP Inter(NDs)
Barium (mg/L)	0.063	n/a	n/a	n/a	n/a	100	0	n/a	0.005921	NP Inter(normality)
Beryllium (mg/L)	0.0002	n/a	n/a	n/a	n/a	100	100	n/a	0.005921	NP Inter(NDs)
Cadmium (mg/L)	0.0003	n/a	n/a	n/a	n/a	100	100	n/a	0.005921	NP Inter(NDs)
Chromium (mg/L)	0.016	n/a	n/a	n/a	n/a	100	15	n/a	0.005921	NP Inter(normality)
Cobalt (mg/L)	0.0034	n/a	n/a	n/a	n/a	98	43.88	n/a	0.00656	NP Inter(normality)
Combined Radium 226 + 228 (pCi/L)	1.929	n/a	n/a	n/a	n/a	100	0	sqrt(x)	0.05	Inter
Fluoride (mg/L)	0.289	n/a	n/a	n/a	n/a	105	51.43	n/a	0.004581	NP Inter(NDs)
Lead (mg/L)	0.0013	n/a	n/a	n/a	n/a	100	83	n/a	0.005921	NP Inter(NDs)
Lithium (mg/L)	0.089	n/a	n/a	n/a	n/a	100	47	n/a	0.005921	NP Inter(normality)
Mercury (mg/L)	0.00021	n/a	n/a	n/a	n/a	90	88.89	n/a	0.009888	NP Inter(NDs)
Molybdenum (mg/L)	0.008	n/a	n/a	n/a	n/a	100	67	n/a	0.005921	NP Inter(NDs)
Selenium (mg/L)	0.0015	n/a	n/a	n/a	n/a	100	100	n/a	0.005921	NP Inter(NDs)
Thallium (mg/L)	0.0006	n/a	n/a	n/a	n/a	100	100	n/a	0.005921	NP Inter(NDs)

Tolerance Limit

Interwell Non-parametric



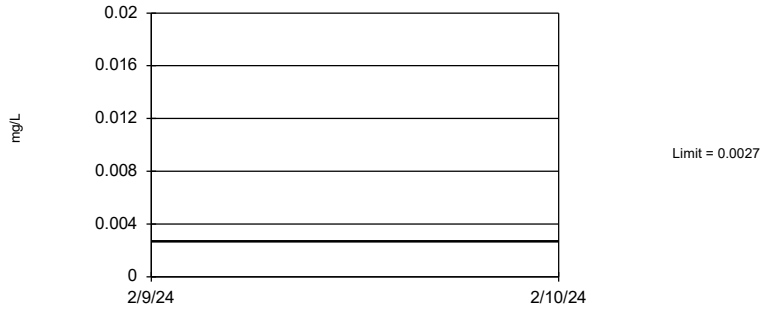
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 100 background values. 93% NDs. 95.51% coverage at alpha=0.01; 97.07% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.005921.

Constituent: Antimony Analysis Run 4/5/2024 2:29 PM View: Pond E - UTLs
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Tolerance Limit

Interwell Non-parametric



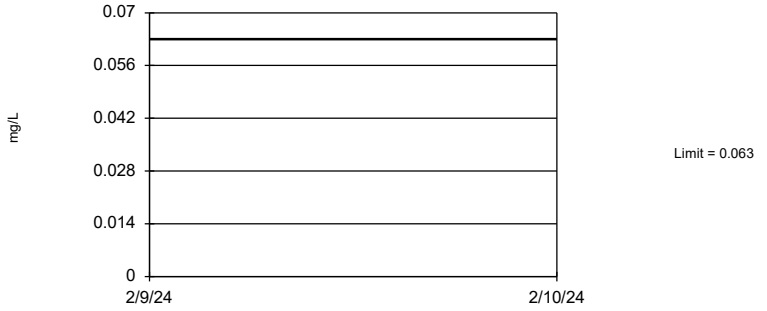
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 100 background values. 79% NDs. 95.51% coverage at alpha=0.01; 97.07% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.005921.

Constituent: Arsenic Analysis Run 4/5/2024 2:29 PM View: Pond E - UTLs
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Tolerance Limit

Interwell Non-parametric



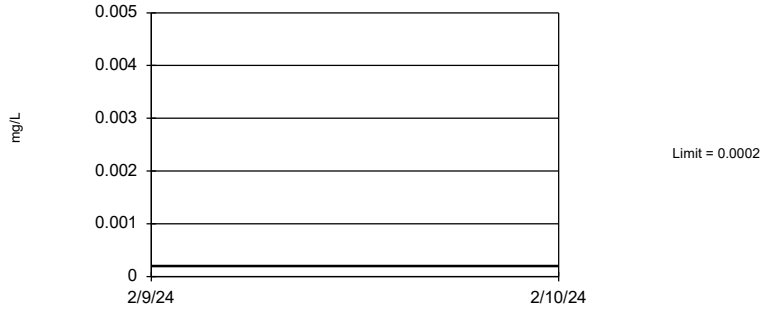
Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 100 background values. 95.51% coverage at alpha=0.01; 97.07% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.005921.

Constituent: Barium Analysis Run 4/5/2024 2:29 PM View: Pond E - UTLs
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Tolerance Limit

Interwell Non-parametric

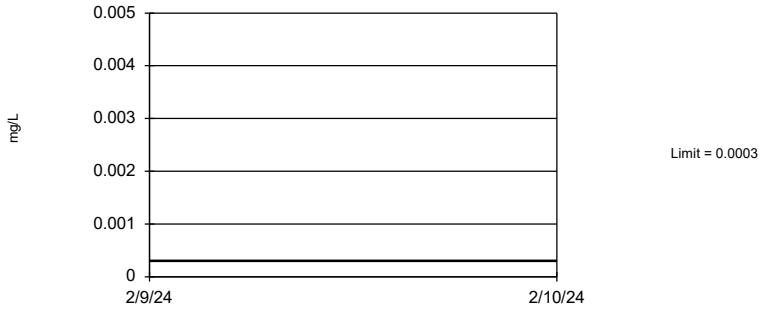


Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. All background values were censored; limit is most recent reporting limit. 95.51% coverage at alpha=0.01; 97.07% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.005921.

Constituent: Beryllium Analysis Run 4/5/2024 2:29 PM View: Pond E - UTLs
Plant Branch Client: Southern Company Data: Plant Branch AP

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. All background values were censored; limit is most recent reporting limit. 95.51% coverage at alpha=0.01; 97.07% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.005921.

Constituent: Cadmium Analysis Run 4/5/2024 2:29 PM View: Pond E - UTLs
Plant Branch Client: Southern Company Data: Plant Branch AP

Tolerance Limit

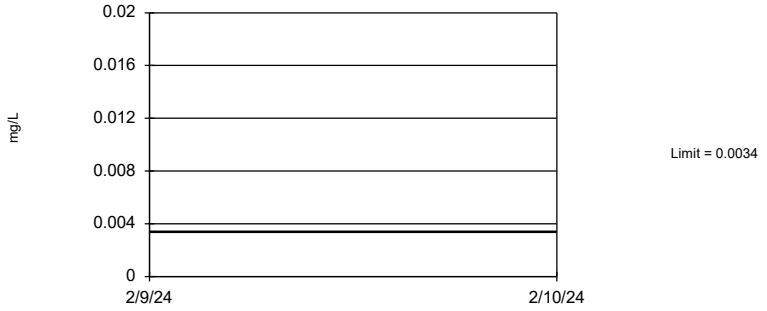
Interwell Non-parametric

Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 100 background values. 15% NDs. 95.51% coverage at alpha=0.01; 97.07% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.005921.

Constituent: Chromium Analysis Run 4/5/2024 2:29 PM View: Pond E - UTLs
Plant Branch Client: Southern Company Data: Plant Branch AP

Tolerance Limit

Interwell Non-parametric

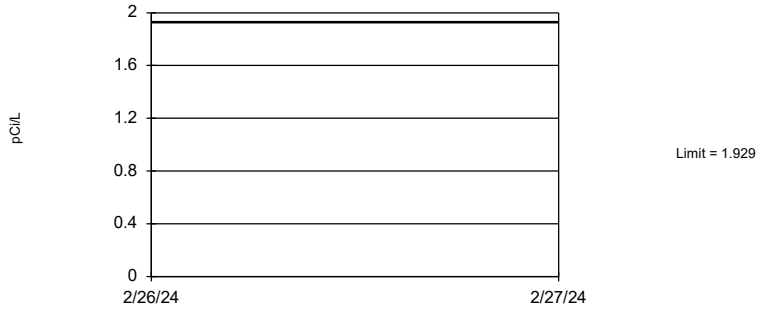


Non-parametric test used in lieu of parametric tolerance limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 98 background values. 43.88% NDs. 95.51% coverage at alpha=0.01; 97.07% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.00656.

Constituent: Cobalt Analysis Run 4/5/2024 2:29 PM View: Pond E - UTLs
Plant Branch Client: Southern Company Data: Plant Branch AP

Tolerance Limit

Interwell Parametric



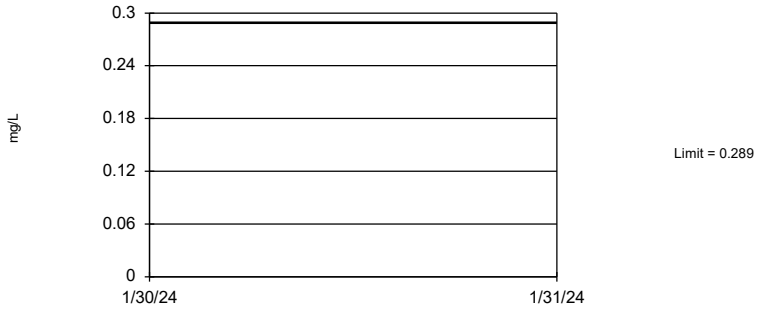
95% coverage. Background Data Summary (based on square root transformation): Mean=0.8174, Std. Dev.=0.2971, n=100. Normality test: Chi Squared @alpha = 0.01, calculated = 9.8, critical = 14.07. Report alpha = 0.05.

Constituent: Combined Radium 226 + 228 Analysis Run 4/5/2024 2:29 PM View: Pond E - UTLs
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 105 background values. 51.43% NDs. 95.9% coverage at alpha=0.01; 97.07% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.004581.

Constituent: Fluoride Analysis Run 4/5/2024 2:29 PM View: Pond E - UTLs
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Tolerance Limit

Interwell Non-parametric

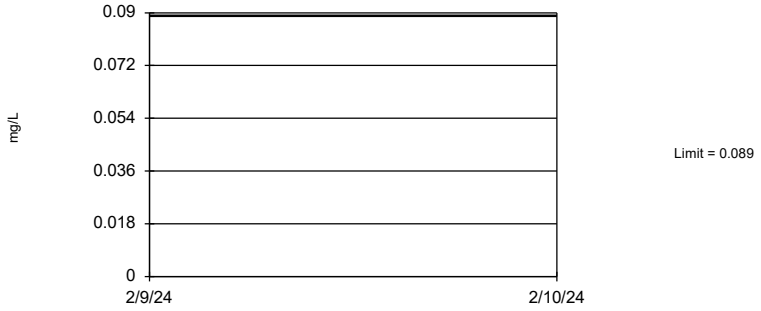
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 100 background values. 83% NDs. 95.51% coverage at alpha=0.01; 97.07% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.005921.

Constituent: Lead Analysis Run 4/5/2024 2:29 PM View: Pond E - UTLs
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Tolerance Limit

Interwell Non-parametric



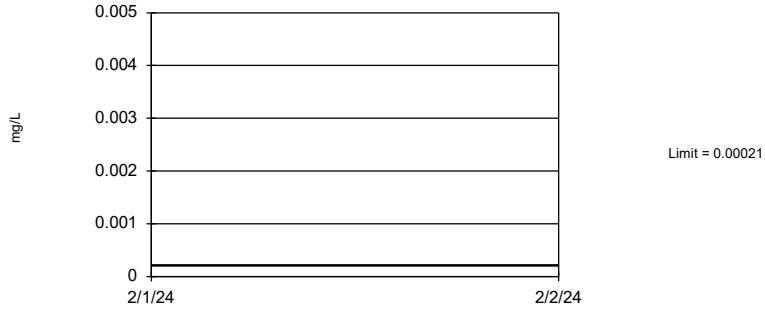
Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 100 background values. 47% NDs. 95.51% coverage at alpha=0.01; 97.07% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.005921.

Constituent: Lithium Analysis Run 4/5/2024 2:29 PM View: Pond E - UTLs
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 90 background values. 88.89% NDs. 95.12% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.009888.

Constituent: Mercury Analysis Run 4/5/2024 2:29 PM View: Pond E - UTLs
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Tolerance Limit

Interwell Non-parametric

Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 100 background values. 67% NDs. 95.51% coverage at alpha=0.01; 97.07% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.005921.

Constituent: Molybdenum Analysis Run 4/5/2024 2:29 PM View: Pond E - UTLs
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Tolerance Limit

Interwell Non-parametric

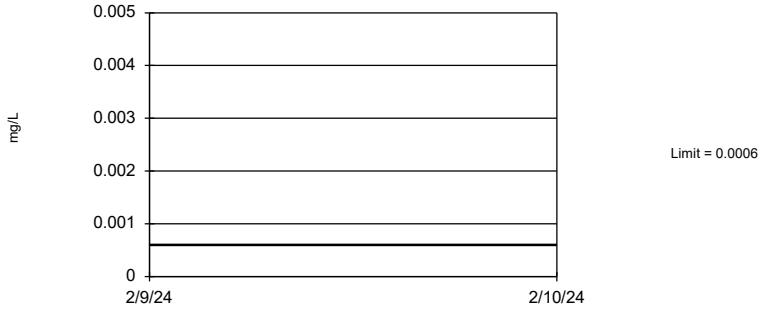
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. All background values were censored; limit is most recent reporting limit. 95.51% coverage at alpha=0.01; 97.07% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.005921.

Constituent: Selenium Analysis Run 4/5/2024 2:29 PM View: Pond E - UTLs
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. All background values were censored; limit is most recent reporting limit. 95.51% coverage at alpha=0.01; 97.07% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.005921.

Constituent: Thallium Analysis Run 4/5/2024 2:29 PM View: Pond E - UTLs
Plant Branch Client: Southern Company Data: Plant Branch AP

FIGURE G.

PLANT BRANCH POND E GWPS				
Constituent Name	**MCL**	**CCR-Rule Specified**	**Background Limit**	**GWPS**
Antimony, Total (mg/L)	0.006		0.0016	0.006
Arsenic, Total (mg/L)	0.01		0.0027	0.01
Barium, Total (mg/L)	2		0.063	2
Beryllium, Total (mg/L)	0.004		0.0002	0.004
Cadmium, Total (mg/L)	0.005		0.0003	0.005
Chromium, Total (mg/L)	0.1		0.016	0.1
Cobalt, Total (mg/L)	n/a	0.006	0.0034	0.006
Combined Radium, Total (pCi/L)	5		1.93	5
Fluoride, Total (mg/L)	4		0.29	4
Lead, Total (mg/L)	n/a	0.015	0.0013	0.015
Lithium, Total (mg/L)	n/a	0.04	0.089	0.089
Mercury, Total (mg/L)	0.002		0.00021	0.002
Molybdenum, Total (mg/L)	n/a	0.1	0.008	0.1
Selenium, Total (mg/L)	0.05		0.0015	0.05
Thallium, Total (mg/L)	0.002		0.0006	0.002

**Highlighted cells indicate Background is higher than MCLs*

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residuals*

**GWPS = Groundwater Protection Standard*

FIGURE H.

Confidence Intervals Summary Table - Significant Results

Plant Branch Data: Plant Branch AP Printed 5/31/2024, 11:59 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Beryllium (mg/L)	**BRGWC-38S**	**0.009124**	**0.007709**	**0.004**	**Yes**	**21**	**0.001283**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	**BRGWC-33S**	**0.05869**	**0.04027**	**0.006**	**Yes**	**21**	**0.01669**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	**BRGWC-38S**	**0.2436**	**0.1889**	**0.006**	**Yes**	**20**	**0.0482**	**0**	**None**	**No**	**0.01**	**Param.**

Confidence Intervals Summary Table - All Results

Plant Branch Data: Plant Branch AP Printed 5/31/2024, 11:59 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	BRGWC-17S	0.001	0.0009	0.006	No	20	0.00002236	95	None	No	0.01	NP (NDs)
Antimony (mg/L)	BRGWC-36S	0.0016	0.0006	0.006	No	20	0.0002467	80	None	No	0.01	NP (NDs)
Antimony (mg/L)	BRGWC-37S	0.001	0.0006	0.006	No	20	0.0001573	90	None	No	0.01	NP (NDs)
Antimony (mg/L)	BRGWC-38S	0.001	0.0009	0.006	No	20	0.00006959	90	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-17S	0.0033	0.00073	0.01	No	20	0.0006022	80	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-33S	0.00516	0.00262	0.01	No	21	0.001488	76.19	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-35S	0.002	0.0006	0.01	No	20	0.0005579	85	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-36S	0.002	0.001	0.01	No	20	0.0004786	85	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-37S	0.003	0.00078	0.01	No	20	0.0006056	80	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-38S	0.003284	0.001862	0.01	No	20	0.001195	20	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	PZ-13S	0.00388	0.002	0.01	No	6	0.0007675	83.33	Kaplan-Meier	No	0.0155	NP (NDs)
Arsenic (mg/L)	PZ-70I	0.00366	0.002	0.01	No	4	0.00083	75	Kaplan-Meier	No	0.0625	NP (NDs)
Barium (mg/L)	BRGWC-17S	0.04471	0.03972	2	No	20	0.004396	0	None	No	0.01	Param.
Barium (mg/L)	BRGWC-33S	0.0248	0.02	2	No	21	0.008619	0	None	No	0.01	NP (normality)
Barium (mg/L)	BRGWC-34S	0.03205	0.02484	2	No	20	0.006629	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	BRGWC-35S	0.05116	0.03474	2	No	20	0.01872	0	None	ln(x)	0.01	Param.
Barium (mg/L)	BRGWC-36S	0.04114	0.03025	2	No	20	0.01047	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	BRGWC-37S	0.02533	0.02352	2	No	20	0.001589	0	None	No	0.01	Param.
Barium (mg/L)	BRGWC-38S	0.0239	0.0141	2	No	20	0.009259	0	None	No	0.01	NP (normality)
Barium (mg/L)	PZ-13S	0.1169	0.04078	2	No	6	0.03393	0	None	ln(x)	0.01	Param.
Barium (mg/L)	PZ-53D	0.05829	0.04596	2	No	4	0.002716	0	None	No	0.01	Param.
Barium (mg/L)	PZ-70I	0.0563	0.007936	2	No	4	0.01155	0	None	sqrt(x)	0.01	Param.
Beryllium (mg/L)	BRGWC-33S	0.002059	0.001631	0.004	No	21	0.0003882	4.762	None	No	0.01	Param.
Beryllium (mg/L)	BRGWC-34S	0.000202	0.00013	0.004	No	20	0.0001615	25	None	No	0.01	NP (normality)
Beryllium (mg/L)	BRGWC-35S	0.0001436	0.00009982	0.004	No	20	0.0000403	20	Kaplan-Meier	No	0.01	Param.
Beryllium (mg/L)	BRGWC-36S	0.0002	0.000087	0.004	No	21	0.00005385	38.1	None	No	0.01	NP (normality)
Beryllium (mg/L)	**BRGWC-38S**	**0.009124**	**0.007709**	**0.004**	**Yes**	**21**	**0.001283**	**0**	**None**	**No**	**0.01**	**Param.**
Beryllium (mg/L)	PZ-13S	0.000496	0.0002707	0.004	No	6	0.00008198	0	None	No	0.01	Param.
Beryllium (mg/L)	PZ-70I	0.0004184	0.0001696	0.004	No	4	0.0001167	25	Kaplan-Meier	No	0.01	Param.
Cadmium (mg/L)	BRGWC-33S	0.0004927	0.0003374	0.005	No	21	0.0001408	4.762	None	No	0.01	Param.
Cadmium (mg/L)	BRGWC-34S	0.0004049	0.0001873	0.005	No	20	0.0001958	25	Kaplan-Meier	sqrt(x)	0.01	Param.
Cadmium (mg/L)	BRGWC-36S	0.0003	0.0001	0.005	No	21	0.00006325	90.48	Kaplan-Meier	No	0.01	NP (NDs)
Cadmium (mg/L)	BRGWC-38S	0.0005838	0.0004683	0.005	No	20	0.0001017	5	None	No	0.01	Param.
Cadmium (mg/L)	PZ-13S	0.0003	0.00011	0.005	No	6	0.00007757	83.33	None	No	0.0155	NP (NDs)
Chromium (mg/L)	BRGWC-17S	0.01244	0.01008	0.1	No	20	0.002197	0	None	sqrt(x)	0.01	Param.
Chromium (mg/L)	BRGWC-33S	0.003	0.00049	0.1	No	21	0.0005477	95.24	None	No	0.01	NP (NDs)
Chromium (mg/L)	BRGWC-35S	0.006498	0.00465	0.1	No	20	0.001627	5	None	No	0.01	Param.
Chromium (mg/L)	BRGWC-36S	0.00809	0.007042	0.1	No	20	0.000922	0	None	No	0.01	Param.
Chromium (mg/L)	BRGWC-37S	0.003	0.0014	0.1	No	20	0.0007519	35	None	No	0.01	NP (normality)
Chromium (mg/L)	BRGWC-38S	0.004047	0.003383	0.1	No	20	0.000701	0	None	x^2	0.01	Param.
Chromium (mg/L)	PZ-13S	0.02349	0.009048	0.1	No	6	0.005255	0	None	No	0.01	Param.
Cobalt (mg/L)	**BRGWC-33S**	**0.05869**	**0.04027**	**0.006**	**Yes**	**21**	**0.01669**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	BRGWC-34S	0.004697	0.003453	0.006	No	20	0.001293	5	None	ln(x)	0.01	Param.
Cobalt (mg/L)	BRGWC-35S	0.0004	0.0003	0.006	No	20	0.0004844	75	None	No	0.01	NP (NDs)
Cobalt (mg/L)	**BRGWC-38S**	**0.2436**	**0.1889**	**0.006**	**Yes**	**20**	**0.0482**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	PZ-13S	0.00037	0.0003	0.006	No	6	0.00002858	83.33	None	No	0.0155	NP (NDs)
Cobalt (mg/L)	PZ-52D	0.003409	0	0.006	No	4	0.0009138	0	None	No	0.01	Param.
Cobalt (mg/L)	PZ-70I	0.0056	0.000682	0.006	No	4	0.002413	0	None	No	0.0625	NP (normality)
Combined Radium 226 + 228 (pCi/L)	BRGWC-17S	0.9328	0.4009	5	No	20	0.4684	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-33S	1.595	0.7056	5	No	20	0.7833	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-34S	1.278	0.8059	5	No	20	0.4156	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-35S	1.577	0.5717	5	No	20	1.031	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-36S	1.808	0.7645	5	No	20	1.144	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-37S	1.015	0.4368	5	No	20	0.5689	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-38S	3.733	2.155	5	No	20	1.527	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-13S	3.665	0.3456	5	No	6	1.539	16.67	Kaplan-Meier	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-53D	4.727	1.463	5	No	4	0.7186	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-70I	4.35	1.55	5	No	4	1.358	0	None	No	0.0625	NP (normality)
Fluoride (mg/L)	BRGWC-17S	0.1933	0.09505	4	No	21	0.1063	4.762	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	BRGWC-33S	0.2158	0.1151	4	No	22	0.104	0	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	BRGWC-34S	0.1457	0.08142	4	No	21	0.07664	4.762	None	x^(1/3)	0.01	Param.
Fluoride (mg/L)	BRGWC-35S	0.1381	0.06358	4	No	21	0.09838	14.29	None	ln(x)	0.01	Param.
Fluoride (mg/L)	BRGWC-36S	0.1584	0.05325	4	No	21	0.1076	42.86	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride (mg/L)	BRGWC-37S	0.105	0.055	4	No	21	0.02827	38.1	None	No	0.01	NP (normality)
Fluoride (mg/L)	BRGWC-38S	0.9105	0.7015	4	No	21	0.2027	0	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	PZ-13S	0.191	0.03553	4	No	6	0.05523	50	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride (mg/L)	PZ-53D	0.4353	0.03119	4	No	4	0.089	0	None	No	0.01	Param.
Fluoride (mg/L)	PZ-52D	1.94	0.14	4	No	4	0.8918	0	None	No	0.0625	NP (normality)

Confidence Intervals Summary Table - All Results

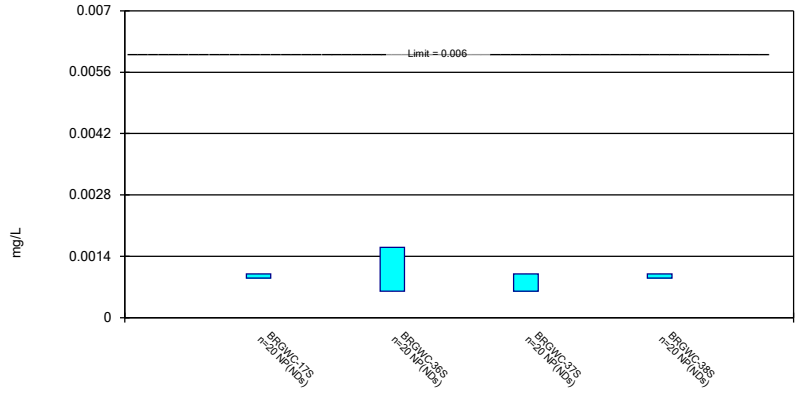
Plant Branch Data: Plant Branch AP Printed 5/31/2024, 11:59 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride (mg/L)	PZ-70I	2.101	0.0002698	4	No	4	0.6276	25	Kaplan-Meier	x^(1/3)	0.01	Param.
Lead (mg/L)	BRGWC-17S	0.0005	0.0001	0.015	No	20	0.0001304	90	None	No	0.01	NP (NDs)
Lead (mg/L)	BRGWC-33S	0.0005	0.000087	0.015	No	21	0.000203	42.86	None	No	0.01	NP (normality)
Lead (mg/L)	BRGWC-34S	0.0005	0.0003	0.015	No	20	0.0001292	85	None	No	0.01	NP (NDs)
Lead (mg/L)	BRGWC-35S	0.0005	0.0002	0.015	No	20	0.000153	80	None	No	0.01	NP (NDs)
Lead (mg/L)	BRGWC-36S	0.0005	0.000047	0.015	No	20	0.0001013	95	None	No	0.01	NP (NDs)
Lead (mg/L)	BRGWC-37S	0.0005	0.0001	0.015	No	20	0.0001231	90	None	No	0.01	NP (NDs)
Lead (mg/L)	BRGWC-38S	0.0005	0.00035	0.015	No	20	0.00007156	30	None	No	0.01	NP (normality)
Lead (mg/L)	PZ-13S	0.0005	0.00035	0.015	No	6	0.00006124	83.33	None	No	0.0155	NP (NDs)
Lithium (mg/L)	BRGWC-17S	0.003	0.001	0.089	No	20	0.00099	65	None	No	0.01	NP (NDs)
Lithium (mg/L)	BRGWC-33S	0.01047	0.009341	0.089	No	21	0.00102	0	None	No	0.01	Param.
Lithium (mg/L)	BRGWC-34S	0.003	0.0009	0.089	No	20	0.001004	70	None	No	0.01	NP (NDs)
Lithium (mg/L)	BRGWC-35S	0.0023	0.0021	0.089	No	20	0.0003611	20	None	No	0.01	NP (normality)
Lithium (mg/L)	BRGWC-36S	0.002372	0.002231	0.089	No	20	0.0002713	25	Kaplan-Meier	sqrt(x)	0.01	Param.
Lithium (mg/L)	BRGWC-38S	0.02245	0.02037	0.089	No	20	0.001828	0	None	No	0.01	Param.
Lithium (mg/L)	PZ-13S	0.003	0.001	0.089	No	6	0.0008803	66.67	None	No	0.0155	NP (NDs)
Lithium (mg/L)	PZ-53D	0.02205	0.0152	0.089	No	4	0.001509	0	None	No	0.01	Param.
Lithium (mg/L)	PZ-70I	0.00615	0.00381	0.089	No	4	0.001157	0	None	No	0.0625	NP (normality)
Mercury (mg/L)	BRGWC-17S	0.000084	0.00006	0.002	No	18	0.000008826	83.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	BRGWC-33S	0.00007	0.00004	0.002	No	19	0.00001395	84.21	None	No	0.01	NP (NDs)
Mercury (mg/L)	BRGWC-34S	0.00007	0.00004	0.002	No	18	0.00002394	77.78	None	No	0.01	NP (NDs)
Mercury (mg/L)	BRGWC-35S	0.00007	0.000067	0.002	No	18	0.00001743	83.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	BRGWC-36S	0.00007	0.000067	0.002	No	18	0.00001631	83.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	BRGWC-37S	0.00011	0.00006	0.002	No	18	0.00001965	83.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	BRGWC-38S	0.0001477	0.00009243	0.002	No	18	0.00005049	22.22	Kaplan-Meier	No	0.01	Param.
Mercury (mg/L)	PZ-70I	0.00409	0	0.002	No	4	0.001431	50	Kaplan-Meier	No	0.01	Param.
Molybdenum (mg/L)	PZ-53D	0.00289	0.001705	0.1	No	4	0.0002609	0	None	No	0.01	Param.
Molybdenum (mg/L)	PZ-70I	0.00142	0.0002	0.1	No	4	0.00061	75	None	No	0.0625	NP (NDs)
Selenium (mg/L)	BRGWC-17S	0.002544	0.001848	0.05	No	20	0.001256	20	Kaplan-Meier	sqrt(x)	0.01	Param.
Selenium (mg/L)	BRGWC-33S	0.00572	0.0032	0.05	No	21	0.002939	42.86	None	No	0.01	NP (normality)
Selenium (mg/L)	BRGWC-36S	0.0046	0.002707	0.05	No	20	0.00183	0	None	sqrt(x)	0.01	Param.
Selenium (mg/L)	BRGWC-38S	0.03921	0.02971	0.05	No	20	0.008372	0	None	No	0.01	Param.
Selenium (mg/L)	PZ-13S	0.003013	0.001373	0.05	No	6	0.00125	16.67	Kaplan-Meier	No	0.01	Param.
Selenium (mg/L)	PZ-70I	0.01072	0.005102	0.05	No	4	0.001237	0	None	No	0.01	Param.
Thallium (mg/L)	BRGWC-17S	0.0006	0.000066	0.002	No	20	0.0001194	95	None	No	0.01	NP (NDs)
Thallium (mg/L)	BRGWC-33S	0.0006	0.00019	0.002	No	21	0.0001882	28.57	None	No	0.01	NP (normality)
Thallium (mg/L)	BRGWC-38S	0.0006	0.0002	0.002	No	20	0.0001864	40	None	No	0.01	NP (normality)

Sanitas™ v.10.0.16 . UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

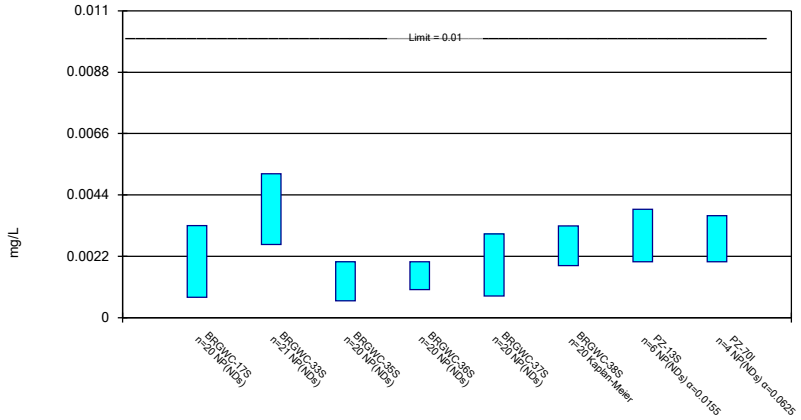


Constituent: Antimony Analysis Run 5/31/2024 11:56 AM View: Pond E - Confidence Intervals
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

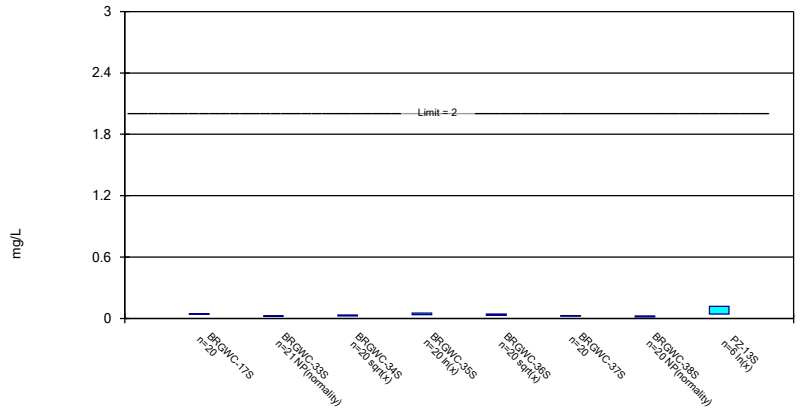


Constituent: Arsenic Analysis Run 5/31/2024 11:56 AM View: Pond E - Confidence Intervals
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

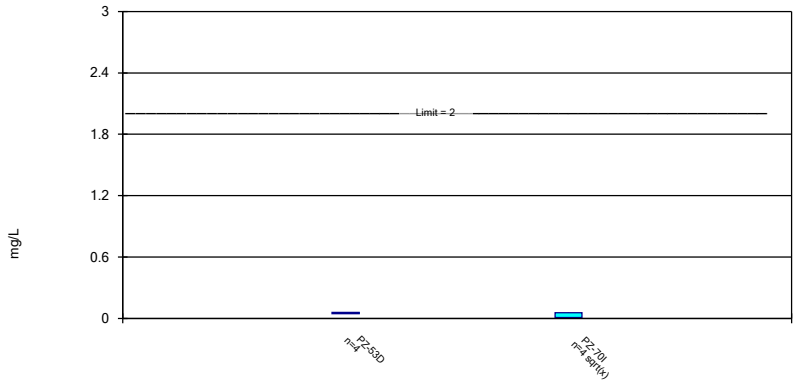


Constituent: Barium Analysis Run 5/31/2024 11:56 AM View: Pond E - Confidence Intervals
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

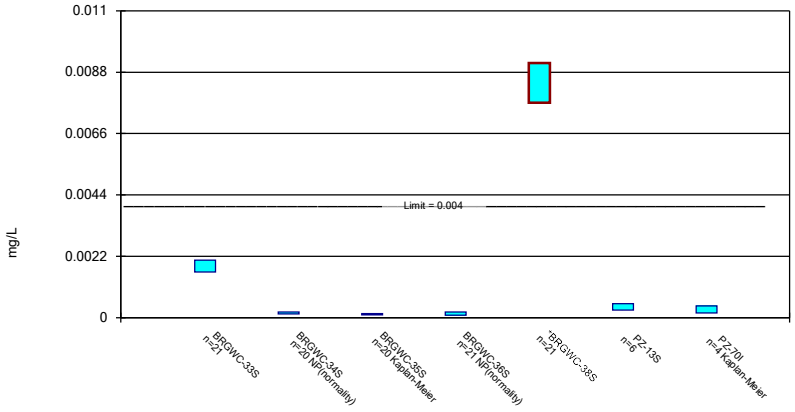


Constituent: Barium Analysis Run 5/31/2024 11:56 AM View: Pond E - Confidence Intervals
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

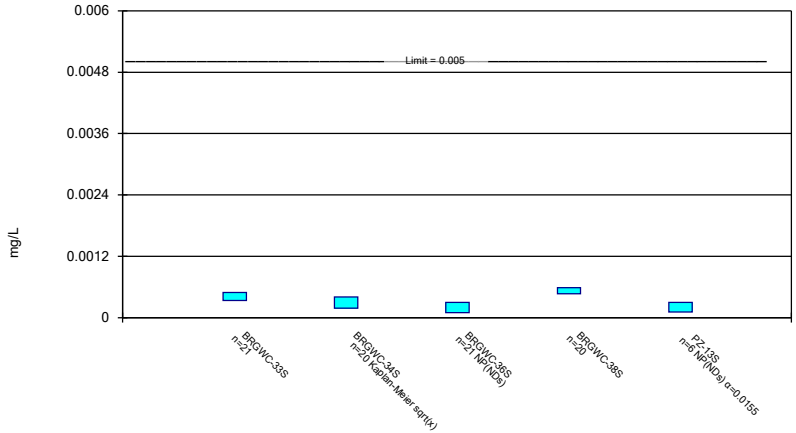


Constituent: Beryllium Analysis Run 5/31/2024 11:56 AM View: Pond E - Confidence Intervals
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

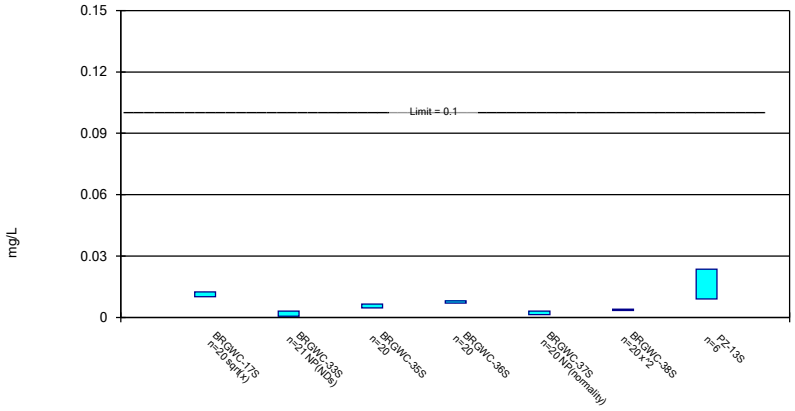


Constituent: Cadmium Analysis Run 5/31/2024 11:56 AM View: Pond E - Confidence Intervals
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

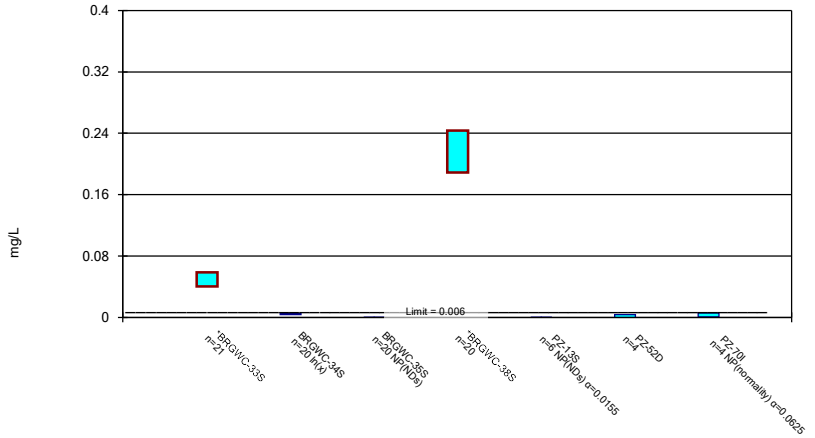


Constituent: Chromium Analysis Run 5/31/2024 11:56 AM View: Pond E - Confidence Intervals
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

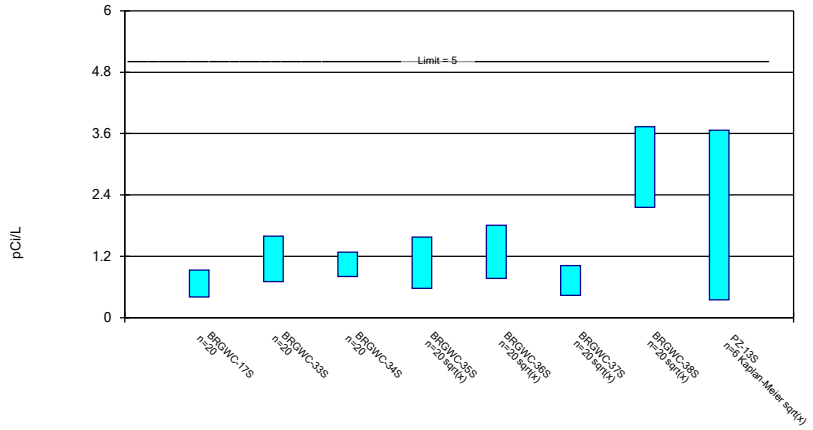


Constituent: Cobalt Analysis Run 5/31/2024 11:56 AM View: Pond E - Confidence Intervals
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

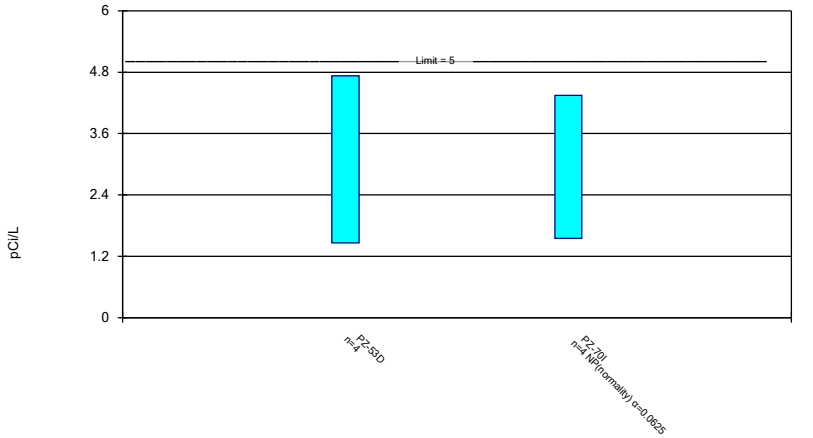


Constituent: Combined Radium 226 + 228 Analysis Run 5/31/2024 11:56 AM View: Pond E - Confidence I
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

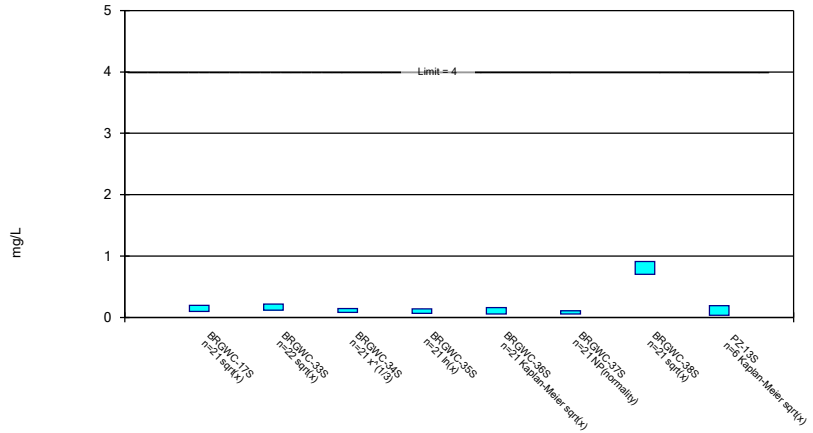


Constituent: Combined Radium 226 + 228 Analysis Run 5/31/2024 11:56 AM View: Pond E - Confidence I
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

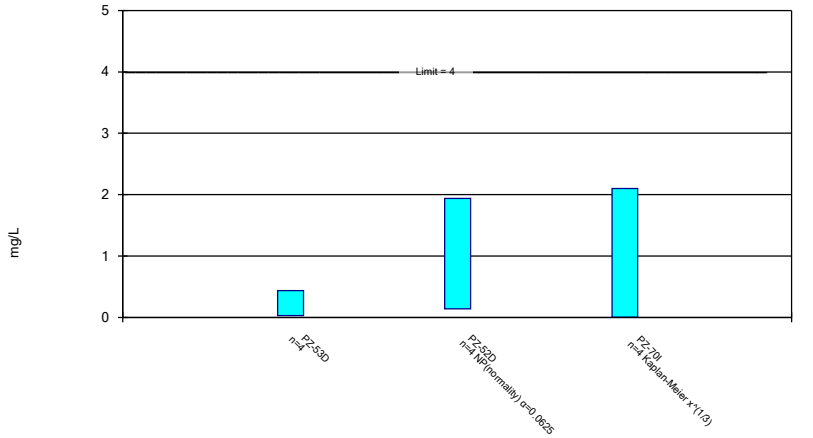


Constituent: Fluoride Analysis Run 5/31/2024 11:56 AM View: Pond E - Confidence Intervals
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

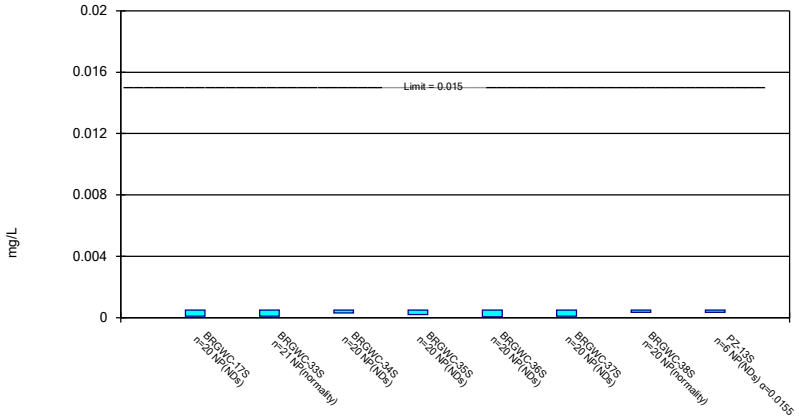


Constituent: Fluoride Analysis Run 5/31/2024 11:56 AM View: Pond E - Confidence Intervals
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.

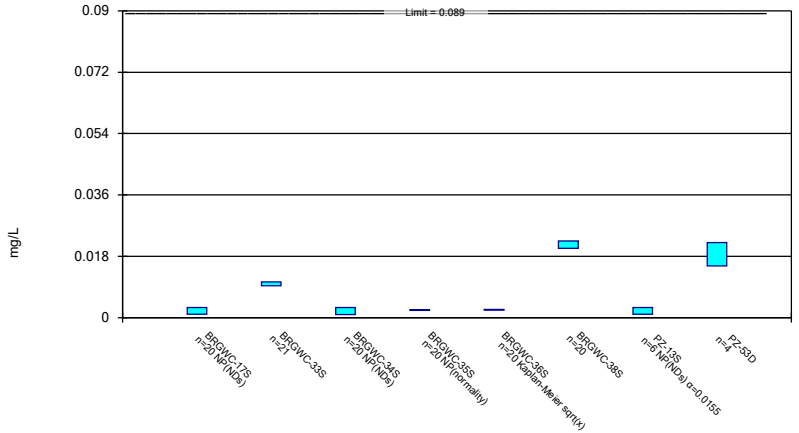


Constituent: Lead Analysis Run 5/31/2024 11:56 AM View: Pond E - Confidence Intervals
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

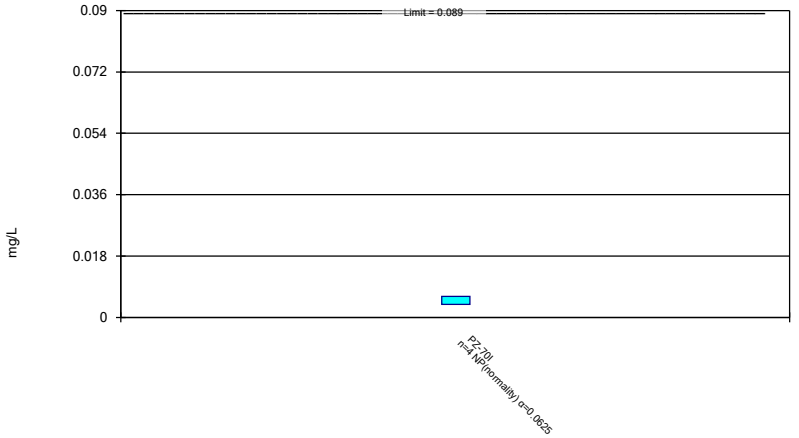


Constituent: Lithium Analysis Run 5/31/2024 11:56 AM View: Pond E - Confidence Intervals
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.

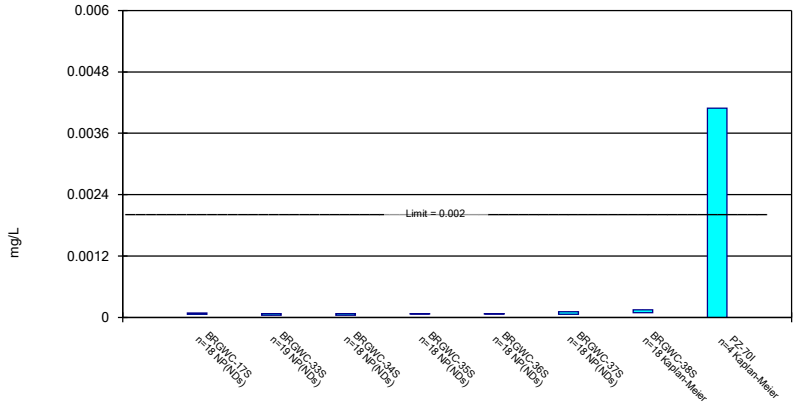


Constituent: Lithium Analysis Run 5/31/2024 11:57 AM View: Pond E - Confidence Intervals
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

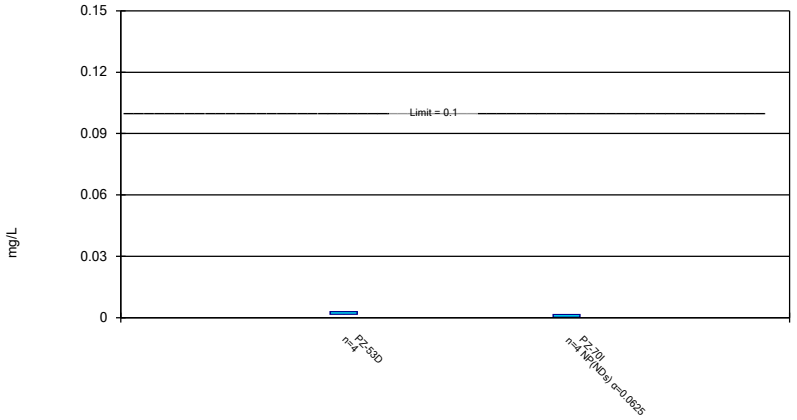


Constituent: Mercury Analysis Run 5/31/2024 11:57 AM View: Pond E - Confidence Intervals
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

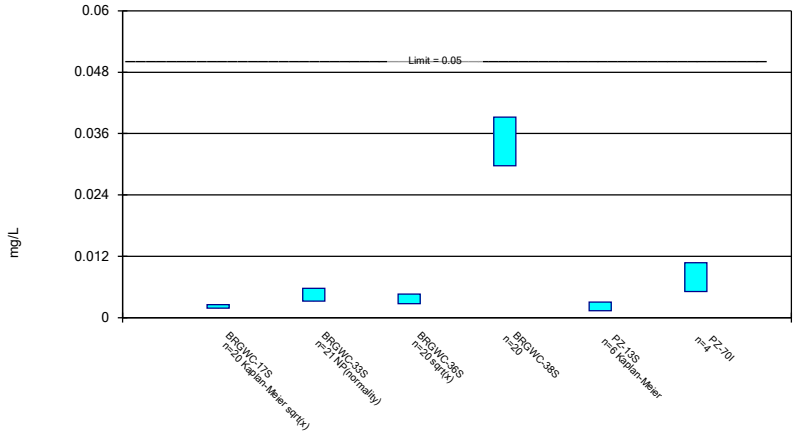


Constituent: Molybdenum Analysis Run 5/31/2024 11:57 AM View: Pond E - Confidence Intervals
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

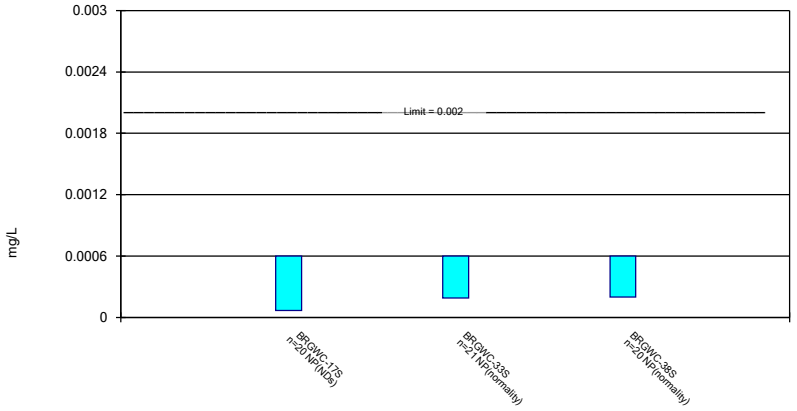


Constituent: Selenium Analysis Run 5/31/2024 11:57 AM View: Pond E - Confidence Intervals
Plant Branch Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Thallium Analysis Run 5/31/2024 11:57 AM View: Pond E - Confidence Intervals
Plant Branch Data: Plant Branch AP

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 5/31/2024 11:59 AM View: Pond E - Confidence Intervals

Plant Branch Data: Plant Branch AP

	BRGWC-17S	BRGWC-36S	BRGWC-37S	BRGWC-38S
9/7/2016	<0.001	<0.001		<0.001
11/17/2016	<0.001			
11/18/2016		0.0016 (J)		
11/21/2016				0.0009 (J)
2/22/2017	<0.001			
2/23/2017		<0.001	<0.001	<0.001
4/17/2017			0.0004 (J)	
5/15/2017			<0.001	
6/15/2017	0.0009 (J)	0.0006 (J)	0.0006 (J)	0.0007 (J)
9/28/2017	<0.001	<0.001	<0.001	<0.001
2/15/2018	<0.001	<0.001	<0.001	<0.001
6/27/2018	<0.001			
6/28/2018		<0.001	<0.001	<0.001
12/19/2018	<0.001	<0.001	<0.001	
12/20/2018				<0.001
8/28/2019	<0.001	0.00035 (J)	<0.001	
8/29/2019				<0.001
10/16/2019			<0.001	<0.001
12/3/2019	<0.001	0.00049 (J)		
3/3/2020	<0.001			
3/5/2020		<0.001	<0.001	<0.001
8/19/2020	<0.001	<0.001	<0.001	<0.001
9/16/2020	<0.001	<0.001	<0.001	
9/17/2020				<0.001
3/3/2021		<0.001	<0.001	
3/4/2021	<0.001			<0.001
9/22/2021	<0.001	<0.001		
9/23/2021			<0.001	<0.001
2/1/2022	<0.001	<0.001		<0.001
2/2/2022			<0.001	
8/23/2022			<0.001	<0.001
8/24/2022	<0.001	<0.001		
1/24/2023	<0.001			
1/25/2023		<0.001	<0.001	<0.001
8/31/2023			<0.001	
9/6/2023	<0.001	<0.001		<0.001
2/10/2024	<0.001			
2/13/2024		<0.001	<0.001	<0.001
Mean	0.000995	0.000952	0.00095	0.00098
Std. Dev.	2.236E-05	0.0002467	0.0001573	6.959E-05
Upper Lim.	0.001	0.0016	0.001	0.001
Lower Lim.	0.0009	0.0006	0.0006	0.0009

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 5/31/2024 11:59 AM View: Pond E - Confidence Intervals

Plant Branch Data: Plant Branch AP

	BRGWC-17S	BRGWC-33S	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-13S	PZ-70I
9/7/2016	<0.002	<0.005	<0.002	<0.002		0.0026 (J)		
11/17/2016	<0.002	<0.005	<0.002					
11/18/2016				<0.002				
11/21/2016						0.0034 (J)		
2/22/2017	<0.002	<0.005	<0.002					
2/23/2017				<0.002	<0.002	0.003 (J)		
4/17/2017					<0.002			
5/15/2017					<0.002			
6/14/2017		0.0006 (J)						
6/15/2017	0.0006 (J)		0.0006 (J)	0.0007 (J)	<0.002	0.005 (J)		
9/27/2017		<0.005						
9/28/2017	<0.002		<0.002	<0.002	<0.002	0.0046 (J)		
2/15/2018	<0.002	<0.005	<0.002	<0.002	<0.002	0.0016 (J)		
6/27/2018	<0.002	<0.005	<0.002					
6/28/2018				<0.002 (X)	<0.002 (X)	<0.002 (X)		
12/18/2018		<0.005 (X)						
12/19/2018	<0.002		<0.002	<0.002	<0.002			
12/20/2018						0.00098 (J)		
1/15/2019							<0.002	
8/27/2019		<0.005						
8/28/2019	0.00073 (J)	<0.005	0.00044 (J)	0.00045 (J)	0.00038 (J)			
8/29/2019						0.0013 (J)		
10/16/2019		0.00056 (J)	0.0004 (J)		0.00078 (J)	0.0024 (J)		
10/22/2019							<0.002	
12/3/2019	0.00058 (J)			0.001 (J)				
3/3/2020	0.0033 (J)							
3/5/2020		<0.005	<0.002	<0.002	0.00044 (J)	0.0011 (J)		
8/19/2020	<0.002	<0.005	<0.002	<0.002	<0.002	0.0021 (J)		
9/16/2020	<0.002	<0.005	<0.002	<0.002	<0.002			
9/17/2020						0.0015 (J)		
3/3/2021		<0.005		<0.002	<0.002			
3/4/2021	<0.002		<0.002			0.0029 (J)		
9/22/2021	<0.002	<0.005		<0.002				
9/23/2021			<0.002		<0.002	0.002 (J)		
2/1/2022	<0.002	<0.005	<0.002	<0.002		<0.002		
2/2/2022					<0.002			
8/23/2022		0.00262 (J)			<0.002	0.00337 (J)	<0.002	
8/24/2022	<0.002		<0.002	<0.002				
9/1/2022								<0.002
1/24/2023	<0.002	0.00201 (J)	<0.002					
1/25/2023				<0.002	0.003 (J)	0.00486 (J)		
1/26/2023							0.00388 (J)	0.00366 (J)
8/31/2023		<0.005			<0.002		<0.002	
9/6/2023	<0.002		<0.002	<0.002		<0.002		<0.002
2/10/2024	<0.002		<0.002				<0.002	
2/13/2024		0.00516		<0.002	<0.002	<0.002		<0.002
Mean	0.001861	0.004331	0.001772	0.001808	0.00183	0.002536	0.002313	0.002415
Std. Dev.	0.0006022	0.001488	0.0005579	0.0004786	0.0006056	0.001195	0.0007675	0.00083
Upper Lim.	0.0033	0.00516	0.002	0.002	0.003	0.003284	0.00388	0.00366
Lower Lim.	0.00073	0.00262	0.0006	0.001	0.00078	0.001862	0.002	0.002

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 5/31/2024 11:59 AM View: Pond E - Confidence Intervals

Plant Branch Data: Plant Branch AP

	BRGWC-17S	BRGWC-33S	BRGWC-34S	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-13S
9/7/2016	0.0377	0.0214		0.101	0.0674		0.044	
9/8/2016			0.0415					
11/17/2016	0.0405	0.0211	0.04	0.0808				
11/18/2016					0.0546			
11/21/2016							0.0428 (J)	
2/22/2017	0.0392	0.0243	0.0415	0.0701				
2/23/2017					0.0489	0.0229	0.0338	
4/17/2017						0.0227		
5/15/2017						0.0227		
6/14/2017		0.0218	0.0341					
6/15/2017	0.0364			0.0518	0.0415	0.0218	0.0239	
9/27/2017		0.0219	0.0347					
9/28/2017	0.0408			0.047	0.0397	0.0222	0.0247	
2/15/2018	0.0396	0.0248	0.0346	0.0485	0.038	0.0243	0.0215	
6/27/2018	0.041	0.023	0.028	0.046				
6/28/2018					0.035	0.023	0.018	
12/18/2018		0.023	0.029					
12/19/2018	0.038			0.04	0.035	0.024		
12/20/2018							0.017	
1/15/2019								0.14
8/27/2019		0.02						
8/28/2019	0.044	0.02	0.026	0.039	0.034	0.027		
8/29/2019							0.016	
10/16/2019		0.019	0.022	0.037		0.024	0.015	
10/22/2019								0.077
12/3/2019	0.043				0.031			
3/3/2020	0.036							
3/5/2020		0.022	0.025	0.039	0.033	0.025	0.016	
8/19/2020	0.047	0.02	0.024	0.04	0.037	0.026	0.016	
9/16/2020	0.044	0.019	0.023	0.033	0.03	0.024		
9/17/2020							0.014	
3/3/2021		0.02	0.024		0.031	0.024		
3/4/2021	0.039			0.034			0.015	
9/22/2021	0.043	0.019	0.021		0.028			
9/23/2021				0.036		0.027	0.014	
2/1/2022	0.045	0.023	0.024	0.033	0.029		0.015	
2/2/2022						0.025		
8/23/2022		0.0409				0.026	0.0141	0.0562
8/24/2022	0.0512		0.0249	0.0339	0.0296			
1/24/2023	0.0422	0.0368	0.0232	0.0291				
1/25/2023					0.0278	0.0247	0.018	
1/26/2023								0.0525
8/31/2023		0.0357	0.0268			0.0266		0.0683
9/6/2023	0.0445			0.0286	0.0243		0.0134	
2/10/2024	0.0522			0.0299				0.0499
2/13/2024		0.0515	0.0261		0.0273	0.0256	0.016	
Mean	0.04222	0.02515	0.02867	0.04489	0.03611	0.02443	0.02041	0.07398
Std. Dev.	0.004396	0.008619	0.006629	0.01872	0.01047	0.001589	0.009259	0.03393
Upper Lim.	0.04471	0.0248	0.03205	0.05116	0.04114	0.02533	0.0239	0.1169
Lower Lim.	0.03972	0.02	0.02484	0.03474	0.03025	0.02352	0.0141	0.04078

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 5/31/2024 11:59 AM View: Pond E - Confidence Intervals

Plant Branch Data: Plant Branch AP

	PZ-53D	PZ-70I
8/23/2022	0.0547	
9/1/2022		0.0444
1/25/2023	0.0536	
1/26/2023		0.025
9/6/2023	0.0485	0.0196
2/13/2024	0.0517	0.0207
Mean	0.05213	0.02743
Std. Dev.	0.002716	0.01155
Upper Lim.	0.05829	0.0563
Lower Lim.	0.04596	0.007936

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 5/31/2024 11:59 AM View: Pond E - Confidence Intervals

Plant Branch Data: Plant Branch AP

	BRGWC-33S	BRGWC-34S	BRGWC-35S	BRGWC-36S	BRGWC-38S	PZ-13S	PZ-70I
9/7/2016	0.0019 (J)		9E-05 (J)	<0.0002	0.0079		
9/8/2016		0.0001 (J)					
9/23/2016					0.0096 (R)		
11/17/2016	0.002 (J)	0.0001 (J)	0.0001 (J)				
11/18/2016				0.0001 (J)			
11/21/2016					0.0092		
2/22/2017	0.0022 (J)	0.0002 (J)	0.0001 (J)				
2/23/2017				0.0001 (J)	0.01		
6/14/2017	0.0019 (J)	<0.0005					
6/15/2017			0.0001 (J)	9E-05 (J)	0.0104		
9/27/2017	0.0017 (J)	0.0001 (J)					
9/28/2017			0.0001 (J)	0.0001 (J)	0.0098		
2/15/2018	<0.003	<0.0005	<0.0002	<0.0002	0.011 (J)		
6/27/2018	0.002 (J)	0.00013 (J)	0.00015 (J)				
6/28/2018				8.1E-05 (J)	0.0085		
12/18/2018	0.0021 (J)	0.00012 (J)					
12/19/2018			<0.0002 (X)	<0.0002 (X)			
12/20/2018					0.0092		
1/15/2019						0.0005 (J)	
8/27/2019	0.0019 (J)						
8/28/2019	0.0019 (J)	0.00014 (J)	0.00016 (J)	0.00011 (J)			
8/29/2019					0.0088		
10/16/2019	0.0018 (J)	0.00014 (J)	0.00015 (J)		0.0079		
10/17/2019				<0.0002			
10/22/2019						0.0004 (J)	
12/3/2019				9.7E-05 (J)			
3/5/2020	0.0018 (J)	0.00015 (J)	0.00015 (J)	9.2E-05 (J)	0.0082		
8/19/2020	0.0014 (J)	0.00015 (J)	0.00015 (J)	0.00011 (J)	0.0079		
9/16/2020	0.0015 (J)	0.00014 (J)	0.00014 (J)	8E-05 (J)			
9/17/2020					0.0073		
3/3/2021	0.0013	0.00015 (J)		7.9E-05 (J)			
3/4/2021			0.00012 (J)		0.0077		
9/22/2021	0.0012	0.00015 (J)		8.4E-05 (J)			
9/23/2021			0.00016 (J)		0.0071		
2/1/2022	0.0013	0.00015 (J)	0.00015 (J)	8.7E-05 (J)	0.0072		
8/23/2022	0.00241				0.00854	0.000331 (J)	
8/24/2022		<0.0005	0.00021 (J)	<0.0002			
9/1/2022							<0.0005
1/24/2023	0.00235	<0.0005	<0.0002				
1/25/2023				<0.0002	0.0078		
1/26/2023						0.000422 (J)	0.000217 (J)
8/31/2023	0.0019	<0.0005				0.000259 (J)	
9/6/2023			0.0002 (J)	<0.0002			
9/7/2023					0.0068		0.000325 (J)
2/10/2024			<0.0002			0.000388 (J)	
2/13/2024	0.00269	0.000202 (J)		<0.0002	0.00591		0.00034 (J)
Mean	0.001845	0.0002311	0.0001515	0.0001338	0.008417	0.0003833	0.0003455
Std. Dev.	0.0003882	0.0001615	4.03E-05	5.385E-05	0.001283	8.198E-05	0.0001167
Upper Lim.	0.002059	0.000202	0.0001436	0.0002	0.009124	0.000496	0.0004184
Lower Lim.	0.001631	0.00013	9.982E-05	8.7E-05	0.007709	0.0002707	0.0001696

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 5/31/2024 11:59 AM View: Pond E - Confidence Intervals

Plant Branch Data: Plant Branch AP

	BRGWC-33S	BRGWC-34S	BRGWC-36S	BRGWC-38S	PZ-13S
9/7/2016	0.0005 (J)		8E-05 (J)	0.0004 (J)	
9/8/2016		<0.0003			
11/17/2016	0.0005 (J)	0.0009 (J)			
11/18/2016			<0.0003		
11/21/2016				0.0005 (J)	
2/22/2017	0.0006 (J)	0.0005 (J)			
2/23/2017			0.0001 (J)	0.0007 (J)	
6/14/2017	0.0004 (J)	0.0004 (J)			
6/15/2017			<0.0003	0.0006 (J)	
9/27/2017	0.0004 (J)	0.0007 (J)			
9/28/2017			<0.0003	0.0007 (J)	
2/15/2018	<0.001	<0.0003	<0.0003	0.00069 (J)	
6/27/2018	0.00038 (J)	0.00017 (J)			
6/28/2018			<0.0003	0.00056 (J)	
12/18/2018	0.00046 (J)	0.00023 (J)			
12/19/2018			<0.0003 (X)		
12/20/2018				<0.001 (X)	
1/15/2019					0.00011 (J)
8/27/2019	0.00032 (J)				
8/28/2019	0.00032 (J)	0.00025 (J)	<0.0003		
8/29/2019				0.00053 (J)	
10/16/2019	0.00039 (J)	0.0004 (J)		0.00057 (J)	
10/17/2019			<0.0003		
10/22/2019					<0.0003
12/3/2019			<0.0003		
3/5/2020	0.00038 (J)	0.00018 (J)	<0.0003	0.00059 (J)	
8/19/2020	0.00029 (J)	0.00018 (J)	<0.0003	0.00056 (J)	
9/16/2020	0.00032 (J)	0.00017 (J)	<0.0003		
9/17/2020				0.0005 (J)	
3/3/2021	0.00022 (J)	0.00015 (J)	<0.0003		
3/4/2021				0.00042 (J)	
9/22/2021	0.00019 (J)	0.00033 (J)	<0.0003		
9/23/2021				0.00048 (J)	
2/1/2022	0.00023 (J)	0.00012 (J)	<0.0003	0.00058	
8/23/2022	0.000509 (J)			0.000459 (J)	<0.0003
8/24/2022		0.000517 (J)	<0.0003		
1/24/2023	0.000482 (J)	<0.0003			
1/25/2023			<0.0003	0.00043 (J)	
1/26/2023					<0.0003
8/31/2023	0.000533 (J)	<0.0003			<0.0003
9/6/2023			<0.0003	0.00041 (J)	
2/10/2024					<0.0003
2/13/2024	0.000792 (J)	<0.0003	<0.0003	0.000342 (J)	
Mean	0.000415	0.0003349	0.00028	0.0005261	0.0002683
Std. Dev.	0.0001408	0.0001958	6.325E-05	0.0001017	7.757E-05
Upper Lim.	0.0004927	0.0004049	0.0003	0.0005838	0.0003
Lower Lim.	0.0003374	0.0001873	0.0001	0.0004683	0.00011

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 5/31/2024 11:59 AM View: Pond E - Confidence Intervals

Plant Branch Data: Plant Branch AP

	BRGWC-17S	BRGWC-33S	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-13S
9/7/2016	0.01 (J)	<0.003	0.0019 (J)	0.0073 (J)		0.0014 (J)	
11/17/2016	0.0185	<0.003	0.0024 (J)				
11/18/2016				0.008 (J)			
11/21/2016						0.003 (J)	
2/22/2017	0.0122	<0.003	0.004 (J)				
2/23/2017				0.0086 (J)	0.001 (J)	0.0028 (J)	
4/17/2017					0.0018 (J)		
5/15/2017					0.0014 (J)		
6/14/2017		<0.003					
6/15/2017	0.0117		0.0033 (J)	0.0082 (J)	0.0013 (J)	0.0038 (J)	
9/27/2017		<0.003					
9/28/2017	0.0114		0.0052 (J)	0.0083 (J)	0.0014 (J)	0.0037 (J)	
2/15/2018	0.011	<0.003	<0.01	0.0086 (J)	<0.003	0.0044 (J)	
6/27/2018	0.0098 (J)	<0.003	0.0062 (J)				
6/28/2018				0.0076 (J)	<0.003	0.0041 (J)	
12/18/2018		<0.003					
12/19/2018	0.0095 (J)		0.0073 (J)	0.0085 (J)	<0.003		
12/20/2018						0.0041 (J)	
1/15/2019							0.025
8/27/2019		<0.003					
8/28/2019	0.013	<0.003	0.0071 (J)	0.0078 (J)	0.0017 (J)		
8/29/2019						0.0044 (J)	
10/16/2019		0.00049 (J)	0.0064 (J)		0.0014 (J)	0.0038 (J)	
10/22/2019							0.02
12/3/2019	0.011			0.007 (J)			
3/3/2020	0.0081 (J)						
3/5/2020		<0.003	0.0076 (J)	0.0087 (J)	0.0016 (J)	0.0038 (J)	
8/19/2020	0.012	<0.003	0.0073 (J)	0.0094 (J)	0.0017 (J)	0.0043 (J)	
9/16/2020	0.012	<0.003	0.0058 (J)	0.0064 (J)	0.0018 (J)		
9/17/2020						0.0042 (J)	
3/3/2021		<0.003		0.0067	0.0014 (J)		
3/4/2021	0.01		0.0053			0.004 (J)	
9/22/2021	0.0091	<0.003		0.0065			
9/23/2021			0.0065		0.0016 (J)	0.004 (J)	
2/1/2022	0.013	<0.003	0.0056	0.0068		0.0035 (J)	
2/2/2022					0.0015 (J)		
8/23/2022		<0.003			<0.003	0.00398 (J)	0.0128
8/24/2022	0.0127		0.00752 (J)	0.00713 (J)			
1/24/2023	0.00886 (J)	<0.003	0.00524 (J)				
1/25/2023				0.00682 (J)	<0.003	0.00362 (J)	
1/26/2023							0.0153
8/31/2023		<0.003			<0.003		0.0111
9/6/2023	0.0115		0.00592 (J)	0.00649 (J)		0.00338 (J)	
2/10/2024	0.011		0.0059 (J)				0.0134
2/13/2024		<0.003		0.00648 (J)	<0.003	0.00305 (J)	
Mean	0.01132	0.00288	0.005574	0.007566	0.00203	0.003667	0.01627
Std. Dev.	0.002197	0.0005477	0.001627	0.000922	0.0007519	0.000701	0.005255
Upper Lim.	0.01244	0.003	0.006498	0.00809	0.003	0.004047	0.02349
Lower Lim.	0.01008	0.00049	0.00465	0.007042	0.0014	0.003383	0.009048

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 5/31/2024 11:59 AM View: Pond E - Confidence Intervals

Plant Branch Data: Plant Branch AP

	BRGWC-33S	BRGWC-34S	BRGWC-35S	BRGWC-38S	PZ-13S	PZ-52D	PZ-70I
9/7/2016	0.0612		0.0023 (J)	0.236			
9/8/2016		0.0029 (J)					
11/17/2016	0.0551	0.0028 (J)	0.0012 (J)				
11/21/2016				0.298			
2/22/2017	0.0567	0.0041 (J)	0.0008 (J)				
2/23/2017				0.277			
6/14/2017	0.0557	0.0036 (J)					
6/15/2017			0.0004 (J)	0.262			
9/27/2017	0.049	0.0028 (J)					
9/28/2017			0.0003 (J)	0.279			
2/15/2018	0.0536	<0.01	<0.0003	0.279			
6/27/2018	0.054	0.0041 (J)	<0.0003				
6/28/2018				0.23			
12/18/2018	0.049	0.0032 (J)					
12/19/2018			<0.0003				
12/20/2018				0.25			
1/15/2019					<0.0003		
8/27/2019	0.045						
8/28/2019	0.045	0.0037 (J)	<0.0003				
8/29/2019				0.21			
10/16/2019	0.042	0.0043 (J)	<0.0003	0.21			
10/22/2019					0.00037 (J)		
3/5/2020	0.037	0.0031 (J)	<0.0003	0.22			
8/19/2020	0.036	0.0041 (J)	<0.0003	0.22			
9/16/2020	0.034	0.0042 (J)	<0.0003				
9/17/2020				0.2			
3/3/2021	0.028	0.0046 (J)					
3/4/2021			<0.0003	0.2			
9/22/2021	0.024	0.0075					
9/23/2021			<0.0003	0.17			
2/1/2022	0.027	0.0044 (J)	<0.0003	0.18			
8/23/2022	0.0639			0.173	<0.0003		
8/24/2022		0.00438	<0.0003				
9/1/2022						0.0015	0.0056
1/24/2023	0.0582	0.00351	<0.0003				
1/25/2023				0.158		0.00249	
1/26/2023					<0.0003		0.000682 (J)
8/31/2023	0.0659	0.00384			<0.0003		
9/6/2023			<0.0003	0.139		0.000307 (J)	0.000784 (J)
2/10/2024			<0.0003		<0.0003		
2/13/2024	0.0988	0.00751		0.134		0.00104	0.000866 (J)
Mean	0.04948	0.004182	0.000475	0.2163	0.0003117	0.001334	0.001983
Std. Dev.	0.01669	0.001293	0.0004844	0.0482	2.858E-05	0.0009138	0.002413
Upper Lim.	0.05869	0.004697	0.0004	0.2436	0.00037	0.003409	0.0056
Lower Lim.	0.04027	0.003453	0.0003	0.1889	0.0003	0	0.000682

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/31/2024 11:59 AM View: Pond E - Confidence Intervals

Plant Branch Data: Plant Branch AP

	BRGWC-17S	BRGWC-33S	BRGWC-34S	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-13S
9/7/2016	1.18	0.541 (U)		0.189 (U)	0.638 (U)		0.816 (U)	
9/8/2016			0.998 (U)					
11/17/2016	0.145 (U)	1.02 (U)	0.613	0.729 (U)				
11/18/2016					1.22 (U)			
11/21/2016							2.94	
2/22/2017	0.0213 (U)	0.482 (U)	1.01 (U)	0.293 (U)				
2/23/2017					0.554 (U)	0.567 (U)	1.92	
4/17/2017						0.335 (U)		
5/15/2017						0.261 (U)		
6/14/2017		0.723 (U)	0.801 (U)					
6/15/2017	0.41 (U)			1.09	0.77 (U)	0.188 (U)	3.6	
9/27/2017		1.5	1.44					
9/28/2017	0.496 (U)			1.02 (U)	1.07 (U)	0.627 (U)	3.3	
2/15/2018	0.672 (U)	1.14 (U)	0.668 (U)	0.742 (U)	0.751 (U)	0.869 (U)	2.31 (J+X)	
6/27/2018	0.692 (U)	1.3 (U)	1.06 (U)	0.739 (U)				
6/28/2018					0.392 (U)	0.336 (U)	1.75 (UX)	
12/18/2018		1.64 (UX)	1.22					
12/19/2018	0.325 (U)			0.465 (U)	0.693 (U)	0.454 (U)		
12/20/2018							2.8 (J+X)	
1/15/2019								<0.983
8/27/2019		1.38						
8/28/2019	0.24 (U)		0.811 (U)	0.995 (U)	0.866 (U)	0.809 (U)		
8/29/2019							3.68	
10/16/2019		1.16 (U)	0.561 (U)	1.69		0.815 (U)	2.66	
10/22/2019								0.631 (U)
12/18/2019	1.16 (U)				1.91			
3/3/2020	0.756 (U)							
3/5/2020		0.683 (U)	0.792 (U)	0.858 (U)	1.3	0.791 (U)	2.21	
8/19/2020	0.985 (U)	1.14 (U)	1.21 (U)	0.162 (U)	1.4	0.582 (U)	3.17	
9/16/2020	0.478 (U)	0.195 (U)	0.72 (U)	1.25 (U)	1.17 (U)	0.844 (U)		
9/17/2020							2.92	
3/3/2021		0.708 (U)	1.12		0.307 (U)	1.12		
3/4/2021	0.38 (U)			0.461 (U)			1.99	
9/22/2021	0.734 (U)	0.382 (U)	0.91 (U)		0.808 (U)			
9/23/2021				0.394 (U)		0.078 (U)	1.4	
2/1/2022	0.503 (U)	0.583 (U)	0.535 (U)	0.672 (U)	1.61 (U)		7.64	
2/2/2022						0.654 (U)		
8/23/2022		1.94				2.37	3.12	1.83
8/24/2022	0.152		1.86	3.1	1.38			
1/24/2023	0.728 (U)	3.31 (U)	2.14 (U)	3.34				
1/25/2023					4.86	1.67 (U)	3.79	
1/26/2023								4.77
9/20/2023	1.92 (U)			3.33	3.87		5.98	
9/22/2023		0.521 (U)	1.06 (U)			0.578 (U)		0.823 (U)
2/27/2024	1.36			2.4				2.01
2/28/2024		2.66	1.31 (U)		2.31	1.74	2.98	
Mean	0.6669	1.15	1.042	1.196	1.394	0.7844	3.049	1.841
Std. Dev.	0.4684	0.7833	0.4156	1.031	1.144	0.5689	1.527	1.539
Upper Lim.	0.9328	1.595	1.278	1.577	1.808	1.015	3.733	3.665
Lower Lim.	0.4009	0.7056	0.8059	0.5717	0.7645	0.4368	2.155	0.3456

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/31/2024 11:59 AM View: Pond E - Confidence Intervals
Plant Branch Data: Plant Branch AP

	PZ-53D	PZ-70I
8/23/2022	3.04	
9/1/2022		1.57
1/25/2023	2.1 (U)	
1/26/2023		1.81 (U)
9/20/2023		4.35
9/26/2023	3.67	
2/28/2024	3.57	1.55
Mean	3.095	2.32
Std. Dev.	0.7186	1.358
Upper Lim.	4.727	4.35
Lower Lim.	1.463	1.55

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 5/31/2024 11:59 AM View: Pond E - Confidence Intervals

Plant Branch Data: Plant Branch AP

	BRGWC-17S	BRGWC-33S	BRGWC-34S	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-13S
9/7/2016	0.22 (J)	0.19 (J)		0.34	0.18 (J)		0.66	
9/8/2016			0.17 (J)					
11/17/2016	0.12 (J)	0.12 (J)	0.06 (J)	0.14 (J)				
11/18/2016					0.03 (J)			
11/21/2016							0.9 (D)	
2/22/2017	0.11 (J)	0.21 (J)	0.17 (J)	0.09 (J)				
2/23/2017					0.07 (J)	0.1 (J)	0.75	
4/17/2017						0.08 (J)		
5/15/2017						0.02 (J)		
6/14/2017		0.18 (J)	0.1 (J)					
6/15/2017	0.05 (J)			0.03 (J)	0.01 (J)	0.03 (J)	0.77	
9/27/2017		0.42	0.4					
9/28/2017	0.05 (J)			<0.1	<0.1	<0.1	0.8	
2/15/2018	<0.3	0.42	<0.3	<0.1	<0.1	<0.1	0.82	
6/27/2018	0.093 (J)	0.32	0.21 (J)	0.22 (J)				
6/28/2018					0.51 (J+X)	<0.1	1.5 (J+X)	
12/18/2018		0.28 (J)	0.12 (J)					
12/19/2018	0.16 (J)			0.11 (J)	<0.1	0.094 (J)		
12/20/2018							0.68	
1/15/2019								0.06 (J)
3/19/2019	0.1 (J)				<0.1			
3/20/2019		0.14 (J)	0.074 (J)	0.088 (J)		0.062 (J)	0.95	
8/27/2019		0.11 (J)						
8/28/2019	0.085 (J)	0.11 (J)	0.057 (J)	0.056 (J)	<0.1	<0.1		
8/29/2019							0.9	
10/16/2019		0.17 (J)	0.13 (J)	0.08 (J)		0.059 (J)	0.61	
10/22/2019								<0.1
12/3/2019	0.2 (J)				0.15 (J)			
3/3/2020	0.093 (J)							
3/5/2020		0.088 (J)	0.072 (J)	0.067 (J)	<0.1	0.05 (J)	0.92	
8/19/2020	0.1	0.11	0.074 (J)	0.06 (J)	0.051 (J)	0.055 (J)	0.95	
9/16/2020	0.1	0.085 (J)	0.077 (J)	0.062 (J)	<0.1	<0.1		
9/17/2020							0.68	
3/3/2021		0.069 (J)	0.071 (J)		<0.1	<0.1		
3/4/2021	0.096 (J)			0.076 (J)			0.83	
9/22/2021	0.1	0.068 (J)	0.1		0.054 (J)			
9/23/2021				0.073 (J)		<0.1	0.85	
2/1/2022	0.079 (J)	0.053 (J)	0.06 (J)	0.055 (J)	<0.1		0.95	
2/2/2022						<0.1		
8/23/2022		0.187				0.105	0.609	0.128
8/24/2022	0.274		0.14	<0.1	0.194			
1/24/2023	0.216	0.193	0.122	0.239				
1/25/2023					0.183	0.114	0.708	
1/26/2023								<0.1
8/23/2023		0.123				0.0445 (J)		<0.1
8/24/2023	0.484		0.0816 (J)	0.347			0.748	
8/25/2023					0.301			
1/31/2024	0.34			0.263				0.222
2/1/2024		0.194	0.101		0.144	0.109	0.493	
Mean	0.1533	0.1745	0.1209	0.1212	0.1322	0.08202	0.8132	0.1183
Std. Dev.	0.1063	0.104	0.07664	0.09838	0.1076	0.02827	0.2027	0.05523
Upper Lim.	0.1933	0.2158	0.1457	0.1381	0.1584	0.105	0.9105	0.191

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 5/31/2024 11:59 AM View: Pond E - Confidence Intervals
Plant Branch Data: Plant Branch AP

	BRGWC-17S	BRGWC-33S	BRGWC-34S	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-13S
Lower Lim.	0.09505	0.1151	0.08142	0.06358	0.05325	0.055	0.7015	0.03553

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 5/31/2024 11:59 AM View: Pond E - Confidence Intervals

Plant Branch Data: Plant Branch AP

	PZ-53D	PZ-52D	PZ-70I
8/23/2022	0.164		
9/1/2022		0.14	1.43
1/25/2023	0.282		
1/26/2023		1.93	<0.2
8/24/2023		1.94	
8/25/2023	0.334		0.229
2/2/2024	0.153	1.9	0.108
Mean	0.2333	1.478	0.4918
Std. Dev.	0.089	0.8918	0.6276
Upper Lim.	0.4353	1.94	2.101
Lower Lim.	0.03119	0.14	0.0002698

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 5/31/2024 11:59 AM View: Pond E - Confidence Intervals

Plant Branch Data: Plant Branch AP

	BRGWC-17S	BRGWC-33S	BRGWC-34S	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-13S
9/7/2016	<0.0005	0.0002 (J)		0.0001 (J)	<0.0005		0.0004 (J)	
9/8/2016			<0.0005					
11/17/2016	0.0001 (J)	0.0002 (J)	0.0001 (J)	0.0002 (J)				
11/18/2016					<0.0005			
11/21/2016							0.0005 (J)	
2/22/2017	<0.0005	0.0001 (J)	0.0003 (J)	0.0001 (J)				
2/23/2017					<0.0005	<0.0005	0.0005 (J)	
4/17/2017						0.0001 (J)		
5/15/2017						<0.0005		
6/14/2017		9E-05 (J)	<0.0005					
6/15/2017	<0.0005			<0.0005	<0.0005	<0.0005	0.0004 (J)	
9/27/2017		7E-05 (J)	9E-05 (J)					
9/28/2017	<0.0005			<0.0005	<0.0005	0.0001 (J)	0.0004 (J)	
2/15/2018	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.00047 (J)	
6/27/2018	<0.0005	<0.0005	<0.0005	<0.0005				
6/28/2018					<0.0005	<0.0005	0.00036 (J)	
12/18/2018		<0.0005	<0.0005					
12/19/2018	<0.0005			<0.0005	<0.0005	<0.0005		
12/20/2018							0.00039 (J)	
1/15/2019								<0.0005
8/27/2019		0.00013 (J)						
8/28/2019	<0.0005	0.00013 (J)	<0.0005	<0.0005	<0.0005	<0.0005		
8/29/2019							0.00035 (J)	
10/16/2019		8.8E-05 (J)	<0.0005	<0.0005		<0.0005	0.00035 (J)	
10/22/2019								0.00035 (J)
12/3/2019	<0.0005				<0.0005			
3/3/2020	<0.0005							
3/5/2020		8.7E-05 (J)	<0.0005	<0.0005	<0.0005	<0.0005	0.00041 (J)	
8/19/2020	<0.0005	6E-05 (J)	<0.0005	<0.0005	4.7E-05 (J)	<0.0005	0.00031 (J)	
9/16/2020	5.4E-05 (J)	6.3E-05 (J)	<0.0005	0.00012 (J)	<0.0005	<0.0005		
9/17/2020							0.00032 (J)	
3/3/2021		5.8E-05 (J)	<0.0005		<0.0005	<0.0005		
3/4/2021	<0.0005			<0.0005			0.00034 (J)	
9/22/2021	<0.0005	<0.0005	<0.0005		<0.0005			
9/23/2021				<0.0005		<0.0005	<0.0005	
2/1/2022	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		<0.0005	
2/2/2022						<0.0005		
8/23/2022		<0.0005				<0.0005	<0.0005	<0.0005
8/24/2022	<0.0005		<0.0005	<0.0005	<0.0005			
1/24/2023	<0.0005	<0.0005	<0.0005	<0.0005				
1/25/2023					<0.0005	<0.0005	<0.0005	
1/26/2023								<0.0005
8/31/2023		<0.0005	<0.0005			<0.0005		<0.0005
9/6/2023	<0.0005			<0.0005	<0.0005		<0.0005	
2/10/2024	<0.0005			<0.0005				<0.0005
2/13/2024		<0.0005	<0.0005		<0.0005	<0.0005	<0.0005	
Mean	0.0004577	0.000275	0.0004495	0.000426	0.0004774	0.00046	0.000425	0.000475
Std. Dev.	0.0001304	0.000203	0.0001292	0.000153	0.0001013	0.0001231	7.156E-05	6.124E-05
Upper Lim.	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005
Lower Lim.	0.0001	8.7E-05	0.0003	0.0002	4.7E-05	0.0001	0.00035	0.00035

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 5/31/2024 11:59 AM View: Pond E - Confidence Intervals

Plant Branch Data: Plant Branch AP

	BRGWC-17S	BRGWC-33S	BRGWC-34S	BRGWC-35S	BRGWC-36S	BRGWC-38S	PZ-13S	PZ-53D
9/7/2016	<0.003	0.0092 (J)		0.0021 (J)	0.0024 (J)	0.0193 (J)		
9/8/2016			<0.003					
11/17/2016	<0.003	0.0097 (J)	<0.003	0.0022 (J)				
11/18/2016					0.0026 (J)			
11/21/2016						0.0223 (J)		
2/22/2017	<0.003	0.0106 (J)	<0.003	0.0023 (J)				
2/23/2017					0.0026 (J)	0.0229 (J)		
6/14/2017		0.0097 (J)	<0.003					
6/15/2017	<0.003			0.0023 (J)	0.0026 (J)	0.0227 (J)		
9/27/2017		0.0099 (J)	<0.003					
9/28/2017	<0.003			0.0021 (J)	0.0025 (J)	0.023 (J)		
2/15/2018	<0.003	0.0106 (J)	<0.003	0.0021 (J)	<0.003	0.0254 (J)		
6/27/2018	<0.003	0.01 (J)	<0.003	0.0021 (J)				
6/28/2018					0.0022 (J)	0.021 (J)		
12/18/2018		0.011 (J)	<0.003					
12/19/2018	<0.003			0.0021 (J)	0.0026 (J)			
12/20/2018						0.022 (J)		
1/15/2019							0.0017 (J)	
8/27/2019		0.01 (J)						
8/28/2019	0.00097 (J)	0.01 (J)	0.0009 (J)	0.0021 (J)	0.0025 (J)			
8/29/2019						0.021 (J)		
10/16/2019		0.0098 (J)	0.00078 (J)	0.0022 (J)		0.02 (J)		
10/22/2019							0.001 (J)	
12/3/2019	0.001 (J)				0.0024 (J)			
3/3/2020	<0.003							
3/5/2020		0.011 (J)	0.00089 (J)	0.0021 (J)	0.0025 (J)	0.021 (J)		
8/19/2020	0.001 (J)	0.009 (J)	0.00082 (J)	0.0021 (J)	0.0024 (J)	0.021 (J)		
9/16/2020	0.00096 (J)	0.0089 (J)	<0.003	0.002 (J)	0.0022 (J)			
9/17/2020						0.02 (J)		
3/3/2021		0.0085 (J)	0.00096 (J)		0.0024 (J)			
3/4/2021	0.00086 (J)			0.0021 (J)		0.021 (J)		
9/22/2021	0.0011 (J)	0.008 (J)	<0.003		0.0026 (J)			
9/23/2021				0.0022 (J)		0.019 (J)		
2/1/2022	0.00096 (J)	0.0083 (J)	0.00085 (J)	0.0021 (J)	0.0023 (J)	0.02 (J)		
8/23/2022		0.0109				0.0214	<0.003	0.0171
8/24/2022	<0.003		<0.003	<0.003	<0.003			
1/24/2023	<0.003	0.0115	<0.003	<0.003				
1/25/2023					<0.003	0.0256		0.0207
1/26/2023							<0.003	
8/31/2023		0.00967 (J)	<0.003				<0.003	
9/6/2023	<0.003			<0.003	<0.003			0.0185
9/7/2023						0.0195		
2/10/2024	<0.003			<0.003			<0.003	
2/13/2024		0.0117	<0.003		<0.003	0.0201		0.0182
Mean	0.002293	0.009903	0.00236	0.00231	0.00259	0.02141	0.00245	0.01863
Std. Dev.	0.00099	0.00102	0.001004	0.0003611	0.0002713	0.001828	0.0008803	0.001509
Upper Lim.	0.003	0.01047	0.003	0.0023	0.002372	0.02245	0.003	0.02205
Lower Lim.	0.001	0.009341	0.0009	0.0021	0.002231	0.02037	0.001	0.0152

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 5/31/2024 11:59 AM View: Pond E - Confidence Intervals

Plant Branch Data: Plant Branch AP

	PZ-70I
9/1/2022	0.00615 (J)
1/26/2023	0.00381 (J)
9/7/2023	0.00385 (J)
2/13/2024	0.00385 (J)
Mean	0.004415
Std. Dev.	0.001157
Upper Lim.	0.00615
Lower Lim.	0.00381

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 5/31/2024 11:59 AM View: Pond E - Confidence Intervals

Plant Branch Data: Plant Branch AP

	BRGWC-17S	BRGWC-33S	BRGWC-34S	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-70I
9/7/2016	<6.7E-05	<6.7E-05		<6.7E-05	<6.7E-05		7E-05 (J)	
9/8/2016			<6.7E-05					
11/17/2016	<6.7E-05	<6.7E-05	<6.7E-05	<6.7E-05				
11/18/2016					<6.7E-05			
11/21/2016							0.00012 (J)	
2/22/2017	<6.7E-05	<6.7E-05	<6.7E-05	<6.7E-05				
2/23/2017					<6.7E-05	<6.7E-05	7E-05 (J)	
4/17/2017						<6.7E-05		
5/15/2017						<6.7E-05		
6/14/2017		7E-05 (J)	7E-05 (J)					
6/15/2017	6E-05 (J)			7E-05 (J)	7E-05 (J)	6E-05 (J)	0.00016 (J)	
9/27/2017		4E-05 (J)	4E-05 (J)					
9/28/2017	<6.7E-05			<6.7E-05	<6.7E-05	<6.7E-05	0.00011 (J)	
2/15/2018	<6.7E-05	<6.7E-05	<6.7E-05	<6.7E-05	<6.7E-05	<6.7E-05	0.00015 (J)	
6/27/2018	<6.7E-05	<6.7E-05	<6.7E-05	<6.7E-05				
6/28/2018					<6.7E-05	<6.7E-05	<0.0002 (X)	
12/18/2018		<6.7E-05	<6.7E-05					
12/19/2018	<6.7E-05			<6.7E-05	<6.7E-05	<6.7E-05		
12/20/2018							0.00017 (J)	
8/27/2019		<6.7E-05						
8/28/2019	<6.7E-05	<6.7E-05	<6.7E-05	<6.7E-05	<6.7E-05	<6.7E-05		
8/29/2019							0.00018 (J)	
8/19/2020	8.4E-05 (J)	<6.7E-05	0.00012 (J)	0.00013 (J)	0.00013 (J)	0.00014 (J)	0.00018 (J)	
9/16/2020	<6.7E-05	<6.7E-05	<6.7E-05	<6.7E-05	<6.7E-05	<6.7E-05		
9/17/2020							0.00011 (J)	
3/3/2021		<6.7E-05	<6.7E-05		<6.7E-05	<6.7E-05		
3/4/2021	<6.7E-05			<6.7E-05			8.5E-05 (J)	
9/22/2021	0.0001 (J)	0.00012 (J)	0.00015 (J)		0.0001 (J)			
9/23/2021				0.00011 (J)		0.00011 (J)	0.00022	
2/1/2022	<6.7E-05	<6.7E-05	<6.7E-05	<6.7E-05	<6.7E-05		<0.0002	
2/2/2022						<6.7E-05		
8/23/2022		<6.7E-05				<6.7E-05	0.000117 (J)	
8/24/2022	<6.7E-05		<6.7E-05	<6.7E-05	<6.7E-05			
9/1/2022								<0.0002
1/24/2023	<6.7E-05	<6.7E-05	<6.7E-05	<6.7E-05				
1/25/2023					<6.7E-05	<6.7E-05	<0.0002	
1/26/2023								<0.0002
8/25/2023		<6.7E-05	<6.7E-05			<6.7E-05		
8/28/2023	<6.7E-05			<6.7E-05	<6.7E-05		<0.0002	0.00322
2/2/2024	<6.7E-05			<6.7E-05				
2/5/2024		<6.7E-05	<6.7E-05		<6.7E-05	<6.7E-05	8.5E-05 (J)	0.00149
Mean	6.939E-05	6.853E-05	7.322E-05	7.306E-05	7.25E-05	7.306E-05	0.0001459	0.001277
Std. Dev.	8.826E-06	1.395E-05	2.394E-05	1.743E-05	1.631E-05	1.965E-05	5.049E-05	0.001431
Upper Lim.	8.4E-05	7E-05	7E-05	7E-05	7E-05	0.00011	0.0001477	0.00409
Lower Lim.	6E-05	4E-05	4E-05	6.7E-05	6.7E-05	6E-05	9.243E-05	0

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 5/31/2024 11:59 AM View: Pond E - Confidence Intervals
Plant Branch Data: Plant Branch AP

	PZ-53D	PZ-70I
8/23/2022	0.00265	
9/1/2022		0.00142
1/25/2023	0.00234	
1/26/2023		<0.0002
9/6/2023	0.00211	<0.0002
2/13/2024	0.00209	<0.0002
Mean	0.002298	0.000505
Std. Dev.	0.0002609	0.00061
Upper Lim.	0.00289	0.00142
Lower Lim.	0.001705	0.0002

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 5/31/2024 11:59 AM View: Pond E - Confidence Intervals

Plant Branch Data: Plant Branch AP

	BRGWC-17S	BRGWC-33S	BRGWC-36S	BRGWC-38S	PZ-13S	PZ-70I
9/7/2016	0.0024 (J)	0.0032 (J)	0.0079 (J)	0.0311		
11/17/2016	0.0028 (J)	0.0028 (J)				
11/18/2016			0.0082 (J)			
11/21/2016				0.0409		
2/22/2017	0.0018 (J)	0.0018 (J)				
2/23/2017			0.0061 (J)	0.0354		
6/14/2017		0.004 (J)				
6/15/2017	0.0024 (J)		0.0046 (J)	0.0511		
9/27/2017		0.0036 (J)				
9/28/2017	<0.005		0.0042 (J)	0.0484		
2/15/2018	<0.005	<0.005	0.0045 (J)	0.0435		
6/27/2018	0.002 (J)	0.0017 (J)				
6/28/2018			0.0033 (J)	0.037		
12/18/2018		<0.005				
12/19/2018	0.0014 (J)		0.0042 (J)			
12/20/2018				0.037		
1/15/2019					0.0033 (J)	
8/27/2019		<0.005				
8/28/2019	0.003 (J)	<0.005	0.0041 (J)			
8/29/2019				0.036		
10/16/2019		0.0028 (J)		0.033		
10/22/2019					0.0033 (J)	
12/3/2019	0.0041 (J)		0.0035 (J)			
3/3/2020	0.0019 (J)					
3/5/2020		<0.005	0.0034 (J)	0.032		
8/19/2020	0.003 (J)	<0.005	0.002 (J)	0.041		
9/16/2020	<0.005	0.0028 (J)	0.0031 (J)			
9/17/2020				0.029		
3/3/2021		<0.005	0.0024 (J)			
3/4/2021	<0.005			0.039		
9/22/2021	0.0015 (J)	<0.005	0.0032 (J)			
9/23/2021				0.031		
2/1/2022	0.0021 (J)	<0.005	0.0025 (J)	0.029		
8/23/2022		0.0061		0.0296	0.00157 (J)	
8/24/2022	0.00208 (J)		0.00246 (J)			
9/1/2022						0.00625
1/24/2023	0.00178 (J)	0.0049 (J)				
1/25/2023			0.00237 (J)	0.0279		
1/26/2023					0.00215 (J)	0.00921
8/31/2023		0.00572			<0.005	
9/6/2023	0.00214 (J)		0.00173 (J)	0.0186		0.00829
2/10/2024	0.00271 (J)				0.00203 (J)	
2/13/2024		0.0164	0.00174 (J)	0.0187		0.00789
Mean	0.002855	0.004801	0.003775	0.03446	0.002892	0.00791
Std. Dev.	0.001256	0.002939	0.00183	0.008372	0.00125	0.001237
Upper Lim.	0.002544	0.00572	0.0046	0.03921	0.003013	0.01072
Lower Lim.	0.001848	0.0032	0.002707	0.02971	0.001373	0.005102

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 5/31/2024 11:59 AM View: Pond E - Confidence Intervals

Plant Branch Data: Plant Branch AP

	BRGWC-17S	BRGWC-33S	BRGWC-38S
9/7/2016	<0.0006	0.0002 (J)	<0.0006
11/17/2016	<0.0006	0.0002 (J)	
11/21/2016			0.0004 (J)
2/22/2017	<0.0006	0.0002 (J)	
2/23/2017			0.0003 (J)
6/14/2017		0.0002 (J)	
6/15/2017	<0.0006		0.0003 (J)
9/27/2017		0.0002 (J)	
9/28/2017	<0.0006		0.0003 (J)
2/15/2018	<0.0006	0.00024 (J)	0.00026 (J)
6/27/2018	<0.0006	0.00022 (J)	
6/28/2018			0.00018 (J)
12/18/2018		0.00022 (J)	
12/19/2018	<0.0006		
12/20/2018			<0.0006 (X)
8/27/2019		0.00016 (J)	
8/28/2019	<0.0006	0.00016 (J)	
8/29/2019			0.00021 (J)
10/16/2019		0.00019 (J)	0.0002 (J)
12/3/2019	6.6E-05 (J)		
3/3/2020	<0.0006		
3/5/2020		0.0002 (J)	0.0002 (J)
8/19/2020	<0.0006	0.00018 (J)	0.00019 (J)
9/16/2020	<0.0006	0.00018 (J)	
9/17/2020			0.00017 (J)
3/3/2021		0.00018 (J)	
3/4/2021	<0.0006		<0.0006
9/22/2021	<0.0006	<0.0006	
9/23/2021			0.00022 (J)
2/1/2022	<0.0006	<0.0006	<0.0006
8/23/2022		<0.0006	<0.0006
8/24/2022	<0.0006		
1/24/2023	<0.0006	<0.0006	
1/25/2023			<0.0006
8/31/2023		<0.0006	
9/6/2023	<0.0006		<0.0006
2/10/2024	<0.0006		
2/13/2024		<0.0006	<0.0006
Mean	0.0005733	0.000311	0.0003865
Std. Dev.	0.0001194	0.0001882	0.0001864
Upper Lim.	0.0006	0.0006	0.0006
Lower Lim.	6.6E-05	0.00019	0.0002

ND substitution: RL or RL/2 if <15% NDs.

FIGURE I.

Appendix IV - Trend Test Summary - Significant Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 4/5/2024, 2:53 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Beryllium (mg/L)	**BRGWC-38S**	**-0.0004478**	**-126**	**-66**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**BRGWA-2S (bg)**	**-0.0003042**	**-132**	**-62**	**Yes**	**20**	**10**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**BRGWA-5I (bg)**	**-0.00009177**	**-71**	**-53**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**BRGWC-38S**	**-0.02058**	**-152**	**-62**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.05**	**NP**

Appendix IV - Trend Test Summary - All Results

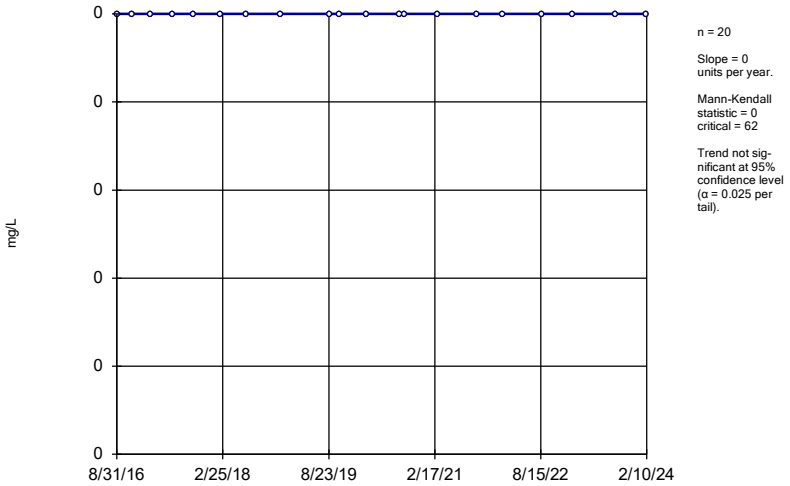
Plant Branch Client: Southern Company Data: Plant Branch AP Printed 4/5/2024, 2:53 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Beryllium (mg/L)	BRGWA-2I (bg)	0	0	62	No	20	100	n/a	n/a	0.05	NP
Beryllium (mg/L)	BRGWA-2S (bg)	0	0	62	No	20	100	n/a	n/a	0.05	NP
Beryllium (mg/L)	BRGWA-5I (bg)	0	0	62	No	20	100	n/a	n/a	0.05	NP
Beryllium (mg/L)	BRGWA-5S (bg)	0	0	62	No	20	100	n/a	n/a	0.05	NP
Beryllium (mg/L)	BRGWA-6S (bg)	0	0	62	No	20	100	n/a	n/a	0.05	NP
Beryllium (mg/L)	**BRGWC-38S**	**-0.0004478**	**-126**	**-66**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	BRGWA-2I (bg)	0	-52	-62	No	20	60	n/a	n/a	0.05	NP
Cobalt (mg/L)	**BRGWA-2S (bg)**	**-0.0003042**	**-132**	**-62**	**Yes**	**20**	**10**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**BRGWA-5I (bg)**	**-0.00009177**	**-71**	**-53**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	BRGWA-5S (bg)	0	-45	-62	No	20	70	n/a	n/a	0.05	NP
Cobalt (mg/L)	BRGWA-6S (bg)	0	12	62	No	20	75	n/a	n/a	0.05	NP
Cobalt (mg/L)	BRGWC-33S	-0.004889	-52	-66	No	21	0	n/a	n/a	0.05	NP
Cobalt (mg/L)	**BRGWC-38S**	**-0.02058**	**-152**	**-62**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.05**	**NP**

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-2I (bg)



Constituent: Beryllium Analysis Run 4/5/2024 2:50 PM View: Pond E - Appendix IV Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

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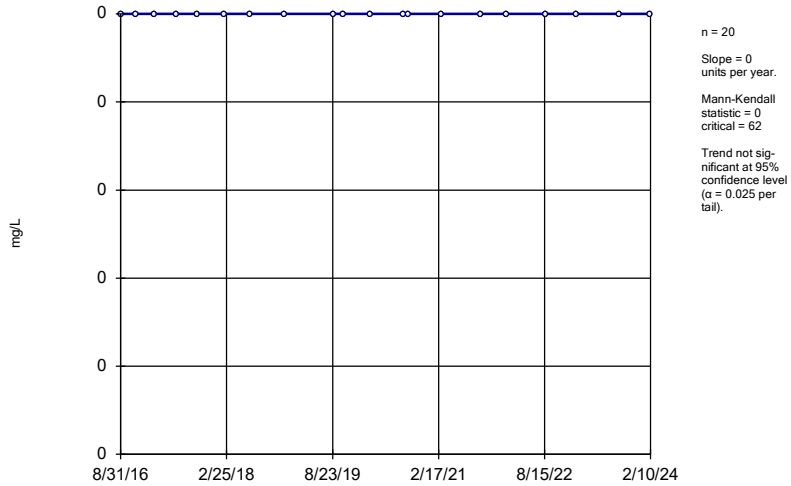
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-2S (bg)

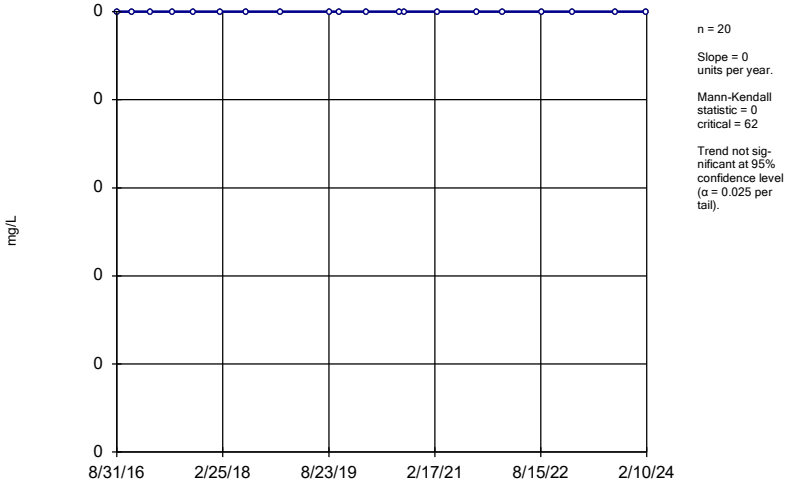


Constituent: Beryllium Analysis Run 4/5/2024 2:50 PM View: Pond E - Appendix IV Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-5I (bg)

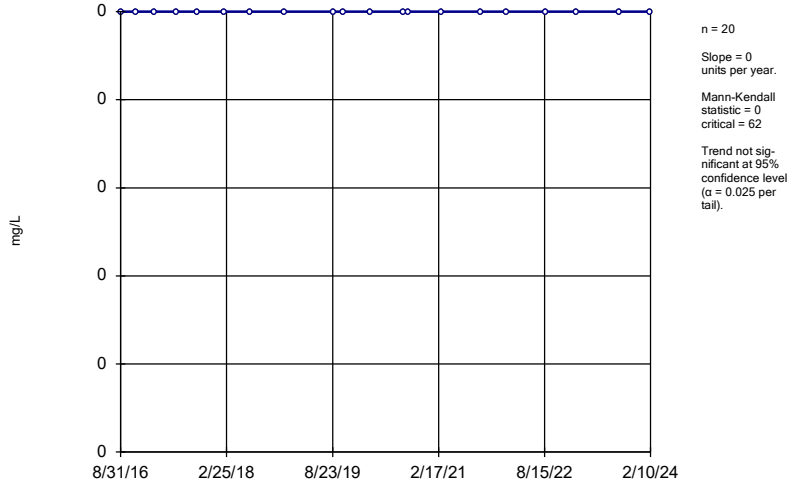


Constituent: Beryllium Analysis Run 4/5/2024 2:50 PM View: Pond E - Appendix IV Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-5S (bg)

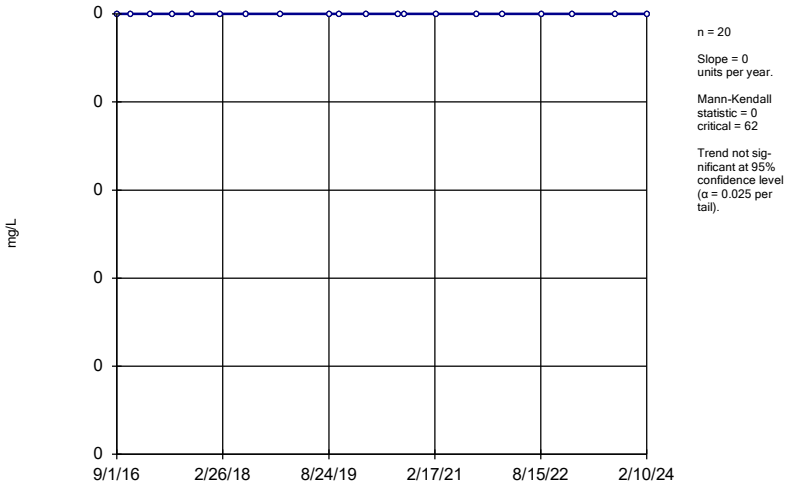


Constituent: Beryllium Analysis Run 4/5/2024 2:50 PM View: Pond E - Appendix IV Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-6S (bg)



n = 20

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 62

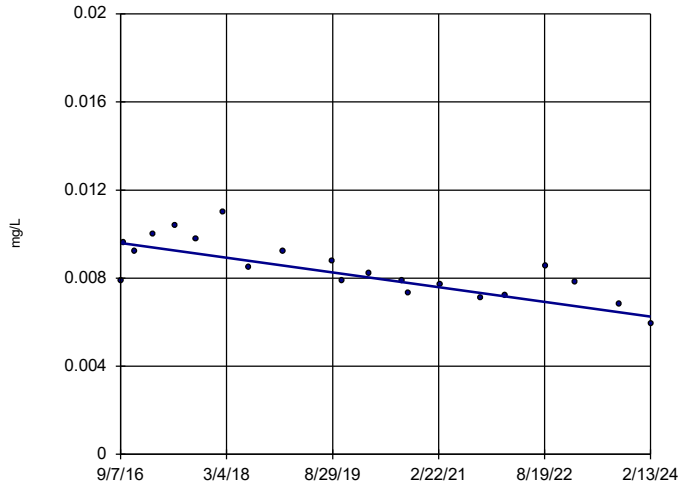
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Beryllium Analysis Run 4/5/2024 2:50 PM View: Pond E - Appendix IV Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWC-38S



n = 21

Slope = -0.0004478 units per year.

Mann-Kendall statistic = -126
critical = -66

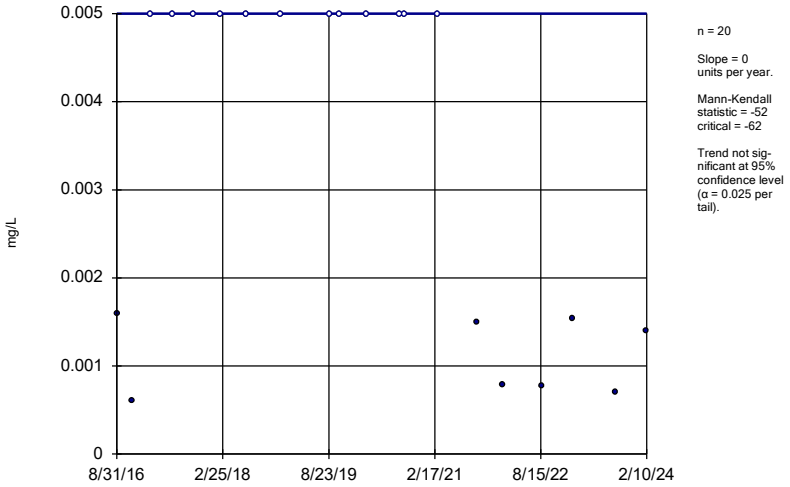
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Beryllium Analysis Run 4/5/2024 2:50 PM View: Pond E - Appendix IV Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-2I (bg)



n = 20

Slope = 0 units per year.

Mann-Kendall statistic = -52
critical = -62

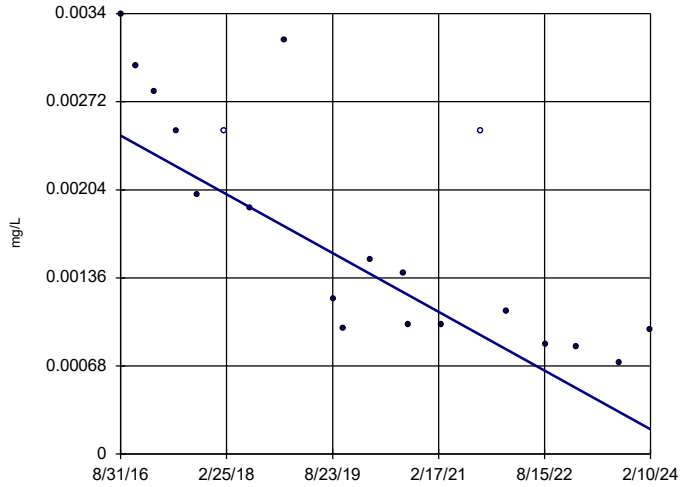
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 4/5/2024 2:50 PM View: Pond E - Appendix IV Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-2S (bg)



n = 20

Slope = -0.0003042 units per year.

Mann-Kendall statistic = -132
critical = -62

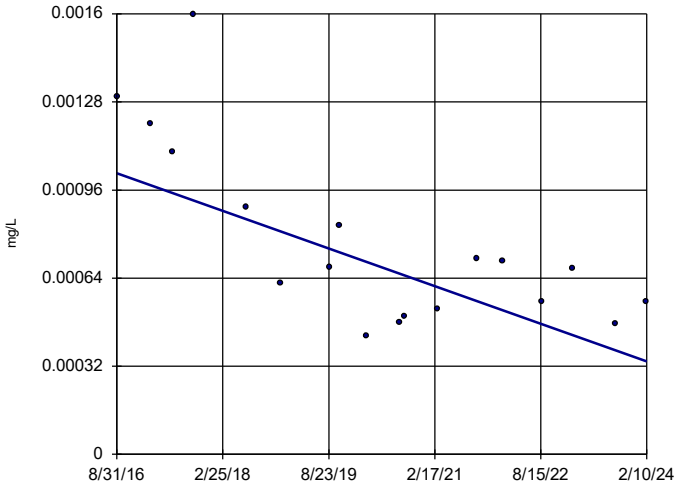
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 4/5/2024 2:50 PM View: Pond E - Appendix IV Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWA-5I (bg)



n = 18

Slope = -0.00009177 units per year.

Mann-Kendall statistic = -71 critical = -53

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 4/5/2024 2:50 PM View: Pond E - Appendix IV Trend Tests

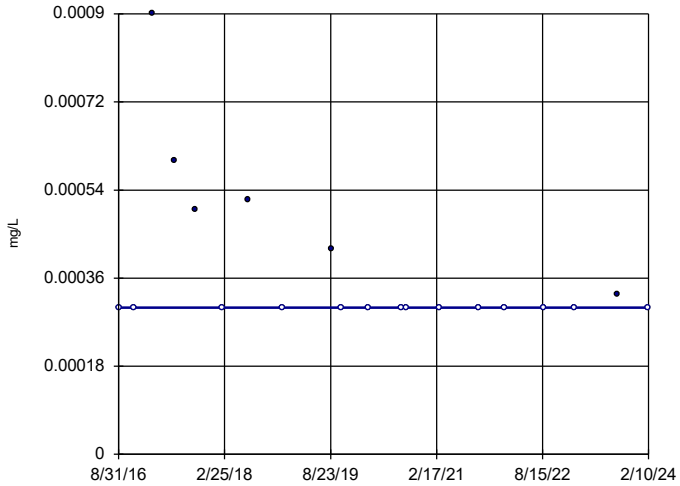
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-5S (bg)



n = 20

Slope = 0 units per year.

Mann-Kendall statistic = -45 critical = -62

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 4/5/2024 2:50 PM View: Pond E - Appendix IV Trend Tests

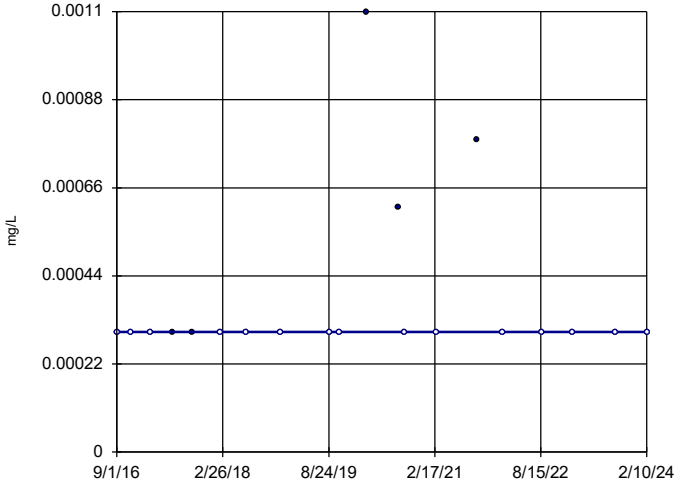
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-6S (bg)



n = 20

Slope = 0 units per year.

Mann-Kendall statistic = 12 critical = 62

Trend not significant at 95% confidence level (α = 0.025 per tail).

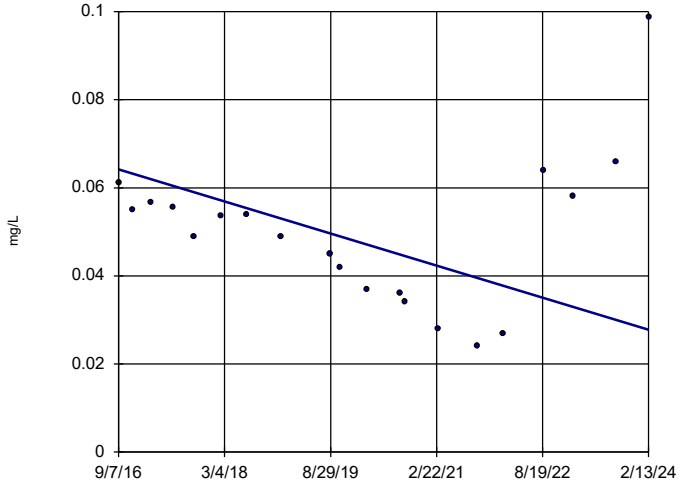
Constituent: Cobalt Analysis Run 4/5/2024 2:50 PM View: Pond E - Appendix IV Trend Tests

Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

BRGWC-33S



n = 21

Slope = -0.004889 units per year.

Mann-Kendall statistic = -52 critical = -66

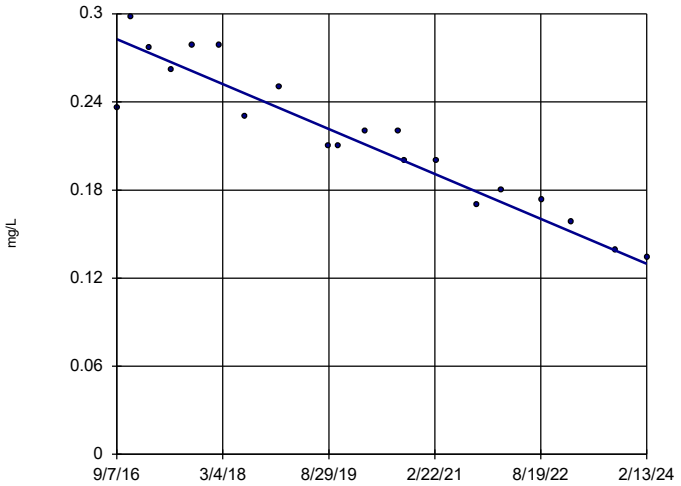
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 4/5/2024 2:50 PM View: Pond E - Appendix IV Trend Tests

Plant Branch Client: Southern Company Data: Plant Branch AP

Sen's Slope Estimator

BRGWC-38S



n = 20

Slope = -0.02058 units per year.

Mann-Kendall statistic = -152
critical = -62

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 4/5/2024 2:50 PM View: Pond E - Appendix IV Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP